

**WEBCOR/OBAYASHI JOINT VENTURE**  
**LONG FORM SUBCONTRACT – TRANSBAY TRANSIT CENTER PROJECT**

Job Name: Transbay Transit Center Project  
Job Number: 30100.01

Subcontract No.: 301000601  
Trade: Geothermal Loop

This Agreement ("Subcontract" or "Agreement") is made this \_\_\_\_ day of \_\_\_\_, \_\_\_\_, between:

CONTRACTOR ("Contractor"):

**WEBCOR/OBAYASHI JOINT VENTURE**  
**1751 Harbor Bay Parkway, Suite 200**  
**Alameda, CA 94502**  
**Phone: (510) 748-1900      Fax: (510) 748-7800**

**WEBCOR/OBAYASHI JOINT VENTURE JOB**  
**SITE OFFICE**  
**175 Beale Street**  
**San Francisco, CA 94105**  
**Phone: (415) 978-5700      Fax: (510) 476-3030**

and:

TRADE SUBCONTRACTOR ("Subcontractor"):

**NAME:**  
**Address:**  
**City, State, Zip:**  
**Phone:**                      **Fax:**

On or about the 17<sup>th</sup> day of March, 2009, Contractor entered into Prime Contract No.08-04-CMGC-000 with:

**TRANSBAY JOINT POWERS AUTHORITY ("TJPA")**  
**201 Mission Street, Suite 2100**  
**San Francisco, CA 94105**  
**Phone: (415) 597-4620      Fax: (415) 597-4615**

to perform the following project:

Contract No. 08-04-CMGC-000 for the performance of certain CM/GC services related to the construction of the Transbay Transit Center Building and Related Structures (the "Project") as more fully set forth in the Contract Documents. The Project generally consists of neighborhood utility relocation, demolition of existing structure and ramps, construction of the Transit Center Building, and construction of the Bus Ramps connecting the Transit Center Building to the Bus Storage Facility and the West Approach to the Oakland-San Francisco Bay Bridge, and the interconnection and coordination with the Transit Tower. The Project is located over four blocks (from Fremont to Second Streets) between Mission and Natoma Streets in the City and County of San Francisco.

Said work is to be performed in accordance with the Prime Contract and the Plans and Specifications. Said Plans and Specifications have been prepared by or on behalf of:

ARCHITECT (Transit Center Building and Bus Ramps):  
**PELLI CLARKE PELLI ARCHITECTS**  
**1056 Chapel St.**  
**New Haven, CT 06510**  
**Phone: (203) 777-2515      Fax: (203) 787-2856**

ENGINEER (Utility Relocation):  
**AECOM**  
**405 Howard Street**  
**San Francisco, CA 94105**  
**Phone: (415) 365-3200      Fax: (415) 267-4957**

## **SECTION 1. ENTIRE CONTRACT**

The phrase "Contract Documents" is defined to mean and include the following:

Long Form Subcontract

Contract Documents, as defined in Section VIII, Contract Document List, of Exhibit A – Trade Subcontractor Bid Package Manual and Forms – Contract #301000601, Trade Package # TG06.1: Geothermal Loop Package; dated April 03, 2012, Rev 0 ("Exhibit A"). Should a conflict exist between this Long Form Subcontract and the Contract Documents, Exhibit A shall take precedence.

Subcontractor certifies that he is fully familiar with all of the terms of the Contract Documents, the location of the job site and the conditions under which the work is to be performed (including, without limitation, existing field conditions, utility locations, and current, local construction practices) and that he enters into this Agreement based upon his investigation of all such matters and documents and is not relying on any opinions or representations of Contractor. This Agreement and the Contract Documents defined above represent the entire agreement. The Contract Documents are incorporated in this Agreement by reference, and Subcontractor and its Lower-Tier Subcontractors will be and are bound by the Contract Documents insofar as they relate in any way, directly or indirectly, to the work covered by this Agreement. Subcontractor agrees to be bound to Contractor in the same manner and to the same extent as Contractor is bound to the Owner under the Contract Documents, to the extent of the work provided for in this Agreement, and that where, in the Contract Documents reference is made to Contractor, and the work or specifications therein pertains to Subcontractor's trade, craft, or type of work, then such work or specification shall be interpreted to apply to Subcontractor instead of Contractor, and shall include all work, materials and equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as necessary to properly execute and complete such work. In the event that there is a conflict between Contract Documents, the more stringent of the documents shall apply. The prime contract between the Owner and Contractor is available for review at the Contractor's main office at 951 Mariners Island Blvd. 7<sup>th</sup> floor, San Mateo, CA 94404.

Subcontractor understands that this Agreement is for work that is partially funded by the federal government, and that there may be certain federal requirements as set forth in the Contract Documents that apply to Subcontractor's work under this Agreement, and that it is fully aware of all such requirements that affect its work and shall comply with them.

## **SECTION 2. SCOPE**

Subcontractor agrees to furnish all labor, materials, equipment and other facilities (collectively "Services" or "Work") required to complete the work for the Project in accordance with the Contract Documents. Scope of Work – The Work is not necessarily defined in one particular portion of the plans and specifications or Contract Documents. Subcontractor will perform all of the work that falls within the general area of this Subcontract, regardless of the fact that the work to be performed may be distributed throughout the plans and specifications, and Contract Documents, as well as all incidental work reasonably necessary to complete this Subcontract. The work to be performed by the Subcontractor is generally described as follows:

Complete and tested geothermal heat exchange loop system as described and in accordance with the Contract Documents and Bidding Manual.

In the event of any dispute between Contractor and Subcontractor, Subcontractor will not stop work but will prosecute the work diligently to completion, the dispute to be submitted for resolution in accordance with section 17 of this Agreement.

## **SECTION 3. CONTRACT PRICE**

Contractor agrees to pay Subcontractor for the strict performance of its work, the sum of: (\$ ), subject to conditions and deductions for changes in the work as may be directed in writing by Contractor in accordance with Section 6, and to make payment in accordance with Section 4.

## **SECTION 4. PAYMENT SCHEDULE**

- 4.1 Except as otherwise provided in this Subcontract and except that this section shall in no event be construed to violate the public policy of the State of California, it is agreed that progress payments to Subcontractor shall only be made for acceptable work performed by Subcontractor as reflected in Contractor's Application for Payment. Payment is due only after Subcontractor furnishes services, actually performed, according to the terms of this Subcontract, regardless of any defaults attributable to the Owner or Contractor. Payment is payable either upon Owner approval of the Payment Application and subsequent Owner payment, or, in the event of Owner's non-payment, when Subcontractor has complied with paragraph 4.1.2 below.

Approval of Contractor's Application for Payment and payment for the work reflected therein by Owner shall be a condition precedent that must occur before Contractor will be obligated to pay Subcontractor. Subsequent to Owner approval of Contractor's Application for Payment, Contractor shall pay Subcontractor upon receipt of payment from the Owner, Subcontractor's portion of said payment allowed to Contractor less any percentage retained under the contract between the Contractor and the Owner. Upon receipt of payment from the Owner, and Subcontractor compliance with Paragraphs (4.2) and (4.3) below, Contractor will pay Subcontractor the said contract sum on or about the 30th day of the month following the months in which the work was performed, provided however, Contractor may retain as part security for Subcontractor's fulfillment of this Contract, an amount equal to the amount retained by Owner with respect to Subcontractor's work for the purpose of Subcontract progress payment. Final payment shall only be made to Subcontractor from sums received by Contractor as final payment from the Owner, subject to the above provisions and also Paragraphs (4.2), (4.3) and (4.4) below. Within ten (10) business days after the award of the Subcontract, but in any event no later than Subcontractor's first payment

request, Subcontractor shall furnish to Contractor a billing breakdown or schedule of values for Contractor's approval for use in approving invoices and percentages of completed work. Subcontractor's schedule of values shall include a line item for each portion of the Work, and shall be incorporated into Exhibit "G". Notwithstanding anything to the contrary set forth in the Subcontract Agreement, and provided that Subcontractor has complied in full with its subcontract obligations, Contractor shall pay Subcontractor within 10 days of receipt of payment from Owner in accordance with applicable state and federal law.

- 4.1.2 In the event the Owner fails, neglects or refuses to pay the Contractor for any reasons whatsoever (except on account of defaults solely attributable to the Contractor), then payment shall not be payable to Subcontractor until the events hereinafter set forth occur. In the event of non-payment by the Owner to the Contractor, the Contractor shall notify the Subcontractor in writing. Assuming Subcontractor has satisfied all conditions precedent to receiving payment, Subcontractor agrees that Contractor shall make progress payments and final payments otherwise to Subcontractor for Work undisputedly performed properly by the earlier of: (1) seven (7) days after Contractor being paid by the Owner for amounts payable to Subcontractor on account of work done by Subcontractor on the Project, and (2) the Contractor and Owner exhausting all processes prescribed in the Prime Contract for Contractor to seek and receive payment for Subcontractor's Work. The parties expressly acknowledge and agree that the timing of payments to Subcontractor under the conditions of this paragraph is reasonable. Subcontractor agrees that the liability of the surety on Contractor's payment bond, if any, for payment to Subcontractor, is subject to the same conditions precedent as are applicable to Contractor's liability to Subcontractor.
- 4.1.3 Grounds for Withholding Payment. Contractor may withhold, or on account of subsequently discovered evidence, nullify the whole or part of any payment to the extent necessary to protect Contractor from loss, including costs and attorney's fees, on account of (1) defective work not remedied; (2) claims filed or reasonable evidence indicating probable filing of claim; (3) failure of Subcontractor to make payments properly to his subcontractors or for material, labor or fringe benefits; (4) a reasonable doubt that this Agreement can be completed for the balance then unpaid; (5) damage to another subcontractor; (6) penalties assessed against Contractor or Subcontractor for failure of Subcontractor to comply with State, Federal or local laws and regulations; or (7) any other ground for withholding payment allowed by State or Federal law, or as otherwise provided in this Agreement.
- 4.1.4 In the event the Owner fails, neglects or refuses to pay the Contractor for any reasons whatsoever (except on account of defaults solely attributable to the Subcontractor), Contractor agrees to pursue its and Subcontractor's rights to payment from the Owner.
- 4.1.5 In the event the Subcontractor does not submit to the Contractor such monthly estimates by the date provided in the subcontract, then (unless the Contract Documents provide otherwise) the Contractor may at his option include in his monthly estimate to the Owner for Work performed during the preceding months such amount as he may deem proper for the Work for the Subcontractor for the preceding month and the Subcontractor agrees to accept such approved portion thereof in lieu of monthly payment based upon the Subcontractor's estimate. In the event Subcontractor submits such monthly estimate to Contractor within the time described above, the Contractor may at his discretion modify Subcontractor's estimate in accordance with Contractor's own estimate of the value of the Subcontractor's Work performed during the preceding month, and the Subcontractor agrees to accept Contractor's estimate thereof in lieu of monthly payments based on the Subcontractor's estimate.
- 4.1.6 Progress payments to the Subcontractor shall be made only for the Work performed by the Subcontractor as reflected in the Subcontractor monthly estimate. Approval of the Subcontractor's monthly estimate, in whole or in part shall be a condition precedent which must occur before the Contractor will be obligated to pay the Subcontractor. Approval and payment of Subcontractor's monthly estimate is specifically agreed not to constitute or imply acceptance by the Contractor or the OWNER of any portion of the Subcontractor's Work. Subcontractor agrees that upon partial or full payment he will deliver to Contractor applicable releases of mechanics lien rights for that portion paid on the form attached as Exhibit "C".
- 4.2 Subcontractor shall prepare and present to Contractor, for its approval, on or before the 18th day of each calendar month ("Current Month"), projected through the last day of the month, a complete invoice using Contractor's format (Exhibit's "C" & "G" referenced above in Section 1). Contractor is not required to make any payment to Subcontractor unless Subcontractor shall previously have provided such supporting documentation as may be required by Contractor, the OWNER, Architect, or any party authorized under the Prime Contract. Such documentation may include, without limitation, copies of requisitions from Subcontractor's subcontractors and material suppliers, payroll affidavits, receipts and vouchers, and conditional lien releases for the Current Month and unconditional lien releases for all work completed prior to the Current Month executed by all persons and companies who might have mechanic's lien, stop notice or labor and material bond rights against the Project and arising out of work performed under the Subcontract, using Contractor's forms along with evidence of payment as applicable to all unions and union trust funds. Subcontractor shall promptly notify Contractor if Subcontractor's actual costs for the Current Month are not consistent with the projected costs initially set forth in Subcontractor's invoice. If necessary, Subcontractor shall promptly make all required changes to its invoice to ensure that Contractor's payment application submitted to the Owner accurately reflects Subcontractor's actual costs. Contractor may prepare and issue a joint check for the amount(s) indicated.
- 4.3 Contractor may withhold monthly progress payments, in accordance with applicable laws, in order to protect Contractor and/or the Owner from loss because of any event of default under this Subcontract. When the grounds for the default are cured by Subcontractor to Contractor's satisfaction, and the funds are paid to Contractor by the Owner, payment shall be made for the amounts withheld because of them.
- 4.4 Subject to; Paragraphs 4.1.1, 4.1.2, 4.1.3, 4.1.4, 4.1.5, above, the removal of all grounds for withholding, the delivery by Subcontractor to Contractor of (i) Subcontractor's signed Guarantee, (ii) as-built plans, (iii) operation and maintenance manuals required by the Contract Documents, and (iv) satisfactory proof that all claims, including taxes, growing out of the work hereunder (and any liens related thereto) have been released including, specifically, Contractor's receipt of fully executed

lien releases from Subcontractor and all of its Lower-Tier Subcontractors and material suppliers involved in its Work, the balance owing to Subcontractor under the terms of this Subcontract shall be due and payable thirty (30) days after completion and acceptance of the entire Project and ten (10) days after receipt of same from the Owner; provided Contractor shall promptly release retention to the extent that Owner releases retention under the Contract Documents with respect to Subcontractor's work. Final payment may, at the Owner's or Contractor's option, be made in the form of checks made jointly payable to Subcontractor and any Lower-Tier Subcontractor, materialman, laborer or supplier entitled to payment out of the funds of the final payment. Furthermore, provided that Subcontractor has complied in full with subcontract obligations, Contractor will withhold no more retention from Subcontractor than the amount of retention that is being withheld from Contractor by Owner with regard to Subcontractor's work, and shall promptly reduce retention withheld from Subcontractor, by a like percentage, when reduced to Contractor by Owner. See Prime Contract (Document 00 07 00) Article 9.04.

- 4.5 Any and all funds payable to Subcontractor hereunder are hereby declared to constitute trust funds in the hands of Subcontractor, to be applied first to the payment of claims of its subcontractors, architects, engineers, surveyors, laborers and materialmen arising out of the described work, to claims for utilities furnished and taxes imposed, and to the payment of premiums on surety bonds and other bonds filed and premiums on insurance accruing during the construction of the described work, before application to any other purpose.
- 4.6 Monthly Progress Invoices and all appropriate documentation must be submitted to the jobsite office on or before the 18th of each month for processing as per Section 4 of the Subcontract.
- 4.7 In accordance with, and subject to any restrictions set forth in, the Prime Contract provisions, Subcontractor must obtain advance written approval to receive payment for materials or equipment delivered to the jobsite but not yet incorporated into the work. Payments for materials stored on or off the site shall be conditional upon submission by Subcontractor of bills of sale or such other procedures satisfactory to the Owner to establish Owner's title and to protect Owner's interest in the materials or equipment.

## **SECTION 5. TIME**

- 5.1 Time is of the essence of this Agreement. Subcontractor shall provide Contractor with scheduling information and a proposed schedule for performance of his work in a form acceptable to Contractor. Subcontractor shall plan and sequence its Work to conform to Contractor's Concept schedule (Exhibit "I") and all reasonable revisions or changes made thereto by Contractor. Subcontractor shall prosecute his Work in a prompt and diligent manner in accordance with Contractor's progress schedule without delaying or hindering Contractor's work or the work of other contractors or subcontractors. Subcontractor shall coordinate the Work covered by this agreement with that of all other contractors, subcontractors, and of the Contractor, in a manner that will facilitate the efficient completion of the entire Project work. In the event Subcontractor fails to maintain his part of the Contractor's schedule, he shall, without additional compensation and at its own cost, accelerate the work as Contractor may direct until Subcontractor's work is in accordance with such schedule. Contractor shall have complete control of the premises on which the work is to be performed and shall have the right to decide the time and order in which various portions of the work shall be installed and the relative priority of the work of Subcontractor and other subcontractors, and, in general, all other matters, pertaining to the timely and orderly conduct of the work of Subcontractor on the premises. Should Subcontractor be delayed in the prosecution or completion of the work by the act, neglect or default of the Owner, Architect or Contractor, then the time herein fixed for the completion of the work shall be extended the number of days the Subcontractor has thus been delayed, but no allowance or extension shall be made unless a detailed written notice of delay is presented in writing to Contractor within three (3) working days of the commencement of such delay, and under no circumstances shall the time provided for Subcontractor's completion of its Work be extended to a date which will prevent Contractor from completing the entire Project within the time allowed Contractor for such completion.
- 5.2 To the fullest extent permitted under applicable law, no claims for additional compensation or damages for delays, whether caused in whole or in part by any conduct on the part of Contractor, including, but not limited to, conduct amounting to a breach of this Agreement, or delays by other subcontractors or the Owner, shall be recoverable from Contractor, and the above-mentioned extension of time for completion shall be the sole remedy of Subcontractor; provided, however, that in the event Contractor obtains additional compensation from Owner on account of such delays, Subcontractor shall be entitled to such portion of the additional compensation so received by Contractor from the Owner as is equitable under all of the circumstances. In the event that Contractor prosecutes a claim against the Owner for additional compensation for any delay, Subcontractor shall cooperate fully with Contractor in the prosecution thereof and shall pay costs and expenses incurred in connection therewith, including actual attorney's fees, to the extent that said claim is made by Contractor at the request of Subcontractor. In the event of delays caused by Contractor or other Subcontractors, Subcontractor may require compensation if such delays impact labor rates, over time, equipment, or material cost.
- 5.3 Subcontractor shall prepare and obtain approval as required by the Contract Documents for all shop drawings, details, samples, and do all other things necessary and incidental to the prosecution of his work in conformance with Contractor's progress schedule. Subcontractor will prepare daily, and submit to Contractor, the Subcontractor Daily Activity Report.
- 5.4 If the time periods in the Prime Contract are shorter for the giving of notices of delay (Section 5), notices of claims (Section 6), demands for relief in the case of disputes (Section 17), or notices to correct a default (Section 14), then the shorter period shall govern.
  - 5.4.1 To the extent that Contractor is required to review and/or approve the Subcontractor's notices and/or other contract submissions prior to giving the submission to the Owner, Subcontractor must ensure that it provides the required submission to Contractor a reasonable period of time prior to the deadline for submission to the Owner set forth in the Prime Contract. This requirement is intended to ensure that the Contractor has a reasonable amount of time to fulfill its contractual obligation to review and/or approve the Subcontractor's submission prior to submission to the Owner. A list of some of the key timing



requirements set forth in the Prime Contract and the corresponding timing requirements applicable to the Subcontractor are set forth below:

A. Change Order Requests and Proposed Change Orders (Prime Contract Section 6.03): Section 6.03.A requires Contractor to submit a written Change Order Request (COR) within 21 days of receipt of the Clarification or other written directive. The Subcontractor shall submit a COR to Contractor within 14 days. Section 6.03.D requires Contractor to submit a PCO cost proposal and PCO time adjustment proposal, if applicable, within 10 days of receipt of a PCO. The Subcontractor shall submit a PCO cost proposal and PCO time adjustment proposal, if applicable, to Contractor within 6 days.

B. Claims (Prime Contract Section 13.02): Section 13.02.A requires Contractor to submit notices of potential claims within 10 days of the event giving rise to the claim. The Subcontractor shall submit such notice to Contractor within 6 days. Section 13.02.B requires Contractor to submit a certified claim within 45 days of submission of the notice of potential claim. The Subcontractor shall submit its certified claim to Contractor within 25 days.

## **SECTION 6. CHANGES IN THE WORK**

- 6.1 Subcontractor shall make any and all changes to the work described in the Contract Documents and this Agreement as directed by Contractor in writing. Such change or written direction shall not invalidate this Agreement.
- 6.2 If necessary, and in accordance with the other provisions of this Subcontract, the Contract Price stated in Section 3 and the time for Subcontractor's performance shall be adjusted by appropriate additions or deductions mutually agreed upon before Subcontractor performs the changed work. Subcontractor shall supply Contractor with all documentation necessary to substantiate the amount to or deduction from the price or time. If Contractor and Subcontractor cannot agree on the amount of the addition or deletion, Subcontractor shall nonetheless timely perform the work as changed by Contractor's written direction. Once Subcontractor receives Contractor's written direction, Subcontractor is solely responsible for timely performance of the work as changed by the written direction.
- 6.3 Payment for changed work shall be made in accordance with Section 4.
- 6.4 Subcontractor shall not make any changes in the work described in Section 2 or in any way cause or allow that work to deviate from the Contract Documents without written direction from Contractor. If Subcontractor makes any changes in the work described in Section 2 without written direction from Contractor, such change constitutes an agreement by Subcontractor that he will not be paid for that changed work, even if he received verbal direction, written or otherwise, from the OWNER or any other person or entity. In addition, Subcontractor shall be liable for any and all losses, costs, expenses, damages, and liability of any nature whatsoever associated with or in any way arising out of any such change he makes without written direction from Contractor.
- 6.4.1 Unless agreed to otherwise, any changes in the work which arise from a Subcontractor's Additional Work Authorization (AWA), will require the signatures of both the Contractor's Project Manager and the Superintendent. Each AWA will require these two signatures by the Contractor, in addition to that of the Subcontractor. An AWA is intended to cover work performed on a time and material basis or equivalent. An AWA is only to be used under circumstances where Subcontractor and Contractor agree that a conventional proposal, estimate and change order would not be appropriate. See Prime Contract General Conditions (Document 000700), Article 6.07 for additional Owner requirements.
- 6.5 If Subcontractor discovers a condition or situation that it believes constitutes a change to its Work, or otherwise requires a change to the Contract Documents, Subcontractor shall provide written notice of the change within five (5) calendar days from discovering such changed condition. If a dispute arises between Contractor and Subcontractor about whether particular work constitutes a change to the Work, Subcontractor shall timely perform the disputed work and give written notice of any claim for additional compensation for that work within five (5) days after such work was performed. Subcontractor's failure to perform the work or failure to give timely notice of the change and claim constitutes an agreement by him that he will not be paid for the disputed work.
- 6.6 No change, alteration, or modification to or deviation from this Agreement, the Contract Documents, prime contract, plans, or specifications, whether made in the manner provided in this provision or not, shall release or exonerate, in whole or in part, any bond or any surety on any bond given in connection with this Agreement, and no notice is required to be given to such surety of any such change, alteration, modification, or deviation.

## **SECTION 7. DAMAGES CAUSED BY DELAYS**

If Subcontractor should default in performance of the Work or breach any provision of this Agreement, or should otherwise commit any act which causes delay to the Contractor's work, Subcontractor shall be liable for all losses, costs, expenses, liabilities and damages, including liquidated damages, sustained by Contractor, or for which Contractor may be liable to the Owner or any other party because of Subcontractor's default or breach.

Subcontractor's liability for liquidated damages arising out of Subcontractor's default in performance of the work or breach of any provision of this Agreement shall be limited to amounts, if any, assessed against Contractor by the Owner and shall be further limited to the extent of Subcontractor's comparative fault for such losses.

## **SECTION 8. BONDING OF SUBCONTRACTOR**

Concurrently with the execution of this Agreement, Subcontractor shall, if required by Contractor, supply a labor and material bond and a performance bond, in an amount equal to one hundred percent (100%) of the Contract Price. Such bonds shall be in forms satisfactory to Contractor and shall be executed by a U.S. Treasury listed corporate surety acceptable to Contractor and admitted as a surety insurer in the State of California. The premium cost for such bonds is included in the Contract Price.

No change, alteration or modification to, or deviation from, the Contract Documents, including this Subcontract, the Prime Contract, plans, or specifications, whether made in the manner provided for in this Subcontract or not, shall release or exonerate, in whole or in part, any bond or any surety on any bond given in connection with this Subcontract, and no notice is required to be given to such surety of any such change, alteration, modification, or deviation.

See the Prime Contract General Conditions (Document 000700), Article 10.02.C for additional requirements.

#### **SECTION 9. LIENS**

- 9.1 In case suit is brought on any claim, stop notice or lien for labor performed or materials used on or furnished to the Project ("Claim"), Subcontractor shall pay and satisfy any such Claim as may be established by the decision of the court in said suit. Subcontractor agrees within ten (10) days after written demand to cause the effect of any such Claim or lien to be removed from the premises, and in the event Subcontractor shall fail to do so, Contractor is authorized to use whatever means in its discretion it may seem appropriate to cause said lien or Claim to be removed or dismissed and the cost thereof, together with actual attorney's fees, shall be immediately due and payable to Contractor by Subcontractor. Subcontractor may litigate any such Claim or suit provided he causes the effect thereof to be removed, promptly in advance, from the premises, and shall further do such things as may be necessary to cause Owner not to withhold any monies due to Contractor from Owner by reason of such liens or Claims.
- 9.2 It is understood and agreed that the full and faithful performance of this Agreement on the part of Subcontractor (including the payment of any obligations due from Subcontractor to Contractor, and any amounts due to labor and materialmen furnishing labor or material for said work) is a condition precedent to Subcontractor's right to receive payment for the work performed, and any monies paid by Contractor to Subcontractor under the terms of this Agreement shall be impressed with a trust in favor of labor and materialmen furnishing labor and material to Subcontractor on the work herein subcontracted.

#### **SECTION 10. PROVISIONS FOR INSPECTION**

Subcontractor shall at all times furnish to Contractor and his representatives safe and ample facilities for inspecting materials at the site of construction, shops, factories or any place of business of Subcontractor and his subcontractors and materialmen where materials under this Agreement may be in course of preparation, process, manufacture or treatment. Subcontractor shall furnish to Contractor as often as required by Contractor, full reports of the progress of the work at any place where materials under this Agreement may be in the course of preparation or manufacture. Such reports shall show the progress of such preparation and manufacture in such details as may be required by Contractor, including, but not limited to, any plans, drawings or diagrams in the course of preparation.

#### **SECTION 11. MATERIALS AND WORK FURNISHED BY OTHERS**

In the event the Work includes installation of materials or equipment furnished by others or work to be performed in areas to be constructed or prepared by others, it shall be the responsibility of Subcontractor to examine and accept, at the time of delivery or first access, the items so provided and thereupon handle, store and install the items with such skill and care as to insure a satisfactory completion of the Work. Use of such items or commencement of work by Subcontractor in such areas shall be deemed to constitute acceptance thereof by Subcontractor. Loss or damage due to acts of Subcontractor shall be charged to the account of Subcontractor and deducted from monies otherwise due under this Agreement.

#### **SECTION 12. PROTECTION OF WORK**

- 12.1 Subcontractor shall effectually secure and protect the work done hereunder and assume full responsibility for the condition thereof until final acceptance by the OWNER and Contractor. Subcontractor further agrees to provide such protection as is necessary to protect the work and the workmen of Contractor, the OWNER, and other subcontractors from its operations.
- 12.2 Subcontractor shall be liable for any loss or damage to any work in place or to any equipment and materials on the job site caused by Subcontractor or its agents, employees or guests.

#### **SECTION 13. LABOR RELATIONS AND LABOR AGREEMENTS**

- 13.1 Contractor is signatory to the following unions: Carpenters, Cement Finishers, Laborers, and Operating Engineers. In accordance with this Section, Subcontractor shall comply with the terms and conditions of these agreements.
- 13.2 Subcontractor shall keep a representative at the job site during all times when Subcontractor's work is in progress, and such representative shall be authorized to represent Subcontractor as to all phases of the work. Prior to commencement of the work, Subcontractor shall notify Contractor who Subcontractor's representative is to be, and in the event of any change of representative Subcontractor shall notify Contractor who the new representative is to be prior to such change becoming effective.
- 13.3 Subcontractor acknowledges that Contractor has entered into labor agreements covering work at its construction jobsites with the labor unions listed in Section 13.1 above. Subcontractor hereby expressly agrees that all of the provisions of the applicable labor agreements are incorporated into this Agreement as if they were set forth in their entirety.
- 13.4 Subcontractor agrees to comply with all of the terms and conditions of those labor agreements set forth in Section 13.1 above as if it were a party to said agreements including signatory status if required. Subcontractor further agrees to pay the wage rates, make the required trust fund payments into the respective labor trust funds, and observe the hours and all other terms and conditions set forth in the respective labor agreements referenced in Section 13.1 above. Subcontractor agrees to comply

with the terms and provisions of said agreements setting forth the grievance and arbitration provisions. Furthermore, Subcontractor agrees to comply with the terms and provisions of said agreements setting forth the jurisdiction and scope of work therein for resolution of jurisdictional disputes. In the absence of any such procedure or if such procedure or if such procedure fails to promptly resolve the jurisdictional dispute, Subcontractor agrees, at its own cost and expense and upon request by Contractor, to take any and all lawful steps to secure a binding and final determination of said jurisdictional dispute by the National Labor Relations Board.

- 13.5 Subcontractor acknowledges that terms and conditions of the labor agreements with the unions listed in Section 13.1 above may require that Subcontractor comply with additional labor agreements with unions affiliated with the AFL-CIO but not listed. When the terms and conditions of the below-referenced labor agreements so require, Subcontractor shall perform his job site work pursuant to all terms and conditions of an appropriate labor agreement with a union affiliated with the AFL-CIO.
- 13.6 Subcontractor acknowledges that Contractor is a member of the Construction Employers' Association, and Subcontractor agrees to work in unison with Contractor and other subcontractors and to be bound by the procedures to follow when establishing a dual gate system. Should there be picketing on Contractor's job site, and Contractor establishes a reserved gate for Subcontractor's purpose, it shall be the obligation of Subcontractor to continue the proper performance of his work without interruption or delay.
- 13.7 Subcontractor further promises and agrees that he will bind and require all of his subcontractors and their subcontractors performing job site work of the type covered by any of the labor agreements specified in Section 13.1 above to agree to all of the foregoing promises and undertakings, to the same effect as herein provided with respect to him.
- 13.8 Subcontractor shall comply with all equal employment opportunity and affirmative action requirements promulgated by any governmental authority, including, without limitations, the requirements of the Civil Rights Act of 1964, Presidential Executive Orders No. 10925, 11114 and 11246, the California Fair Employment Practices Act, the American with Disabilities Act of 1991 and the Family Medical Leave Act of 1993. Subcontractor shall comply with and agrees to be bound by all applicable Federal, State and local laws and regulations, including, but not limited to, all Fair Labor Standards Act provisions and California Code provisions covering the work. Upon request, Subcontractor agrees to submit certified payroll reports to contractor no later than three (3) working days after labor has been paid.
- 13.9 To the extent a Subcontractor is bound to any Collective Bargaining Agreement at the time of submitting its bid proposal, Subcontractor agrees to comply with the terms and conditions of said Collective Bargaining Agreement until completion of the project.

#### **SECTION 14. RECOURSE BY CONTRACTOR**

##### **14.1 Termination for Default**

14.1.1 **Notice to Cure.** If Subcontractor at any time refuses or neglects to supply enough properly skilled workers and proper materials, or fails to properly and diligently prosecute the work covered by this Agreement, or fails to make prompt payment to his workers, sub-subcontractors or suppliers, or becomes delinquent with respect to contributions or payments required to be made to any health and welfare, pension, vacation, apprenticeship or other employee benefit program or trust, or is otherwise guilty of a material breach of a provision of this Agreement, and fails within forty-eight (48) hours after receipt of written notice (letter, facsimile, or email) to commence and continue satisfactory correction and curing of such default with diligence and promptness, then Contractor, without prejudice to any legal or equitable rights or remedies, shall have the right to any or all of the following remedies:

- (a) supply such number of workers and quantity of materials, equipment and other facilities as Contractor deems necessary for the completion of Subcontractor's Work, or any part thereof which Subcontractor has failed to complete or perform, and charge the cost thereof to Subcontractor, who shall be liable for the payment of same including fifteen percent (15%) for overhead and profit, and actual attorney's fees incurred as a result of Subcontractor's failure of performance;
- (b) contract with one or more additional contractors to perform such part of Subcontractor's Work as Contractor shall determine will provide the most expeditious completion of the total work and charge the cost including overhead and profit thereof to Subcontractor; and
- (c) withhold payment of any monies due Subcontractor pending corrective action to the extent required by and to the satisfaction of Contractor.
- (d) Terminate for default Subcontractor's rights under this Agreement and use any materials, implements, equipment, appliances or tools furnished by or belonging to Subcontractor to complete Subcontractor's Work without any further compensation to Subcontractor for such use. Contractor also may furnish those materials and equipment, and/or employ such workers or subcontractors as Contractor deems necessary to maintain the orderly progress of the Work. In such case, Subcontractor shall be entitled to no further payment until the balance of Subcontractor's Work has been completed. At that time, all of the costs incurred by Contractor in performing Subcontractor's Work, including a markup of fifteen percent (15%) for overhead and profit on such expenses, plus actual attorney's fees as provided above, shall be deducted from any monies due or to become due Subcontractor. Subcontractor shall be liable for the payment of any amount by which such expenses may exceed the unpaid balance of the Contract Price.

In the event of an emergency affecting the safety of persons or property, Contractor may proceed as above without first providing a Notice to Cure.

14.1.2 In the event Contractor terminates Subcontractor for default, and it is subsequently determined in a civil action or arbitration that the termination for default was improper, Contractor's liability to Subcontractor shall be no greater than it would be if Contractor would have terminated Subcontractor for convenience pursuant to Paragraph 14.3. Moreover, the damages, if any, Subcontractor shall be entitled to shall be limited to the compensation, if any, Subcontractor would be entitled to in the event of a termination for convenience pursuant to Paragraph 14.3 below.

#### 14.2 Bankruptcy

14.2.1 Termination Absent Cure. Upon the appointment of a receiver for Subcontractor or upon Subcontractor making an assignment for the benefit of creditors or if Subcontractor seeks protection under the Bankruptcy Code or commits any other act of insolvency, Contractor may terminate this Agreement without notice upon giving written notice to Subcontractor and its surety, if any. If an order for relief is entered under the Bankruptcy Code with respect to Subcontractor, Contractor may terminate this Agreement upon written notice to Subcontractor, its trustee, and its surety, if any, unless Subcontractor, the surety, or the trustee:

- (a) promptly cures all defaults;
- (b) provides immediate and adequate assurance of future performance;
- (c) compensates Contractor for actual pecuniary loss resulting from such defaults;
- (d) assumes the obligations of Subcontractor under this Agreement within the statutory time limits.

14.2.2 Interim Remedies. If Subcontractor is not performing in accordance with the Contractor's progress schedule at the time of entering an order for relief, or at any subsequent time, Contractor, while awaiting the decision of Subcontractor or its trustee to reject or to accept this Agreement and provide adequate assurance of its ability to perform hereunder, may avail itself of such remedies under this Section as are reasonably necessary to maintain the schedule of work including:

- (a) Contractor may offset against any sums due or to become due Subcontractor all costs incurred in pursuing any of the remedies provided hereunder, including, but not limited to, reasonable overhead, profit and actual attorney's fees incurred as a result of Subcontractor's non-performance.
- (b) Subcontractor shall be liable for the payment of any amount by which such expense may exceed the unpaid balance of the Contract Price.

14.3.1 Termination for Convenience. Contractor may at any time and for any reason terminate Subcontractor's services and work for Contractor's convenience. Cancellation shall be by service of written notice to Subcontractor's place of business. Upon receipt of such notice, Subcontractor shall, unless the notice directs otherwise, immediately discontinue the work and placing orders for materials, facilities and supplies in connection with the performance of this Agreement, and shall, if requested, make every reasonable effort to procure cancellation of all existing orders or contracts upon terms satisfactory to Contractor, or at the option of Contractor, give Contractor the right to assume those obligations directly, including all benefits to be derived therefrom. Subcontractor shall thereafter do only such work as may be necessary to preserve and protect the work already in progress and to protect material and equipment on the job site or in transit thereto. Upon such termination, Subcontractor shall be entitled to payment in accordance with Section 4 only as follows: (1) the actual cost of the work completed in conformity with this Agreement; plus, (2) such other costs actually incurred by Subcontractor as are permitted by the prime contract and approved by Owner; plus (3) fifteen percent (15%) of the cost of the work referred to in subparagraph (1) above for overhead and profit (subject to any limitations set forth in the Prime Contract) or the profit earned if the contract had been fully performed, whichever one is less. There shall be deducted from such sums as provided in this subparagraph the amount of any payments made to Subcontractor prior to the date of the termination of this Agreement. Subcontractor shall not be entitled to any claim or claim of lien against Contractor or the OWNER for any additional compensation or damages in the event of such termination for convenience and payment. Notwithstanding the foregoing, Contractor may terminate Subcontractor's services and work for Contractor's convenience only if the Owner terminates either the Prime Contract or this Subcontract Agreement for convenience.

14.3.2. If the Prime Contract between Contractor and the OWNER is terminated for the convenience of the OWNER, the termination settlement under this Subcontract shall be as provided in the Prime Contract. Subcontractor shall not be entitled to receive any greater amount than Contractor may on behalf of Subcontractor recover from the OWNER for such termination.

### **SECTION 15. INDEMNIFICATION**

15.1.1 Subcontractor's Performance. With the exception that this Section 15 shall in no event be construed to require indemnification by Subcontractor to a greater extent than permitted under the public policy of the State. Subcontractor shall indemnify, defend and save harmless the OWNER and Contractor, including their officers, agents, employees, affiliates, parents and subsidiaries, and each of them, of and from any and all claims, demands, causes of action, damages, costs, expenses, actual attorney's fees, losses or liability, in law or in equity, of every kind and nature whatsoever ("Claims") arising out of or in connection with Subcontractor's operations to be performed under this Agreement for, but not limited to:

- (a) Personal injury, including, but not limited to, bodily injury, sickness or disease, or death to persons, including, but not limited to, any employees or agents of Subcontractor, the Owner, Contractor, or any other subcontractor and/or damage to property of anyone (including loss of use thereof), caused, or alleged to be caused, in whole or in part, by any act or omission of Subcontractor or anyone directly or indirectly employed by Subcontractor or anyone for whose acts Subcontractor may be liable regardless of whether such personal injury or damage is caused by a party indemnified hereunder.

- (b) Penalties imposed on account of the violation of any law, order, citation, rule, regulation, standard, ordinance or statute, caused by the action or inaction of Subcontractor.
- (c) Infringement of any patent rights which may be brought against the Contractor or Owner arising out of Subcontractor's work, unless such process or work which is alleged to infringe is specifically required by the Contract Documents.
- (d) Claims and liens (see Section 9) for labor performed or materials used or furnished to be used on the job, including all incidental damages resulting to Contractor or Owner from such claims or liens.
- (e) Subcontractor's failure to fulfill the covenants set forth in each subpart of Section 13, Labor Relations
- (f) Failure of Subcontractor to comply with the provisions of Section 16.1, Casualty Insurance.
- (g) Any violation or infraction by Subcontractor of any law, order, citation, rule, regulation, standard, ordinance or statute in any way relating to the occupational health or safety of employees, including, but not limited to, the use of Contractor's or other's equipment, hoist, elevators, or scaffolds (See Sections 16 and 20).

The indemnification of (a) through (g) above shall extend to Claims occurring after this Agreement is terminated as well as while it is in force. Such indemnity provisions apply regardless of any active and/or passive negligent act or omission of the OWNER or Contractor or their agents or employees. Subcontractor, however, shall not be obligated under this Agreement to indemnify OWNER or Contractor for Claims arising from the sole negligence or willful misconduct of Owner or Contractor or their agents, employees or independent contractors who are directly responsible to OWNER or Contractor, or for defects in design furnished by such persons.

15.1.2 Subcontractor shall:

- (a) At Subcontractor's own cost, expense and risk, and through counsel of Contractor's selection, Subcontractor shall defend all Claims that may be brought or instituted by third persons, including, but not limited to, governmental agencies or employees of Subcontractor, against Contractor or the OWNER or their agents or employees or any of them. Subcontractor's duty to defend the OWNER and Contractor is independent and distinct from Subcontractor's duties to indemnify and hold harmless specified herein;
- (b) Pay and satisfy any judgment or decree that may be rendered against Contractor or OWNER or their agents or employees, or any of them, arising out of any such Claim; and/or
- (c) Reimburse Contractor or the OWNER or their agents or employees for any and all legal expense incurred by any of them in connection herewith or in enforcing the indemnity granted in this Section 15.

15.2 Risk of Loss

All work covered by this Agreement done at the site or in preparing or delivering materials or equipment, or any or all of them, to the site shall be at the risk of Subcontractor exclusively until the completed work is accepted by Contractor.

15.3 No Limitation of Liability

The indemnities set forth in this Section 15 shall not be limited by the insurance requirements set forth in Section 16.

15.4 Hazardous Material

- 15.4.1 Subcontractor and its Lower-Tier Subcontractors shall use, handle, transport and dispose of all Hazardous Materials (as defined below) in compliance with all federal, state and local environmental, health or safety laws, including, but not limited to, all such statutes, regulations, rules, ordinances, codes, and rules of common law. Subcontractor further agrees that Subcontractor and Lower-Tier Subcontractors shall not cause the discharge, release or disposal of any Hazardous Material on the job site. Subcontractor and its Lower-Tier Subcontractors shall, upon completion of performance of all duties under this Subcontract, remove all supplies, materials and waste containing any Hazardous Material from the job site. Subcontractor shall bear full financial responsibility, as between the parties of this Subcontract, for the compliance of Subcontractor and its Lower-Tier Subcontractors with the provisions of this paragraph. Should Subcontractor or its Lower-Tier Subcontractors discharge, release or dispose of any Hazardous Material on the site in violation of this paragraph, Subcontractor shall immediately so inform Contractor in writing. In the event Subcontractor or its Lower-Tier Subcontractors encounter on the site any pipeline, underground storage tank or other container, of any kind, that may contain a Hazardous Material, or encounter material reasonably believed to be a Hazardous Material, Subcontractor shall immediately stop work in the area affected and report the condition to Contractor in writing. Should Subcontractor or its Lower-Tier Subcontractors fail to take immediate steps to comply with the requirements of this paragraph upon notice from Contractor, Subcontractor shall be in default of this Subcontract.

- 15.4.2 "Hazardous Material" means any substance: (1) the presence of which requires investigation or remediation under federal, state or local statute, regulation, ordinance, rule, code, order, action, policy or common law, or (2) defined as a "hazardous waste," "hazardous substance," pollutant or contaminant under any federal, state or local statute, regulation, ordinance or amendments thereto including, without limitation, the Comprehensive Environmental Response Compensation and Liability Act (42 U.S.C. Sections 9601 et seq.) and/or the Resource Conservation and Recovery Act (42 U.S.C. Section 6901 et seq.); or (3) which is toxic, explosive, corrosive, flammable, infectious, radioactive, carcinogenic, mutagenic, or otherwise hazardous and regulated by any governmental authority, agency, department, commission, board, agency or instrumentality of the United

States, the State or any political subdivision thereof; or (4) the presence of which on the Property causes or threatens to cause a nuisance upon the Property or to adjacent properties or poses or threatens to pose a hazard to the health or safety of persons on or about the Property; or (5) which contains gasoline, diesel fuel or other petroleum hydrocarbons; or (6) which contains polychlorinated biphenyls (PCBs), asbestos or urea formaldehyde form insulation.

## **SECTION 16. INSURANCE**

16.1 Casualty Insurance Subcontractor shall, at its expense, procure and maintain insurance on all of its operations, in insurance companies with a Best's Insurance Rating of A- or better and Class VIII or better or otherwise acceptable to Contractor, as follows:

16.1.1 Workers' Compensation and Employer's Liability Insurance. Workers' Compensation Insurance shall be provided as required by any applicable law or regulation. Employer's Liability insurance shall be provided in amounts not less than:

\$1,000,000 each accident for bodily injury by accident  
\$1,000,000 policy limit for bodily injury by disease  
\$1,000,000 each employee for bodily injury by disease

If there is an exposure of injury to Subcontractor's employees under the U.S. Longshoremen's and Harbor Workers' Compensation Act, the Jones Act or under laws, regulations or statutes applicable to maritime employees, coverage shall be included for such injuries or claims.

16.1.2 General Liability Insurance. Subcontractor shall carry Comprehensive General Liability or Commercial General Liability insurance provided on the ISO CGL Form No. CG 00 01 10 01 or equivalent, covering all operations by or on behalf of Subcontractor providing insurance for bodily injury liability and property damage liability of the limits of liability indicated below and including coverage for:

- (a) premises and operations;
- (b) products and completed operations maintained continuously for a period of ten (10) years following completion of construction or the applicable statutory period for which Subcontractor is liable for its work, whichever is greater;
- (c) contractual liability insuring the obligations assumed by Subcontractor in this Agreement;
- (d) broad form property damage (including completed operations);
- (e) explosion, collapse and underground hazards; and
- (f) personal injury liability (with deletion of the exclusion for liability assumed under contract).

16.1.2.1 If Subcontractor carries a Comprehensive General Liability policy, the limits of liability shall not be less than a Combined Single Limit for bodily injury, property damage and personal injury liability of:

\$1,000,000 each occurrence  
\$1,000,000 in aggregate

16.1.2.2 If Subcontractor carries an Occurrence form Commercial General Liability policy, the limits of liability shall be not less than:

\$1,000,000 each occurrence (combined single limit for bodily injury and property damage)  
\$1,000,000 for personal injury only  
\$1,000,000 aggregate for products-completed operations  
\$2,000,000 general aggregate

The "general aggregate" limit shall apply separately to Subcontractor's work under this contract.

16.1.2.3 Special Claims Made Policy Form Provisions. Subcontractor shall not provide general liability insurance under any Claims Made Commercial General Liability form or Modified Occurrence Policy form without the express prior written consent of Contractor.

16.1.2.4 Additional Insured. With respect to whichever General Liability policy form is furnished as required above, Contractor, its officers, directors and employees and the OWNER shall be named as additional insureds. The policy shall be endorsed to stipulate that the insurance afforded the additional insureds shall apply as primary insurance and that any other insurance maintained by Contractor or Owner shall be excess only and shall not be called upon to contribute with this insurance.

Coverage for the Contractor, its officers, directors and employees and the OWNER as additional insureds shall be provided by a policy provision or by an endorsement providing coverage utilizing ISO form CG 10 11 85 or ISO form CG 20 10 07 04 in conjunction with ISO form CG 20 37 07 04.. Additional entities that must be named as an additional insured are listed in the sample insurance form attached hereto (See Exhibit "D"). Blanket additional insured endorsements which attempt to limit the scope or time period of coverage will not be accepted. With respect to all other liability insurance policies (with the exception of Professional Liability), similar endorsements naming Contractor, its officers, directors and employees and the Owner shall be included with the required certificate of insurance.

16.1.2.5 Self-Insured Retention. If the commercial general liability policy contains a Self-Insured Retention (SIR), the amount of the SIR must be clearly identified on the certificate of insurance, but in no event shall it exceed \$25,000. Contractor reserves the right to reject any policy utilizing an SIR or require the Subcontractor to provide a bond securing an amount equal to the SIR at no additional cost to Contractor.

Subcontractor shall satisfy any SIR immediately upon Contractor's demand to affect coverage for claims arising out of or in connection with Subcontractor's operations under this Agreement. Subcontractor's failure to immediately satisfy the SIR upon Contractor's demand shall constitute a material breach of this Subcontract Agreement.

The policy provision or additional insured endorsement providing additional insured coverage to Contractor shall expressly provide that Contractor, as an Additional Insured, shall have the right to pay any SIR under the policy. Accordingly, language similar to that provided below is expressly prohibited:

*"Payments by others, including but not limited to additional insureds or insurers, do not serve to satisfy the self-insured retention. Satisfaction of the self-insured retention as a condition precedent to our liability applies regardless of insolvency or bankruptcy by [named insured]."*

Subcontractor shall be fully responsible for any and all amounts paid by Contractor to satisfy the SIR, and Contractor shall have the right to immediately deduct such amounts from any amounts otherwise due and owing to Subcontractor.

- 16.1.3 Automobile Liability Insurance. Subcontractor shall carry automobile liability insurance, including coverage for all owned, hired and non-owned automobiles. The limits of liability shall be not less than \$1,000,000 combined single limit each accident for bodily injury and property damage. Coverage shall apply to all owned, hired and non-owned automobiles.

- 16.1.4 Certificates of Insurance (as per Exhibit "D" referenced above in Section 1), as evidence of the insurance required by this Agreement, shall be furnished by Subcontractor to Contractor before any work hereunder is commenced by Subcontractor. The certificates of insurance shall provide that there will be no cancellation or reduction of coverage without thirty (30) days prior written notice to Contractor or ten (10) days in the event of non-payment of premium. The words "endeavor to" and "but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives" shall be crossed out on the certificate.

The Certificate of Insurance furnished as evidence of Comprehensive General Liability or Commercial General Liability insurance carried by the Subcontractor shall include a copy of the policy provision or the additional insured endorsement adding the Contractor and the OWNER as Additional Insured and shall provide that insurance for such additional insureds applies as primary insurance and that other insurance maintained by the Contractor or Owner shall not be called upon for contribution.

- 16.1.5 Contractor may take such steps as are necessary to assure Subcontractor's compliance with his obligations under this Section 16. In the event Subcontractor fails to maintain any insurance coverage required under this Agreement, Contractor may maintain such coverage and charge the expense to Subcontractor, or terminate this Agreement.
- 16.1.6 The required insurance shall be subject to the approval of Contractor, but any acceptance of insurance certificates by Contractor shall in no way limit or relieve Subcontractor of the duties and responsibilities by him in this Agreement. If higher limits or other forms of insurance are required in the Contract Documents, Subcontractor will comply with such requirements.

## 16.2 Property Insurance

- 16.2.1 Contractor and Subcontractor waive all rights against each other and against all other subcontractors and the Owner for loss or damage to the extent reimbursed by Builder's Risk or any other property or equipment insurance applicable to the work, except such rights as they may have to the proceeds of such insurance. If the policies of insurance referred to in this Section require an endorsement or consent of the insurance company to provide for continued coverage where there is a waiver or subrogation, the Owners of such policies will cause them to be so endorsed or obtain such consent.
- 16.2.2 Upon written request of Subcontractor, Contractor shall provide Subcontractor with a copy of the Builder's Risk policy of insurance or any other property or equipment insurance in force for the project and procured by Contractor. Subcontractor shall satisfy himself as to the existence and extent of such insurance prior to commencement of Subcontractor's work.
- 16.2.3 If Builder's Risk insurance purchased by the Owner or Contractor provides coverage for Subcontractor for loss or damage to Subcontractor's work, Subcontractor shall be responsible for the insurance policy deductible amount applicable to damage to Subcontractor's work and/or damage to other work caused by Subcontractor.
- 16.2.4 If not covered under the Builder's Risk policy of insurance or any other property or equipment insurance required by the Contract Documents, Subcontractor shall procure and maintain at his own expense property and equipment insurance for portions of Subcontractor's work stored off the site or in transit. Subcontractor is solely responsible for loss or damage to its personal property including, without limitation; tools, equipment, scaffolding, temporary structures or property or materials created or provided under the Subcontract until delivered and accepted or installed at the Project site. Any insurance provided by Subcontractor shall include a waiver of subrogation from insurers in favor of Contractor and Owner.
- 16.2.5 If the Owner or Contractor has not purchased Builder's Risk or equivalent insurance including the full insurable value of Subcontractor's work, then Subcontractor may procure such insurance at his own expense as will protect the interests of Subcontractor, and his subcontractors in the work. Such insurance shall also apply to any of the Owner's or Contractor's property in the care, custody or control of Subcontractor.
- 16.3 Failure of Contractor to enforce in a timely manner any of the provisions of this Section 16 shall not act as a waiver to enforcement of any of these provisions at a later date in the performance of this Agreement. Any exceptions to the provisions of this Section 16 must be delineated in the Contract Documents.

- 16.4 Professional Liability Insurance. All Subcontractors providing design-build or design-assist services in conjunction with their work shall provide the following coverage and limits of insurance: Professional Liability Insurance (Errors and Omissions) with a limit no less than \$1 Million per claim and \$2 Million policy aggregate containing a deductible no greater than \$50,000 per claim. Contractor reserves the right to reject any policy utilizing an SIR or require the Subcontractor to provide a bond securing an amount equal to the SIR at no additional cost to Contractor. Coverage shall be maintained continuously by Subcontractor for the duration of the project and ten (10) years following completion of construction or the applicable statutory period for which Subcontractor is liable for its work, whichever is greater. The retroactive date of such policy must be on or before the first date Subcontractor began providing professional services in conjunction with the work.
- 16.5 Contractors Pollution Liability (CPL) Insurance. If Subcontractor's scope of work includes the removal, treatment, handling or hauling of hazardous materials, Subcontractor will provide pollution liability coverage to respond to claims arising out of all hazardous material and hazardous waste remediation, storage, transportation, and disposal. Such insurance shall be written on an occurrence basis and Contractor shall be included as an insured party under the policy. Coverage shall extend to bodily injury, property damage, completed operations and clean-up costs with limits of not less than \$2,000,000 each occurrence and \$2,000,000 Million policy aggregate.
- 16.6 Waivers of Subrogation. All required insurance coverages shall contain provisions stipulating that the insurers waive all of their rights of recovery by subrogation against Contractor and Owner which shall be evidenced by endorsement in conjunction with the required certificates of insurance. Subcontractors shall require similar waivers of subrogation from each of its Subcontractors of every tier.
- 16.7 Insurance Requirements of Lower-Tier Subcontractors. Subcontractor shall ensure that its Lower-Tier Subcontractors of any tier procure and maintain insurance in like form and amounts and include the required additional insured endorsements and waivers of subrogation. Certificates of insurance and endorsements must be provided prior to Lower-Tier Subcontractors entering the project site.
- 16.8 Deductibles/Self-Insured Retention: Subcontractor shall be fully responsible for satisfying all deductibles and self-insured retentions under the Subcontractor's insurance policies applicable to the Work.
- 16.9 Additional Insurance Requirements. Please refer to the Prime Contract between the Contractor and the Owner for any additional insurance requirements that may be applicable to Subcontractor's scope of work (See Prime Contract Document 00 08 05). Additional insurance requirements applicable to Subcontractor's specific scope of work may also be included in Exhibit A to this Subcontract Agreement. In the event that applicable insurance requirements set forth elsewhere in the Contract Documents conflict with the insurance requirements set forth above, the more stringent insurance requirements providing the highest limits and greatest protection to Owner and Contractor shall apply.

## **SECTION 17. CLAIMS RESOLUTION PROCEDURE**

- 17.1 Resolution of Disputes Involving Owner. All claims, disputes and matters in question, involving the Owner, arising out of, or relating to this Subcontract Agreement for a Particular Project or the breach thereof, except for claims which have been waived by the making or acceptance of final payment, shall be decided by the claims procedure, including any arbitration clause, specified in the prime contract between Contractor and Owner for the Particular Project. Pass-through claims will be pursued by the Contractor at the expense of Subcontractor, and Subcontractor will reimburse Contractor for the costs of legal and consulting services Contractor deems necessary to protect the interests of Contractor in connection with the processing of such claims. Without limiting any indemnity obligations elsewhere in this Subcontract, Subcontractor will indemnify Contractor against any cost or expense incurred by Contractor in connection with any claim of Subcontractor, including, without limitation, any response to an allegation of a false claim. Subcontractor shall be provided a reasonable opportunity to participate in all dispute proceedings under the Prime Contract and involving the Owner related to this Subcontract Agreement.
- 17.2 Arbitration Procedures. If, in the sole judgment of the Contractor, the controversy, dispute or claim is principally between the Contractor and Subcontractor and does not involve the Owner, then such controversy, dispute or claim between the Contractor and Subcontractor shall be determined as hereinafter provided:
- If any party has a claim, dispute, or any other unresolved matter written notice of the claim, dispute or other matter in question must be given to the other party as a precondition to proceeding with any claim against that party. Such written notice must be given within a reasonable time after party is aware of claim, dispute or other matter.
- 17.2.1 All claims, disputes and other matters in question between the Subcontractor and the Contractor arising out of or related to the Subcontract Agreement or the breach thereof, except as specifically governed by the foregoing provisions, and except for claims which have been waived by the making and acceptance of final payments, shall be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association then obtaining at the sole option of the Contractor. If a demand for arbitration is filed by the Subcontractor, the Contractor will advise the Subcontractor within thirty days after receipt of such a demand for arbitration if the Contractor exercises the option to arbitrate or rejects arbitration; such election once made shall be binding. The filing of a demand for arbitration by the Contractor shall be deemed an election to arbitrate and shall constitute the exercise of the option of the Contractor to proceed with arbitration. The Contractor may join or consolidate arbitration with the Owner, Architect or any Subcontractor, or any other party having an interest in the proceeding. This agreement to arbitrate shall be specifically enforceable under applicable law in any court having jurisdiction thereof. The award rendered by the arbitrator(s) shall be final and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction thereof. Notwithstanding the foregoing, Contractor and Subcontractor shall mutually agree on whether any controversy, dispute or claim between the parties shall be submitted to arbitration.



- 17.2.2 The Subcontractor agrees to continue performance of the subcontract Work and shall proceed in accordance with the directives of the Contractor in the event of a dispute or controversy. It being understood and agreed that any controversy between the parties shall not be deemed a basis to delay or suspend the work, unless directed otherwise by the Contractor.
- 17.2.3 Notice of Demand. Notice of demand for arbitration shall be filed in writing with the American Arbitration Association and the other party to the Master Subcontract Agreement for a Particular Project. Demand form shall be that provided by American Arbitration Association. The demand for arbitration shall be made within a reasonable time after written notice of the claim, dispute or other matter in question has been given, and in no event shall it be made after the date when institution of legal or equitable proceedings based on such claim, dispute or other matter in question would be barred by the applicable statute of limitations.
- 17.2.4 Award. The award rendered by the arbitrator(s) shall be final and judgment may be entered upon it in accordance with applicable law in any court having jurisdiction.
- 17.2.5 Work Continuation and Payment. Unless otherwise agreed in writing, Subcontractor shall carry on the work and maintain the schedule of work pending arbitration or other legal proceedings, and, if so, Contractor shall continue to make payments in accordance with this Long Form Subcontract Agreement.
- 17.2.6 Consolidated Arbitration Proceedings. To the extent not prohibited by their contracts with others, the claims and disputes of Owner, Contractor, Subcontractor and other subcontractors involving a common question of fact or law shall be heard by the same arbitrator(s) in a single proceeding. In this event, it shall be the responsibility of Subcontractor to prepare and present Contractor's case, to the extent the proceedings are related to this Agreement. Should Contractor enter into arbitration with the Owner or others regarding matters relating to this Subcontract Agreement, Subcontractor shall be bound by the result of the arbitration to the same degree as the Contractor.
- 17.2.7 No Limitation of Rights or Remedies. This Section shall not be deemed a limitation of any rights or remedies which Subcontractor may have under any Federal or State mechanic's lien laws or under any applications labor and material payment bonds unless such rights or remedies are expressly waived by him.

## **SECTION 18. SAFETY PRACTICES**

- 18.1 Subcontractor shall comply fully with all laws, orders, citations, rules, regulations, standards and statutes with respect to occupational health and safety, the handling and storage of hazardous materials, accident prevention, safety equipment and practices including the accident prevention safety program of Owner and Contractor. Subcontractor shall conduct inspections to determine that safe working conditions and equipment exist and accepts sole responsibility for providing a safe place to work for its employees and for employees of its subcontractors and suppliers of material and equipment, for adequacy of and required use of all safety equipment and for full compliance with the aforesaid laws, orders, citations, rules, regulations, standards and statutes. It is the responsibility of subcontractor to provide documentation to Contractor of Safety Program, Compliance with Subcontractor Program and submission of MSDS Forms.
- 18.2 Substance Abuse Policy. In keeping with Contractor's intention to provide a safe working environment for all of its employees, Contractor has established a Substance Abuse Policy for its employees and Subcontractors working at any Contractor jobsite, including the separate jobsites for Contractor's joint venture partners: Webcor and Obayashi. A copy of our Substance Abuse Policy which includes testing with reasonable cause, is available for review at any Contractor's jobsite or corporate office. In summary, any employee or Subcontractor's employee found to possess, sell, or use drugs/alcohol or any controlled substance at any Contractor jobsite will be subject to immediate termination even for a first violation. It is the responsibility of all employees and Subcontractors to enforce this policy, including immediate termination of any individual found possessing, selling, or using drugs/alcohol while on a Contractor jobsite and reporting same to the President. **THERE WILL BE NO EXCEPTION TO THE ABOVE ESTABLISHED POLICY.**

**NOTE TO SUBCONTRACTORS: Any employee of a Subcontractor working on a Contractor project found to possess, sell, or use drugs/alcohol will be immediately discharged from the jobsite. Any incident with your employees in this regard can be detrimental to your continued relationship with Contractor, including each joint venture partner.**

- 18.3 Subcontractor agrees to comply with the current California Occupational Health & Safety Act. Subcontractor additionally agrees to comply with Proposition 65 regarding warnings and use of chemicals at the jobsite and to not discharge or cause to be discharged any chemical on the premises during the course of his work or cleaning of his equipment at the jobsite.
- 18.4 Subcontractor shall provide their injury prevention program (IPP) to Contractor at the start of the job and have weekly toolbox safety meetings with their workers and turn in copies of these reports to Contractor on a timely basis.
- 18.5 Subcontractor will provide all necessary personal safety equipment, including hard hats for his workers. Lost time due to Subcontractor's workmen being sent off the jobsite because of lack of safety equipment will not be a reason for not meeting the Contractor's schedule. Subcontractor's workmen causing unsafe conditions or engaging in unsafe work practices will not be tolerated and may be sent off the jobsite at the discretion of the Contractor. Subcontractor will report to Contractor all accidents to or by Subcontractor's personnel or equipment which occur at this jobsite. Copies of accident reports will be given to Contractor within 24 hours of the occurrence.

## **SECTION 19. WARRANTY**

- 19.1 Subcontractor warrants to Owner and Contractor that all materials and equipment furnished shall be new unless otherwise specified and that all work under this Agreement shall be of good quality, free from faults and defects and in conformance with the Contract Documents. All work not conforming to these requirements, including substitutions not properly approved and authorized, may be considered defective. The warranty provided in this Section 19 shall be in addition to and not in limitation of any other warranty or remedy required by law or by the Contract Documents.

## **SECTION 20. USE OF CONTRACTOR'S EQUIPMENT**

In the event Subcontractor shall use Contractor's equipment, materials, labor, supplies or facilities, Subcontractor shall reimburse Contractor at a predetermined rate, except as provided in Section 14 or as otherwise stated herein. Further, Subcontractor assumes all responsibility for physical damage to such equipment, materials, labor, supplies, or facilities used by Subcontractor or his agents, employees, or permittees. In the event that Contractor's employees are used by Subcontractor, Subcontractor shall have full responsibility for all acts or omissions of Contractor's employees with regard to Subcontractor's use or employment of them. Subcontractor accepts any and all of Contractor's equipment, materials, labor, supplies or facilities as furnished.

- 20.1 Notwithstanding any provision of the construction contract or any bid document to the contrary, if at the request of Subcontractor, Contractor permits Subcontractor personnel to use Contractor's equipment such as hoisting equipment, safety planks, ladders, and scaffolds, Subcontractor will indemnify Contractor and hold Contractor harmless from any and all liability, claims, actions, demands, damages, and expenses, including without limitation, reasonable attorneys' fees arising out of injury to persons or property in any connected with such use of Contractor's services, facilities, or equipment.

## **SECTION 21. ASSIGNMENT OF CONTRACT**

Subcontractor shall not, without written consent of Contractor, assign, delegate, subcontract, transfer, or sublet any portion or part of the work required by this Agreement, nor assign any payment hereunder to others.

## **SECTION 22. INDEPENDENT CONTRACTOR**

Subcontractor is an independent contractor and shall, at his sole cost and expense, and without increase in the Contract Price, comply with all laws, rules, ordinances and regulations of all governing bodies having jurisdiction over the work; obtain all necessary permits and licenses therefore, pay all manufacturers' taxes, sales taxes, processing taxes, and all federal and state taxes, insurance and contributions for social security and unemployment which are measured by wages, salaries, or other remunerations paid to Subcontractor's employees. Subcontractor, upon request, shall furnish evidence satisfactory to Contractor that any or all of the foregoing obligations have been fulfilled.

## **SECTION 23. CLEAN-UP**

At all times during the course of construction, Subcontractor shall perform his work so as to maintain the site in a clean, safe and orderly condition. Upon completion of the work under this Agreement, Subcontractor shall remove from the site all hazardous materials, temporary structures, debris and waste incident to his operation and clean all surfaces, fixtures, equipment, etc., relative to the performance of this Agreement.

- 23.1 Subcontractor will be required, at all times, to keep the premises free from accumulation of waste materials or rubbish caused by its operations and the operations of its Lower-Tier Subcontractors. If Subcontractor fails to comply within 24 hours of a warning by the Contractor Superintendent, the clean-up will be performed by Contractor and charged to the Subcontractor. **No debris boxes will be provided for Subcontractor use.**

## **SECTION 24. ATTORNEYS' AND EXPERTS' FEES AND COSTS**

In the event the parties become involved in litigation or arbitration with each other arising out of this Agreement or other performance thereof in which the services of an attorney or other expert are reasonably required, the prevailing party shall be fully compensated for the cost of its participation in such proceedings, including the cost incurred for costs, attorneys' fees and experts' fees. Unless judgment goes by default, the attorneys' fee award shall not be computed in accordance with any court schedule, but shall be such as to fully reimburse all attorneys' fees actually incurred in good faith, regardless of the size of a judgment, it being the intention of the parties to fully compensate for all costs, attorneys' fees and experts' fees paid or incurred in good faith.

## **SECTION 25. SPECIAL PROVISIONS**

- 25.1 Unless otherwise directed, Subcontractor agrees to send all materials and correspondence directly to the **job site** and not to the main office in San Mateo.
- 25.2 Subcontractor agrees to submit Certificates of Insurance as evidence of insurance coverage to the Contractor directly.
- 25.3 Subcontractor will provide a warranty for its work, in accordance with the contract documents, on the form attached hereto as Exhibit "B". The duration of the warranty will be for a minimum period of two years unless a longer period is noted in the contract documents, in which case the longer period will apply. The start date of the warranty will commence on the date of substantial completion of the project and specific acceptance of the work performed under this subcontract. This warranty is in addition to the other remedies Contractor has under this Contract and California law.

- 25.4 Subcontractor agrees to attend weekly construction coordination meetings at the jobsite.
- 25.5 Unless expressly stated otherwise in the Contract Documents, the Contract price shall include all governmental agency fees, testing fees, licensing fees, individual trade permit fees, and all applicable sales and use taxes.
- 25.6 Scope shall include all unloading and hoisting of Subcontractor's own material and equipment.
- 25.7 Scope shall include scaffolding, high reach equipment, or platforms, as required to execute this subcontract.
- 25.8 Subcontractor includes complete coordination with other trades. No additional monies will be paid for extra work caused by lack of coordination.
- 25.9 Subcontractor includes shop drawings and submittals as required for all its work as specified by the contract documents or other applicable standards.
- 25.10 Subcontractor is required to submit, in writing, any Lower-Tier Subcontractors for approval by Contractor.
- 25.11 All deliveries of materials to the jobsite shall be cleared with the Contractor's superintendent (minimum 48 hours notice) with respect to date, time, and unloading or storage location.
- 25.12 The scope of work of this subcontract shall include all work reasonably inferable for work of this nature whether specifically shown or referenced in the contract documents.
- 25.13 This Subcontract shall be covered by the law of place where the project is located.
- 25.14 Prevailing Wage/Certified Payroll, and Apprentice Requirements: All persons performing labor on this Project will be paid not less than the highest prevailing rate of wages for the labor so performed as determined by the San Francisco Board of Supervisors and the Director of the California Department of Industrial Relations, and when federal funds are involved, the current General wage Determination Decisions, as determined by the U.S. Secretary of Labor. Subcontractor shall provide certified payroll reports on a weekly basis with respect to all persons performing labor on the Project, and shall require its subcontractors to fulfill this same requirement. Subcontractor shall also comply with the requirements of the State Apprenticeship Program and San Francisco Administrative Code, section 6.21(o). See Prime Contract (Document 00 05 20) Article 8 and General Conditions (Section 00 07 00) Article 11. Subcontractor shall indemnify Contractor for any penalties incurred as a result of Subcontractor's failure to fulfill these requirements.
- 25.15 False Claims and Other Violations: Under San Francisco Administrative Code section 6.22M, any Subcontractor or supplier who fails to comply with the terms of the Prime Contract as applies to their respective scopes of work, who violates any provisions of San Francisco Administrative Code Chapter 6, who submits false claims, or who violates against any governmental entity a civil or criminal law relevant to its ability to perform under or comply with the terms and conditions of this Agreement, may be declared an irresponsible bidder and debarred according to the procedures set forth in San Francisco Administrative Code section 6.80, et seq.
- (i) Subcontractor warrants that it shall, prior to submittal to Contractor, thoroughly analyze all payment applications, change order requests, claims and statements in support thereof and by its submission of same certifies that all information therein is true and accurate to the best of Subcontractor's knowledge and belief. Subcontractor is also directed to the claim certification requirements set forth in Section 13.02(C) of the General Conditions (Document 00 07 00) of the Prime Contract for this Contract which shall apply to Subcontractor and its lower tier Subcontractors/Suppliers with respect to submission of claims in the same manner that Contractor is required to certify its claims to the Owner.
  - (ii) A Subcontractor or Supplier who submits a false claim may be subject to monetary penalties, investigation, and prosecution as set forth in San Francisco Administrative Code section 6.80, et seq., California Government Code Section 12650, et seq., and the Federal False Claims Act.
  - (iii) Subcontractor shall indemnify Contractor to the maximum extent afforded under applicable law against any losses or liabilities arising out of or in connection with Subcontractor's violation of the applicable laws related to the submission of false claims as set forth in subparagraph A, above.
- 25.16 Earned Income Credit (EIC) Forms. San Francisco Administrative Code Chapter 12O requires that employers provide their employees with IRS Form W-5 (the Earned Income Credit Advance Payment Certificate) and the IRS EIC Schedule, as set forth below.
- (i) Subcontractor shall provide EIC Forms to each Eligible Employee at each of the following times: (a) within thirty days following the date on which this Subcontract becomes effective (unless Subcontractor has already provided such EIC Forms at least once during the calendar year in which such effective date falls); (b) promptly after any Eligible Employee is hired by Subcontractor; and (c) annually between January 1 and January 31 of each calendar year during the term of the Subcontract.
  - (ii) Failure to comply with any requirement contained in subparagraph (i) above shall constitute a material breach by Subcontractor of the terms of this Subcontract. If, within twenty-five days after Subcontractor

- receives notice of such a breach, Subcontractor fails to cure such breach or, if such breach cannot reasonably be cured within such period, Subcontractor fails to commence such cure to completion, Contractor may pursue any rights or remedies available under this Subcontract or applicable law.
- (iii) Any subcontract entered into by Subcontractor shall require the subcontractor to comply, as to the subcontractor's Eligible Employees, with each of the terms of this Section 25.16.

- 25.17 Assignability of Subcontracts. All lower tier subcontracts and purchase agreements of suppliers and lower-tier suppliers shall provide that they are freely assignable to the Contractor and/or the TJP.
- 25.18 Audit. Contractor reserves its right to review, obtain copies of, and audit any and all of Subcontractor's financial information and documents concerning the project and any associated jobsite or home office overhead expenses.

CONTRACTORS, INCLUDING SUBCONTRACTOR AND LOWER-TIER SUBCONTRACTORS, ARE REQUIRED BY LAW TO BE LICENSED AND REGULATED BY THE CONTRACTOR'S STATE LICENSE BOARD. ANY QUESTIONS CONCERNING A CONTRACTOR MAY BE REFERRED TO THE REGISTRAR OF THE BOARD, WHOSE ADDRESS IS:

Contractor's State License Board  
Post Office Box 26000  
Sacramento, CA 95826

Dated: \_\_\_\_\_ Dated: \_\_\_\_\_

CONTRACTOR

SUBCONTRACTOR

**WEBCOR/OBAYASHI JOINT VENTURE**

By: \_\_\_\_\_  
(Signature – Webcor)

By: \_\_\_\_\_  
(Signature)

Printed Name: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

By: \_\_\_\_\_  
(Signature – Obayashi)

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

1751 Harbor Bay Parkway, Suite 200  
Alameda, CA 94502  
Contractor's License No.: 928731A, B, C-8

Address  
City, State, Zip:  
Contractor's License No.: \_\_\_\_\_

## WARRANTY

WARRANTY to Transbay Joint Powers Authority  
(Owner Name)  
201 Mission, Suite 2100, San Francisco, CA  
(Owner Address)

We hereby warrant and guarantee that the \_\_\_\_\_  
(Description of Work)

which we have installed at Transbay Transit Center has been done in strict accordance with the plans and specifications, and that the work installed will fulfill the requirements of those specifications.

We agree to repair or replace, or cause to be repaired or replaced, any or all of the work which may prove to be defective in workmanship or materials, together with any adjacent work which required repair or replacement because of our defective work within a period of \_\_\_\_\_ year(s) from the filing of the Notice of Completion on all improvements, or acceptance by the Owner of the building, whichever is later.

If we fail to commence to comply with the above paragraph within ten (10) days after receipt of written notice, or fail to pursue such compliance with diligence, we jointly, and severally, do hereby authorize the Owner or the General Contractor to proceed to have the defects repaired and made good at our sole expense, and we will honor and pay the costs and charges for it together with interest at the maximum rate permitted by law upon demand. If we fail to fulfill the preceding obligations, and if Owner or General Contractor bring an action to enforce this Warranty, we agree to pay Owner or General Contractor reasonable attorney's fees incurred in connection therewith.

SUBCONTRACTOR:

CONTRACTOR:

\_\_\_\_\_

WEBCOR/OBAYASHI JOINT VENTURE

BY: \_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_

DATE: \_\_\_\_\_

LICENSE NO. \_\_\_\_\_

LICENSE NO. 928731A, B, C-8

LOCAL REPRESENTATIVE TO BE CONTACTED FOR SERVICE:

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TELEPHONE: \_\_\_\_\_



## Exhibit C

### LIEN RELEASES

#### Form Number

#### Form Title

1034	Conditional Waiver and Release Upon Progress Payment
1035	Unconditional Waiver and Release Upon Progress Payment
1036	Conditional Waiver and Release Upon Final Payment
1037	Unconditional Waiver and Release Upon Final Payment

# CONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

Upon receipt by the undersigned of a check from Webcor/Obayashi Joint Venture  
(Maker of Check)

in the sum of \$ \_\_\_\_\_ payable to \_\_\_\_\_ and  
(Your Customer)

when the check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release any mechanic's lien, stop notice, or bond right the undersigned has on the job of Transbay Joint Powers Authority located at  
(Owner)

Transbay Transit Center 425 Mission Street San Francisco, California to the following extent. This  
(Job Description)

release covers a progress payment for labor, services, equipment or material furnished to Webcor/Obayashi Joint Venture through \_\_\_\_\_  
(Date)

only and does not cover any retentions retained before or after the release date; extras furnished before the release date for which payment has not been received; extras or items furnished after the release date. Rights based upon work performed or items furnished under a written change order which has been fully executed by the parties prior to the release date are covered by this release unless specifically reserved by the claimant in this release. This release of any mechanic's lien, stop notice, or bond right shall not otherwise affect the contract rights, including rights between parties to the contract based upon a rescission, abandonment, or breach of the contract, or the right of the undersigned to recover compensation for furnished labor, services, equipment, or material covered by this release if that furnished labor, services, equipment, or material was not compensated by the progress payment. The undersigned warrants that he (she/it) has reviewed the job files and has queried his (hers/its) on job personnel, suppliers, subcontractors, and any other potential lienor and, as of the date of this lien release, warrants that he (she/it) is unaware of any changes in the work, extra or any claim that is not covered by this release. Before any recipient of this document relies on it, the party should verify evidence of payment to the undersigned.

Dated: \_\_\_\_\_  
(Company Name)

Transbay Transit Center By: \_\_\_\_\_  
(Title)

NOTE: This document has important legal consequences; legal consultation with an attorney is encouraged with respect to its use or modification.

## UNCONDITIONAL WAIVER AND RELEASE UPON PROGRESS PAYMENT

The undersigned has been paid and has received a progress payment in the sum of  
\$ \_\_\_\_\_ for labor, services, equipment or material furnished to **Webcor /Obayashi  
Joint Venture** on the job of Transbay Joint Powers Authority located at  
(Your Customer) (Owner)

**Transbay Transit Center 425 Mission Street San Francisco, CA** and does hereby release  
any mechanic's lien,  
(Job Description)

stop notice, or bond right that the undersigned has on the above referenced job to the following  
extent. This release covers a progress payment for labor, services, equipment, or materials  
furnished to **Webcor /Obayashi Joint Venture**

(Your Customer)

through \_\_\_\_\_ only and does not cover any retention retained before or  
(Date)

after the release date; extras furnished before the release date for which payment has not been  
received; extras or items furnished after the release date. Rights based upon work performed  
or items furnished under a written change order which has been fully executed by the parties  
prior to the release date are covered by this release unless specifically reserved by the claimant  
in this release. This release of any mechanic's lien, stop notice, or bond right shall not  
otherwise affect the contract rights, including rights between parties to the contract based upon  
a rescission, abandonment, or breach of the contract, or the right of the undersigned to recover  
compensation for furnished labor, services, equipment, or material covered by this release if  
that furnished labor, services, equipment, or material was not compensated by the progress  
payment. The undersigned warrants that they have reviewed the job files and have consulted  
with their on job personnel and, as of the date of this lien release, are unaware of any change in  
work or any claim that is not covered by this release.

Dated: \_\_\_\_\_  
(Company Name)

Transbay Transit Center By: \_\_\_\_\_  
(Title)

**"NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY  
AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE  
RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU  
SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT  
BEEN PAID, USE A CONDITIONAL RELEASE FORM."**



## CONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

Upon receipt by the undersigned of a check from Webcor/Obayashi Joint Venture

*(Maker of Check)*

in the sum of \$ \_\_\_\_\_ payable to \_\_\_\_\_

*(Amount of Check)*

*(Payee or Payees of Check)*

and when the check has been properly endorsed and has been paid by the bank upon which it is drawn, this document shall become effective to release any mechanic's lien, stop notice, or bond right the undersigned has on the job of Transbay Joint Powers Authority

*(Owner)*

located at Transbay Transit Center 425 Mission Street San Francisco, California

*(Job Description)*

This release covers the final payment to the undersigned for all labor, services, equipment, or material furnished on the job, except for disputed claims for additional work in the amount of **Zero (\$0.00)**. Before any recipient of this document relies on it, the party should verify evidence of payment to the undersigned. The undersigned warrants that they have reviewed the job files and have consulted with their on job personnel and, as of the date of this lien release, are unaware of any change in work or any claim that is not covered by this release.

Dated: \_\_\_\_\_

\_\_\_\_\_  
*(Company Name)*

Transbay Transit Center

By: \_\_\_\_\_

\_\_\_\_\_  
*(Title)*

NOTE: This document has important legal consequences; legal consultation with an attorney is encouraged with respect to its use or modification.

# UNCONDITIONAL WAIVER AND RELEASE UPON FINAL PAYMENT

---

The undersigned has been paid in full for all labor, services, equipment or material furnished to  
**Webcor/Obayashi Joint Venture** on the job of Transbay Joint Powers Authority  
*(Your Customer)* *(Owner)*

located at Transbay Transit Center 425 Mission Street San Francisco, California  
*(Job Description)*

and does hereby waive and release any right to a mechanic's lien, stop notice, or any right against a labor and material bond on the job, except for disputed claims for extra work in the amount of \$ Zero(0.00). The undersigned warrants that they have reviewed the job files and have consulted with their on job personnel and, as of the date of this lien release, are unaware of any change in work or any claim that is not covered by this release.

Dated: \_\_\_\_\_  
*(Company Name)*

Transbay Transit Center By: \_\_\_\_\_  
*(Title)*

**"NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM."**



## Exhibit D

### SAMPLE CERTIFICATE OF INSURANCE AND ADDITIONAL INSURED ENDORSEMENT

**Form Number****Form Title**

ACCORD 25

Certificate of Liability Insurance

CG 201 10 11 85

Additional Insured - Owners, Lessees or Contractors (Form B) - Commercial General Liability

WC 04 03 06

Waiver of Our Right to Recover from Others Endorsement



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> ANY AGENT OR BROKER STREET ADDRESS CITY, STATE, ZIP PHONE/FAX		<b>CONTACT NAME:</b> <b>PHONE (A/C, No, Ext):</b> <b>E-MAIL ADDRESS:</b>		<b>FAX (A/C, No):</b>
<b>INSURED</b> ABC SUBCONTRACTOR STREET ADDRESS CITY, STATE, ZIP		<b>INSURER A:</b>		<b>XYZ INSURANCE COMPANY</b> <b>(RATED A-VII OR BETTER BY AM BEST)</b> <b>NAIC #</b>
		<b>INSURER B:</b>		
		<b>INSURER C:</b>		
		<b>INSURER D:</b>		
		<b>INSURER E:</b>		
		<b>INSURER F:</b>		

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<b>GENERAL LIABILITY</b> <input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> <b>CLAIMS-MADE</b> <input checked="" type="checkbox"/> <b>OCCUR</b>	X	X	XYZ123456			<b>EACH OCCURRENCE</b> \$ 1,000,000 <b>DAMAGE TO RENTED PREMISES (Ea occurrence)</b> \$ TBD <b>MED EXP (Any one person)</b> \$ TBD <b>PERSONAL &amp; ADV INJURY</b> \$ 1,000,000 <b>GENERAL AGGREGATE</b> \$ 2,000,000 <b>PRODUCTS - COMP/OP AGG</b> \$ 2,000,000	
	<b>GEN'L AGGREGATE LIMIT APPLIES PER:</b> <input type="checkbox"/> <b>POLICY</b> <input checked="" type="checkbox"/> <b>PRO-JECT</b> <input type="checkbox"/> <b>LOC</b>							
	A	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> <b>ANY AUTO</b> <input type="checkbox"/> <b>ALL OWNED AUTOS</b> <input type="checkbox"/> <b>HIRED AUTOS</b>			XYZ654321			<b>COMBINED SINGLE LIMIT (Ea accident)</b> \$ 1,000,000 <b>BODILY INJURY (Per person)</b> \$ <b>BODILY INJURY (Per accident)</b> \$ <b>PROPERTY DAMAGE (Per accident)</b> \$
		<input type="checkbox"/> <b>SCHEDULED AUTOS</b> <input type="checkbox"/> <b>NON-OWNED AUTOS</b>						
A		<b>UMBRELLA LIAB</b> <input checked="" type="checkbox"/> <b>OCCUR</b> <b>EXCESS LIAB</b> <input type="checkbox"/> <b>CLAIMS-MADE</b>			XYZ123456			<b>EACH OCCURRENCE</b> \$ <b>AGGREGATE</b> \$
		<b>DED</b> <input type="checkbox"/> <b>RETENTION \$</b> <input type="checkbox"/>						
A	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	X	XYZ123456			<input checked="" type="checkbox"/> <b>WC STATU-TORY LIMITS</b> <input type="checkbox"/> <b>OTH-ER</b> <b>E.L. EACH ACCIDENT</b> \$ 1,000,000 <b>E.L. DISEASE - EA EMPLOYEE</b> \$ 1,000,000 <b>E.L. DISEASE - POLICY LIMIT</b> \$ 1,000,000	
A	<b>POLLUTION LIABILITY</b> <b>PROFESSIONAL LIABILITY</b>			XYZ123456 XYZ123456				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

RE: Transbay Transit Center Building

**CERTIFICATE HOLDER****CANCELLATION**Webcor/Obayashi Joint Venture  
951 Mariners Island Blvd., 7th Floor  
San Mateo, CA 94404-2514

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Mary Jane Doe

The ACORD name and logo are registered marks of ACORD

© 1988-2010 ACORD CORPORATION. All rights reserved.

# **WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT**

This endorsement changes the policy to which it is attached effective on the inception date of the policy unless a different date is indicated below.

(The following "attaching clause" needs to be completed only when this endorsement is issued subsequent to preparation of the policy.)

This endorsement forms a part of Policy No. XYZ 1234567

Issued to: ABC SUBCONTRACTOR

By: XYZ INSURANCE COMPANY

Premium (if any) TBD

We have a right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us).

You must maintain payroll records accurately segregating the remuneration of your employees while engaged in the work described in the Schedule.

The additional premium for this endorsement shall be 2-5% of the California workers compensation premium otherwise due on such remuneration.

## **Schedule**

Person or Organization	Job Description
WEBCOR/OBAYASHI JOINT VENTURE, Its Officers, Directors and Employees AND TRANSBAY JOINT POWERS AUTHORITY, its Board Members and Commissions, All Authorized Agents and Representatives, and Members, Directors, Officers, Trustees, Agents and Employees of Any of Them.	TRANSBAY TRANSITY CENTER BUILDING.

**WAIVER OF SUBRAGATION FOR WORKERS COMPENSATION INSURANCE TO BE INCLUDED.**

POLICY NUMBER: XYZ 1234567

COMMERCIAL GENERAL LIABILITY

**THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.**

**ADDITIONAL INSURED – OWNERS, LESSEES OR  
CONTRACTORS (FORM B)**

This endorsement modifies insurance provide under the following:

**COMMERCIAL GENERAL LIABILITY COVERAGE PART**

**SCHEDULE**

Name of Person or Organization:

WEBCOR/OBAYASHI JOINT VENTURE,  
Its Officers, Directors and Employees

AND

TRANSBAY JOINT POWERS AUTHORITY, its Board Members  
and Commissions, All Authorized Agents and Representatives, and  
Members, Directors, Officers, Trustees, Agents and Employees of Any  
of Them.

RE:

TRANSBAY TRANSIT CENTER BUILDING.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule, but only with respect to liability arising out of "your work" for that Insured by or for you.

If required by your agreement with such insured, this insurance shall be primary insurance for such Insured. If anyone also provides similar insurance for such Insured, then that insurance will be primary, and this insurance will be excess over, or secondary to that insurance.

"The insurance afforded by this policy for the additional insured(s) is primary insurance and any other insurance maintained by or available to the additional Insured(s) is non-contributory."

**WAIVER OF SUBROGATION - WORKERS COMP**

CG 20 10 11 85

Exhibit "D"

## Exhibit E – LEED Trade Subcontractor Submission Letter & Data Sheet



Transbay Transit Center  
Webcor/Obayashi Joint Venture  
175 Beale Street  
San Francisco, CA 94105  
T 415-978-5700

To Whom It May Concern:

In our efforts to complete LEED Documentation for the **Transbay Transit Center Project** we will need the following information provided on your official company letter head:

1. Company Name & Contact information
2. Contract Value
3. Scope of work included in Contract with specific Division and Sections listed
4. **List of all materials permanently installed on the project**, within the LEED boundary that were included in the contract. A total estimated weight value and total actual material cost must be provided for each material. Please provide exact Material name & manufacturer, division and specification section number (XX XX XX).
5. Recycled content (**post-consumer and Pre-consumer broken out separately**) percentages for each material from CSI Masterformat 2004 Edition Divisions 3-10, 31 (Section 31 6X XX Foundations) and 32 (Sections 32 1X XX Paving, 32 3X XX Site Improvements, 32 9X XX Planting). Please provide cut sheets of each material with the recycled content values posted.
6. List the location of material extraction (city, state, country) and material manufacturing (city, state, country) for all materials from CSI Masterformat 2004 Edition Divisions 3-10, 31 (Section 31 6X XX Foundations) and 32 (Sections 32 1X XX Paving, 32 3X XX Site Improvements, 32 9X XX Planting). Specifically, we are looking for those materials that were **both extracted and manufactured** within 500 miles of the jobsite. If you are sure that your materials do not comply as Regional Material, please note that the material was extracted/manufactured "greater than 500 miles" from the jobsite.
7. If you provided any adhesives, sealants, coatings, paints, carpet systems, etc. – please be sure to include these materials on your spreadsheet with the **actual VOC content (g/L)**. Please provide proof in the form of a cutsheet, or MSDS highlighting the VOC content value.
  - a. All particleboard, MDF, Agrifiber, Veneers, and composite wood products must be **Urea-Formaldehyde free**. Please note "*Urea-Formaldehyde free*" in the VOC column for these material types. All Agrifiber/composite wood products must provide proof of being Urea-formaldehyde free in the form of MSDS, Cut Sheet, or Letter from the Manufacturer.
8. For all materials that contain wood, please specify the FSC Wood **Chain of Custody number (COC)**. The COC Certificate and **original purchasing invoices** must be provided as proof of purchase/certification.

### LEED Submittals:

- A. **Preliminary LEED Material Spreadsheet** - Within 30 days of Contract award, assemble and submit the "LEED Material Tracking Spreadsheet" complete with all data described in 4-8 above. Cover letter and back up documentation are not necessary for this submittal. The quantities, costs, products, and LEED metrics should be entered in the spreadsheet as the project/contract scope was bid/ estimated. Please see the sample LEED Material Tracking Spreadsheet that you must complete and submit back to Webcor/Obayashi Joint Venture within 30 days of awarded contract.
- B. **Final Exhibit E submittal** – Prior to closeout, assemble and submit all 'actual' LEED material information on the "LEED Material Tracking Spreadsheets" and forms provided in the Project Manual, together with all supplemental documentation as required by LEED. Please see the sample LEED cover letter and Material Tracking Spreadsheet that you must complete and submit back to Webcor/Obayashi Joint Venture prior to closeout on the project.

If you have any questions or concerns, please contact Webcor/Obayashi Joint Venture. If there is any information that you are not able to track down please let us know. We are here to support your LEED efforts.

Sincerely,

**WEBCOR/OBAYASHI JOINT VENTURE**

[Insert your company logo]  
[Type the sender address]  
Phone: [Type the sender phone number]

► Document Control  
Transbay Transit Center  
Webcor/Obayashi Joint Venture  
175 Beale Street  
San Francisco, CA 94105  
[docctrl@webcor-obayashi.com](mailto:docctrl@webcor-obayashi.com)

---

[Date]

To: Webcor/Obayashi Joint Venture,

Please find the following information regarding the scope of work that [subcontractor name] provided to the **Transbay Transit Center project** in San Francisco, CA.

1. Subcontractor's LEED Point of contact information:
  - a. Name: \_\_\_\_\_
  - Title: \_\_\_\_\_
  - Email: \_\_\_\_\_
  - Phone #: \_\_\_\_\_
2. The total contract value of our work is \$ \_\_\_\_\_
3. Scope of work (Division/Section): [use LEED Material Spreadsheet]
4. List of Materials included in contract value (weight): [use LEED Material Spreadsheet]
5. Post-Consumer & Post-Industrial Recycled content values for each material (%): [use LEED Material Spreadsheet]
6. Location of Material Extraction & location of Material Manufacturing: [use LEED Material Spreadsheet]
7. VOC Content (g/L) for each material: [use LEED Material Spreadsheet]
  - a. VOC values only required for: adhesives, sealants, coatings, paints, carpet & flooring systems
  - b. Confirmation of "Urea-Formaldehyde Free" for Agrifiber products: [use LEED Material Spreadsheet]
8. Chain of Custody Number for all FSC Wood Products: [use LEED Material Spreadsheet]

Thank you,

---

[Insert your company logo]  
[Sender Name]  
[Sender Title]  
[Sender Company Name]  
[Date signed]



Total Contract Value: \_\_\_\_\_

[illegible]

EXHIBIT F - BIM Breakdown Sheet



Trade Contractor Name: \_\_\_\_\_

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	
Building Element		Activity		Quantity	Unit	Material		Labor											
UniFormat Classification		MasterFormat Code	Name			Material Cost	Waste Factor	Specific Labor Rate, \$/HR includes misc small tools								Crew Composition, Qty	Blended Crew Hourly Unit Rate	Labor Consumption Rate Hours / Unit	Waste Factor
						\$/unit	%	Labor Type #1 Labor Type #2 Labor Type #3 Etc.								Labor Type #1 Labor Type #2 Labor Type #3 Etc.	Total Crew Cost Per Hour / No. of Men on Crew	Labor Hours / Unit = 1/productivity	%
UniFormat coding organizes data logically by system and assemblies (Example: A2010.10)	Concise Name of Building Element.	MasterFormat coding organizes info by construction activity (Example: 31.53.13)	The individual tasks that can be performed by the installing trade contractor without interruption from other trades. Listed activities should coincide with activities included with a subcontractor's detailed project schedule.	Defining measurable unit and associated quantity for each work activity		Cost per unit of material	Excess material required to complete work	Labor rate for each labor type required for the activity. (Add coumns as necessary)								Define quantity for each labor type for each activity. (Add columns as necessary)	Cost averaged hourly rate per person on crew	Consumption is the inverse of Labor Productivity Rate (productivity = units / hour). Units need to match column "r" units.	Consumption rate adjustment for specific working conditions
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.														#DIV/0! #DIV/0! #DIV/0!		

EXHIBIT F - BIM Breakdown Sheet



Trade Contractor Name: \_\_\_\_\_

(a)	(b)	(c)	(d)	(t)	(u)	(v)	(w)	(x)	(y)	(z)	(aa)	(bb)	(cc)	(dd)	(ee)	(ff)	(gg)	(hh)	(ii)	(jj)
Building Element		Activity		Equipment							Subtotals									Total
UniFormat Classification		MasterFormat Code	Name	Equipment Rate, \$/HR Unit Price / Hour	Equipment Consumption Rate Hours / Unit			Waste Factor			Material \$	OH&P %	Total Material \$	Labor \$	OH&P %	Total Labor \$	Equip \$	OH&P %	Total Equip \$	\$
				Equipment Type 1	Equipment Type 2	Etc.	Equipment Type 1	Equipment Type 2	Etc.	%	(e) * (g) * (h)		(aa) * [1 + (bb)]	(e) * (r) * (q) * [1 + (s)]		(dd) * [1 + (ee)]	(e) * (t) * (w) * [1 + (z)]		(gg) * [1 + (hh)]	(cc) + (ff) + (ii)
UniFormat coding organizes data logically by system and assemblies (Example: A2010.10)	Concise Name of Building Element.	MasterFormat coding organizes info by construction activity (Example: 31.53.13)	The individual tasks that can be performed by the installing trade contractor without interruption from other trades. Listed activities should coincide with activities included with a subcontractor's detailed project schedule.	Define the type(s) of equipment for each work activity	Consumption is the inverse of Equipment Productivity Rate (productivity = units / hour). Units need to match column "t" units.			Consumption rate adjustment for specific working conditions									Formula is per piece of equipment			
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!
UniFormat Classification from Bid Form - xxxx.xx	Item Description/ Element Name on Bid Form	xx.xx.xx xx.xx.xx xx.xx.xx	Work Activity 1 Work Activity 2 Etc.								\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!		\$ - \$ - \$ -	\$ - \$ - \$ -		\$ - \$ - \$ -	#DIV/0! #DIV/0! #DIV/0!

Total Costs	\$ -	\$ -	\$ -	#DIV/0!
-------------	------	------	------	---------



## Exhibit G

### SUBCONTRACTOR PAYMENT REQUISITION

#### 1. Forms Checklist

#### 2. Forms

Form Number	Form Title
i. 1030	Subcontractor Progress Billing Invoice
ii. 1030A	Schedule of Values
iii. 1031	Subcontractor Final Retention Invoice
iv. 1031A	Schedule of Value Retention Release
v. 00 08 21/AT3-E (modified)	Progress Payment Report (With Additional SBE Columns)

## Forms Checklist

\*\*This checklist is provided as a reference, but may not be a complete list. Refer to the Contract Documents for all required submissions and their frequency.

#	FORMS	FORM	FREQ	REF
1	<b>CityBuild Workforce Projection Form 1 and 2</b> - Non-compliance results in removal from site	00 08 20/AT1 00 08 20/AT2	Initial	Div 00 08 20 1.7
2	<b>Schedule of Values</b>	1030A	Initial / Monthly	Exhibit G
3	<b>Daily Report</b> (must be CURRENT at the time of pay app submission and payment)		Daily / Monthly	Bid Manual IV. A. 4. c.
4	<b>Subcontract Progress Billing Invoice</b>	1030	Monthly	Exhibit G
5	<b>Conditional Waiver and Release Upon Progress Payment</b>	1034	Monthly	Exhibit C
6	<b>Unconditional Waiver and Release Upon Progress Payment</b>	1035	Monthly	Exhibit C
7	<b>TJPA ARRA Jobs Report Form</b>	v 1.2	Monthly	Div 00 08 13, 1.2.E & APF
8	<b>Manpower Projection</b>		Monthly	Bid Manual IV. A. 38. a.
9	<b>Billing Projection / Cashflow Projection</b>		Monthly	Bid Manual IV. A. 37. a.
10	<b>TJPA Progress Payment Report</b>	00 08 21/AT3-D	Monthly	Div 00 08 21, 1.5.B
11	<b>Subcontractor Payment Declaration</b>	00 08 21/AT3-E	Monthly	Div 00 08 21, 1.5.C
12	<b>Project Specific Insurance</b> (Must be CURRENT)		Monthly	Long Form Subcontract 16
13	<b>Certified Payroll</b> , weekly electronic submission (CURRENT at the time of pay app submission and payment) including sub tiers		Weekly / Monthly	Long Form Subcontract 4.2
14	<b>Apprentice Training Fund Contributions</b> proof of payment	a) Copy of trust fund remittance report w/ copy of cancelled check OR b) DAS Form CAC 2 w/ copy of cancelled check	Monthly	Bid Manual II. F. 6. c. & Long Form Subcontract 4.2 & Div 00 08 22 1.2 D.
15	<b>Apprenticeship min/max ratio verification</b> - if under, submit a plan to satisfy requirement by the end of the project without exceeding daily max; if over, provide written explanation for each day of violation		Monthly	Bid Manual
16	<b>Apprenticeship Monthly Trade Subcontractor Affidavit</b>		Monthly	Bid Manual, Exhibit Q
17	<b>Request for Dispatch of an Apprentice (DAS 142 Form)</b> - if any	DAS 142	Monthly	Bid Manual
18	<b>Apprentice documentation</b> - documentation on employed apprentices that are current and properly registered as required by specs		Monthly	Div 00 08 13/APA, Section 23 (d) (1)
19	<b>EIC Form</b> from eligible subcontractor employees		Yearly	Div 00 08 22 1.9 C (all of 1.9)
20	<b>LEED - NC Version 3.0</b> (monthly summaries and deliverables)		Monthly	Bid Manual IV. A. 40. a. and Div 01 81 13 1.5 D.1-4
21	Reconciled Excel submittal form with Trade Package Progress Schedule ( 2 times a month) - NOTE: In Div 01 our updated schedule must be submitted in our Progress Payment Request, see 01 13 10 1.5 E.		Monthly	Bid Manual IV. A. 35. f. and C.1.J
22	<b>Weekly Safety "Tool Box" Meeting Minutes</b> (must be CURRENT at the time of pay app submission and payment)		Weekly / Monthly	Bid Manual IV. B.
23	<b>JHA Reports</b> (Job Hazard Analysis Reports) (must be CURRENT at the time of pay app submission and payment)	H4	Monthly	Bid Manual IV. B.
24	<b>Monthly Disposal and Recycling Summary Report</b> (Waste Management Requirements) (Contractor) <b>CONSTRUCTION AND DEMO DEBRIS RECOVERY MONTHLY SUMMARY REPORT</b>	00 08 15 / APA - 1 and 00 08 15 / APA - 12	Monthly	Div 00 08 15 1.5 C 1 and 2
25	monthly with Pay App		Monthly	Div 01 74 00 1.8 A. B.
26	<b>DBE Trucking Verification</b> , due at end of month, need amount paid by DBE Trucking companies to all firms, including owner-operators, for leasing of trucks - DUE TO TJPA by Contractor on the 15th of the month to TJPA	Monthly DBE Trucking Verification Form	Monthly	Div 00 08 21/AT2 5 b. i. and ii.
27	<b>Up to date As-builts drawings</b> on site at all times		Monthly	Bid Manual IV. K. 1. a.
28	<b>Stored Materials Documentation</b>		Monthly	Div 00 07 00, 1.4.I
29	<b>Daily Sign In and Out Sheet</b> (must be CURRENT at the time of pay app submission and payment)	TJPA Daily Sign-in Sheet	Daily / Monthly	Div 00 07 00 57, Article 11, 11.04
30	<b>Daily Quality Control Reports</b> (must be CURRENT at time of pay app submission and payment)		Daily	Dic 00 14 00 1.12 and Exhibit J
31	<b>Trade Package Progress Schedule</b> update in electronic format (must be CURRENT at the time of pay app submission and payment)		Monthly	
32	<b>LEED Progress Reporting</b> with each pay app		Monthly	
33	<b>Updated Bidders / Proposers Information Request Form</b> - must be submitted whenever subcontractor information is updated, regardless of SBE participation	00 08 21/AT3-B	As-needed	Div 00 08 21 1.3E
34	<b>Conditional Waiver and Release Upon Progress Payment</b> - sub tiers and vendors	1034	Final	Exhibit C
35	<b>Unconditional Waiver and Release Upon Progress Payment</b> - sub tiers and vendors	1035	Final	Exhibit C
36	<b>Subcontractor Final Retention Invoice</b>	1031	Final	Exhibit G
37	<b>Schedule of Values Retention Release</b>	1031A	Final	Exhibit G
38	<b>Conditional Waiver and Release Upon Final Payment</b>	1036	Final	Exhibit C
39	<b>Unconditional Waiver and Release Upon Final Payment</b>	1037	Final	Exhibit C
40	<b>Conditional Waiver and Release Upon Final Payment</b> - sub tiers and vendors	1036	Final	Exhibit C
41	<b>Unconditional Waiver and Release Upon Final Payment</b> - sub tiers and vendors	1037	Final	Exhibit C
42	<b>Final</b> weekly electronic submission of <b>Certified Payroll</b> (must be CURRENT at the time of pay app submission and payment) including sub tiers		Final	Long Form Subcontract 4.2
43	One compact disk containing electronic files in .dwg format and pdf format and three (3) sets of accurate and complete As-built drawings - Complete As-builts are due upon completion. - prior to requesting final payment		Final	Bid Manual IV. K. 1. e and f.
44	<b>Operations and Maintenance Manuals</b> shall be submitted 12 months prior to start of commissioning and prior to requesting final payment		Final	Bid Manual IV. K. 1. f.
45	Evidence of final payment to Unions and Union Trust Funds, State Apprenticeship Programs (subs who are not signatory to unions)		Final	Long Form Subcontract 4.2

## Forms Checklist

\*\*This checklist is provided as a reference, but may not be a complete list. Refer to the Contract Documents for all required submissions and their frequency.

#	FORMS	FORM	FREQ	REF
	<b>Apprenticeship Trade Subcontractor Affidavit</b> - that the required number of apprentices were employed and/or records showing that the apprenticeship committee(s) either denied or failed to respond to a request for the dispatch of apprentices in accordance with Labor Code Section 1777.5		Final	Bid Manual, Exhibit Q
46			Final	Div 01 17 00 1.4 A 3. b.
47	<b>Warranties</b> must be submitted prior to requesting final payment		Final	Div 01 17 00 1.4 A 3. d.
48	Spare Parts and material extra stock		Final	Div 01 74 00 1.8 D.
49	<b>Final (Contractor) CONSTRUCTION AND DEMO DEBRIS RECOVERY SUMMARY REPORT</b>		Final	Bid Manual IV. A. 40. a. and Div 01 81 13 1.5 D.1-4
50	<b>Final LEED Final Reports and Documentation</b>		Final	
51	<b>Final Disposal and Recycling Summary Report</b> (Waste Management Requirements)	00 08 15 / APA - 1 and 00 08 15 / APA - 12	Final	Div 00 08 15 1.5 C 1 and 2



## Subcontractor Progress Billing Invoice

Send invoice to:

**EMAIL:** ap@webcor.com

**FAX:** (510) 748-3474

**MAIL:** 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

### Billing Information

Owner Pay App NO. \_\_\_\_\_

Vendor Number \_\_\_\_\_

Webcor/Obayashi Joint Venture  
Subcontract Number: \_\_\_\_\_

Webcor/Obayashi Joint Venture  
Job Number: 30100.XX

Job Name: Transbay Transit Center

**Pay App Number:** \_\_\_\_\_

**Invoice Number:** \_\_\_\_\_

**Invoice Date:** \_\_\_\_\_

**Sub Job Number:** \_\_\_\_\_

**Period From:** \_\_\_\_\_

**Period To:** \_\_\_\_\_

### Subcontractor Contact Information

Subcontractor Name: \_\_\_\_\_

Remittance Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Contact Email Address: \_\_\_\_\_

Contact Phone Number: \_\_\_\_\_

Contact Fax Number \_\_\_\_\_

Print Signer's Name and  
Title: \_\_\_\_\_

**Signature** \_\_\_\_\_

**Date Signed** \_\_\_\_\_

The following invoice covers work completed through the last day of

Original Contract Amount: \_\_\_\_\_ \$0.00

**Executed Change Orders (CO) though CO No:** \_\_\_\_\_ \$0.00

Total Revised Contract Amount: \_\_\_\_\_ \$0.00

Gross Amount Complete to Date % \_\_\_\_\_ \$0.00

Less Gross Amount Previously Invoiced: \_\_\_\_\_ \$0.00

Current Gross Billing Amount: \_\_\_\_\_ \$0.00

Less Current Retention: \_\_\_\_\_ \$0.00

Current Net Amount: \_\_\_\_\_ \$0.00

*Webcor/Obayashi Joint Venture Approvals below this line*

Schedule of Values

Sub:  
Sub No.:

Sub Application  
Number:  
Invoice Date:  
Webcor/Obayashi Joint Venture Job No: 30100.XX

Transbay Transit Center

Period From:  
Period To:

In tabulations below, amounts are stated to nearest dollar

Item No.	A		B	C	D	E		F	G	H	I	J
	CSI Division	Spec Section				Work Completed This Application In Place	Work Completed This Application Stored					
1												
2												
3												
4												
5												
6												
7												
8												
			Sub Total									
PCO #	CSI Division	SCO No.	Approved Change Orders									
			Total Change Orders									
			Grand Total									





## Subcontractor Final Retention Invoice

Send Invoice to:

EMAIL: ap@webcor.com

FAX: (510) 748-3474

MAIL: 1751 Harbor Bay Parkway, Suite 200 Alameda, CA 94502

### Billing Information

Vendor Number  
(W/O JV Use Only)

Invoice Number:

RETENTION:

Invoice Date:

Webcor/Obayashi JV

Subcontract Number:

Webcor/Obayashi JV

Job Number:

30100.XX

Job Name:

**Transbay Transit Center**

### Subcontractor Contact Information

Subcontractor Name:

Remittance Address:

City, State, Zip:

Contact Name:

Contact Email

Address:

Contact Phone

Number:

Contact Fax Number

Print Signer's Name

and Title:

Signature & Date

Date Signed

The following invoice covers work completed through the last date of \_\_\_\_\_ (Month), \_\_\_\_\_ (Year):

Contract Amount:

\$

-

Executed Change Orders Through Change Order NO: \_\_\_\_\_

\$

-

Total Revised Contract Amount:

\$

-

Gross Amount Complete to Date % (\_\_\_\_\_ %)

\$

-

Less: Total Net Amount Previously Billed:

\$

-

Total Amount Due:

\$

-

\*\*\*\*\*  
*For Webcor /Obayashi JV Use only*  
\*\*\*\*\*

Schedule of Values Retention Release

Sub:  
Sub No.:

Sub Application  
Number:  
Invoice Date:  
Webcor/Obayashi Joint Venture Job No: 30100.XX

Transbay Transit Center

Period From:  
Period To:

In tabulations below, amounts are stated to nearest dollar

A			B	C	D	E		F	G	H	I	J
Item No.	CSI Division	Spec Section	Description of Work	Scheduled Value	Previous Application	Work Completed This Application		Stored	Total To Date (C+D+E)	% (F/B)	Balance To Finish (B-F)	Retention To Date
						In Place						
1												
2												
3												
4												
5												
6												
7												
8												
			Sub Total									
PCO #	CSI Division	SCO No.	Approved Change Orders									
			Total Change Orders									
			Grand Total									

TRANSBAY JOINT POWERS AUTHORITY  
PROGRESS PAYMENT REPORT  
(WITH ADDITIONAL SBE COLUMNS)

To be completed by Trade Subcontractor and submitted to Project Manager with every monthly invoice.

PART 1: PROJECT SUMMARY

Contract Award Date:		TJPA Contract No.:		Contract Title:	
Trade Subcontractor:		Contact Person:		Contact Phone No.:	Contact Email:
Trade Subcontractor Address		Signature:			
Invoice Date:		Invoice No.:		For the Period:	

1. Award amount of Trade Subcontract	\$	-
2. Amount of Change Orders, Amendments and Modifications to Date	\$	-
3. Total Contract Amount to Date including Change Orders, Amendments and Modifications (Line 1 + Line 2)	\$	-
4. Total Amount for this Invoice (Less Retention)	\$	-
5. Total Previously Invoiced Awaiting Payment (Less Retention)	\$	-
6. Total Amount Paid to Date (not including Lines 4 and 5)	\$	-
7. Total Invoice Amount Requested to Date (Line 4 + Line 5 + Line 6)	\$	-
8. Total Retention to Date <sup>1</sup>	\$	-
9. Percent Complete ((Line 7 + Line 8) / Line 3)		0%

TRANSBAY JOINT POWERS AUTHORITY  
PROGRESS PAYMENT REPORT  
(WITH ADDITIONAL SBE COLUMNS)

PART 2: CONSULTANT/SUBCONSULTANT PAYMENT DETAIL SUMMARY

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Name of Firm (Including Prime, Subs, Vendors, and Joint Ventures) <sup>4</sup>	DBE or SBE (Y/N)	Portion of Work (%)	Contract Amount (\$)	Amount of Change Orders to Date (\$)	Total = Contract Amount + Change Orders (D+E) (\$)	Amount Invoiced This Period (\$)	Previously Invoiced Awaiting Payment (\$)	Total Amount Paid to Date (\$)	Total Retention to Date <sup>1</sup> (\$)	Percent Complete to Date ((G+H+I+J)/F) (%)	SBE Participation Type <sup>2</sup>	SBE Participation Percentage <sup>3</sup> (%)	SBE Participation Lump Sum <sup>3</sup> (\$)	SBE Total Contract Amount <sup>3</sup> ExM+N (\$)	Percent SBE Contract Amount (O/F) (%)	SBE Amount Paid to Date (\$)	Percent SBE Paid to Date (Q/I) (%)
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
					\$0.00					#DIV/0!				\$0.00	#DIV/0!		#DIV/0!
TOTAL		0	0	0	0	0	0	0	0	#DIV/0!	0	0	0	0	#DIV/0!	0	#DIV/0!

<sup>1</sup> As retention is requested and paid, move out of "Total Retention to Date" and into "Amount Paid to Date"

<sup>2</sup> SBE Participation Types: (Select 1 Only) SBE Prime Contractor, SBE Subcontractor, SBE Joint Venture Partner, SBE Regular Dealer Other SBEs, SBE Trucking Company (refer to TJPA Board Policy No. 015 Section IV)

<sup>3</sup> If SBE participation is Other SBE, SBE Joint Venture Partner or SBE Trucking Company enter lump sum participation in column N in lieu of column M (Refer to TJPA Policy No. 015 Section IV)

<sup>4</sup> If SBE Firm has multiple participation types each type should be listed as separate line item



# **TRANSBAY TRANSIT CENTER**

Site Specific Safety Program  
Revision 4

**March 27, 2012**

**WEBCOR/OBAYASHI JOINT VENTURE  
SAN FRANCISCO, CA**

**EXHIBIT H**

## Contents

WEBCOR/OBAYASHI JOINT VENTURE STATEMENT ON SAFETY .....	5
HEALTH AND SAFETY COMMUNICATIONS .....	6
Orientation .....	6
Click Safety Program .....	6
Project Requirements .....	6
Project Fees .....	6
ClickSafety Account Setup, User Registration and Implementation .....	6
Disclaimer .....	7
Project Supervisory Requirements .....	7
Project Safety Staffing Requirements .....	7
Jobsite Safety Observations/Audits .....	8
SafeSiteOne Safety Inspection Program .....	8
Pre-Task Planning/Job Hazard Analysis .....	9
General Job Hazard Analysis Guidelines .....	9
Incident Reporting/Root Cause Analysis .....	9
Safety and Health Training/Information .....	10
CODE OF SAFE CONDUCT AND WORK PRACTICES .....	11
General .....	11
Contractor Weekly Safety Meetings .....	11
Personal Protective Equipment .....	12
Contractor Parking .....	12
Job Vehicular Traffic and Material Deliveries .....	12
Temporary Offices .....	13
Fire Protection .....	13
Cleanup and Housekeeping .....	13
Drinking Water .....	13
Security Services .....	13
Noise Control .....	13
Combustible Material (Gas, Oil, Oxygen) .....	14
Ladders .....	14
Scaffolds .....	14
Fall Protection .....	14
Electrical .....	15
Lockout/Tag out Procedures .....	15

Floor Openings/Hole Cover Procedures .....	15
Safe Lifting .....	15
Powder Actuated Tools .....	15
Dismissal From Project .....	16
First Aid .....	16
Use of Tools and Equipment .....	16
Hazardous Material Handling .....	16
Hazardous Communications Program .....	17
Confined Space .....	17
Traffic Work Zone Signaling Requirements .....	17
Equipment .....	17
Excavation and Trenching .....	17
Respiratory Protection .....	18
Cranes, Hoisting and Rigging .....	19
HAZARD COMMUNICATION STANDARD POLICY .....	21
EMERGENCY MEDICAL PROCEDURES .....	23
Minor Injuries .....	23
Major Injuries .....	23
ACCIDENT / INJURY MANAGEMENT .....	24
Accident Reporting .....	24
Accident Investigation .....	24
Accident Analysis .....	25
RESPONSIBILITIES FOR SAFETY and LOSS CONTROL .....	25
Overview .....	25
Webcor/Obayashi Joint Venture Management Team .....	26
Subcontractor Responsibilities .....	31
Everyone's Responsibilities .....	34
SAFETY DISCIPLINARY POLICY .....	35
LADDER SAFETY RULES .....	36
GENERAL MATERIALS HANDLING SAFETY .....	38
FIRE PREVENTION PROGRAM .....	40
APPENDIXES .....	43
ASBESTOS ABATEMENT PROGRAM .....	43
LEAD ABATEMENT PROGRAM .....	48
INCIDENT REPORTING INSTRUCTIONS .....	50

INCIDENT INVESTIGATION REPORT FORM .....	51
INJURED WORKER STATEMENT .....	57
EMPLOYEE WITNESS STATEMENT .....	58
SUPERVISOR STATEMENT .....	59
RETURN TO WORK PROGRAM .....	60
RETURN TO WORK AGREEMENT .....	61
MODIFIED DUTY OFFER LETTER.....	62
ELEVATED WORK.....	63
RESPIRATORY PROTECTION PROGRAM.....	69
SILICA EXPOSURE PROGRAM .....	71
CONCRETE CODE OF SAFE PRACTICES .....	74
FORMS .....	83
MANAGEMENT INSPECTION REPORT .....	84
DAILY PROJECT INSPECTION .....	85
EQUIPMENT SAFETY INSPECTION CHECKLIST .....	86
JOB HAZARD ANALYSIS .....	87
WELDING / CUTTING “HOT WORK” PERMIT .....	88
HEAT ILLNESS PREVENTION POLICY .....	90



# WEBCOR/OBAYASHI JOINT VENTURE STATEMENT ON SAFETY

It is the policy of Webcor/Obayashi Joint Venture to provide employees a safe place to work. The personal safety and health of each employee of this company is of prime importance. The prevention of accidents and injury will be given precedence over operating productivity whenever necessary. To the greatest degree possible, management will provide facilities required for personal safety and health.

Our objective is a program that will reduce the number of injuries to a minimum and to surpass the best experience of other operations similar to ours. Our goal is zero accidents and injuries.

Our policy will be implemented as follows:

- Management will continue to develop policies and procedures that will assist in the control of personal injury, property losses, and fleet damage. Direct and indirect costs associated with these types of losses contribute unfavorably to operating expenses. These policies and procedures will be reviewed and updated as needed.
- Safety is the direct responsibility of all personnel. Safety is of prime importance to production and quality.
- Safety on the job in all company facilities and job sites is a priority. In no instance will safety become secondary to any other considerations. Any recognized safety activity or hazard will be corrected.
- It is mandatory that all personnel engaged in work on this project comply with all Federal, State and Local safety codes and regulations throughout the duration of their construction on this project.
- Each site will have a supervisor available to support the safety effort.
- Each supervisor and employee will be assigned various levels of safety responsibility and authority. All employees will be held accountable for the safety policy.
- An established system of communication, measurement, and documentation exists throughout the company.

A Safety Committee is in place to formulate and update the company safety program and policies. This committee operates under the supervision of management.

# HEALTH AND SAFETY COMMUNICATIONS

## Orientation

This training will contain required elements stipulated by Webcor/Obayashi Joint Venture code of safe work practices.

The Webcor/Obayashi Joint Venture site-specific safety orientation will be approximately one half (1/2) hour to 45 minutes in duration. The orientation includes a discussion on site protocol, evacuation procedures and a description of the logistics of the site. Subcontractors are required to provide other task specific orientations as needed.

## Click Safety Program

**Project:** Transbay Transit Center

Notification of Online Contractor Safety Training Initiative

Webcor/Obayashi Joint Venture and ClickSafety have partnered to create a web-based Contractor Safety orientation course for the Transbay Transit Center. All contractors requiring access to the Transbay Transit Center project must complete the Safety Passport orientation-training course online through ClickSafety. This course addresses site-specific safety expectations/requirements that you and your employees are expected to understand and comply with while working on the premises.

## Project Requirements

ClickSafety is the leading provider of web-based safety and risk management systems for the Construction Industry. ClickSafety will be providing the online training and tracking system used to deliver safety orientation. You will be required to have **ALL** your employees successfully complete the online **Safety Passport Orientation, Transbay project specific training** and the **Click Green Construction Practices** through the ClickSafety system prior to their arrival onsite. The average employee should take **30 minutes** to complete the Safety Passport and 15 minutes for Transbay project specific training and 10 minutes to complete Click Green Construction Practices. The course will be available in both English and Spanish.

## Project Fees

The fee structure for ClickSafety services is a ..... **\*\$100 annual fee per user.**

\*Prorate will apply to those that begin the training after Q1 of the current year.

***The prorate schedule is as follows:***

<i>January 1 – March 31</i>	<i>\$100</i>	<i>Valid January - December 2012</i>
<i>April 1 – June 30</i>	<i>\$75</i>	<i>Valid April 1 – December 2012</i>
<i>July 1 – September 30</i>	<i>\$50</i>	<i>Valid July 1 – December 2012</i>
<i>October 1 – December 31</i>	<i>\$25</i>	<i>Valid October 1 – December 2012</i>

## ClickSafety Account Setup, User Registration and Implementation

Step 1: Go to the project page – <http://www.clicksafety.com/safetypassport-transbay>

Step 2: Create a company account. **If you already have an account with ClickSafety, you will still need to register your existing account for this project.** Click on the ‘Company’ tab above the ‘User’

Step 1 on the home page, and then click on ‘**Register Company**’.

Step 3: Assign Safety Passport Core Orientation (annual training) along with site specific training.

Step 4: Prepay for employee training with a credit card and create an access code.

Step 5: Direct all employees to the project page to self-register with your access code and complete training prior to arrival at the jobsite.

For general information about this project or registration assistance, please contact:

**ClickSafety Support at (925) 855-SAFE (7233) ext. 629 - cshelp@clicksafety.com**

A ClickSafety representative is available to answer any of your questions about this program. The ClickSafety program administrator is: Christina Parkin, Account Manager, (925) 208-2618, Email: [cparkin@clicksafety.com](mailto:cparkin@clicksafety.com).

Should you have specific questions regarding the project or safety requirements, you may contact:

**Lindsay Miller**

Safety Engineer

Webcor/Obayashi Joint Venture

T 510-476-2589 C 650-288-8034

[Lindsay@webcor.com](mailto:Lindsay@webcor.com)

We appreciate your attention in this matter and look forward to a continuing and successful business relationship.

**Disclaimer**

ClickSafety and Webcor/Obayashi Joint Venture make this training material available with the understanding that users exercise their own skill and care with respect to its use. It is the duty of each employer as specified in the Occupational Safety and Health Act of 1970 (P.L. 91-596) to furnish to each of his employees employment and a place of employment which is free from recognized hazards that are causing or likely to cause death or serious physical harm to his employees and must comply with the applicable occupational safety and health standards adopted for his / her type of work. In addition, each employee must comply with occupational safety and health standards and all rules, regulations, and orders which are applicable to his or her own actions and conduct.

**Project Supervisory Requirements**

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project.

**Project Safety Staffing Requirements**

Every trade subcontractor shall employ full time Site Safety Representative (SSR) to coordinate project safety requirements. The SSR shall have at a minimum all the following qualifications:

The SSR must hold a current CHST certification and shall have attended the OSHA Standards for the Construction Industry (OSHA 510) training program.

The SSR shall have 3 years prior experience working in a like project or condition, and possess a current CPR /First Aid and AED certification.

A full time SSR is required up to 50 employees including tiered subcontractors, office and field staff/supervision. For each additional 50 employees, another SSR shall be required including tiered subcontractors. (I.e. at 151 employees there will be 3 SSR's and so on.) This applies to all shift work and

off hour or weekend work. The SSR shall have no other duties than full time safety. The Site Safety Representative (SSR) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense.

Every trade subcontractor shall employ full time Designated Safety Representative (DSR). The DSR shall have at a minimum all the following qualifications:

The DSR must hold a current OSHA 30 certification and shall have attended the OSHA Standards for the Construction Industry (OSHA 510) training program.

The DSR shall have 2 years prior experience working in a like project or condition, and possess a current CPR /First Aid and AED certification.

A full time DSR is required up to 25 employees including tiered subcontractors, office and field staff/supervision. For each additional 20 employees, another DSR shall be required including tiered subcontractors. (I.e. at 45 employees there will be 2 DSR's at 65 employees there will be 3 and so on.) This applies to all shift work and off hour or weekend work. The DSR shall have no other duties than full time safety. The designated safety representative (DSR) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense.

An SSR or DSR must be on site at all times work is in progress including day shift, off-hours shift work or weekend work. Each work zone must have a dedicated SSR or DSR at all times work is in progress including day shift, off-hours shift work or weekend work as needed.

### **Jobsite Safety Observations/Audits**

Webcor/Obayashi Joint Venture project management will perform jobsite safety observations/audits. Superintendents should perform documented daily safety audits. Project Managers and Project Engineers should perform documented weekly safety audits. SafeSiteOne should be used to document safety inspections

### **SafeSiteOne Safety Inspection Program**

**Daily safety inspections using SafeSiteOne are required for all Subcontractors performing labor at the jobsite.** SafeSiteOne is a Web-based safety software product that is used by Webcor/Obayashi Joint Venture to document, track and analyze daily job site safety performance. A version of the product has been designed to provide Webcor/Obayashi Joint Venture subcontractors with an easy to use feature set delivering new safety process efficiencies, safety performance tracking and a convenient, cost-effective means to comply with Webcor/Obayashi Joint Venture subcontractor safety documentation and reporting requirements. A job site safety inspection form and accident form are provided for subcontractors to document their own work area safety inspections and worker accident and injury information for automated distribution to Webcor/Obayashi Joint Venture eliminating the time and cost burdens of maintaining separate manual processes for documentation, reporting and data distribution. Accident and safety violation tracking tools in the way of data tables and charts displayed on an information Dashboard are provided for subcontractors to monitor their job site safety performance, identify and respond to trends and indicators and continuously improve their safety strategies. Using the product, subcontractors can view all job site safety violations to which they are assigned by Webcor/Obayashi Joint Venture during Webcor/Obayashi Joint Venture site safety inspections and be able to respond and track their closure. Subcontractors will be able to track their own safety records relative to the performance of all subcontractors on the job site providing an ongoing assessment and identifying accomplishments of their safety performance. ***Subcontractors shall include \$75.00 per month to cover the costs of the SafeSiteOne Product.***

Additional features, forms and product customizations can be made available to subcontractors by contacting MedicaOne directly at [info@medicaone.com](mailto:info@medicaone.com) or by calling (415)661-7587. More information is also available by visiting the SafeSiteOne Web site at [www.safesiteone.com](http://www.safesiteone.com).

### **Pre-Task Planning/Job Hazard Analysis**

Written, detailed Job Hazard Analysis is required prior to the start, *at a minimum*, for the following activities:

- Chemicals: hazardous & irritant
- Concrete: pre-cast, tilt up, vertical, form work
- Confined Space
- Hoisting/rigging activities: including cranes, derricks, forklifts, straddle buggies, etc.
- Demolition activities & hazardous materials assessment: asbestos, lead, biohazards or other chemicals in the workplace, as well as general demolition hazards assessment
- All framing activities (including drywall)
- Excavation & trenching
- Fall hazards: exposures 6+ feet, overhead work
- Material handling
- Non-routine activities: activities not performed in the last six months
- Public exposure: phased occupancy, partial demolition, traffic control, etc.
- Scaffolding
- Steel erection
- Start Up/Shut Down/System Testing activities: tool hook up, introduction of process chemicals into systems, utility tie ins, lockout/tag out, work on energized equipment

### **General Job Hazard Analysis Guidelines**

- JHA planning is to be led by the supervisor and documented in writing
- **Conducted daily prior to start of work for every task.**
- All crew members participate (at the job location) in JHA planning and should sign the completed plan
- Should include hazards and precautions identified in work activities
- Should be readily available at the work site (posted and/or placed where crew members have knowledge of its location at the work area)

JHA plans should be reviewed and revised whenever work conditions (or crew membership) change that may affect the ability to safely complete the work.

### **Incident Reporting/Root Cause Analysis**

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Sections 01 13 40 (1.5 A thru C) 01 15 45 (1.9 A thru C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

The TJPA Representative will in writing inform Contractor of any additional hazardous condition encountered. Trade Sub contractor shall respond indicating its action or disposition of the matter by returning an annotated copy of the written communication to the TJPA Representative within 3 days. If death or serious injuries or serious damages occur, the accident shall be reported at once by telephone or messenger to the TJPA as well as to the proper governing authorities. In addition, Contractor shall promptly report in writing to the TJPA all accidents whatsoever arising out of or in connection with the performance of the work whether on or adjacent to the site, giving full details and statements of witnesses. Within 3 days of occurrence, the Sub Trade contractor shall provide the TJPA with 2 copies of the Sub Trade contractor's accident and near-miss reports. A significant accident is defined to include events where personal injury is sustained or tangible property loss is sustained, or where the event posed a significant threat of loss or personal injury. If a claim is made by anyone against the any Trade Subcontractor on account of any accident, the Sub Trade contractor shall promptly report the facts in writing to the TJPA, giving full details of the claim. Contractor shall provide the TJPA Representative copies of any laboratory test data, and medical monitoring results for record and evaluation within 3 days of receipt of the above information or upon the request of the TJPA Representative.

All incidents and accidents shall be immediately reported to Webcor/Obayashi Joint Venture Project Management/Safety and fully investigated. Investigation and root cause analysis should be completed to identify the primary reason the incident occurred with an action plan developed to prevent recurrence. Incident Reporting and Root Cause Analysis guidelines are discussed further in the following Appendices.

### **Safety and Health Training/Information**

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Documentation and Reporting policy and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Section 01 15 45 (1.10A) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

The Trade Subcontractor shall maintain on-site all training records in accordance with federal, state, and local statutes, regulations, and policies, and provide copies of these records to the TJPA upon request.

New workers will be provided with initial training and/or orientation prior to assignment or when assigned to a new task for which training has not been received. Supervisors are expected to be knowledgeable and informed on hazards and safe work practices in their area of responsibility and to coordinate the disbursement of this information to crews. Training will include general area and specific assignment topics. Documentation of required training will be made available to Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint Venture safety upon request. Training, to include refresher training will be provided in accordance with Federal/State OSHA guidelines (Refer to Appendices for additional information on required training). Training may include, but not be limited to:

- Aerial/Boom Lifts;
- Asbestos awareness
- Confined Space Entry;
- CPR/First Aid;
- Electrical;

- Excavation & Trenching;
- Fall Protection;
- Fire Watch;
- Forklift;
- Hazard Communication;
- Hazardous Chemicals;
- Ladders;
- Lasers;
- Lead awareness
- Lockout/Tag out
- Powder Actuated Tools
- Respiratory Protection;
- Rigging
- Scaffolding: Use & Erection/Dismantle;
- Steel Erection;
- Job Hazard Analysis;
- Accident investigation training for Foremen & Superintendents;

## CODE OF SAFE CONDUCT AND WORK PRACTICES

The following Safety Procedures will be complied with on the Transbay Transit Center project. These Safety Procedures are in accordance with Webcor/Obayashi Joint Venture Safety Program and the division of Industrial Safety Cal/OSHA Construction Safety Orders.

### General

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Health and Safety Plan (HASP) and will be submitted to the Joint Transit Power Authority as they are received. All subcontractors must submit their Company's Project Safety Program to the Project Site Safety Manager prior to the start of their work.**

As a minimum, the subcontractor's Safety Program shall meet or exceed Webcor/Obayashi Joint Venture safety requirements, the applicable parts of the Webcor/Obayashi Joint Venture Corporate Safety Manual, the contract documents and federal, state, local or other applicable regulations.

Prior to Subcontractors arrival, measures to identify, monitor and control the worker and the general public from identified hazards shall be included in their safety plans. The Program shall be reviewed by the Site Safety Manager who may require, from time to time, additional written Safety Procedures as may be necessary to address the potential hazards of their operations.

### Contractor Weekly Safety Meetings

Subcontractors and tiered subcontractors are required to hold Weekly Safety "Tool Box" Meetings with their field crews. Submit copies of meetings including Safety subjects discussed and attendance, to the Webcor/Obayashi Joint Venture Site Safety Manager. Webcor/Obayashi Joint Venture will provide assistance and information to subcontractors and their sub-subcontractors as requested.

In addition, subcontractors and tiered subcontractors are to attend monthly or whenever determined by Webcor/Obayashi Joint Venture all hands safety meeting.

## **Personal Protective Equipment**

### **Hardhats**

All persons employed on this project are required to wear ANSI Z89.1-approved hardhats as a condition of employment. All visitors on the jobsite will be required to wear hardhats while on the project site. **Any person refusing to wear a hardhat will be immediately dismissed from the project site.** Metal hardhats and “Cowboy” hardhats are not allowed to be worn. 100% hardhats are required at all times while on the project.

### **Eye Protection**

The wearing of eye protection will be strictly enforced at all times. 100% safety glasses are required at all times while on the project.

### **Hand Protection**

**Hand protection must be worn 100% of the time on the project. Gloves must be worn in any situation where hand/finger exposure to hazards exist,** unless the manufacture of the equipment being used states gloves should not be worn.

### **Foot Protection and Clothing**

All personnel shall wear safety vests, work boots or acceptable work shoes while employed on this project and keep their footwear in good condition at all times. Long pants and shirts with “T-shirt-length sleeves shall be worn at all times. No sneakers, tennis shoes, soft-suede/canvas hiking boots, tank tops, etc., will be allowed. Foot covers must be used with jumping jack compactors and jackhammers.

### **Hearing Protection**

Each subcontractor shall provide and enforce the use of hearing protection for all workers exposed to noise levels as required by law.

## **Contractor Parking**

**There is no subcontractor onsite parking on the project. Subcontractors and sub-subcontractors in violation of this request will be towed at their expense without further notice. Because of the restricted nature of the project, this rule will be strictly enforced.**

### **Job Vehicular Traffic and Material Deliveries**

Only company-owned vehicles with signage are continuously required for the pursuit of subcontractor’s and sub-subcontractor’s work, and trucks delivering materials will be allowed access to the project site.

All construction vehicle traffic access will be coordinated by Webcor/Obayashi Joint Venture.

Subcontractors are reminded that continuous 2-way vehicular traffic must be maintained at all times for safe public accessibility unless posted otherwise. Two-way traffic control is to be provided by subcontractors prior to delivery vehicles entering the property.

Subcontractors are to notify Webcor/Obayashi Joint Venture 48 hours in advance for approval of material deliveries. Delivery vehicles will unload and depart the project site as soon as possible.

Material storage and layout must be approved by Webcor/Obayashi Joint Venture prior to delivery.



### **Temporary Offices**

Temporary offices will be constructed of fire-resistant materials only. Temporary office locations must be approved by Webcor/Obayashi Joint Venture prior to installation.

### **Fire Protection**

In case of a fire or explosion, notify Webcor/Obayashi Joint Venture immediately so that necessary emergency fire-fighting equipment can be routed to the jobsite. Emergency phone numbers will be posted in such a manner so as to be clearly visible. Each trade is responsible for providing fire extinguishers and a fire-watch program for their work as required in renovation and new construction areas.

Reference Webcor/Obayashi Joint Venture's Fire Prevention Program.

### **Cleanup and Housekeeping**

Subcontractors and sub-subcontractors shall leave the site clean and free of debris and hazardous materials by the end of each working day to the satisfaction of Webcor/Obayashi Joint Venture. Each subcontractor is responsible for removal of debris created by their work. Rubbish containers will be placed at a central location for the removal of trash and debris. Accumulation of trash and debris will not be tolerated. Webcor/Obayashi Joint Venture will perform necessary cleanup of same, at subcontractors' expense, upon failure to comply with cleanup notice request.

In addition to subcontractor's own efforts to maintain a clean work area, subcontractors shall provide Webcor/Obayashi Joint Venture with four man-hours of cleanup for every forty man-hours of work. The use of this composite crew will be directed by Webcor/Obayashi Joint Venture. For more details, reference Webcor/Obayashi Joint Venture's Project Bidding Manual section on composite crew project clean-up.

### **Drinking Water**

Subcontractors shall provide potable drinking water, cups, and trash receptacles for their employees, and all trash shall be removed from the site on a daily basis.

### **Security Services**

Subcontractors and sub-subcontractors shall be responsible for the security of toolboxes, onsite storage materials, etc.

### **Noise Control**

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project noise control plan and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Section 01 35 65 (1.2E) (1.8B), (1.8C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

Trade Subcontractors shall conduct noise inspections and noise testing of equipment to ensure that all equipment on the Site is in good condition and effectively muffled per manufacturer's recommendation. Noise control shall be maintained by the subcontractors in all areas of construction, guarding against undue noise. Playing of radios, including headsets, is prohibited.

All motor-drive equipment shall have a proper exhaust system, which shall meet Cal/OSHA Standards on noise levels. Subcontractors are to provide proper hearing protection to employees using chipping guns, jackhammers, rock drills, or similar devices.

### **Combustible Material (Gas, Oil, Oxygen)**

Separate storage areas for acetylene, oxygen, and gasoline will be established by Webcor/Obayashi Joint Venture. The contractor shall post proper warning signs. All gasoline will be in containers that will meet NFPA and Cal/OSHA requirements, and will be stored in designated areas only. All acetylene and oxygen bottles will be attached to a cart when in use, or tied off in a vertical position. All carts must be equipped with a fire extinguisher.

All stored oxygen and acetylene must be separated from each other, by a minimum of 20 feet or a fire-rated barrier, with bottle caps secured in place as required by Cal/OSHA.

### **Ladders**

Fall prevention shall be considered by the competent person if employees work from a ladder 6' or more above a lower level. Metal ladders shall not be used on Webcor/Obayashi Joint Venture projects. When ascending or descending a ladder, employees shall maintain a three-point contact and not carry anything that could cause them to fall. Pull ropes should be placed at all access ladders to lift tools or equipment from level to level. As a minimum, only type 1 or 1-A Heavy/Extra Heavy duty ladders, which carry a minimum of 275 lbs. to 300 lbs., will be allowed on Webcor/Obayashi Joint Venture projects.

### **Scaffolds**

All scaffolds will be constructed and maintained so as to meet all Safety requirements of Cal/OSHA and Webcor/Obayashi Joint Venture. Failure to maintain scaffolds in good condition will result in removal by Webcor/Obayashi Joint Venture. **All scaffolds must have top rails, mid rails, and toe boards at all platform levels.** All scaffolds are to be built under the supervision of a competent person. The person's name and their qualifications shall be submitted in writing to Webcor/Obayashi Joint Venture prior to the start of work. Daily pre-shift inspection checklists shall be performed by a competent person, maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture upon request.

100% fall protection is required at all heights above 6'. A competent person shall determine if it is feasible to use fall protection devices while erecting/dismantling a scaffold. Rolling scaffold wheels shall be locked when in use. A horizontal, diagonal brace shall be in place to prevent the scaffold from "wracking". Cross bracing shall not be used as a top or mid rail.

### **Fall Protection**

Webcor/Obayashi Joint Venture maintains a **zero tolerance policy** for fall protection infractions. Anyone found violating this policy may be removed from the site immediately.

Subcontractor employees are required to provide and use 100% fall protection systems whenever exposed to a fall 6' or greater, including any leading edge work. This can be accomplished through the use of a safety net system, personal fall arrest system or a guardrail system. **Webcor/Obayashi Joint Venture does not allow the use of a Safety Monitor System.**

Each subcontractor is responsible for providing perimeter tie-off protection for its employees. The building perimeter cable is placed as a guardrail protection, and is not provided for tie-off protection.

## **Electrical**

Ground Fault Circuit Interrupter (GFCI) protection is required for all electrical cords and tools. Each subcontractor shall provide GFCI-protected power strips for use in the building when permanent power has been energized and permanent outlets are placed in service. Each contractor will be responsible for providing and maintaining temporary GFCI's for his or her employees if a GFCI receptacle is not available.

## **Lockout/Tag out Procedures**

Subcontractors shall submit their written LOTO program and documented employee training prior to beginning work on site. The program must include scope of training, pre-planning and specific LOTO procedures. All individuals who are working in or around the hazardous energy shall place their own lock and tag on the disconnect of the energy source. At no time will someone be allowed to remove another employee's lock unless it has been cleared through Webcor/Obayashi Joint Venture competent supervision.

## **Floor Openings/Hole Cover Procedures**

Subcontractor competent person is responsible for identifying any floor opening/hole requiring to be protected. All floor openings/holes shall be covered/protected using appropriate materials. The covers must be able to withstand 2x the load and be secured to the floor and will be inspected daily by the subcontractor competent person. All floor/hole covers shall be clearly marked "Hole Do Not Remove" in a high visible color. All hole covers must be in compliance with OSHA's 29 CFR 1910.23 (a) – 1910.23 (e) 11.

The building perimeter, shafts, and floor openings shall be protected with guard rails and toe boards. Personnel working at a stationary position within 6'-0" of the building perimeter or the edge of a shaft or a floor opening will wear a full body harness and be tied off with an appropriate lifeline. Subcontractors and tiered sub-subcontractors shall not remove any guard rail or fall protection device without the express consent of, Webcor/Obayashi Joint Venture any employee noticed removing such protection without authorization will be removed from the project without recourse. Any area where guardrails and toe boards have been removed shall not be left unattended during a shift. In no case will any guardrail or toe board be left down at the end of a shift.

In locations where temporary protection conflicts with scheduled construction, the subcontractor or the sub-subcontractor shall notify Webcor/Obayashi Joint Venture in advance of the work of necessary modifications. The subcontractor or the sub-subcontractor shall remove the temporary protection and provide other appropriate temporary measures for the performance of their work.

## **Safe Lifting**

All personnel are to be instructed in the proper methods of lifting heavy objects. These instructions will be discussed at Safety and "Tool Box" Meetings.

## **Powder Actuated Tools**

Only low-velocity-type tools will be allowed on this project. Special permission from Webcor/Obayashi Joint Venture must be obtained before high-velocity types can be used, and then only if the job requires it. All personnel working with powder-actuated tools shall be properly instructed and licensed for operation of the tool and shall be in possession of current certification while using powder-actuated tools. Warning signs shall be posted in the work area where powder-actuated tools are in use.

## **Dismissal From Project**

### **THE FOLLOWING IS PROHIBITED AND THE INDIVIDUAL CAN BE SUBJECT TO DISMISSAL FROM THIS PROJECT SITE FOR VIOLATION:**

- Fighting and horseplay.
- Alcohol consumption or controlled-substance use on the site.
- Crowding or pushing while accessing work levels on ladders, scaffolds, etc.
- Throwing trash or any objects from the building.
- Using fire equipment (extinguishers, etc.) for other than its intended use.
- Destroying property or the work of other trades.
- Stealing.
- Gambling on the project site.
- Unsafe work habits.
- Persons using prescribed medication must notify his/her employer of such use prior to going to work or taking the medication.
- Working while your ability or alertness is so impaired by illness or fatigue or other causes that it might unnecessarily expose you or others to injury.
- Noncompliance of any Safety rules and regulations.
- Lewd or abusive language towards jobsite personnel, Owner's personnel, or any member of the public.

## **First Aid**

All subcontractors and tiered subcontractors are required to have a **CPR/First Aid certified persons and First Aid Kit** available at the jobsite with contents meeting the requirements of Cal/OSHA. Each subcontractor shall make arrangements for medical aid at a facility as provided through their insurance carrier.

## **Use of Tools and Equipment**

Each subcontractor is responsible to provide proper instructions for their employee's use of all tools and equipment.

When the use portable electric or pneumatic tools is needed, proper safety guards must be in place and operational. Power tool cord "whips" must meet NEC requirements. Air compressor hoses must be "clipped" together. Tools are not to be raised or lowered by their cords or air hoses.

## **Hazardous Material Handling**

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Material Handling plan and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Sections 01 13 50 (1.4B and C) and (1.8D) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

### **Hazardous Communications Program**

All subcontractors are to comply with Webcor/Obayashi Joint Venture's Hazard Communication Standard Policy. If you are allergic to cement or are susceptible to lime burns or skin disorders, notify your supervisor in order to make sure you are not assigned work with those substances. If you are allergic to or cannot use any other chemicals, notify your supervisor.

### **Confined Space**

No person shall enter a confined space such as manholes, underground vaults, tanks, pipes, tunnels, or other similar places until it is determined that it is Safe to enter the space by an approved method. Subcontractor competent person is responsible for identifying any potential confined space and shall initially determine if a permit required confined space exists. A pre-planning meeting must be held if a confined space exists and proper procedures followed to ensure worker safety.

### **Traffic Work Zone Signaling Requirements**

Due to general liability exposure created by improper traffic control, all flagging, training, lane closures, etc. shall conform to the most current edition of the Manual on Uniform Traffic Control Devices (MUTCD). Local permitting issues shall be addressed by Webcor/Obayashi Joint Venture prior to the start of work. All workers in the traffic control area must be trained according to local, state and federal requirements and wear the appropriate reflective vest or high visibility clothing. Stop/Slow paddles, not flags, must be used to control traffic flow.

### **Equipment**

Machinery and equipment shall be inspected and documented daily in addition operated by authorized, trained personnel only. All operated equipment shall have backup alarms in working order. Operators shall inspect each work area to make sure that it is Safe to operate the equipment in that area. Equipment shall not be serviced or repaired while it is in motion or running, unless there are appropriate Safeguards in place to prevent injury. Fuel-operated equipment, such as generators, air compressors, welders, etc., shall have a dedicated fire extinguisher near the equipment at all times when it is in operation. Fire extinguisher shall be rated 10 ABC, minimum.

### **Excavation and Trenching**

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Materials Handling plan and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Sections 00 07 00 (I), 00 08 14(1.2B), 00 08 14(1.4), 00 08 14(1.5B) and 01 35 65 (1.7C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

Pursuant to section 6705 of the California Labor Code, excavation for trenches 5 feet or more in depth shall not begin until Webcor/Obayashi Joint Venture has received acceptance from the TJPA of Webcor Obayashi's detailed plan for worker protection from the hazards of caving ground during excavation of such trenches. Webcor Obayashi's shoring plan shall be submitted in accordance with the requirements of the Specifications and shall show the details and supporting calculations of the design of shoring,

bracing, sloping, or other provisions to be made for worker protection during such excavation. No plan shall allow the use of shoring, sloping or other protective system less effective than that required by the Construction Safety Orders of the Division of Occupational Safety and Health. If Webcor/Obayashi Joint Venture shoring plan varies from the shoring system standards established by the Construction Safety Orders, the plan shall be prepared and sealed by an engineer retained by Webcor/Obayashi Joint Venture who is registered as a civil or structural engineer in the State of California. The TJPA's acceptance of Webcor/Obayashi Joint Venture shoring plan shall not be construed to relieve Webcor/Obayashi Joint Venture of its sole responsibility for damage or injuries related to the excavation resulting from unsafe shoring.

Currently Webcor/Obayashi Joint Venture does not anticipate based on the scope of work to have any excavations that will require special protection. In the event the situation does arise, The Trade Subcontractor will submit all appropriate documentation (protections, support systems, inspection process, access) preceding the activity.

The trade Subcontractor will comply with all requirements of federal OSHA, Cal/OSHA, the California Labor Code, Trade Subcontractor safety requirements, and these Contract Documents. The more stringent requirements shall apply.

Should Trade Subcontractors be notified by the TJPA of any unsafe or unhealthy condition associated with the performance of the Work and be required to take remedial action to correct such conditions, Trade Subcontractors shall take action immediately, if so directed, or within 48 hours after receipt of a notice of violation.

The health and safety plan shall be certified by Trade Sub Contractor's competent hazardous materials supervisor and submitted to the TJPA for review and comment prior to implementation.

Prior to commence of earthwork activities the Trade Subcontractor shall review the, SMP. Submit for approval a comprehensive and site specific HASP prepared by a certified industrial hygienist.

Daily, pre-shift inspection of excavations, the adjacent areas and protective systems shall be made by the competent person for evidence of potential cave-ins, hazardous atmospheres or protective system failure. Daily, pre-shift inspection checklists shall be maintained by the subcontractor and submitted to Webcor/Obayashi Joint Venture weekly.

No person shall enter an excavation where protection from ground movement is required until such protection is in place. **100% fall prevention is required when working next to excavations greater than 5' in depth.** Ladders or other means of approved access shall be used for all excavations. Stepladders shall not be used in a "leaning" position to enter or exit excavations.

### **Respiratory Protection**

- Conditions may exist which require the utilization of respiratory equipment to protect employees against exposure to the inhalation of toxic or harmful gasses, vapors, mists, fumes and dust. Each Contractor must implement and enforce a respiratory program in accordance with CAL/OSHA standards to protect employees from these types of exposures.
- Only respirators that are applicable and suitable for the purpose intended will be used. They will be selected on the basis of the hazards to which the employee is exposed.

- Employees required to use respiratory protective equipment approved for use in atmosphere immediately dangerous to life shall be thoroughly trained in the use and limitations of such equipment.
- Respiratory protective equipment will be inspected regularly and maintained in good condition. Chemical cartridges will be replaced per manufacturer's recommended or calculated filter change-out schedule so as to provide complete protection. Dust respirators are to be replaced in accordance with manufacturer specifications.
- Respiratory protective equipment, which has been previously used, shall be cleaned and disinfected before it is issued to another employee.
- Workers required to wear respiratory protection shall have been medically evaluated and approved to wear such devices. A copy of each of its worker's medical approval will be kept by each contractor on site.
- Employee Training (Respirators, Breathing Apparatus, etc.)
- All employees required to use personal protective equipment shall be given individual instruction by contractor regarding PPE prior to its use. This training shall be documented and a record kept on site.
- All employees must be clean-shaven to ensure the proper fitting of the respirator. Each contractor must perform fit testing on each employee to ensure the proper fit of the respirator. The results of the fit test shall be documented and a record kept on site.
- Each contractor must have a written respirator program and this program is to be submitted to the construction manager, General Contractor and Safety Coordinator prior to working at this site.

### **Cranes, Hoisting and Rigging**

- Introduction  
The safe operation and proper maintenance of cranes and rigging on the site shall be the overall responsibility of the contractor. Each contractor shall also be held accountable for compliance with CAL/OSHA crane regulations for all cranes or derricks on the site, whether contractor owned, leased or rented. All rigging inspection logs subcontractor and submitted to Webcor/Obayashi Joint Venture monthly.
- **Riggers shall meet the qualified rigger requirements of subpart CC – Cranes and Derricks in Construction, as specified in 29 CFR 1926.1401, 1926.1404, and 1926.1425. These provisions are effective November 8, 2010. The more stringent rule shall apply.**
- Special Provisions
- Prior to its initial use on the site or after repairs have been made each crane or derrick shall be thoroughly inspected by a certified independent third party. Any deficiencies found shall be corrected before the equipment is placed into service.
- A copy of the annual certification inspection performed by a certified independent third party shall be submitted to the Webcor/Obayashi Joint Venture Safety Manager prior to the crane being operated on site.
- Each contractor shall designate a competent person who shall inspect all cranes and derricks daily as part of the contractor's job site inspection program. Such inspections shall be documented. Defective equipment shall be removed from service and repaired and service/repair shall be documented.
- The contractor or vendor supplying the equipment shall inspect each crane at least monthly and provide a written report as to the results of the inspection. Defective equipment shall be removed from service.

- Loads shall not be passed or suspended over persons.
- Tag lines or guide ropes shall be used to control all loads.
- Barricades for employee safety shall be maintained around the swing radius of the crane cab.
- Crane Operator Qualifications
- Each contractor shall as specified in 29 CFR 1926.1427. State or local government
- licensing is effective November 8, 2010 select only those personnel meeting the following qualifications to operate cranes and other hoisting equipment:
- Designated operators who have been licensed by an approved agency or union and meet the requirements of Chapter 5, ANSI B30.
- Crane operators will meet the minimum requirements by the D.O.T. Physical Examination, as provided in D.O.T. 391, Physical Examination for truck drivers. No crane operator will be allowed to operate a crane until they have passed the Physical Exam conducted by a licensed Physician approved by the D.O.T.
- Coordinators certified for crane inspection;
- Test and maintenance personnel when necessary.
- Only designated operators who have been licensed by an approved agency or union and meet the requirements shall be in, or on, the crane during operations.
- Operator's Responsibilities
- Each crane operator will be specifically assigned the responsibility for safe operations and shall be given written instructions as applicable. These responsibilities shall include:
- Verification of a current "annual inspection" certification for the crane.
- Verification that manufacturer's rated load capacities, recommended operating speeds, and special warnings or instructions are posted on the crane and are visible from the operator's station.
- Daily inspection of:
- Condition of brakes under no-load conditions
- Functioning of various safety devices and limiting devices fitted to the hoisting apparatus
- The electric power installation
- The overload controls
- Condition of structural members for cracks, bends, misalignment, etc.
- Fire extinguisher in cab
- Assuring that routine maintenance is performed, as well as necessary repairs.
- Responsibility for assuring that signaling and communications are adequate. This includes making sure that personnel at materials loading and receiving areas use correct hand signals. Where conditions require, radio communications will be used with a clear channel for crane operations.
- Refusing to lift any loads that are not safely rigged. This refusal cannot be overridden by job supervisory personnel.
- Making sure that adequate clearances exist between operating areas and nearby structures, especially power lines.
- Each crane operator shall ensure that good housekeeping is maintained in his or her equipment.
- Operating Procedures
- Each contractor shall ensure that its crane operators:
- Not engage in any practice, which may divert his attention while engaged in crane operations.
- Not operate the crane if physically or mentally unfit, or if taking prescription drugs, which may affect judgment.
- Not respond to any signal, which is unclear or is given by anyone other than appointed signalmen.  
Exception: The operator shall respond to a stop signal given by anyone.



- Have final responsibility and control over the crane operations. When there is any doubt as to safety, the operator shall have the authority to stop and refuse to handle the loads until safety has been assured. Any manager, supervisor or person attempting to bypass the crane operator's authority on this issue will be immediately removed from the project.
- Shall be intimately familiar and have thorough knowledge of the crane and its care, the operators' manual, and load charts. He shall be responsible for notifying its supervisor of any needed adjustments or repairs, and for logging his findings in the crane log.
- Shall, upon request, demonstrate his ability to determine total load weight and its relationship to the crane load charts.
- Immediately shut down the crane if any part of the crane, rigging or load strikes any object. The crane will be re-inspected by a qualified person, and if damage is detected, all repairs shall be completed under the guidelines of the manufacturer. The crane must then be re-inspected by a third party agency prior to beginning operations again.
- Never leave the controls while there is a load on the hook.
- Stop the crane operation if there are any problems and notify the Safety Coordinator.
- Contractor Responsibilities
- Making sure that rigging equipment is in good condition and provided with safety devices as applicable. This includes such things as:
  - Safety latches on hoisting hooks.
  - Chains, wire rope, slings, etc. are free from defects and conform with standard load ratings for work being done.
  - Eye splices conform to safety standards.
- Employee Training
- Each contractor shall ensure that all of its employees involved in crane activities receive comprehensive training as to their responsibilities. This training shall include hand signals and those authorized to give signals. Said training shall be documented.
- Hoisting and Rigging
- Documented inspections of hoisting and rigging equipment shall be conducted by a competent person before their use to ensure that it is in safe operating condition and that lifts will be conducted in a safe manner.
- Damaged or defective equipment shall be removed from service and removed from the project site.
- Accessible areas within the swing radius of the rotating superstructure shall be properly barricaded to prevent employees from being struck or crushed by the crane.
- Lifts shall not be conducted over employees, visitors, or areas occupied by the public.
- The crane operator shall be responsible for determining the safe operation of their crane and the safety of each lift.
- Routes of suspended loads shall be preplanned to ensure no workers or the public are directly below suspended loads.
- Tag lines shall be used for controlling all loads.

## HAZARD COMMUNICATION STANDARD POLICY

**This Webcor/Obayashi Joint Venture project plan will be developed incrementally as trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of Webcor /Obayashi's overall project Hazardous Material Communication plan and will be submitted to the Joint Transit Power Authority as they are received.**

**This Section will conform to Specification Sections 01 15 45 (1.2A1, 1.2A2),(1.13D),(1.4A), (1.4C) found in The Transbay Transit Center Contract Number 08-04-CMGC-000**

Trade Sub contractors shall submit the following in accordance with this Contract specification:

A HASP. Upon approval of the HASP, Contractor shall provide 2 copies on compact disc in Portable Document Format with properly labeled cases. MSDS (Materials Safety Data Sheet) for all chemicals and other hazardous materials to be used. This submittal is only as warranted. Trade Sub contractor's site-specific HASP. Trade Sub contractors shall submit a site-specific environmental HASP in accordance with these specifications and 29 CFR 1910.120, 8 CCR 5192. The HASP shall remain in effect throughout the life of the Contract, and a copy of the HASP must be on site at all times.

Trade Sub contractors shall submit 5 copies of the HASP at least 10 working days before any demolition or any building materials-disturbing activity, and no later than 30 days after the Notice to precede for each Trade Subcontract package. The TJPA will not review the HASP for its content, nor will the TJPA be liable for Contractor's failure to have an adequate HASP or implement it. Receipt of the HASP by the TJPA neither constitutes the legality of the HASP nor incurs liability with Trade Sub contractor.

- Each subcontractor is to submit a copy of its written Hazard Communication Program to the Webcor/Obayashi Joint Venture jobsite. An initial hazardous material/chemical listing for this specific jobsite must accompany the Program.
- All subcontractors are required to maintain MSDSs on the project.
- A complete file of all MSDSs submitted is to be located at the jobsite office for review by all workers during job hours (Webcor/Obayashi Joint Venture Subcontractors, and Sub-subcontractor/Suppliers).
- Noncompliance with this portion of the Webcor/Obayashi Joint Venture Safety Policy will be written up as a Safety violation and may result in a Safety fine and/or nonpayment to the subcontractor(s).
- Webcor/Obayashi Joint Venture is only required to train its employees to comply and observe the policy. It is the responsibility of each subcontractor and each sub-subcontractor to train his employees in the implementation and use of the Hazard Communication Policy.
- Each subcontractor will discuss each new substance introduced on the jobsite at the weekly Safety meetings with his crews and the Superintendents of other subcontractors at the Project Safety Meeting.
- Each subcontractor must label the contents of all containers including secondary containers. The label must identify:
  - Substance
  - Hazard Warnings
  - Name and address of the manufacturer
- Each subcontractor must:
  - Train his personnel regarding Hazardous Communications, and specifically as to the dangers of working with these substances, chemicals, materials. Keep copies of training certificates at jobsite.
  - Provide proper personnel protective equipment, as required.
  - Train employees in the first-aid and medical emergency procedures associated with each material.
  - Keep copies of all MSDSs at the jobsite.
- Bulk fuel storage is not allowed onsite.

## EMERGENCY MEDICAL PROCEDURES

The purpose of this program is to establish standard jobsite procedures for reporting accidents, administering first aid, and emergency medical procedures.

Each subcontractor and sub-subcontractor shall maintain a Cal/OSHA-approved First Aid Kit on the Project at all times. Each subcontractor shall designate an employee qualified in first-aid treatment as their Safety Coordinator. It shall be the Safety Coordinator's responsibility to treat minor injuries and complete and submit required accident reports to Webcor/Obayashi Joint Venture.

### **Minor Injuries**

Minor injuries are those which require only immediate first-aid treatment and do not result in lost work time.

In the event of a minor injury, the subcontractor's Safety Coordinator shall provide first aid and/or take the injured employee to the designated medical center or clinic for treatment and checkup if necessary.

Persons who have sustained head injuries, major impacts, or whose injuries are the result of a fall shall be evaluated and stabilized by professional medical personnel and provided transportation to the medical facility by the subcontractor or EMT.

Upon return from treatment, the employee shall return to work ONLY if so released in writing by the attending physician.

All minor accidents shall be a topic of discussion at the subcontractor's next scheduled Safety Meeting, to include cause of accident and preventive measures to be taken to avoid future similar accidents.

### **Major Injuries**

Major injuries or illness are those which require extended medical treatment with hospitalization for more than 24 hours resulting in loss of work time, or result in death, disfigurement, or dismemberment.

In the event of a major injury, the first person to encounter the injuries shall summon others to notify the Webcor/Obayashi Joint Venture Field staff and provide the appropriate first-aid treatment if qualified. Any subcontractor or sub-subcontractor may dial 911 to request medical assistance. Emergency vehicles shall be directed to enter the Project at site entrance that will be determined as conditions change on the logistic map.

Upon entering the project, the emergency vehicle shall be directed to the exact location of the injured.

While awaiting arrival of the Emergency Vehicle(s), the injured shall not be moved unless he/she is in immediate danger of additional injury in his/her current location. Equipment and material involved in or responsible for the accident shall not be disturbed unless it presents an additional danger to the injured person(s).

The closest Emergency Medical Facility is:

**St. Francis Health Center  
24 Willie Mays Plaza  
San Francisco, CA 94107-2134  
(415) 972-2249**

Immediately after the accident, Webcor/Obayashi Joint Venture will meet with the responsible subcontractor's Superintendent and/or Foremen, review the conditions, and direct the appropriate corrective action. The subcontractor's Safety Coordinator shall complete and submit a copy of all required reports to Webcor/Obayashi Joint Venture.

Within 24 hours of a major injury, Webcor/Obayashi Joint Venture shall conduct a Safety Meeting with attendance required of all jobsite personnel. Topics to include: cause of accident, nature of injury, immediate prognosis for full recovery from injury (if available), and preventive measures to be taken to avoid future similar accidents.

## **ACCIDENT / INJURY MANAGEMENT**

### **Accident Reporting**

All on-site accidents must be reported to Webcor/Obayashi Joint Venture Project Management immediately. All accidents resulting in industrial injuries or illnesses occurring on the jobsite will be thoroughly investigated. The investigation will be conducted by the controlling employer's Project Management, supervisor and Safety Coordinator, under the direction of Webcor/Obayashi Joint Venture Project Management. This includes accidents, injuries and illnesses of workers whether the injury resulted in medical treatment; no claim was filed, or is a non-industrial injury. Completion of appropriate forms, as defined in the Incident Reporting Appendix must be completed immediately after occurrence.

### **Accident Investigation**

The initial accident investigation is to be completed within 24 hours, with immediate notification of Webcor/Obayashi Joint Venture safety (refer to Incident Reporting Appendix). Identification and review process of root causes must be completed. Corrective actions, identification of persons responsible for corrective actions, and date of completion must be established. Follow up documentation verifying corrective action completion is required. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

Investigation reports of accidents or injuries requiring medical treatment must include medical treatment forms and completed first report or injury forms.

This project requires that an Incident Investigation form be completed for all on-the-job accidents. The form is contained with the Incident Reporting Appendix. This form must be completed as soon as possible (limit - within 1 working day) after occurrence of any injury that results in medical treatment or property damage. After completion, the form must be returned to Webcor/Obayashi Joint Venture Project Management/Safety for corrective action and processing.

Copies of all accident investigation documentation must be submitted to the Webcor/Obayashi Joint Venture Regional Safety Director. If required by law, injury notification to OSHA must be coordinated through the Webcor/Obayashi Joint Venture Regional Safety Director and the Corporate Safety Director.

## **Accident Analysis**

Webcor/Obayashi Joint Venture provides a safe and healthful work environment for all workers through progressive, proactive injury prevention planning. Job pre-planning and identification of up-coming potentially hazardous activities is supported by regular review of trend analysis.

To identify root causes of accidents and at-risk behavior Webcor/Obayashi Joint Venture and subcontractor management will be required to, within 48 hours of the incident, conduct a “lesson learned” meeting. The meeting will analyze any injury accidents, environmental incident, or impact to existing facilities and operations. Accident trends will be identified and plans developed to prevent additional incidents. A complete Root Cause Analysis will be performed involving at least the Webcor/Obayashi Joint Venture and Subcontractor Project Teams. The mission of these meetings will be to identify problem areas, develop specific action plan(s) to address root causes and at-risk behaviors, and to immediately implement corrective actions. Webcor/Obayashi Joint Venture will periodically review implemented plans for effectiveness. Lessons learned from root cause analysis reviews will be shared with the project, regionally and globally.

## **RESPONSIBILITIES FOR SAFETY and LOSS CONTROL**

### **Overview**

The objective of this project safety overview (PSO) is to establish that safety and health must be addressed throughout the entire project. The prevention of accidents and protection of property are company values and are integral to our success. All safety issues shall receive active support and participation by the entire project team.

The principles of safety and loss control are intended to prevent injuries on the jobsite and to reduce the potential for damage to property and equipment. No phase of construction is of greater importance than incident prevention. Accidents that result in personal injury or damage to property and equipment represent needless waste and loss.

Planning for safety starts with project design and continues through purchasing, fabrication and construction in all phases of the project. Practical steps will be taken to maintain an Injury Free Environment. All subcontractors must accept responsibility for preventing accidents and be responsible for thorough safety and loss control training and instruction for their workers.

The primary objective of the Webcor/Obayashi Joint Venture PSO is to coordinate the elimination or reduction of risk associated with the construction of the project. Associated missions are to promote safe work practices/behaviors, prevent accidents, prevent worker injuries, prevent damage to property, and promote maximum efficiency and effect savings by reducing unplanned business interruptions.

Active participation by the management of Webcor/Obayashi Joint Venture, subcontractors, tiered subcontractors and all workers will make the program effective and successful by coordinating the participants' efforts in performing the following tasks:

Providing a safe environment in which workers can perform high quality work.

Using job hazard analysis pre-task safety planning as a tool to reduce injury to persons and property.

Conduct jobsite safety audits to locate and abate unsafe work practices/behaviors and unsafe conditions.

Protecting the public and property potentially affected by Webcor/Obayashi Joint Venture sites.

Educating and training workers through:

- **New hire/site specific safety orientation**
- **Safety meetings**
- **Task specific safety training; i.e., hazardous communications (HAZCOM), construction safety practices, excavation and trenching safety, confined space entry, equipment operations, etc.**
- **Mandatory personal protective equipment (PPE) programs**
- **Immediate injury reporting and effective record keeping to maintain an up-to-date accident experience and trends analysis**
- **Use of accident investigation information to abate deficiencies and eliminate any additional losses**

### **Webcor/Obayashi Joint Venture Management Team**

Webcor/Obayashi Joint Venture Management Team is responsible for construction management services for the Transbay Transit Center and for:

- Encouraging, reinforcing and modeling Webcor/Obayashi Joint Venture culture, including Injury Free Environment initiatives
- Participating in the development and assessment of EH&S leading indicators
- Reviewing and approving project corrective action/recovery plans.
- Instituting accountability when action plans and culture are not maintained
- Has the authority to stop any operations that pose a potential threat

### **Webcor/Obayashi Joint Venture Project Manager (Richard Gangitano)**

The Webcor/Obayashi Joint Venture Project Manager is responsible for construction management services for the Transbay Transit Center and for:

- Determining if contract documents and specifications support the project's safety missions and objectives
- Monitoring subcontractor selection process and adherence to established guidelines
- Periodically auditing subcontractor's safety plans for compliance with the Webcor/Obayashi Joint Venture 's EHSP
- Participating in pre-task planning and subcontractor pre-construction safety meetings
- Being aware of loss control and public protection requirements of the project
- Participating in fact finding, root cause analysis, and the implementation of corrective actions associated with injury/incident investigations
- Documenting weekly jobsite safety audits
- Facilitating monthly craft feedback luncheon
- Supporting Webcor/Obayashi Joint Venture EHS personnel and cooperating with all designated personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting our Injury Free culture

### **Webcor/Obayashi Joint Venture Project Superintendents (Michael Poole)**

It is the responsibility of Webcor/Obayashi Joint Venture Superintendents to oversee safety on jobsite. Their EHS responsibilities include:

- Overseeing the planning and execution of all work in compliance with the Webcor/Obayashi Joint Venture EHSP and contract specifications
- Being aware of loss control and public protection requirements identified in the safety specifications of the contract documents
- Completing daily jobsite safety audits and reviewing completed jobsite safety audits to ensure identified hazards are addressed in a timely manner
- Participating in pre-task planning, and subcontractor pre-bid, pre-construction and/or kick-off meetings
- Monitoring and participating in job hazard analysis and pre-task planning
- Requiring supervisors and workers to use personal protective equipment in accordance with the Webcor/Obayashi Joint Venture EHSP and local, state and federal safety regulations
- Participating in fact finding, root cause analysis and the implementation of corrective actions associated with injury/incident investigations
- Ensuring Injury Accident Investigation Packets are accurately completed and forwarded to designated individuals
- Participating in and encouraging weekly tool box/tailgate safety meetings, and evaluating their effectiveness
- Taking appropriate action to abate identified unsafe conditions and practices and document corrective actions.
- Supporting Webcor/Obayashi Joint Venture EHS, and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP
- Has the authority to stop any operations that pose a potential threat
- Promoting and supporting Injury Free culture

### **Webcor/Obayashi Joint Venture Project EHS Manager (Raymond Ramirez)**

The Webcor/Obayashi Joint Venture Project EHS Manager has authority for safety and health on the project. The Webcor/Obayashi Joint Venture EHS Professional is considered to be the program administrator and has the authority delegated by Webcor/Obayashi Joint Venture Corporate EHS to implement and promote safety. Duties of Webcor/Obayashi Joint Venture Project EHS Manager include:

- Helping to familiarize Webcor/Obayashi Joint Venture and subcontractor project managers, superintendents and supervisors with the Webcor/Obayashi Joint Venture EHSP. These individuals must be familiar with safety and health hazards to which all workers may be exposed, as well as applicable laws, regulations and safety rules and policies.
- Supporting project management in achieving an injury, incident and impact free environment.
- Help assure that all workers are trained in accordance with applicable requirements

- Helping to ensure that observation, inspection, recognition, evaluation and abatement of hazards are conducted on a continuing basis
- Continually developing new methods for abating hazards
- Helping to ensure that hazards are abated in a timely and effective manner
- Reporting all injuries immediately to Webcor/Obayashi Joint Venture Project Management. Webcor/Obayashi Joint Venture EHS also has the responsibility for overseeing development, implementation and maintenance of the project's safety program by:
- **Requiring subcontractors to incorporate the requirements of the Webcor/Obayashi Joint Venture's EHS Plan into their safety programs and safety orientation if theirs are less protective than those of. Webcor/Obayashi Joint Venture.**
- **Expediting corrective action(s) to abate any observed or potential safety exposure(s) to workers.**
- **Requiring Webcor/Obayashi Joint Venture Project Management and Safety Coordinators to continuously monitor Webcor/Obayashi Joint Venture and the subcontractor's safety performance and expedite abatement action(s).**
- **Overseeing the implementation of emergency response procedures, and helping to assure that Webcor/Obayashi Joint Venture and subcontractor's personnel are trained to handle onsite emergencies.**
- **Setting project missions and milestones and reporting indicators for all project personnel.**

Webcor/Obayashi Joint Venture EHS is further responsible for monitoring the subcontractor's compliance with the Webcor/Obayashi Joint Venture EHSP. Webcor/Obayashi Joint Venture EHS must help ensure that the guidelines, rules and procedures in this document are followed for site work, being familiar with local emergency services and conducting or taking the necessary steps to help ensure that tool box/tailgate safety meetings are conducted before work startup. Additional meetings may be required for specific job tasks or site activities. Webcor/Obayashi Joint Venture EHS also must help monitor the maintenance and inspection of PPE, onsite hazards, the physical condition of site personnel, and perform daily safety audits of work site activities.

Additional duties include maintaining safety files, which will include training and applicable medical certifications, environmental testing and special associated training, tool box/tailgate meeting notes and rosters, safety observation/audit reports, investigation reports including near-misses, injury summaries, required safety permits, security issues, or other safety and health documentation, as applicable. Webcor/Obayashi Joint Venture EHS has the authority to stop any operations that pose a potential threat to site personnel.

Furthermore, Webcor/Obayashi Joint Venture EHS will:

Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge. Webcor/Obayashi Joint Venture requires prompt correction of safety infractions.



Help monitor the subcontractor selection process and adherence to established environmental safety and health guidelines

If the subcontractor does not make immediate corrections after initial notification, Webcor/Obayashi Joint Venture EHS will:

- **Notify the subcontractor's Project Management in writing to make prompt corrective action to help eliminate construction safety concerns.**
- **Forward copies of the written notice to Webcor/Obayashi Joint Venture Project Management**
- **Develop the direction to help resolve outstanding construction safety issues and maintain documentation of corrective actions**

Help ensure that the proper steps are taken in the case of emergencies when a major event resulting in a fatality, multiple injuries, or property loss occurs. Webcor/Obayashi Joint Venture EHS is responsible for requiring that we preserve the accident scene in an "as is" condition, including any construction equipment involved, to allow for a proper investigation. Webcor/Obayashi Joint Venture EHS must order, if necessary, the area or piece of equipment to be stabilized to preclude further injuries or loss.

Notify Webcor/Obayashi Joint Venture Project Manager should we be subjected to an OSHA (federal or state) inspection. Should citations, warnings or safety violations be issued, we copies to Webcor/Obayashi Joint Venture Corporate EHS manager within 48 hours.

**NOTE:** Webcor/Obayashi Joint Venture EHS manager may assign all or some of these tasks to other responsible persons as appropriate.

#### **Webcor/Obayashi Joint Venture Project Engineer (David Fields)**

The Webcor/Obayashi Joint Venture Project Engineer assists the Webcor/Obayashi Joint Venture Project Manager with his/her responsibilities for construction management services for the project. This person will:

- Complete weekly jobsite safety audits
- Participate in pre-task planning, and subcontractor pre-bid, pre-construction, and/or kick-off meetings
- Assist with jobsite safety startup, safety orientations, and craft feedback luncheons
- Participate in fact finding, root cause analysis, and implementing corrective actions to prevent further occurrences on all injury/incident investigations
- Attend and/or participate in jobsite safety meetings

#### **Webcor/Obayashi Joint Venture Supervisor/ Foremen (Michael Poole)**

The Webcor/Obayashi Joint Venture Supervisor/Foreman will interface daily with his/her workers. Therefore, the Webcor/Obayashi Joint Venture Supervisor/Foreman will have a major influence on the effectiveness of the safety program and accident experience. Each Supervisor/Foreman's construction safety responsibilities will include:

- Training and instructing workers in safe work practices for all tasks to which they are assigned

- Helping ensure crew participation in pre-task planning
- Helping ensuring availability of and enforce the proper use of jobsite tools and PPE
- Monitoring the work area for unsafe acts and conditions and instituting immediate corrective action
- Setting a good example for workers
- Pre-planning activities to help ensure workers are properly trained in applicable safety requirements
- Conducting daily pre-job meetings to include review of day's activities and associated hazards
- Ensuring all injury reports are properly completed and submitted to Webcor/Obayashi Joint Venture EHS or designee
- Participating in fact finding, root cause analysis, and the implementation of corrective actions associated with injury/incident investigations, and providing information regarding these actions to Webcor/Obayashi Joint Venture Project Management/Regional Leadership
- Reporting and assisting with the resolution of near miss incidents
- Helping provide first aid care for injured workers
- Promoting and supporting Injury Free culture
- Leading tool box/tailgate safety meetings with the crew to:
- **Encourage participation**
- **Discuss observed accident trends and causes**
- **Plan construction safety into crew's work activities**
- **Take action to correct safety-related concerns**

#### **Webcor/Obayashi Joint Venture Project Safety Coordinator (TBD)**

The Webcor/Obayashi Joint Venture Safety Coordinator's primary responsibility is to ensure immediate corrective action of observed unsafe acts and unsafe conditions. This person will:

- Report unsafe acts and conditions to the worker's supervisor and/or safety coordinator for prompt corrective action and stop all life threatening situations immediately upon knowledge
- Orientate all new Webcor/Obayashi Joint Venture workers according to the Project Site-Specific Safety Orientation
- Make twice daily job site safety audits
- Facilitate daily safety coordination meetings with subcontractor safety coordinators (as applicable)
- Provide appropriate materials and conduct weekly tool box/tailgate meetings or safety meetings, as well as:
- **Review meeting reports for attendance**
- **Help implement required training programs for workers**
- Report, in writing to the project EHS manager the names of individuals and their supervisors who are continually observed to violate construction safety requirements, with copies to Webcor/Obayashi Joint Venture Project Management. Webcor/Obayashi Joint Venture Project Management may require that we remove these individuals and/or their supervisors from the job

site. Also, Webcor/Obayashi Joint Venture Project Management and/or Webcor/Obayashi Joint Venture EHS is/are authorized to order a work stoppage until present unsafe conditions are abated.

- Report all injuries immediately to Webcor/Obayashi Joint Venture EHS Manager.
- Participate in fact finding, root cause analysis, and resolution on all injury/incident investigations
- Participate in completion and forwarding of all Injury Accident Investigation Packets (injury, liability, property damage, and the like) to Webcor/Obayashi Joint Venture Claims Manager.
- **Promote and support Injury Free culture.**
- **Keep on file the following:**
- **Updated chemical management plan, including chemical inventory lists and Material Safety Data Sheets (MSDSs) for all products used or stored onsite**

### **Subcontractor Responsibilities**

The subcontractor has overall responsibility for accident prevention and implementation of this Webcor/Obayashi Joint Venture EHSP for anyone under their control, including their respective employees, vendors and suppliers. This responsibility is shared with the tiered subcontractors. .

Where subcontractor is not using Safety Professional(s)/Safety Coordinator(s) the subcontractor will assign safety responsibilities to a member of subcontractor Project Management. This assignment is subject to approval by Webcor/Obayashi Joint Venture Management and Webcor/Obayashi Joint Venture EHS, or designee. The DSP shall be knowledgeable in occupational health and safety requirements and shall have attended the OSHA 30 hour training program as a minimum requirement and possess a current CPR /First Aid and AED certification.

Subcontractors will submit a copy of their company's safety program prior to beginning work. All subcontractor workers must be orientated to their company's safety program as well as to applicable sections of this Webcor/Obayashi Joint Venture EHSP.

The subcontractor may be responsible for providing their Safety Professional(s)/Safety Coordinator(s) or designee with a reliable communication method or device in order to contact Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS during emergency response and/or other safety related communications.

Although many existing hazards may be corrected through informal communications between the subcontractor's Safety Professional/Safety coordinator or designee and members of Webcor/Obayashi Joint Venture Project Management, all corrective actions must be documented, with copies forwarded to Webcor/Obayashi Joint Venture Project EHS Manager.

### **Subcontractor's Project Manager**

The subcontractor's Project Manager is responsible for:

- **Planning and monitoring all work performed for compliance with the objectives of the Webcor/Obayashi Joint Venture EHSP, subcontractor's safety program, and federal, state and local safety and health regulations**
- **Authorizing immediate correction of any existing construction safety-related concerns**

- **Fully supporting the designated Safety Coordinator and cooperating with all designated project safety personnel in obtaining corrective actions necessary to comply with the Webcor/Obayashi Joint Venture EHSP**
- **Completing weekly safety audits**
- **Participating in pre-task planning and subcontractor kick-off meetings**
- **Participating in fact finding, root cause analysis, and resolution on all injury/incident investigations**
- **When requested, attending special construction safety meetings**

#### **Subcontractor Superintendent/Supervision/Foremen**

All supervisory personnel shall have as a minimum the OSHA 30 Hour Construction Safety training within the prior four years and possess a current CPR /First Aid and AED certification. In addition supervisory personnel shall have at a minimum 5 years' experience as a superintendent in a similar type of project. Responsibilities of Subcontractor Superintendent/Supervisor/Foremen are the same as Webcor/Obayashi Joint Venture Superintendent/Supervisor/Foremen, plus:

- **Attending weekly contractors' safety meetings**

#### **Subcontractor's Safety Professional**

Every subcontractor shall employ 6 full time designated safety persons (DSP) to coordinate project safety requirements for each active working zone up to 20 employees including tiered subcontractors. For each additional 20 employees another full time DSP is required for the active zone. This formula would add a full time DSP for each additional staff increase of 20 employees including tiered subcontractors. The DSP shall have no other duties than full time safety. The designated safety person (DSP) are subject to Webcor/Obayashi Joint Venture's approval and may be removed at any time with or without cause and replacement personnel provided at the subcontractor's/employer's expense. The DSP shall be knowledgeable in occupational health and safety requirements and half shall have at least a CHST and five years' experience as a dedicated safety manager in a similar type of project. The DSP shall possess and maintain an OSHA 30 Hour Construction Safety training program as a minimum issued no more than four years prior. The DSP shall possess a current CPR /First Aid and AED certification. The DSP shall attend weekly safety meetings conducted by Webcor/Obayashi Joint Venture's site safety manager to discuss safety related issues on the project. This person will:

- **Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS**
- **Perform continuous safety audits of all their respective trade contractors and their subcontractors' work areas throughout the entire workday and take immediate action to eliminate all unsafe acts and/or conditions. These observations, along with corrective actions taken will be reported to the appropriate member of Webcor/Obayashi Joint Venture Project Management, the subcontractor's own management, and Webcor/Obayashi Joint Venture EHS, using the SafeSiteOne Safety Inspection Report. These forms will be**

completed daily and submitted to Webcor/Obayashi Joint Venture Project Management/EHS.

- **Serve as technical advisors to their project management team on safety and health planning, training and problem resolution issues.**
- **Ensure that prior to the commencement of any work activity; every Supervisor/Foreman reviews each task assignment with every affected employee to ensure a comprehensive understanding of the safety requirements and precautions to be followed while performing this work. The Safety Professional(s) and Supervisor/Foremen should further ensure that all of the necessary guards are in place, safety equipment is provided, and other required steps are taken prior to starting the work.**
- **Each Safety Professional has the right and the authority to direct stoppage of any work of any contractor whenever imminent danger to life and health exists.**
- **Each Safety Professional has the right and authority to stop any and all hazardous work activities being performed by his/her company or their subcontractors until necessary corrective actions are taken.**
- **Ensure that appropriate personal protective equipment is provided and its use enforced**
- **Enforce their company's safety program and disciplinary procedures**
- **Accompany Webcor/Obayashi Joint Venture's supervisory personnel as directed and perform joint inspections of work areas and activities**
- **Orient all new subcontractor personnel to the site's safety program prior to work commencement**
- **Complete and forward all claim forms (injury, liability, property damage, and the like).**
- **Attend and participate in daily Safety Coordination Meetings**
- **Participate in accident investigations and recommend proper courses of corrective action. When serious accidents occur, this task will be performed in conjunction with Webcor/Obayashi Joint Venture EHS and Webcor/Obayashi Joint Venture and the subcontractor Project Management or their representatives.**
- **Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:**
  - **Review safety meeting reports for attendance**
  - **Attend and periodically conduct tool box/tailgate meetings to evaluate their effectiveness**
  - **Implement required safety training programs for subcontractor employees and supervisors**

No full time Safety Professional shall be assigned any duties other than assuring the safety and health of the personnel employed by their company or their subcontractors.

### **Subcontractor's Safety Coordinator**

The subcontractor's Safety Coordinator's responsibilities include assuring immediate corrective action to eliminate observed unsafe acts and unsafe conditions. This person will:

- **Report all incidents and injuries immediately to Webcor/Obayashi Joint Venture Project Management/EHS.**
- **Orient all new subcontractor personnel to the site's safety program prior to work commencement**
- **Make daily job site safety observations/audits (to be documented daily) and provide copies of documentation to Webcor/Obayashi Joint Venture Project Management and Webcor/Obayashi Joint Venture EHS**
- **Complete and forward all claim forms (injury, liability, property damage, and the like).**
- **Attend and participate in daily safety coordination meetings**
- **Participate in accident investigations and recommend proper courses of corrective action. When serious accidents occur, this task will be performed in conjunction with Webcor/Obayashi Joint Venture Project Management/EHS and subcontractor Project Management or their representatives.**
- **Provide appropriate materials for those conducting weekly tool box/tailgate meetings or safety meetings, as well as:**
  - **Periodically conduct tool box/tailgate meetings**
  - **Implement required training programs for workers and supervisors**
  - **Provide necessary information for the obtaining of motor vehicle records for all crane operators on site**

### **Everyone's Responsibilities**

- Report injuries *immediately* to supervision
- Work according to good safety practices as posted, instructed and discussed
- Comply with Webcor/Obayashi Joint Venture EHSP and subcontractor's safety program
- Use all required safety devices
- Report any unsafe situation or act to supervisor and/or designated Safety Coordinator/designee immediately (unsafe conditions and acts must be corrected when noticed to effectively prevent accidents)
- Maintain a clean and safe work area
- Come to work alert and free of any impairment that may affect safety
- Follow the site's Safe Work Practices
- Promote and support the Injury Free Environment: Agree to be held accountable for your safety, and the safety of others
- In addition, EVERYONE is held accountable for their designated assignments of responsibilities as denoted in their respective definitions; i.e., Project Manager, Superintendent, etc.

- Refrain from performing any work which may feel unsafe or for which proper equipment and/or training have not been provided

## SAFETY DISCIPLINARY POLICY

Under Webcor/Obayashi Joint Venture, all employees are required to follow company safety policies and operating procedures. When needed, employees will be provided with additional training and information, or retraining to maintain their knowledge.

Although Webcor/Obayashi Joint Venture reserves the right to discharge “at will,” we believe that employees found performing work in an unsafe manner that would endanger the employee or another employee shall be subject to discipline or termination by management. Webcor/Obayashi Joint Venture strictly maintains a zero tolerance policy towards violations involving, but not restricted to: fall protection, lock-out/tag-out, and confined space.

The Webcor/Obayashi Joint Venture Project Management/Site Safety Manager will determine the course of action best suited to the circumstances. The steps to be taken at a minimum shall include the following:

- Verbal Warning – As the first step in correcting unacceptable behavior, the Supervisor shall review the pertinent facts with the employee. The Supervisor will consider the severity of the problem, and the employee’s past performance. A verbal warning will be issued to the employee, if necessary; the employee will be placed on probation.
- Written Warning – If the unacceptable performance continues, the next step will be a written warning. The written warning will clearly state the safety policy that was violated. Probation will be a part of the written warning. It may also include time off without pay. At the completion of the probationary period, the supervisor will meet with the employee to determine if the employee has achieved the required level of performance.
- Termination – The employee may be terminated if he does not improve his performance while on probation, or has violated another company safety policy within twelve months.

# LADDER SAFETY RULES

## General:

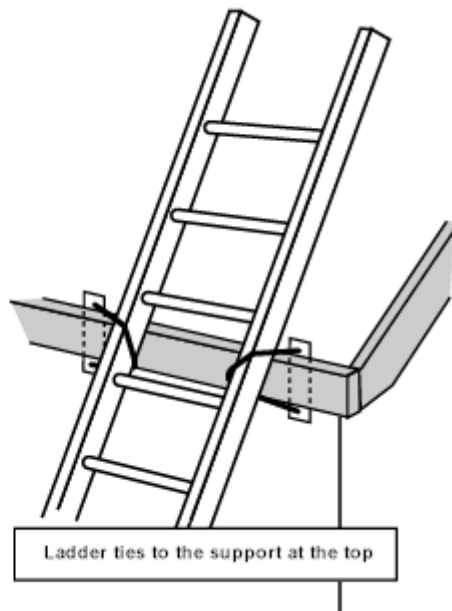
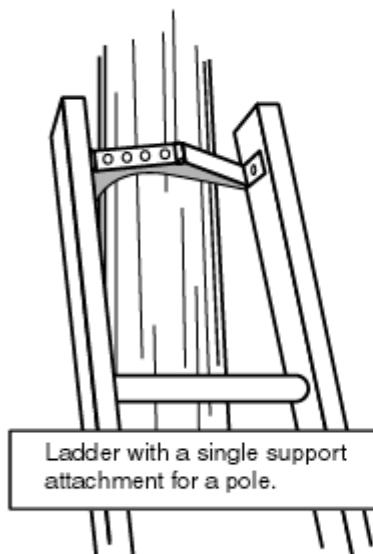
- Inspect before use for physical defects.
- Ladders are not to be painted except for numbering purposes.
- Do not use ladders for skids, braces, workbenches, or any purpose other than climbing.
- When you are ascending or descending a ladder, do not carry objects that will prevent you from grasping the ladder with both hands.
- Always face the ladder when ascending and descending.
- If you must place a ladder over a doorway, barricade the door to prevent its use and post a warning sign.
- Only one person is allowed on a ladder at a time.
- Do not jump from a ladder when descending.
- All joints between steps, rungs, and side rails must be tight.
- Safety feet must be in good working order and in place.
- Rungs must be free of grease and/or oil.

## Stepladders

- Do not place tools or materials on the steps or platform of a stepladder
- Do not use the top two steps of a stepladder as a step or stand.
- Always level all four feet and lock spreaders in place.
- Do not use a stepladder as a straight ladder.

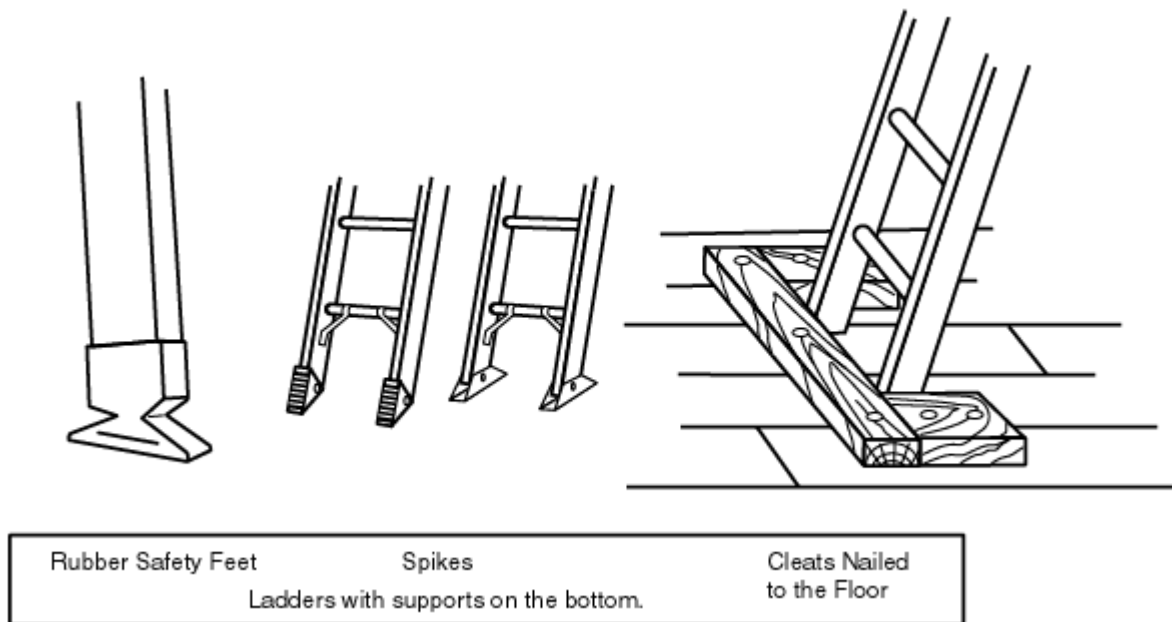
## Straight type or extension ladders

- All straight or extension ladders must extend at least three feet beyond the supporting object when used as an access to an elevated work area.
- After raising the extension portion of a two or more stage ladder to the desired height, check to ensure that the safety dogs or latches are engaged.
- All extension or straight ladders must be secured or tied off at the top.

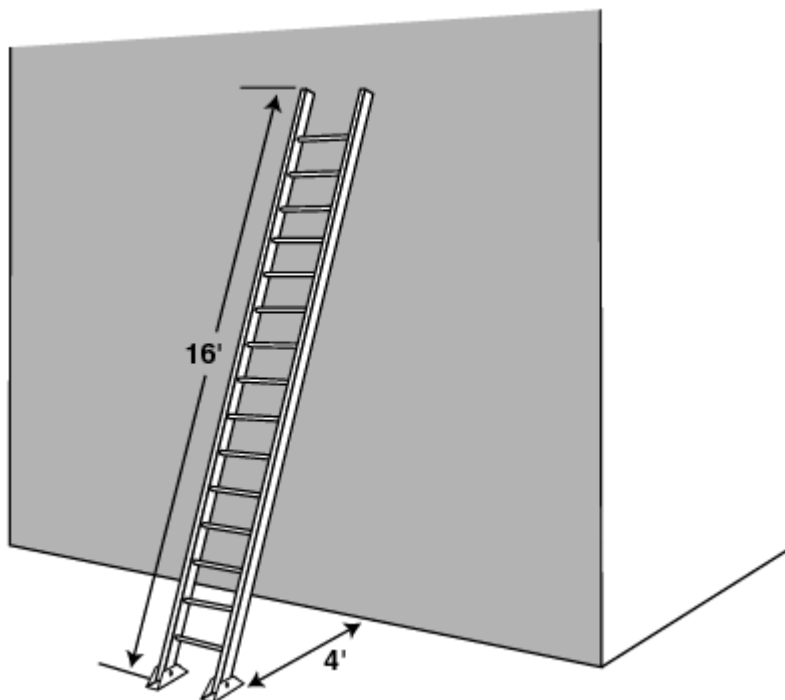




- All ladders must be equipped with safety (non-skid) feet.



- Portable ladders must be used at such a pitch that the horizontal distance from the top support to the foot of the ladder is about one-quarter of the working length of the ladder.



# GENERAL MATERIALS HANDLING SAFETY

## General material storage safety:

- Make sure that all materials stored in tiers are stacked, racked, blocked, interlocked, or otherwise secured to prevent sliding, falling, or collapse.
- Post conspicuously the maximum safe load limits of floors within buildings and structures, in pounds per square foot, in all storage areas, except for floor or slab on grade. Do not exceed the maximum safe loads.
- Keep aisles and passageways clear to provide for the free and safe movement of material handling equipment or employees. Keep these areas in good repair.
- Do not store materials on scaffolds or runways in excess of supplies needed for immediate operations.
- Use ramps, blocking, or grading when a difference in road or working levels exists to ensure the safe movement of vehicles between the two levels.
- Do not place materials stored inside buildings under construction within 6 feet of any hoist way or inside floor openings, or within 10 feet of an exterior wall which does not extend above the top of the material stored.
- Segregate non-compatible materials in storage.
- Stack bagged materials by stepping back the layers and cross-keying the bags at least every ten bags high.
- Carefully handle cement and lime delivered in paper bags to prevent the bags from bursting.
- Do not pile cement and lime bags more than ten bags high except when stored in bins or enclosures built for the purpose of storage.
- When bags are removed from the pile, keep the length of the pile at an even height and maintain the necessary step backs every five bags.
- When handling cement and lime bags, wear eye protection preventing any contact with the substance (such as goggles or other sealed eye protection) and wear long sleeve shirts with close fitting collar and cuffs.
- Do not wear clothing that has become hard and stiff with cement.
- Make sure to report any susceptibility of skin to cement and lime burns.
- Make sure that a hand cream or Vaseline and eyewash is provided and kept ready for use to prevent burns.
- Store lime in a dry place to prevent a premature slacking action that may cause fire.
- Do not stack bricks more than 7 feet high. When a loose brick stack reaches a height of 4 feet, taper it back 2 inches for every foot of height above the 4-foot level.
- Never stack bricks, for storage purposes, on scaffolds or runways.
- Always stack blocks; do not throw in a loose pile.
- When stacking masonry blocks higher than 6 feet, taper back the stack one-half block per tier above the 6-foot level.
- When stacking inside a building, distribute the piles to prevent overloading the floor.
- Do not drop or throw blocks from an elevation or deliver blocks through chutes.
- Do not stack lumber more than 20 feet high; if handling lumber manually, do not stack more than 16 feet high.
- Remove all nails from used lumber before stacking.
- Stack lumber on level and solidly supported sills, and such that the stack is stable and self-supporting.

- Stack stored lumber on timber sills to keep it off the ground. Sills must be placed level on solid supports.
- Place cross strips in the stacks when they are stacked more than 4 feet high.
- If not racked, stack and block structural steel, poles, pipe, bar stock, and other cylindrical materials as to prevent spreading or tilting.
- Wear heavy gloves when handling reinforcing steel.
- When bending reinforcing steel on the job, use a strong bench set up on even dry ground or a floor to work on.
- Carefully pile structural steel to prevent danger of members rolling off or the pile toppling over.
- Keep structural steel in low piles, giving consideration to the sequence of use of its members.
- Stack corrugated and flat iron in flat piles, with the piles not more than 4 feet high; place spacing strips between each bundle.
- Frequently inspect stock piles of sand, gravel, and crushed stone to prevent their becoming unsafe by continued adding to or withdrawing from the stock.
- Do not remove frozen material in a manner that would produce an overhang.

#### General Rigging Equipment Safety:

- Inspect rigging equipment for material handling prior to use on each shift and as necessary during its use to ensure that it is safe. Remove defective rigging equipment from service.
- Never load rigging equipment in excess of its recommended safe working load.
- Remove rigging equipment when not in use from the immediate work area so as not to present a hazard to employees.
- Mark special rigging accessories (i.e., spreader bars, grabs, hooks, clamps, etc.) or other lifting accessories with the rated capacity. Proof tests all components to 125% of the rated load prior to the first use. Maintain permanent records on the job site for all special rigging accessories.

#### Disposal of waste materials:

- Whenever materials are dropped more than 20 feet to any point lying outside the exterior walls of the building, use an enclosed chute of wood or equivalent material.
- When debris is dropped without the use of chutes, make sure that the area onto which the material is dropped is completely enclosed with barricades at least 42 inches high and 20 feet back from the projected edge of the opening above. Post at each level warning signs of the hazard of falling materials. Do not remove debris in this lower area until debris handling ceases above.
- Remove all scrap lumber, waste material, and rubbish from the immediate work area as the work progresses.
- Make sure to comply with local fire regulations if disposing of waste material or debris by burning.
- Keep all solvent waste, oily rags, and flammable liquids in fire-resistant covered containers until removed from the work site.

# FIRE PREVENTION PROGRAM

## Purpose:

To reduce to a minimum the possibility of fire damage and associated losses incurred during the construction of the Project.

The following program, by no means complete, is the guide to be used on the Project to aid in preventing the spreading of materials loosed by fires and gases associated with combustion, etc.

## Fire Protection

- All temporary electric service, equipment, and wiring must be in accordance with **Cal OSHA and NFPA 70, National Electric Code (NFPA 241, Section 4-1.1)**.
- Storage of any material within 10 feet of fire hydrants is strictly prohibited.
- Work areas shall be policed on a regular basis to prevent accumulation of material. All combustible waste material, dust, and debris shall be removed from the building and its immediate vicinity at the end of each work shift, or more frequently as necessary, for Safe operations **(NFPA 241, Section 3-4.1)**.
- No motors or machinery shall be left running during nonworking hours except as specifically directed by Webcor/Obayashi Joint Venture.
- All heating equipment shall have necessary Safety devices and shall be wired, piped, and operated according to all applicable codes, rules and regulations, and manufacturers' instructions.
- All tarps and blankets shall be of fire-retardant material.
- All fuel and solvent containers shall be in approved containers and placed on drip pans. Storage of these materials shall be in accordance with product Material Safety Data Sheets, statutory Hazardous Material requirements, and Fire Department requirements.
- No open or burning fires shall be permitted onsite. Anyone doing so will be subject to immediate dismissal.
- No solid fuel shall be permitted on the site.
- Fire extinguishers shall be placed and maintained on the job in conspicuous and identified locations **per Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1). These fire extinguishers shall not be moved or discharged, except for fighting a fire. Anyone discharging an extinguisher as a prank will be subject to immediate dismissal.**
- All gas bottles, such as propane, oxygen, and acetylene, shall be stored and secured in a vertical position in areas designated by Webcor/Obayashi Joint Venture. All stored bottles shall be capped. Oxygen and acetylene will not be stored within 20 feet of each other or must be separated by a one-half-hour-rated fire barrier. At no time during construction shall propane or LPG be stored inside of a structure or building.
- All oxygen and acetylene in use shall be in proper carts with required separations and with an attached 10 BC, minimum, fire extinguisher.
- During welding or cutting operations, a fire watch with fire extinguisher will be required and shall be the responsibility of the subcontractor or its sub-subcontractor performing the work. The need of a hot work permit may be needed, depending on location and circumstances for such. Permits will be obtained from the Project Safety Manager.

## **Fire Fighting**

- Appropriate action is the key to the prevention of loss of life and property damage. This action in the first minute is worth gallons of water ten minutes later.
- If a fire occurs, notify the local fire department and Webcor/Obayashi Joint Venture immediately.
- Extinguish fire with a noncombustible, such as sand, or an available fire extinguisher.
- Remove or shut off fuel supply, such as removing debris or stored material, or shutting off fuel supply.

## **Welding and Cutting Permit Program for “Hot Work”**

- The Site Safety Manager will act as the Fire Safety Manager.
- Each subcontractor shall notify Webcor/Obayashi Joint Venture of proposed “Hot Work” through a “Welding/Cutting Permit” application to the Fire Safety Manager.
- The Fire Safety Manager shall review the Permit form with the subcontractor to assure that all areas of concern are accounted for in fire protection.
- The Fire Safety Manager shall keep a log of all Permits.
- Permissible Areas:
  - New construction: When all fire prevention measures are taken, permits shall be authorized for the work.
    - New construction work shall require the presence of a dedicated fire extinguisher (20 lb, ABC), provided by the subcontractor performing the work, and any other preventive measures as may be necessary for protection of life and property, such as fire blankets, water supply, etc.
    - The subcontractor and the Fire Safety Manager shall ensure that the surrounding area(s) are free of combustible material per NFPA 51B.
    - When the work is of the nature that “hot” material may fall to areas below, the subcontractor and the Fire Safety Manager shall ensure that those areas are free of combustible material or material that may otherwise be damaged. Work in place must be protected by the subcontractor performing the work.
    - When “Hot Work” is performed in Permit Required Confined Spaces, the applicable Standards will be followed for Permit Required Confined Space work.
    - “Hot Work” shall not be performed near fuel storage areas or other areas where combustible vapors may accumulate.
  - Occupied Buildings: “Hot Work” shall not be performed in occupied buildings without notification of the local Fire Department responding agency (local Engine Company).
    - The fire suppression system for the building must be in operation.
    - The appropriate Building or Department Managers must be notified and the work coordinated with their operations.
    - Preparation for the work and clearing of combustible materials shall be in accordance with NFPA 51B. Combustible material shall be cleared from the work area by a distance of 35 feet.

## **Office, Tool Sheds, Etc.**

- Shall be constructed of fire-resistive materials and heated with approved fire-safe heating devices in accordance with manufacturers’ instructions.
- Shall be separated from materials which present extraordinary fire hazards in accordance with NFPA 241, 241, Table 2-1.1).

- Shall be equipped with a minimum of one 20-lb. ABC fire extinguisher each, in accordance with Cal/OSHA Title 8 Construction Safety Orders, Article 36, Section 1922, (a), (1).
- Shall have a 40-gallon waste container adjacent to it.
- Shall not be used to store oily rags, oily clothes, or fuels.

The principles outlined above should provide a reasonable change for a fire-free job. Strict adherence to the intent of this program is to be considered a contractual requirement. (See attached appendix for Hot Work Permit.)

# APPENDIXES

## ASBESTOS ABATEMENT PROGRAM

### THE CHARACTERISTICS OF ASBESTOS

There are no visible signs that asbestos is particularly hazardous. Also, no immediate side effects are experienced by workers after exposure. But this common mineral can cause lung disease, cancer and even death if not handled safely. This is why the Standard requires that workers who don't really work directly with asbestos, but who may have incidental exposure, must receive at least "Asbestos Awareness" training.

To help address OSHA's concerns, and provide the awareness training needed by employees under the regulation, this program is designed to present fundamental information.

Employees should understand how long-term exposure to asbestos can harm the human body. Employees should recognize the areas where asbestos may be located in their project.

Employees should know which asbestos and asbestos-containing materials should be repaired and/or removed.

Employees should understand how to avoid potential hazardous maintenance and custodial activities that could lead to asbestos exposure.

Employees should know what personal protective equipment to use to protect against asbestos exposure.

Employees should understand which safe work practices should be used when helping with a minor asbestos clean-up.

Employees should understand why, when there is the potential for exposure to asbestos, air monitoring and medical surveillance can be important elements in providing a safer workplace.

Employees should be familiar with certain requirements in the OSHA Asbestos Standard...especially those concerning workplace controls and personal protective equipment.

### **Outline of Major Program Points**

*The following outline summarizes the major points of information employees should be familiar with.*

- Asbestos is a mineral which has many positive qualities. It is:
  - Fireproof.
  - Heat resistant
  - Lightweight.
  - Resistant to most chemicals.
  - Sound-absorbing.
  - And it does not conduct electricity.

- Products that contain Asbestos can be helpful, but they can also be very harmful.
- Asbestos has hidden dangers that you need to know about.
- While most rocks break down into tiny particles, like grains of sand... Asbestos breaks down into small fibers, like strands of rope.
  - These fibers are invisible to the human eye.
  - You need a powerful microscope to see them.
  - These fibers have the strength of steel.
- The biggest problem when dealing with Asbestos fibers is that you cannot:
  - See them.
  - Taste them.
  - Smell them.
- If Asbestos fibers enter your body, they can cause severe damage.
- Asbestos has been used throughout the building and construction industry. It was:
  - Mixed with plaster and wallboard for strength and support.
  - Sprayed onto wall, ceilings, and steel girders for fireproofing.
  - Wrapped around pipes, boilers and heating ducts for insulation.
  - Even in floor and ceiling tiles.
- Several types of workers need to know about the hazards of working with or near Asbestos:
  - Custodial.
  - Engineering.
  - Maintenance.
- Asbestos hazards are so serious that OSHA has issued a Standard requiring that employees be:
  - Trained
  - Monitored.
  - Protected.
- As part of the training in this program, you will learn:
  - The health risks and effects of long-term Asbestos exposure.
  - How to recognize and deal with possible Asbestos hazards.
  - The content of your employer's Asbestos Management Plan.
- Asbestos fibers can float in the air for long periods of time, and can be easily inhaled.
  - They can cause severe damage to the lungs.
  - Yet in most instances there are not any immediate side-effects.
- This exposure to Asbestos fibers can lead to a disease known as "Asbestosis."
  - It can cause shortness of breath.
  - It may cause enlargement of the heart.
  - In extreme cases, it can even cause death.
- Long-term exposure to Asbestos fibers can also lead to cancer.
- People who smoke are especially vulnerable to Asbestos.
  - Cigarette smoke breaks down the lungs' defensive system, and leaves them vulnerable to Asbestos fibers.
  - Smokers are over 50 times more likely to become sick after long-term exposure to Asbestos.
- Some of the ways to reduce your exposure to Asbestos including knowing:
  - Where it is located in your work areas.



- How to recognize potential problems.
- What to do if you find damaged Asbestos materials.
- If Asbestos-Containing materials are located in your workplace, your facility will have an Asbestos Management Plan.
  - The plan will contain a list of Asbestos materials.
  - There should also be a sign or a label at each location to warn you about Asbestos.
  - Notify your supervisor if there is not a sign where Asbestos may be present.
- Asbestos materials that you may encounter generally fit into two categories:
  - Friable.
  - Non-Friable.
- “Friable” Asbestos material can be easily damaged or broken:
  - This can release dangerous fibers into the air.
- “Non-Friable” material is not damaged as easily, but can also release asbestos fibers.
- The three most common materials that contain Asbestos are:
  - Thermal system insulation.
  - Floor tiles.
  - Sprayed-on materials.
- Thermal system insulation is the most common type of friable Asbestos material, and can be found on:
  - Boilers.
  - Utility pipes.
  - Ductwork.
  - Heating systems.
- Keep a look-out for possible problems with this Asbestos material.
  - Even a small tear in the insulation is a potential hazard
- If you encounter damaged insulation, minimize the chance of exposure by acting immediately.
  - Secure the area, even if you are not sure that the material contains Asbestos.
  - Post a warning sign.
  - Notify your supervisor, your facility’s environmental manager or an outside company (if appropriate).
- If you cannot fix the situation immediately, you may be asked to temporarily patch the damaged area.
  - Before starting work, put on appropriate personal protective equipment.
  - This may include gloves, a respirator and disposable overalls.
  - Wrap the damaged material with strong plastic.
  - Secure it with duct tape.
- The professionals will find a more permanent solution.
  - When they arrive, keep clear and let them do their work.
- Never handle or remove any Asbestos material unless authorized and properly equipped.
  - If Asbestos material needs to be removed, first talk to your supervisor to find out who in your facility is qualified.
- Floor tiles, as well as the glue used to stick the tiles to the ground, can also contain Asbestos.
  - Although floor tiles are non-friable, if they are damaged they can still release fibers.
  - Look for cuts, grooves or cracks in the material.
  - If you notice damage, seal off the area and notify your supervisor.

- Do not grind, cut or break apart floor tiles, since this could release fibers.
- If you need to strip a floor's finish, use the "Wet Method."
  - Dampen the floor so fibers are less likely to become airborne.
  - Use a Low Abrasion Pad, at speeds of less than 300 rpm, for safe cleaning.
- Ceiling tiles may also contain Asbestos.
  - Be careful when changing light bulbs or replacing tiles.
  - Look for broken corners or other damaged areas.
  - Both are signs that the tiles may be releasing fibers.
- Asbestos may also be found sprayed onto ceilings and walls.
  - They are friable materials.
  - They must be handled with extreme caution.
- Sprayed on materials can also peel away from a surface, and the dust and debris could contain Asbestos.
  - Do not sweep or shovel material while "dry."
  - This stirs up fibers into the air where they can be inhaled.
  - Report the problem to your supervisor, who will arrange for clean-up and disposal.
- Depending on the job, you may be asked to assist in the repair or removal of Asbestos at your facility.
  - Make sure that you use proper personal protective equipment.
  - Although Asbestos is not a skin contact hazard, by wearing disposable overalls your decontamination will be much easier.
- You will also need to wear a respirator fitted with special filters, to help prevent you from inhaling fibers.
  - The respirator must be the right size and shape for your face.
  - "Fit test" the respirator to prevent gaps between your face and the mask, so Asbestos fibers cannot "leak" through.
  - You'll be trained to clean and maintain your respirator, as well as how and when to change the filters.
- When cleaning up any Asbestos-Containing materials, never use an ordinary vacuum.
  - Even a shop-grade vacuum will send fibers into the air.
  - Vacuums used for Asbestos clean-up must be fitted with special HEPA filters.
  - These "High Efficiency Particulate" filters prevent the release of Asbestos fibers into the air.
- Remember to use the "wet method" during clean-up activities.
  - Make sure the Asbestos is wet before, during and after handling, even if a HEPA vacuum is used.
  - After any clean-up, "wet wipe" the area with a damp cloth.
  - Be sure to dispose of the cloth properly.
- Asbestos materials must be properly bagged and labeled.
  - Use only official "Asbestos Disposal Bags" for this purpose.
  - When labeling a bag, use a "Generator Label" which lists the name and address of your facility.
- If an Asbestos Disposal Bag becomes torn, seal it immediately with tape.
  - Place the damaged bag inside a new bag and reseal it.
  - Place a Generator label on the new outer bag.
  - Remember, Asbestos is a regulated waste (it must be hauled to a licensed landfill).

- When helping with an Asbestos cleanup, you may be asked to wear an Air Sampling Device.
  - It measures the airborne concentration of Asbestos fibers in your work area.
  - An air pump is strapped to your waist, and a sampling cassette is taped to the front of your shoulder.
  - After you turn in the cassette, the air sample is analyzed for Asbestos content.
- After any work with Asbestos materials, you must decontaminate yourself and your equipment.
  - This prevents the spread of Asbestos dust and debris.
  - Always use an official decontamination area.
  - It should be equipped with a HEPA vacuum, as well as a plastic drop cloth (to contain any loose fibers).
- Never eat, drink or smoke in these decontamination areas, or any other area where Asbestos is present.
  - This increases your chance of inhaling fibers.
- When decontaminating your clothing, never brush off dust or debris.
  - This sends Asbestos fibers into the air.
  - Use a HEPA vacuum to remove these materials from your clothing before taking it off.
  - Also vacuum your equipment and Asbestos Disposal Bags.
- Remember that your overalls will be contaminated, and must be disposed of as a regulated waste.
  - Seal them in as Asbestos Disposal Bag.
- Scrub your hands and face with soap and water before leaving work.
  - If possible, shower before leaving your facility as well.
  - If not, shower immediately when you get home.
  - This prevents exposure to your family or friends.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
  - This makes certain that you are not exposed to dangerous amounts of Asbestos.
  - It will also verify that you can safely wear a respirator.
- To provide an additional safeguard, you may be asked to participate in a Medical Surveillance Program.
  - This makes certain that you are not exposed to dangerous amounts of Asbestos.
  - It will also verify that you can safely wear a respirator.
- The Medical Surveillance Program requires regular visits to a doctor.
  - You may be asked to take a “breathing capacity” test, or have X-rays taken of your lungs.
  - This is provided free of charge.
  - If you have any questions, consult with your supervisor.
- A review of the most important points of the program:
  - Asbestos may be a hidden danger, but it is not hard to find ways to protect yourself.
  - Know where Asbestos is located in your facility, and check your Asbestos Management Plan.
  - Inspect all Asbestos locations at least twice a year.
  - Record the results of these inspections in an Asbestos Log Book for future reference.
  - Do not disturb Asbestos-Containing materials unless absolutely necessary.
  - Take steps to prevent contamination during operations involving Asbestos.
  - Always remember to decontaminate after coming into contact with any Asbestos material.

# LEAD ABATEMENT PROGRAM

This program has been put in place because Webcor/Obayashi Joint Venture recognizes that some of the work we do has the potential to expose our employees to lead. We want to do as much as is practically possible to protect them from lead exposure.

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an exposure assessment to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. These professionals will be used to give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

To help address OSHA's concerns and provide the lead awareness training needed by employees, this program is designed to present fundamental information.

Lead can be found in a number of workplace environments. Until recently, lead was a common component in paints of all kinds (which can create exposure whenever sanding, "sandblasting," scraping, or even demolition occurs).

Workplace experience and empirical studies have shown that lead is fairly easily absorbed into the body. Breathing airborne lead dust and fumes is the most common route of entry. Lead can also be absorbed if it comes into contact with the mouth or tongue.

Overexposure to lead can occur both on an "acute" basis, where large amounts of lead are absorbed into the body in a short period of time, or on a "long-term" basis where small amounts of lead are absorbed at any one time, eventually accumulating to cause significant health problems.

On May 4, 1993, OSHA published the Interim Final Rule for Lead Exposure in Construction. The Construction Standard establishes "Interim" procedures and work practices that must be followed in construction environments. The OSHA Standard and its compliance requirements are included at the end of this written program. The Lead Standards are "performance based"; the standard will tell you what you have to accomplish.

There is really only one General Requirement in the Lead Standards. This requirement also essentially defines the objectives of the standards as far as OSHA is concerned. That is:

- Employers must make sure that no employee is exposed to lead concentrations greater than 50 micrograms per cubic meter of air, averaged over an eight-hour period in any 24-hour day.

The rest of the standard addresses how to accomplish that goal.

Typically, OSHA requires that you use the following methods to protect your employees:

- Engineering controls.
- Work-practice controls.
- Respiratory protection.
- Personal protective clothing and equipment other than respirators.
- Hygiene facilities and practices.
- Housekeeping.
- Employee information and training.

OSHA requires that every employer who is covered by these Standards provide “Information and Training.” For employers in the Construction Industry, it requires that they meet the training requirements of the Hazard Communication Standard (“Right To Know”). Information that must be given employees under the Hazard Communication Standard includes:

- The hazards associated with lead exposure.
- Warning signs and labels that can be found on materials containing lead.
- How to find information about materials containing lead on Material Data Safety Sheets (MSDS).
- Use of personal protective equipment.

## THE WRITTEN COMPLIANCE PROGRAM

Prior to the start of a project, professionals/Industrial Hygienist in lead detection and abatement will be brought in to do an exposure assessment to determine whether the work environments Webcor/Obayashi Joint Venture employees will be operating in have the potential to expose them to lead. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

These professionals will give Webcor/Obayashi Joint Venture direction as to how to proceed. It will be our goal to have lead abatement taken care of by licensed lead abatement professionals prior to the arrival of Webcor/Obayashi Joint Venture employees.

## INCIDENT REPORTING INSTRUCTIONS

- ☐ 1. Ensure the safety and security of the individual(s) that were injured or involved, other people on site, the public and the project.
- ☐ 2. If this is a 911 emergency consult your Crisis Management Plan.
- ☐ 3. All incidents requiring clinic visits contact Danielle DiRicco at 510-476-2578 or 650-520-4251.
- ☐ 4. Take photos of the incident scene and surrounding area immediately. Include these photos in the investigation report. Please number, date, use arrows to indicate specific targets, etc.
- ☐ 5. Contact your Area Safety Director/Manager.
- ☐ 6. For Webcor/Obayashi Joint Venture Field and Salaried employees complete the entire Incident Investigation Packet thoroughly. The DWC1 form will need to have signatures by both the employee and employer and a copy of the signed form must be given to the employee. You have a maximum of 24 hours to complete the packet. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066.
- ☐ 7. For Subcontractor injuries complete the following forms. You have a maximum of 24 hours to complete the forms. Send all forms via email or fax to Danielle DiRicco at fax number 510-476-3066.
  - a. Incident Investigation Packet
  - b. Injured Worker's Statement
  - c. Supervisor's Statement
  - d. Witness Statement
- ☐ 8. Before leaving the doctor's office, obtain the **Physician's Release/Work Status and the Job Analysis/Work Recommendations Report** from the clinic/hospital doctor after each doctor's visit via email or fax to Danielle DiRicco at 510-476-3066.
- ☐ 9. Provide training certificates, orientation documentation, Job Hazard Analysis for this specific task to include in the Incident Investigation Packet.
- ☐ 10. Contact your Area Safety Director/Manager if the injured worker must be hospitalized over twenty-four (24) hours for more than observation. OSHA must be contacted within eight (8) hours of the incident by the Area Safety Director/Manager or designated person.
- ☐ 11. In the event an incident results in a recordable, lost time or near miss a Root Cause Analysis (RCA) shall be performed. The RCA will be scheduled by the Area Safety Director/Manager and participation by the designated project team members is required. See attached Root Cause Analysis instructions.

## INCIDENT INVESTIGATION REPORT FORM

### #1 Employer Information:

Company Name: \_\_\_\_\_ WC Policy Number: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Nature of Business (type of contractor): \_\_\_\_\_

Job Site Name: \_\_\_\_\_ Project Number: \_\_\_\_\_

Job Site Address: \_\_\_\_\_

### #2 Employee Information:

Employee Name: \_\_\_\_\_

Address: \_\_\_\_\_

Street Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Social Security Number: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ ☐ Male ☐ Female

Phone Number: (\_\_\_\_) \_\_\_\_\_ Date of birth: \_\_\_\_/\_\_\_\_/\_\_\_\_ Date hired: \_\_\_\_/\_\_\_\_/\_\_\_\_

Job Title: \_\_\_\_\_

Employee usually works: \_\_\_\_\_ hours per day, \_\_\_\_\_ days per week, \_\_\_\_\_ total weekly hours

Employment Status: ☐ Full Time ☐ Part Time ☐ Temporary ☐ Seasonal

Gross wages/salary: \$ \_\_\_\_\_ per \_\_\_\_\_

### #3 Injury / Illness Information

Date of Incident: \_\_\_\_\_ Day of Week: \_\_\_\_\_ Time of Incident: \_\_\_\_\_

Time Employee Began Work: \_\_\_\_\_ If Employee Died, Date of Death: \_\_\_\_\_

Type of Injury: \_\_\_\_\_ Part of body injured: \_\_\_\_\_

Exact Location of Incident (Bldg. Level/Area): \_\_\_\_\_

Employee's Direct Supervisor: \_\_\_\_\_ Were they working on a crew? ☐ Yes ☐ No

PPE worn at time of incident (list): \_\_\_\_\_

Were other workers injured in this event? ☐ Yes ☐ No

Date reported to Webcor/Obayashi Joint Venture: \_\_\_\_\_, to whom: \_\_\_\_\_

Was the employee taken to a medical facility offsite? ☐ Yes ☐ No Date: \_\_\_\_\_

Treating Facility & Phone Number: \_\_\_\_\_

## INCIDENT INVESTIGATION REPORT FORM (continued)

Physician's Name: \_\_\_\_\_

Employee Returned to: ☐ Regular Work ☐ Modified Work If not, estimated return date: \_\_\_\_\_

Were they unable to work for at least one day after date of injury? ☐ Yes ☐ No

Date Last Worked: \_\_\_\_\_ Date Returned to Work: \_\_\_\_\_ is employee still off work? ☐ Yes ☐ No

Was the employee paid full wages for date of injury or last day worked? ☐ Yes ☐ No

Is the employee's salary being continued? ☐ Yes ☐ No

Equipment, materials and chemicals the employee was using when event or exposure occurred (i.e., Acetylene, welding torch, tractor, scaffold)? \_\_\_\_\_

---

---

---

---

---

General activity at time of incident (i.e., concrete)? \_\_\_\_\_

---

---

---

---

Specific task at time of incident (i.e., Finishing)? \_\_\_\_\_

---

---

---

---



## INCIDENT INVESTIGATION REPORT FORM (continued)

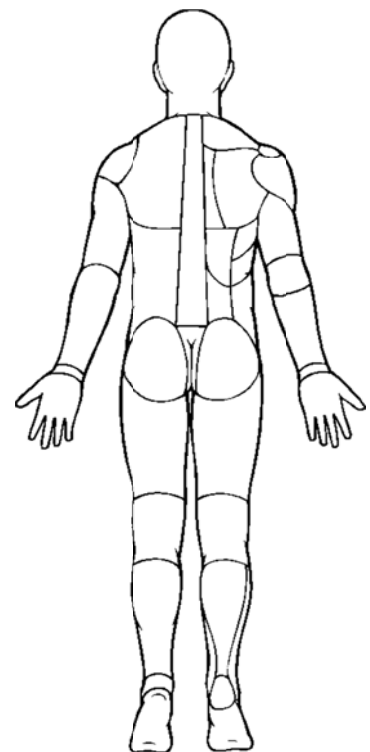
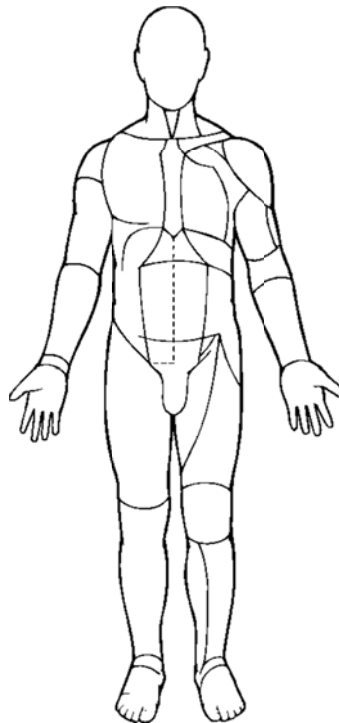
#### #4 Description of the Incident (not to be completed by injured worker):

**NOTE: This does not take the place of a witness Statement. Describe in detail the circumstances of the incident (attach diagrams, drawings and/or photos of accident scene). Give a chronological sequence of events. If materials and/or equipment were involved, start before the materials/equipment was brought to the incident scene describing who, what, where, when, how:**

[illegible]

**Please indicate the location of all incurred injuries and describe the type of injury.**

**For example, for a laceration to the right palm – shade the right hand palm and write laceration next to it connected by a line.**



## INCIDENT INVESTIGATION REPORT FORM (continued)

### #5 Additional Information

Name of witnesses and others working with injured worker (attach witness statements):

\_\_\_\_\_

Object, substance, equipment involved in incident (desc/model/serial #): \_\_\_\_\_

\_\_\_\_\_

List PPE worn at time of incident: \_\_\_\_\_

Safety equipment, PPE & training required for job: \_\_\_\_\_

\_\_\_\_\_

Does employee normally operate this equipment? ☐ Yes ☐ No

Was employee instructed in the safe use of this equipment? ☐ Yes ☐ No

When/how? – Describe in detail & attach copies of equipment certifications): \_\_\_\_\_

\_\_\_\_\_

Was any defect with the equipment noted or reported prior to accident/incident? ☐ Yes ☐ No

Were standard work procedures followed? ☐ Yes ☐ No If no, why not – describe in detail, attach additional sheets if necessary and attach a copy of the standard site procedures. \_\_\_\_\_

\_\_\_\_\_

Was a safety rule or specific instruction violated? ☐ Yes ☐ No If yes, what – describe in detail, attach additional sheets if necessary and attach a copy of the rule/regulation? \_\_\_\_\_

\_\_\_\_\_

When was the last safety meeting conducted? \_\_\_\_\_

When was the last jobsite audit conducted? \_\_\_\_\_

Attach copies of the last safety meeting agenda with sign-in sheet and Job Hazard Analysis for specific task.

### #6 Completing Report:

Supervisor Completing Report:

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Date report prepared: \_\_\_\_\_

Management Review By:

Name: \_\_\_\_\_

Signature: \_\_\_\_\_



WORKERS' COMPENSATION CLAIM FORM (DWC 1)

PETITION DEL EMPLEADO PARA DE COMPENSACIÓN DEL  
TRABAJADOR (DWC 1)

**Employee:** Complete the "Employee" section and give the form to your employer. Keep a copy and mark it "Employee's Temporary Receipt" until you receive the signed and dated copy from your employer. You may call the Division of Workers' Compensation and hear recorded information at (800) 736-7401. An explanation of workers' compensation benefits is included as the cover sheet of this form.

You should also have received a pamphlet from your employer describing workers' compensation benefits and the procedures to obtain them.

Any person who makes or causes to be made any knowingly false or fraudulent material statement or material representation for the purpose of obtaining or denying workers' compensation benefits or payments is guilty of a felony.

**Empleado:** Complete la sección "Empleado" y entregue la forma a su empleador. Quédese con la copia designada "Recibo Temporal del Empleado" hasta que Ud. reciba la copia firmada y fechada de su empleador. Ud. puede llamar a la División de Compensación al Trabajador al (800) 736-7401 para oír información gravada. En la hoja cubierta de esta forma esta la explicación de los beneficios de compensación al trabajador.

Ud. también debería haber recibido de su empleador un folleto describiendo los beneficios de compensación al trabajador lesionado y los procedimientos para obtenerlos.

Toda aquella persona que a propósito haga o cause que se produzca cualquier declaración o representación material falsa o fraudulenta con el fin de obtener o negar beneficios o pagos de compensación a trabajadores lesionados es culpable de un crimen mayor "felonia".

**Employee—complete this section and see note above**      **Empleado—complete esta sección y note la notación arriba.**

1. Name. *Nombre.* \_\_\_\_\_ Today's Date. *Fecha de Hoy.* \_\_\_\_\_
2. Home Address. *Dirección Residencial.* \_\_\_\_\_
3. City. *Ciudad.* \_\_\_\_\_ State. *Estado.* \_\_\_\_\_ Zip. *Código Postal.* \_\_\_\_\_
4. Date of Injury. *Fecha de la lesión (accidente).* \_\_\_\_\_ Time of Injury. *Hora en que ocurrió.* \_\_\_\_\_ a.m. \_\_\_\_\_ p.m.
5. Address and description of where injury happened. *Dirección/lugar dónde ocurrió el accidente.* \_\_\_\_\_
6. Describe injury and part of body affected. *Describe la lesión y parte del cuerpo afectada.* \_\_\_\_\_
7. Social Security Number. *Número de Seguro Social del Empleado.* \_\_\_\_\_
8. Signature of employee. *Firma del empleado.* \_\_\_\_\_

**Employer—complete this section and see note below.**      **Empleador—complete esta sección y note la notación abajo.**

9. Name of employer. *Nombre del empleador.* \_\_\_\_\_
10. Address. *Dirección.* \_\_\_\_\_
11. Date employer first knew of injury. *Fecha en que el empleador supo por primera vez de la lesión o accidente.* \_\_\_\_\_
12. Date claim form was provided to employee. *Fecha en que se le entregó al empleado la petición.* \_\_\_\_\_
13. Date employer received claim form. *Fecha en que el empleado devolvió la petición al empleador.* \_\_\_\_\_
14. Name and address of insurance carrier or adjusting agency. *Nombre y dirección de la compañía de seguros o agencia administradora de seguros.* \_\_\_\_\_
15. Insurance Policy Number. *El número de la póliza de Seguro.* \_\_\_\_\_
16. Signature of employer representative. *Firma del representante del empleador.* \_\_\_\_\_
17. Title. *Título.* \_\_\_\_\_ 18. Telephone. *Teléfono.* \_\_\_\_\_

**Employer:** You are required to date this form and provide copies to your insurer or claims administrator and to the employee, dependent or representative who filed the claim within one working day of receipt of the form from the employee.

SIGNING THIS FORM IS NOT AN ADMISSION OF LIABILITY

☐ Employer copy/Copia del Empleador      ☐ Employee copy/Copia del Empleado

**Empleador:** Se requiere que Ud. feche esta forma y que propée copias a su compañía de seguros, administrador de reclamos, o dependiente/representante de reclamos y al empleado que hayan presentado esta petición dentro del plazo de un día hábil desde el momento de haber sido recibida la forma del empleado.

EL FIRMAR ESTA FORMA NO SIGNIFICA ADMISION DE RESPONSABILIDAD

☐ Claims Administrator/Administrador de Reclamos      ☐ Temporary Receipt/Recibo del Empleado

## Workers' Compensation Claim Form (DWC 1) & Notice of Potential Eligibility

### Formulario de Reclamo de Compensación para Trabajadores (DWC 1) y Notificación de Posible Elegibilidad



**Return to Work:** To help you to return to work as soon as possible, you should actively communicate with your treating doctor, claims administrator, and employer about the kinds of work you can do while recovering. They may coordinate efforts to return you to modified duty or other work that is medically appropriate. This modified or other duty may be temporary or may be extended depending on the nature of your injury or illness.

**Payment for Permanent Disability:** If a doctor says your injury or illness results in a permanent disability, you may receive additional payments. The amount will depend on the type of injury, your age, occupation, and date of injury.

**Vocational Rehabilitation (VR):** If a doctor says your injury or illness prevents you from returning to the same type of job and your employer doesn't offer modified or alternative work, you may qualify for VR. If you qualify, your claims administrator will pay the costs, up to a maximum set by state law. VR is a benefit for injuries that occurred prior to 2004.

**Supplemental Job Displacement Benefit (SJDB):** If you do not return to work within 60 days after your temporary disability ends, and your employer does not offer modified or alternative work, you may qualify for a nontransferable voucher payable to a school for retraining and/or skill enhancement. If you qualify, the claims administrator will pay the costs up to the maximum set by state law based on your percentage of permanent disability. SJDB is a benefit for injuries occurring on or after 1/1/04.

**Death Benefits:** If the injury or illness causes death, payments may be made to relatives or household members who were financially dependent on the deceased worker.

**It is illegal for your employer** to punish or fire you for having a job injury or illness, for filing a claim, or testifying in another person's workers' compensation case (Labor Code 132a). If proven, you may receive lost wages, job reinstatement, increased benefits, and costs and expenses up to limits set by the state.

You have the right to disagree with decisions affecting your claim. If you have a disagreement, contact your claims administrator first to see if you can resolve it. If you are not receiving benefits, you may be able to get State Disability Insurance (SDI) benefits. Call State Employment Development Department at (800) 480-3287.

You can obtain free information from an information and assistance officer of the State Division of Workers' Compensation, or you can hear recorded information and a list of local offices by calling (800) 736-7401. You may also go to the DWC website at [www.dir.ca.gov](http://www.dir.ca.gov). Link to Workers' Compensation.

**You can consult with an attorney.** Most attorneys offer one free consultation. If you decide to hire an attorney, his or her fee will be taken out of some of your benefits. For names of workers' compensation attorneys, call the State Bar of California at (415) 538-2120 or go to their web site at [www.californiaspecialist.org](http://www.californiaspecialist.org).

impuestos. Los pagos por incapacidad temporal son dos tercios de su pago semanal promedio, con cantidades mínimas y máximas establecidas por las leyes estatales. Los pagos no se hacen durante los primeros tres días en que Ud. no trabaje, a menos que Ud. sea hospitalizado(a) de noche, o no pueda trabajar durante más de 14 días.

**Regreso al Trabajo:** Para ayudarle a regresar a trabajar lo antes posible, Ud. debe comunicarse de manera activa con el médico que le atienda, el/la administrador(a) de reclamos y el empleador, con respecto a las clases de trabajo que Ud. puede hacer mientras se recupera. Es posible que ellos coordinen esfuerzos para regresarle a un trabajo modificado, o a otro trabajo, que sea apropiado desde el punto de vista médico. Este trabajo modificado, u otro trabajo, podría extenderse o no temporalmente, dependiendo de la índole de su lesión o enfermedad.

**Pago por Incapacidad Permanente:** Si el doctor dice que su lesión o enfermedad resulta en una incapacidad permanente, es posible que Ud. reciba pagos adicionales. La cantidad dependerá de la clase de lesión, su edad, su ocupación y la fecha de la lesión.

**Rehabilitación Vocacional:** Si el doctor dice que su lesión o enfermedad no le permite regresar a la misma clase de trabajo, y su empleador no le ofrece trabajo modificado o alterno, es posible que usted reúna los requisitos para rehabilitación vocacional. Si Ud. reúne los requisitos, su administrador(a) de reclamos pagará los costos, hasta un máximo establecido por las leyes estatales. Este es un beneficio para lesiones que ocurrieron antes de 2004.

**Beneficio Suplementario por Desplazamiento de Trabajo:** Si Ud. no vuelve al trabajo en un plazo de 60 días después que los pagos por incapacidad temporal terminan, y su empleador no ofrece un trabajo modificado o alterno, es posible que usted reúna los requisitos para recibir un vale no-transferible pagadero a una escuela para recibir un nuevo entrenamiento y/o mejorar su habilidad. Si Ud. reúne los requisitos, el administrador(a) de reclamos pagará los costos hasta un máximo establecido por las leyes estatales basado en su porcentaje de incapacidad permanente. Este es un beneficio para lesiones que ocurren en o después de 1/1/04.

**Beneficios por Muerte:** Si la lesión o enfermedad causa la muerte, es posible que los pagos se hagan a los parientes o a las personas que vivan en el hogar, que dependían económicamente del/de la trabajador(a) difunto(a).

**Es ilegal que su empleador** le castigue o despidan, por sufrir una lesión o enfermedad en el trabajo, por presentar un reclamo o por atestiguar en el caso de compensación para trabajadores de otra persona. (El Código Laboral sección 132a). Si es probado, puede ser que usted reciba pagos por pérdida de sueldos, reposición del trabajo, aumento de beneficios, y gastos hasta un límite establecido por el estado.

Ud. tiene derecho a estar en desacuerdo con las decisiones que afecten su reclamo. Si Ud. tiene un desacuerdo, primero comuníquese con su administrador(a) de reclamos, para ver si usted puede resolverlo. Si usted no está recibiendo beneficios, es posible que Ud. pueda obtener beneficios de Seguro Estatal de Incapacidad (SDI). Llame al Departamento Estatal del Desarrollo del Empleo (EDD) al (800) 480-3287.

Ud. puede obtener información gratis, de un oficial de información y asistencia, de la División estatal de Compensación al Trabajador (*Division of Workers' Compensation - DWC*), o puede escuchar información grabada, así como una lista de oficinas locales, llamando al (800) 736-7401. Ud. también puede ir al sitio electrónico en el Internet de la DWC en [www.dir.ca.gov](http://www.dir.ca.gov). Enlázese a la sección de Compensación para Trabajadores.

**Ud. puede consultar con un(a) abogado(a).** La mayoría de los abogados ofrecen una consulta gratis. Si Ud. decide contratar a un(a) abogado(a), sus honorarios se tomarán de sus beneficios. Para obtener nombres de abogados de compensación para trabajadores, llame a la Asociación Estatal de Abogados de California (*State Bar*) al (415) 538-2120, o vaya a su sitio electrónico en el Internet en [www.californiaspecialist.org](http://www.californiaspecialist.org).

## INJURED WORKER STATEMENT

Date: \_\_\_\_\_ Project Name: \_\_\_\_\_

Name: \_\_\_\_\_ Date of Birth: \_\_\_\_\_

Address: \_\_\_\_\_ City, State, Zip \_\_\_\_\_

Phone: \_\_\_\_\_ Phone 2: \_\_\_\_\_

Date of Incident: \_\_\_\_\_ Time of Incident: \_\_\_\_\_ ☐ AM ☐ PM

***What happened?*** (Explain in Detail)

---

---

---

---

---

---

---

---

---

---

List names of co-workers that witnessed the incident:

---

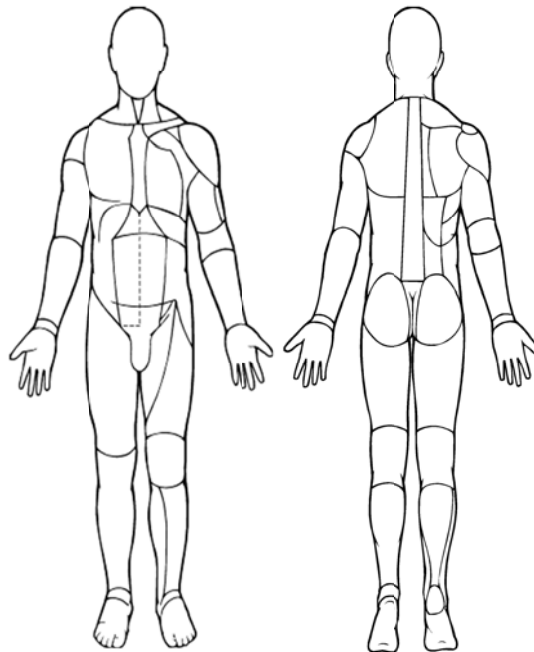
---

To what part of the body was the injury sustained?  
(Please print in this space and mark with "X" on diagram)

---

---

**Employee Signature:** \_\_\_\_\_



## EMPLOYEE WITNESS STATEMENT

Date: \_\_\_\_\_ Project Name: \_\_\_\_\_

Name of witness \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_ City, State, Zip \_\_\_\_\_

Phone: \_\_\_\_\_ Phone 2: \_\_\_\_\_

Date of Incident: \_\_\_\_\_ Time of Incident: \_\_\_\_\_ ☐ AM ☐ PM

Name of injured worker: \_\_\_\_\_

***What happened?*** (Explain in Detail)

[illegible]

I believe the preceding statement to be true to the best of my knowledge.

Witness Signature: \_\_\_\_\_

## SUPERVISOR STATEMENT

Date: \_\_\_\_\_ Project Name: \_\_\_\_\_

Name of supervisor \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_ City, State, Zip \_\_\_\_\_

Phone: \_\_\_\_\_ Phone 2: \_\_\_\_\_

Date of Incident: \_\_\_\_\_ Time of Incident: \_\_\_\_\_ ☐ AM ☐ PM

Name of injured worker: \_\_\_\_\_

***What happened?*** (Explain in Detail)

This image shows a blank sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

I believe the preceding statement to be true to the best of my knowledge.

Supervisor Signature: \_\_\_\_\_

## RETURN TO WORK PROGRAM

*Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.*

Webcor/Obayashi Joint Venture will attempt to provide modified work that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.

When an employee reports an injury, they will be given certain forms and may be taken to a doctor for treatment and/or an examination. If the doctor determines that the employee qualifies for our Return to Work Program, the doctor will complete a work status report with the recommended restrictions for modified duty. Webcor/Obayashi Joint Venture will then review the work status report and to the extent possible provide modified work until the employee is able to return to full duty. Modified work may be offered at any project and/or any shift.

You must inform your doctor that there is modified work available to you, regardless of your work restrictions. You must also report to work immediately if possible, or by the next working day to inform your supervisor in any changes to your work restrictions. You must give your supervisor your written work status from the doctors listing all work restrictions. You may not return to work without release from your doctor.

This letter serves as notice to you that modified work is available to you. Failure to return to the position that is available may affect your employment with Webcor/Obayashi Joint Venture.

Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and, whenever possible, continue to contribute to the success of our organization.

☐ I have read and fully understand the above policy for Webcor/Obayashi Joint Venture Return-To-Work Program.

Signing this form states that I will accept modified duty.

\_\_\_\_\_  
Employee Name (Printed)

\_\_\_\_\_  
Employee Signature

\_\_\_\_/\_\_\_\_/\_\_\_\_  
Date



## RETURN TO WORK AGREEMENT

Webcor/Obayashi Joint Venture has modified work available that allows our injured employees an opportunity to return to work on a modified work status whenever possible. This modified work process will focus on your abilities and we will attempt to make the necessary accommodations for your work restrictions.

Information received from Dr. \_\_\_\_\_ indicates that although you are not able to perform all of your customary job duties, you may perform other modified duties as of \_\_\_\_/\_\_\_\_/\_\_\_\_ that are within the following restrictions/capabilities:

We request that you report on:

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Report to: \_\_\_\_\_

Days Per Week: \_\_\_\_\_

Hours Per Day: \_\_\_\_\_

*\* Wages will not be affected by this agreement.*

*Modified work is defined as the temporary period of time when the employee first comes back to work with restrictions or job modifications, until the time when they are fully functional in their job or the Company determines that it cannot reasonably accommodate the work restrictions.*

This letter serves as notice that modified work is available to you. Failure to return to the position that is available may affect your workers' compensation benefits and may be grounds for termination.

Webcor/Obayashi Joint Venture feels it is important to create an environment that allows injured employees an opportunity to recover to their maximum potential and continue to contribute to the success of our organization.

☐ I \_\_\_\_\_ agree to the restrictions given to me by the doctor and will report For modified duty on \_\_\_\_/\_\_\_\_/\_\_\_\_.

☐ I declined this modified work position.

\_\_\_\_\_  
Employee Signature

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Date

If you have any questions or concerns, please contact Danielle DiRicco at 510-476-2578 or 650-520-4251.

## MODIFIED DUTY OFFER LETTER

3/20/2008

Jane Doe  
1234 Happy Lane  
San Francisco, CA 94105

Re: Bona Fide Offer for Modified Duty  
Dear Jane Doe:

Webcor/Obayashi Joint Venture has offered you modified duty to accommodate the restrictions given by your doctor. Our records show that you have not shown up to work or called your Supervisor in 3 days, we would like to offer you once again modified duty to help you transition back to your full capacity.

We believe this assignment is within your capabilities as described by your doctor. You will only be assigned tasks consistent with your physical abilities, skills and knowledge. If any training is required to do this assignment, it will be provided.

Job title: \_\_\_\_\_

Description of physical requirements of this position \_\_\_\_\_

Address: \_\_\_\_\_

Work Hours: From: (\_\_\_\_\_) To: (\_\_\_\_\_) \_\_\_\_\_

(Wages will not be affected)

Job: \_\_\_\_\_ Supervisor \_\_\_\_\_

-Attached is a copy of the letter you signed at the doctor's appointment when you were put on modified duty, stating you agreed to accept modified/light duty.

-Attached is a copy of the doctor's status report with your restrictions.

This job offer will remain open for 48 hours from your receipt of this letter. If we do not hear from you within 48 hours, we will assume that you have refused this offer and this may be grounds for termination.

We look forward to your return. If you have any questions, please do not hesitate to contact me at: 510-476-2578 or 650-520-4251 or email me at [ddiricco@webcor.com](mailto:ddiricco@webcor.com)

Sincerely,

Danielle DiRicco  
Safety Project Assistant

**DO NOT USE.**  
**FOR USE BY SAFETY SPECIALIST ONLY.**

# ELEVATED WORK

## Policy & Scope

All contractors have the duty to provide fall protection for all workers potentially exposed to a fall situation. Safety harness is the only acceptable means of personal fall arrest system permitted on this site. the use of safety body belts is not acceptable and violates federal OSHA standard 1926.502 (d).

## Pre-Task Planning/Job Hazard Analysis

Work activities that expose worker(s) to fall hazards of 6 feet or more, work on/around scaffolding, as well as overhead work requiring the worker to be 6 feet or more above the work platform are activities defined by Webcor/Obayashi Joint Venture to be High Hazard and therefore require detailed, written pre-task planning.

## Duty to have Fall Protection

All workers must be protected from the hazard of falls whenever work is being completed at heights of six feet (6') or greater measured from the work platform to the bottom of the sole of the foot. The six-foot rule, at minimum, applies to the following conditions:

- Ladders
- Walking and working surfaces
- Unprotected sides and edges
- Hoist areas
- Holes
- Formwork and reinforcing steel
- Ramps, runways, and other walkways
- Excavation and trenching
- Dangerous or large pieces of equipment
- Overhand bricklaying and related work
- Precast concrete erection
- Wall openings
- Floor openings
- Leading edge
- Scaffolding erection/dismantle
- Any additional circumstance that may be deemed necessary by Webcor/Obayashi Joint Venture.

## Fall Protection Systems

Anytime a potential fall hazard of 6 feet or more exists, a suitable fall protection system must be provided to protect the worker. Examples of suitable systems include the following:

- Guardrail Systems
- Warning Line Systems
- Safety Net Systems
- Positioning Device Systems
- Personal Fall Arrest Systems

## **Falling Object Protection Systems**

Anytime a potential hazard of falling objects exists, suitable systems must be provided to protect workers. Examples of suitable fall object protection systems include the following:

- Covers
- Toe boards
- Canopies
- Debris Nets

## **Safety Monitoring Systems**

Webcor/Obayashi Joint Venture does not recognize the use of safety monitors as an effective means of ensuring the safety of persons at elevated heights; hence, the use of a safety monitor is only allowed when all other means have been demonstrated to be infeasible. A member of Webcor/Obayashi Joint Venture Project Management, competent in fall protection, will make the final determination, and then only after a written fall protection plan limited to the actual work to be performed is approved by Webcor/Obayashi Joint Venture.

## **Personal Fall Arrest Systems**

Personal fall arrest systems are designed to control the fall of a worker and minimize the injury once a worker has fallen. Personal fall arrest systems consist of the following components:

- Full body harness (body wear)
- Shock absorbing lanyard or retractable (connecting device)
- Tie off point (anchorage)
- Training

## **Specific Requirements**

- Safety harness is the only acceptable means of personal fall arrest system permitted on any Webcor/Obayashi Joint Venture project; the use of body belts is not acceptable for fall protection (including positioning systems).
- Retractable lanyards are the most preferred fall protection systems for this project.
- Each subcontractor and tiered subcontractor is responsible for providing and requiring the use of safety harnesses, lifelines and lanyards when workers are exposed to a fall of 6 feet or greater.
- All subcontractors must provide safety harness at their cost when fall protection is required.
- All lanyards must be equipped with locking snap hooks.
- Appropriate shock absorbing lanyards will be used for fall protection when they do not create a greater hazard due to the length of the potential fall.
- Shock absorbing lanyards are not to be used in combination with a retractable lanyard.
- Any safety harness, lifeline or lanyard actually subjected to in-service loading MUST be immediately removed from service and should not be used again for worker safeguarding.
- Fall arrest equipment should be removed from service when evidence of wear is detected.
- Retractable lifelines are preferred where direct anchorage is not available.
- All safety harnesses, lifelines and lanyards must have a nominal breaking strength of 5,000 lbs (5,400 lbs in CA).

- The anchorage (tie off point) must be capable of withstanding a minimum 5,000 lbs (5,400 lbs in CA) tensile strength per worker attached.
- Anchorage used for attachment of personal fall arrest equipment should be secured above the point of operation whenever possible
- Anchorage, tie off, must generally be above the worker's head.
- Anchorage must be high enough that the worker will not strike any lower level surface or object should a fall occur.
- All fall protection equipment shall be inspected daily/monthly and before each use, with documentation made available upon request that it is in proper working order.

### **Rescue Plans**

Specific plans for rescue of workers should be developed and rehearsed prior to initiating work requiring the use of fall protection. Rescue plans and the basic work plan should be submitted to the Webcor/Obayashi Joint Venture Project Management for review and comment. Concerns expressed by Webcor/Obayashi Joint Venture Project Management or any other reviewing authority shall be addressed fully prior to exposing any worker to the elevated work area.

### **Floor & Wall Openings and Guard Rail Systems**

To control conditions where there is a danger of workers or materials falling through floor, roof, perimeter edges or wall openings, such openings should be covered/protected and marked with a warning sign (i.e., DANGER HOLE, DO NOT REMOVE).

All protection systems are to be maintained at all times. Any violation that is not rectified immediately will result in removal of the responsible supervisor. Further violations will result in termination for cause of the responsible subcontractor's contract.

### **Floor Openings**

Floor opening covers should be capable of supporting the maximum intended floor load and installed so as to prevent accidental displacement. Covers should be distinctively marked and anchored. For purposes of covering, a floor opening is defined as any opening from 2" up to 16 square feet. All others must be protected with top and intermediate rail and toe board.

### **Rail Systems**

- **Standard Railing:** A standard railing should consist of a top rail, intermediate/mid-rail, toe board and posts:
  - The top rail should be approximately 42 inches from the upper surface of the rail to the floor, platform, or ramp level. The top rail should have a smooth surface throughout its length and be made of at least 2-inch by 4-inch stock, 3/8-inch double clamped wire rope or its equivalent. It should be secured to withstand a 200-pound, horizontal force with minimum deflection.
  - The midrail should be halfway between the top rail and the floor, runway, platform, or ramp. The ends of the rail should not overhang the terminal posts except when it does not constitute a projection hazard. The midrail sill should be made of at least 1-inch by 6-inch stock or its equivalent.
  - The toe board should have a 4-inch minimum height and should be securely fastened in place with no more than 1/4 inch clearance above the floor level.

- Wooden railing posts (verticals) should be made of at least 2-inch by 4-inch stock or its equivalent, and be spaced so as not to exceed 8 feet on center.
- Other Railings: Other types, sizes and arrangements of railing construction are acceptable, provided they meet the following requirements:
  - A smooth surfaced top rail approximately 42 inches above the floor.
  - Strength to withstand the minimum of 200 pound top rail pressure with a minimum of deflection.
  - For specific material requirements, refer to applicable regulations.

### **Guard Rail Openings**

- Work that requires the opening of guardrails or the removal of hole covers shall be approved in advance by the Webcor/Obayashi Joint Venture Project Management.
- Particular attention shall be given to the alternate means of fall protection required to safely perform the work and protect other workers in the vicinity of the fall exposure.
- Those who remove the rail, are responsible for replacing it in a manner meeting or exceeding local, state, federal, or Webcor/Obayashi Joint Venture practices, whichever may be more stringent.

### **Safety Nets**

Safety nets will comply with CFR 1926.502 requirements. The use of safety nets may be allowed only after a written fall protection plan limited to the actual work to be performed is reviewed and approved by Webcor/Obayashi Joint Venture. Below are guidelines for Safety Nets:

- Safety nets should be provided by the subcontractor or tiered subcontractor when work places are more than 25 feet above the ground or other surfaces where the use of ladders, scaffolds, catch platforms, temporary floors, safety lines or safety harnesses are impractical. When safety net protection is required, operations should not be undertaken until the net is in place and has been thoroughly tested.
- Safety nets should extend 8 feet beyond the edge of the work surfaces where workers are exposed and should be installed as close under the work surface as practical. In no case should the safety net be more than 25 feet below the work surface. Nets should be hung with sufficient clearance to prevent the user's contact with surfaces or structures below. Clearances should be determined by impact load testing.
- The mesh size of the nets should not exceed 6 inches by 6 inches. All nets should meet accepted standards of 17,500 foot pounds minimum impact resistance, as determined and certified by the manufacturer, and should bear a label of proof test. Edge ropes should have a minimum breaking strength of 5,000 pounds. Forged steel safety hooks or shackles should be used to fasten the net to its supports. Connections between net panels should develop the full strength of the net.

### **Fall Protection Training**

Subcontractors and all tier subcontractors must provide as a minimum, by a competent person, the following training. Documentation of training must be forwarded to Webcor/Obayashi Joint Venture upon request. Training must include, at a minimum:

- The nature of the fall hazards in the work area.
- The correct procedure for erecting, maintaining, disassembling and inspecting the fall protection systems to be used (the installation of personal fall protection systems cannot in themselves create a fall hazard exposure to the worker installing the system).

- The use and operations of guardrail systems, personal fall arrest systems, safety net systems, warning line systems, safety monitoring systems (refer to section 2.3 of this Appendix), controlled access zones and any other methods of protection to be used.
- The role of each worker in the safety monitoring system (refer to section 2.3 of this appendix) when this system is approved for use.
- The limitations on the use of mechanical equipment during the performance of roofing work on low-sloped roofs.
- The correct procedures for the handling and storage of equipment and materials and the erection of overhead protection.
- The role of workers in fall protection plans.

### **Aerial Lifts**

- Lifts should be inspected each day prior to use to verify they are in safe working condition. (Refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines.)
- Only authorized persons should operate an aerial lift, and must be trained on the equipment they will be operating.
- Always stand on the floor of the basket, do not sit or climb on the edge of the basket or use planks, ladders, or other devices for a work position.
- A body harness should be worn and a shock absorbing lanyard attached to the boom or basket when working from an aerial lift. Tying off to an adjacent pole, structure or equipment is not permitted.
- Boom and basket load limits specified by the manufacture should not be exceeded.
- The brakes should be locked and when outriggers are used, they should be positioned on pads or a solid surface. Wheel chocks must be used before using an aerial lift on an incline provided they can be safely installed.
- An aerial lift truck should not be moved when the boom is elevated with personnel in the basket.
- Aerial lifts should have both platform (upper) and lower controls. Upper controls should be in or beside the platform within easy reach of the operator. Lower controls should provide for overriding the upper controls. Controls should be plainly marked as to their function. Lower level controls should not be operated unless permission has been obtained from the employee in the lift, except in case of emergency.
- Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement.
- A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures or in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.

### **Scissor Lifts**

- Lifts should be inspected each day prior to use to determine that they are in safe working condition (refer to Scissor/Boom Lift Inspection form at the end of this Appendix or use manufacturer's inspection guidelines).
- Only authorized persons should operate a scissor lift, and must be trained on the equipment they will be operating.
- Lifts should be operated in accordance with manufacturer's recommendations.

- Lifts must be thoroughly inspected to determine if they require two hands or a hand and a foot to operate. Any lift that does not meet these conditions must immediately be removed from service and either returned, replaced, or modified to meet this requirement. If the requirement cannot be met for a two-hand controlled scissor lift, and a lift is unavailable to meet this requirement, a spotter will be needed for all equipment movement (other than incidental movement where there is no potential for operator injury due to physical contact with facility systems or structures).

Note: A spotter may be needed when there is a potential for operator injury due to physical contact with facility systems or structures and in congested areas. Spotters may also be needed when there is a potential for damage to sensitive facility systems or structures.



# RESPIRATORY PROTECTION PROGRAM

## Purpose

The purpose of this plan is to establish a program and procedures for wearing respiratory protection at **WEBCOR/OBAYASHI JOINT VENTURE**.

This program supports compliance with the Occupational Safety and Health Administration Respiratory Protection Standard as found in 29 CFR 1910.134. This program applies to all company employees who work in areas whose exposures to airborne contaminants require the use of respirators.

## Definitions

*Dusts:* Particles released during work operations such as grinding and sawing.

*Fit Testing:* The process of making sure that an employee's respirator fits properly and will provide the necessary protection without any leaks.

*Fumes:* Vaporized, condensed metals such as lead that may be present during welding operations.

*Gases:* Examples include nitrogen, methane, and carbon monoxide.

*IDLH:* An OSHA hazard classification—"Immediately Dangerous To Life & Health." An atmospheric condition that poses an immediate hazard to life or poses immediate irreversible debilitating effects on health.

*Mists:* Particles of liquid released during operations such as spray painting.

*NIOSH:* National Institute for Occupational Safety and Health; an agency that establishes minimum performance standards for respirators and tests and approves respirators for various uses.

*Vapors:* Gaseous forms of a liquid such as paint solvents.

## Responsibilities

### The Program Administrator

Responsible for:

- Issuing and administering this program and making sure that the program satisfies the requirements of all applicable federal, state, or local respiratory protection requirements.
- Providing initial and periodic training to employees on respiratory protection requirements.
- Conducting hazard assessments where respiratory hazards may be present.
- Assisting managers and supervisors in the selection of appropriate respiratory protection for use on their jobsites.
- Auditing the respiratory protection program to ensure its continued effectiveness.

The Purchasing Agent will be the Jobsite Superintendent.

Responsible for:

- purchasing respiratory protection equipment.
- Assuring that all equipment purchased is approved by NIOSH/MSHA.

Superintendents Whose Jobsites Are Required To Wear Respiratory Equipment.

Responsible for:

- Knowing the hazards in their areas that require respiratory protection.
- Knowing the types of respirators that need to be used.
- Enforcing the wearing of respiratory protection in the areas where it is required.
- Making sure employees are knowledgeable about the respiratory requirements for the areas in which they work.
- Providing training on hazardous chemicals to employees.

Employees Who Are Required To Wear Respiratory Protection.

Responsible for:

- Wearing appropriate respiratory protection.
- Properly maintaining their respiratory protection equipment and keeping it in a clean and operable condition.

Program Activities

*General*

- Respiratory hazards will be assessed on the jobsite and appropriate protection will be provided for all affected employees.
- Employees are required to wear respiratory protection wherever respiratory hazards exist.
- Respiratory protection is stored and issued from the jobsite office.
- Efforts will be made to minimize the use of hazardous chemicals in the workplace.
- If the use of hazardous chemicals creates an imminent-danger situation, the operation will be discontinued.

*Selection and Use of Respirators*

- Respirators will be selected according to the type of activity for which they will be used and the type of potential air contaminants associated with these activities.
- Only NIOSH/MSHA approved respirators will be used.
- All respirator protection equipment will be used in accordance with the manufacturer's recommendations.
- In areas in which maintenance and sanitation services are unavailable or respiratory usage is limited, disposable respirators will be used.
- Non disposable respirators which are used exclusively by one person will be maintained and cared for by the wearer.
- All non disposable respirators which are used by more than one person will be cleaned and sanitized between each use.
- Jobsite Superintendents will be responsible for re-issuing of respirators.
- Chemical cartridge respirators will be stored in airtight, labeled containers between each use. All other respirators will be stored in a clean and sanitary manner and labeled with the wearer's name.

- Disposable respirators will be used until the cartridge or filter media requires replacement or when the face piece is dirty.

#### *Respirator Inspection and Maintenance*

- Respirators will be inspected by the wearer prior to each use.
- Supervisors on jobsites where respirators are used will verify that appropriate respirator protection is being used, inspected, and maintained properly.
- Non disposable respirators will be inspected according to the manufacturer's instructions.

#### *Fit Testing*

- All users of respirators will be fit tested to ensure a proper face piece-to-face seal.
- Employees whose facial hair interferes with the face piece-to-face seal will not be allowed to wear negative-pressure air-purifying respirators.

#### *Training*

- All employees who are required to wear respirators will receive training in their use, selection and appropriate maintenance.
- Training will provide an opportunity for the employee to handle the respirator, have it fitted properly, test the face piece-to-face seal, wear it in normal air, and wear it in a test atmosphere.

#### *Wearing Respirators In Emergency Situations*

- Respiratory protection designated for emergency use will be inspected monthly.
- All employees who are expected to use emergency equipment will be trained in its use.

## **SILICA EXPOSURE PROGRAM**

### **Purpose**

The purpose of this policy is to establish procedures to protect employees from the health hazards associated with exposure to airborne crystalline silica generated by various construction activities. Due to the amount of work we do with concrete and masonry on almost any project; our workers have the potential for silica exposures through abrasive blasting, chipping, hammering, sawing, grinding or demolition of concrete.

Silicosis is a lung disease marked by hardening of lung tissue and symptoms such as shortness of breath, possible fever, fatigue and eventual respiratory failure. Silicosis also renders a person more susceptible to disease of the lungs, such as tuberculosis. Where there is concrete, there is a potential silica exposure so it is essential to monitor our work activities and take the necessary corrective actions to protect our employees.

### **Responsibilities**

Project Supervision shall:

- Evaluate all work activities for silica exposures
- Institute engineering controls as a first line of protection to reduce silica exposures
- Institute all administrative/work practice controls to reduce silica exposures when feasible and when engineering controls have been explored and ruled out.

- Institute the use of respirators to reduce exposures when the above mentioned controls fail to reduce silica exposure levels
- Provide training identified in this policy when employees are exposed to silica hazards
- Provide necessary respirator protection as well as training in its proper use, when deemed necessary.

Craftsmen shall:

- Follow all work plans that identify engineering and administrative work practice controls to reduce their exposure to crystalline silica
- Wear respiratory protection to reduce their exposure to crystalline silica when deemed necessary by their supervisor
- Not eat, drink, use tobacco products or apply cosmetics in areas where there is dust containing crystalline silica

## **Procedure**

### **Exposure Assessment**

- Work tasks that must be monitored for crystalline silica exposure include by are not limited to:
  - Jack hammering and chipping
  - Grinding concrete
  - Tunneling
  - Sandblasting
  - Dry sweeping or blowing concrete debris, sand or rock dust
  - Demolition of concrete/masonry structures
  - Crushing, loading, dumping rock or concrete
  - Saw cutting concrete or rock
  - Crystalline silica exposures must be maintained below the OSHA PEL of 10mg/m<sup>3</sup> (Percentage Quartz) +2
  - Historical data from similar operations producing silica exposure can be used as exposure monitoring when feasible
  - Assessment of worker exposure to respirable crystalline silica dust during various tasks associated with concrete finishing and demolition activities is performed annually by an Industrial Hygienist. Specific job tasks monitored include:
    - Grinding and Patching
    - Chipping
    - Demolition
    - Segregation, stockpile, and loading of concrete rubble

### **Engineering Controls**

- When it has been determined that employees will be exposed to crystalline silica in excess of the PEL, engineering controls will be used as a first line of defense.
- Engineering controls include, but are not limited to:
  - Use of dust collection systems which are available for many dust generating tools and equipment
  - Wetting down the grinding or cutting surface to reduce dust emissions

- During saw cutting, use equipment that provides water to the blade
- During rock drilling, use water through the drill stem to reduce the amount of dust in the air
- During abrasive blasting use abrasives with a low silica or no silica content
- Use local exhaust ventilation to prevent dust from being released into the air
- In the event engineering controls fail to reduce worker silica exposure below the PEL administrative controls will be the next line of defense.

### **Administrative/Work Practice Controls**

- When engineering controls cannot be utilized or are not effective to sufficiently reduce exposure to the inhalation of silica, administrative controls will be used when feasible to reduce the time of exposure for the employees
- Where work crews are of sufficient size, the pool of workers skilled in the operation of applicable tools, and job duration is sufficient to accommodate worker rotation, develop a program to reduce the exposure time of individual workers to silica.

### **Respirator Protection**

- When engineering and administrative/work practice controls cannot be utilized or are not effective to sufficiently reduce exposure to inhalation of silica, respirators must be used to reduce employee exposures.
- Select respirators based on the criteria identified in the respirator protection section of this manual.

### **Follow-up Monitoring**

- After initial assessment and institution of exposure controls, follow-up air monitoring will be conducted to assess the effectiveness of the controls put in place
- In the event that the follow-up monitoring reflects that instituted controls have not yet reduced employee exposures, the operations will cease, be re-evaluated and alternative controls will be explored to reduce employee exposures to silica

### **Training**

- Employees will be trained in the following
  - Hazards of silica exposure
  - The requirements of this program
  - Engineering and administrative/work practice controls, if any, that have been instituted to control silica exposures
  - Personal protective equipment specific to their work assignments
  - The employees right of access to exposure monitoring and medical records.

### **Emergency Procedures**

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Call 911</li> <li>• Identify the injury</li> <li>• Provide necessary first aid</li> <li>• Ventilate the area</li> <li>• Utilize the eye wash station</li> <li>• Stabilize the person, wear PPE</li> </ul> | <ul style="list-style-type: none"> <li>• Don't move injured unless absolutely necessary</li> <li>• Secure scene, make sure no one else can be hurt</li> <li>• Release care of injured to emergency personnel</li> <li>• Get medical screening if you come into contact with blood</li> </ul> |
|--|--|

# CONCRETE CODE OF SAFE PRACTICES

## Introduction

The concrete appendix is established to assist in conforming to the requirements for all construction activities involving concrete performed on Webcor/Obayashi Joint Venture projects. This includes, but is not limited to:

- Cast in Place
- Shoring & Reshoring
- Formwork/False work
- Post Tensioning
- Placing & Finishing
- Etc.

## Definitions

*Bull float* means a tool used to spread out and smooth concrete.

*Formwork* means the total system of support for freshly placed or partially cured concrete, including the mold or sheeting (form) that is in contact with the concrete as well as all supporting members including shores, reshores, hardware, braces, and related hardware.

*Limited access zone* means an area alongside a masonry wall, which is under construction and which is clearly demarcated to limit access by employees.

*Precast concrete* means concrete members (such as walls, panels, slabs, columns, and beams) which have been formed, cast, and cured prior to final placement in a structure.

*Reshoring* means the construction operation in which shoring equipment (also called reshores or reshoring equipment) is placed, as the original forms and shores are removed, in order to support partially cured concrete and construction loads.

*Shore* means a supporting member that resists a compressive force imposed by a load.

## Fall Protection

Workers working more than 6 feet above any adjacent working surface or placing reinforcing steel in walls, piers, columns, etc. should be protected by personal fall arrest system, guardrail system or equivalent device. In addition to the above general guidelines, the following specific guidelines will also apply

- Unless otherwise provided by a site specific fall protection plan, the placing of frames and stringers should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms.
- Unless otherwise provided by a site specific fall protection plan, the first several joists spread should be from below via appropriate ladders, temporary work platforms, false decks, scaffolds, or other similar work platforms. Once the first several joists are positioned, a work platform (e.g. 4x6 sheet of

plywood or similar) should be placed on top of a placed joists and all further spreading of joists should take place from this work platform or successive sheets of plywood laid to extend this platform. Work should take place from the center of the bay, with joists spaced no greater than 24" on center. Any work within 6' of the leading edge and greater than 6' above a lower working surface should be protected by a suitable fall protection system.

- Workers inside a Cunningham beam for, where the form leading edge is less than 39" in height and the worker is greater than 6' above a lower working surface, should be protected by a suitable fall protection system consisting of a catenary or similar pendant type line and personal fall arrest system.
- As soon as practical, a perimeter guardrail system should be established. For more information on guardrail systems refer to the Elevated Work Appendix.
- Special attention and consideration should be given to workers on ladders within 6' of leading edge such as when working on columns or wall forms. Additional fall protection measures may be required.
- When working on vertical reinforcing steel columns or false work, fall protection should be set in advance from ladders, manually propelled elevated work platforms, or similar means so that 100% fall protection can be utilized.
- Workers on wall forms greater than six (6) feet above any adjacent working surface should be protected from falling by a personal fall arrest system or equivalent system. Ensure appropriate anchorage points are provided and utilized. Where applicable, a two hook system for 100% fall protection should be utilized.
- Workers who are placing or tying reinforcing steel more than six (6) feet above any adjacent working surface should be protected from falling by personal fall arrest system or equivalent system.
- When workers are exposed to falls greater than six (6) feet above any adjacent working surface while erecting or dismantling shoring systems, they should have suitable fall protection as necessary utilize an appropriate anchorage point
- In addition to the above fall protection requirements, when erecting and dismantling shoring, a minimum of two scaffold grade planks should be used or other similar means, such as mobile scaffolding, lifts, etc. Planks should rest on horizontal frame members and not on cross bracing.
- The use of positioning systems as a sole means of fall protection is not permissible.

For additional information on fall protection requirements, refer to the Elevated Work Appendix.

## **Formwork/False work**

### **General Guidelines**

- Formwork, false work and shoring should be designed, fabricated, erected, supported, braced and maintained so that it will be capable of supporting without failure all vertical and lateral loads that may reasonably be anticipated to be applied to the formwork. Formwork which is designed, fabricated, erected, supported, braced and maintained in conformance with ANSI A10.9-1983 Construction and Demolition Operations – concrete and masonry work, will be deemed to meet the requirements of this paragraph.

- Drawings or plans, including all revisions, for the jack layout, formwork (including shoring equipment), working decks, and scaffolds, should be available at the jobsite.
- Procedures for safe installation, removal, lifting etc., should be available at the jobsite and all workers appropriately trained in these procedures as applicable.
- Work areas should be clear of all unauthorized personnel during installation, concrete placement and removal. Appropriate barricading, delineation and/or signage should be placed to limit access and alert other workers of hazards associated with the work area.
- At no time should workers place themselves underneath a live load.
- When hoisting material, the worker should be positioned to the side of the hoisted material and never into the pinch point between the hoisting equipment and the material or in the area where an operator would land material in the event of an emergency.
- Appropriate tag lines should be utilized as required and two tag lines may be necessary to help align/control panels or forms.
- Safe means of access and egress should be maintained at all times.

#### Removal

- Forms and shores (except those used for slabs on grade and slip forms) should not be removed until the employer determines that the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination should be based on compliance with one of the following:
  - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
  - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and the test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.
- Prior to dismantling, the entire system should be inspected to determine if there are any hazards from displacement, weakening, alterations etc. of the shoring and false work.
- Shores, cross braces etc. should only be removed in the immediate work areas and as appropriate.
- All nails should be removed or bent over immediately upon stripping.
- Shoring, formwork and all other equipment being removed should be stacked, consolidated or placed in an orderly manner as soon as practicable during the removal operation and egress/access paths maintained at all times.
- Only appropriate tools should be used for removal of shoring and formwork. i.e. pry bars, cats paws, etc. versus the claw end of hammers, screwdrivers etc.

#### Shoring and Reshoring

##### General Guidelines

- All shoring and reshoring operations should comply with all federal, state local and manufacturers regulations.
- All shoring equipment (including equipment used in reshoring operations) should be inspected prior to erection to determine that the equipment meets the requirements specified in the formwork drawings.



- Shoring equipment found to be damaged, severely rusted, missing locking devices etc. should not be used for shoring. Shoring equipment that is in place and is found to be damaged or weakened, should be immediately reinforced.
- Erected shoring equipment should be inspected immediately prior to, during and immediately after concrete placement.
- The sills for shoring should be sound, rigid and capable of carrying the maximum intended load.
- Base plates should be attached to a minimum of 12' square, 2" plywood or equivalent.
- All base plates, shore heads, extension devices, and adjustment screws should be in firm contact, and secured when necessary, with the foundation and the form.
- Existing ground should be level, adequately compacted and loads distributed. Consideration should be given to adverse weather conditions such as washouts, rain impact to slopes etc. Special precautions such as hardwood wedges or bracing should be utilized on sloped surfaces.
- All clamps, screws, pins and other similar components should be in a closed or engaged position.
- Eccentric loads on shore heads and similar members are prohibited unless these members have been designed for such loading. Ensure stringers are centered on these members to minimize eccentric loading.
- Adequate access should be provided to all form deck surfaces. If access ladders are required these should be secured and extend at least 36" above the form deck surface.
- When horizontal shoring is required, these should be engineered and special consideration should be given to installation and conformance to the completed design.
- Ensure all stringers and joists are fully supported and centered over shoring heads/top plates and adequately secured. Further, ensure that all stringers and joists are fully upright and not rolled.
- All horizontal shoring should be installed and erected in compliance with manufacture's requirements as well as federal, state and local regulations.

#### Frame Shoring

- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alteration in frame spacing's, types used, towers heights, locations or sizes.
- Shoring loads should be carried on all legs.
- All shoring frames should be plumb and level. This should be checked and corrected at a minimum of during erection and just prior to the pour. Adjustment of shoring frames should not be made once the pour begins.
- When shoring height exceeds a minimum of four (4) times the minimum base width, additional bracing and securing of the frames should be performed.
- Cross braces should never be climbed and workers should climb frames from the inside.

#### Screw Jacks

- Screw jacks should not exceed the manufactures recommended extension height at any time.

- Screw jack extension should be kept to a minimum for maximum load carrying capacity.
- All screw jacks should be in firm contact with the foundation and frame legs.

#### Post Shoring

- The single post shores should be vertically aligned/plumbed. This should be checked and corrected at a minimum of during erection and just prior to the pour.
- Adjustment of post shores for any reason, including but not limited to raising formwork, should not be made once the pour begins.
- Refer to the manufacture's guidelines for additional stability measures and bracing requirements of each system used.
- Post shores should be adequately secured at top and bottom to prevent displacement.
- Whenever single post shores are used one on top of the other (tiered), they should comply with the following specific guidelines in addition to the general guidelines for formwork:
  - The single post shores should be spliced to prevent misalignment.
  - The single post shores should be adequately braced in two mutually perpendicular directions at the splice level.
  - Each tier should also be diagonally braced in the same two directions.

#### Ellis Shores

- Ensure shores are erected with the proper length of timbers allowing a minimum of 24" overlap between shore members.
- The shore clamps should be attached 12" apart with the upper clam at a minimum of 2" from the top of the lower shore. Each clamp should be secured with the appropriate number of type of duplex nails.
- Shores should be raised to the desired height by sliding the upper shore member upwards being careful to avoid pinch points.
- Shore hand jacks should not be used to raise decks, lift formwork or elevate concrete.
- Ensure all shores, jacks and clamps are inspected prior to use and any damaged or defective materials are removed or repaired prior to use.
- Safety nails should be secured above each clamp of the upper shore member casting to prevent uplift or movement during vibration.

#### Reshoring

- Shores should not be removed, including cross bracing, until the concrete has gained sufficient strength to support its weight and superimposed loads. Such determination shall be based on compliance with one of the following:
  - The plans and specifications stipulate conditions for removal of forms and shores, and such conditions have been followed, or
  - The concrete has been properly tested with an appropriate ASTM standard test method designed to indicate the concrete compressive strength, and test results indicate that the concrete has gained sufficient strength to support its weight and superimposed loads.

- Stripping and removal of shoring equipment should be performed in conformance to the approved stripping sequencing plan.
- Reshoring should be erected, as the original forms and shores are removed, whenever the concrete is required to support loads in excess of its capacity.
- The design of the shoring should be prepared by a qualified designer and the erected shoring should be inspected by an engineer qualified in structural design.
- The shoring design or layout drawing should be followed with no omissions of required components, or alterations in spacing's, types used, heights, locations or sizes.
- Reshoring should not be removed until the concrete being supported has attained adequate strength to support its weight and all loads in place upon it.
- Reshores should be placed directly below load carrying legs to avoid punch through, stress reversals or other undesirable forces on the poured concrete.
- Slabs or beams should be allowed to take their permanent deflection before final adjustment of reshoring equipment is made.
- Horizontal shoring should never be used as part of a reshoring system.

#### Bracket Scaffolds

- Bracket scaffolds should only be used when through bolted walls, with at least 5/8" diameter bolts.
- Scaffolds should be solidly secured to the walls or the supporting structure.
- Scaffolds should be able to support at least 4 times the maximum intended working load.
- Spacing of brackets should not be greater than 10' apart.
- Railings should be installed on all scaffolds 6' or greater in height.
- Platforms should consist of at least two 2"x10" planks that extend at least 6" over each bracket and no more than 18".
- Platforms should be solidly planked with no more than 7" gap under the back rail and 14" gap to the face of the form.
- Planking should be scaffold grade lumber or equivalent and should be free from damage, defects, cracks, splits etc. Damaged planks should not be used.

#### Reinforcing Steel

- All protruding reinforcing steel, onto and into which employees could fall, should be guarded to eliminate the hazard of impalement. When working at grade, impalement hazards from 4" to 6' in height, at a minimum, should be protected.
- Reinforcing steel for walls, piers, columns, and similar vertical structures should be adequately supported to prevent overturning and to prevent collapse.
- Employers should take measures to prevent unrolled wire mesh from recoiling. Such measures may include by are not limited to securing each end of the roll or turning over the roll.
- Reinforcing steel should be stockpiled as close as practicable to work areas. Additionally special attention should be taken towards access and egress to work areas, excavations and ensuring work areas are free from tripping hazards or other surface encumbrances.

## **Concrete Placement and Finishing**

### **General**

- Appropriate PPE should be utilized during concrete placement. This includes but is not limited to; safety glasses, fall protection, gloves, boots, hardhat, and long sleeves. Refer to the Personal Protective Equipment appendix for more information.
- Appropriate respiratory protection should be used for all concrete cutting, grinding, sanding, and blasting, scabbling, dry mixing, jack hammering etc. operations or any other operation involving respiratory hazards. Refer to the Respirator Protection Appendix for more information.
- When discharging concrete on a slope, the wheels of ready-mix trucks should be blocked, the brakes set to prevent movement and the operator with the vehicle at all times.
- All washout activities should be completed in the designated washout area.
- All concrete cutting, finishing and cleanup should be done in such a manner that all residue or waste water will be properly contained and disposed of.
- Appropriate precautions should be taken for specialty applications (e.g. acid washing, dyes, stains etc.); in their handling, storage use and disposal.
- Powered and rotating type concrete troweling machines that are manually guided should be equipped with a control switch that will automatically shut off the power whenever the hands of the operator are removed from the equipment handles.
- Bull float handles used where they might contact energized electrical conductors, should be constructed of nonconductive material or insulated with nonconductive sheath that's electrical and mechanical characteristics provide the equivalent protection of a handle constructed of nonconductive material.
- Masonry saws should be guarded with a semicircular enclosure over the blade.
- When operation air guns for cleaning off decks, inside forms etc., these guns should have a maximum of 30 psi nozzle pressure and be equipped with a safety release valve.
- Air guns should have pressure valves, and extension tube and the hoses well maintained with appropriate whip checks.
- Employee operating air guns should have appropriate PPE, including but not limited to, chip protection (i.e. face shield, goggles etc.), ear plugs and respiratory protection as required.
- No employee should be permitted to perform maintenance or repair activity on equipment (such as compressors mixers, screens, pumps used for concrete and masonry construction activities) where the inadvertent operation of the equipment could occur and cause injury, unless all potentially hazardous energy sources have been locked out and tagged.

### **Concrete Buckets**

- No employee shall be permitted to ride concrete buckets.
- No employee should be permitted to work under concrete buckets while buckets are being elevated or lowered into position.

- To the extent practical, elevated concrete buckets should be routed so that no employee or the fewest number of employees are exposed to the hazards associated with falling concrete or falling buckets.
- Concrete buckets equipped with hydraulic or pneumatic gates should have positive safety latches or similar safety devices installed to prevent premature or accidental dumping.
- Concrete buckets should be designed to prevent concrete from hanging up on top of the sides.

#### **Pumpcrete Systems**

- No employee should be permitted to apply a cement, sand and water mixture through a pneumatic hose unless the employee is wearing appropriate personal protective equipment.
- Concrete pumping systems using discharge pipes should be provided with pipe supports designed for 100 percent overload.
- Compressed air hoses used on concrete pumping systems should be provided with positive failsafe joint connectors to prevent separation of sections when pressurized.
- Movement of concrete hoses should be planned to limit the amount of manual positioning of hose as much as practicable. When necessary, the use of hooks, ropes or other similar devices should be utilized when handling the concrete hose.

#### **Buggies and Wheelbarrows**

- Concrete buggy handles should not extend beyond the wheels on either side of the buggy.
- Handles should be guarded or equipped with knuckle guards.
- All buggies, wheelbarrows or other similar conveyances should be properly maintained and repaired/replaced immediately if damaged, in poor repair or otherwise.
- Paths of access and travel should be level, free of debris and other surface encumbrances and ramps or other access ways should be appropriately built, maintained, and protected.
- Buggies, wheelbarrows etc. should not be overloaded.

#### **Post-Tensioning Operations**

- No employee (except those essential to the post-tensioning operations) should be permitted to be behind the jack during post-tensioning operations.
- Signs and barriers should be erected to limit employee access to the post-tensioning area during tensioning operations.
- Appropriate fire protection measures should be taken during burning operations, including but not limited to spark control or blankets, fire extinguishers, wetting formwork etc.

#### **Emergency Response Procedures**

In the event of a collapse or failure of formwork, false work or an excavation, the following general emergency procedures should be initiated:

Initial Stage of a collapse (before rescue recovery)

- Get other exposed individuals out of the area.
- Call 911
- Secure the area

- Shut down all equipment that might cause vibration (with the exception of dewatering equipment) or additional loading. Reroute traffic to eliminate vibration if necessary.
- Do not enter a failed excavation or area of collapse without adequate protection
- Do not remove hand tools, personal protective equipment, or other material from the scene that may be used to locate a victim.
- Begin removing standing or seeping water
- Find out if the failure damaged a utility. If so, take appropriate action.
- Consider tying a digging tool to a rope and tossing it to a conscious and able victim so that he or she may dig out without having another person enter the excavation.
- Account for everyone
- Follow standard emergency procedures as detailed in the Crisis Management Plan.

#### Rescue or recovery

- Do not attempt to pull a partially trapped/buried victim out by a rope or sling. This may cut the victim in half or pull limbs from the body. It may also loosen dirt or material enough to create a secondary cave-in/collapse.
- If equipment is used to remove material from around a victim, remove/dig so that loosened material will fall away rather than toward the victim. It is generally bad practice to use equipment to dig someone out because the vibration and surcharge can cause further failures. In the case of an excavation, a better option might be to locate and use a vacuum truck.
- Assist all emergency response personnel as needed.
- Ensure that adequate equipment is available for a sustained rescue effort (e.g. shoring materials, equipment, generator, lighting, supplies, personnel etc.)
- Control traffic and crowds. Reroute traffic as necessary.

#### Permitting/Documentation

Before a contractor is on site, the following items should be obtained in writing:

- Permit for excavation/trenching activities (Cal OSHA Excavation Notification Form as applicable) for all trenches/excavations that are equal to or greater than 5' in depth where an employee is required to enter.
- Permit for any false work or scaffolding 36' in height or greater total.
- Excavation and trenching plan
- Shoring/False work design or plan
- Name(s) of competent person(s)
- Soils analysis report
- Copy of their Safety Manual

## FORMS



# MANAGEMENT INSPECTION REPORT

Job #

Job Location/Name

Date  
Month / Day / Year

Time

Jobsite Supervisor

Safety Manager

Last First

Last First

Webcor/Obayashi Joint Venture Principal

Insurance Representative

Last First

Last First

**X** – Corrective Action Required ☐

**O** – No Corrective Action Required ☐

	WEBCOR/ OBAYASHI	SUB	N/A	CORRECTED
<b>1. PERSONAL PROTECTIVE EQUIPMENT</b>				
1. Hard Hats				
2. Eye Protection				
3. Ear Protection				
4. Respirators				
5. Proper Clothing				
6. Footwear				
7. Safety Belts				
<b>2. HOUSEKEEPING</b>				
1. Exits & Stairs Clear				
2. Piling & Stacking				
3. Debris Removal				
4. Nails Bent or Removed				
<b>3. LADDERS &amp; STAIRS</b>				
1. Ladder Condition				
2. Ladders Tied Off				
3. Ladder 3' Above Landings				
4. Stairs				
<b>4. RAILINGS / FLOOR OPENINGS</b>				
1. Perimeter				
2. Floor Openings / Shafts				
3. Stairs / Ramps				
4. Walkways				
5. Elevator Door Openings				
<b>5. SCAFFOLDS</b>				
1. Railings & Kickboards				
2. Tied to Building				
3. Planks & Platforms				
<b>6. ELECTRICAL</b>				
1. Lighting				
2. Grounding				
3. Cords, Plugs & Receptacles				

	WEBCOR/ OBAYASHI	SUB	N/A	CORRECTED
<b>7. FIRE PROTECTION</b>				
1. Extinguishers				
2. Flammable Materials				
3. Welding / Cutting Equipment				
<b>8. TOOLS</b>				
1. Condition				
2. Guarded				
3. Power Cords				
4. Temp. Power Boxes				
<b>9. SITE &amp; PUBLIC PROTECTION</b>				
1. Excavation / Trenches				
2. Earth Moving Equipment				
3. Forklift / Cranes				
4. Fences				
5. Lighting				
6. Barricades				
7. Signage				
8. Rebar Caps				
<b>10. FIRST AID</b>				
1. Trained Personnel				
2. Kits / Supplies				
3. Sanitation / Water				
<b>11. PROGRAM / INFORMATION</b>				
1. Twice Daily Inspections				
2. Orientation: New Employee / Haz. Sub.				
3. Safety Meetings				
4. Required Signs Posted				
<b>12. OTHER (LISTS)</b>				
1. Safety Manual				
2. MSDS Book				
3. CAL-OSHA 200 Log (Posted Every February)				

Comments:

Title / Signature:





## DAILY PROJECT INSPECTION

Job #

Job Location/Name

Week Ending  
Month / Day / Year

**X** – Corrective Action Required ☐

**O** – No Corrective Action Required ☐

	M	T	W	T	F	COMMENTS
<b>A. BASICS</b>						
1. Workers are wearing personal protective equipment						
2. Exits and stairways are clear						
3. Construction material stored properly						
4. Site debris removed						
5. Nails bent or removed						
6. Ladder condition and placement						
7. Permanent & temporary rails						
8. Cylinder storage						
9. Hazardous material storage						
10. Electrical Cords and grounding						
11. Extinguishers in place where needed						
12. Excavation / trenches						
13. First aid kit is accessible & stocked						
14. Required signs posted						
15. Construction equipment						
<b>B. CRANES</b>						
1. Crane certification						
2. Load chart						
3. Operator maintenance reports updated						
<b>C. MANLIFT</b>						
1. Ramps, rails, phones & doors are maintained properly						
2. Personnel stretcher stored on top of the man lift						
3. Fire extinguisher in place						
4. Weekly maintenance check reports						
<b>D. BACKHOES</b>						
1. Back-up bell working						
2. Wearing safety equipment						
3. Personnel working with the backhoe a safe distance from the backhoe bucket at all times						
<b>E. TRUCKS</b>						
1. Back-up bell working						
2. Driver wearing safety equipment						
<b>F. COMPRESSOR</b>						
1. Properly maintained						
2. Air tools working properly						
3. Personnel wearing correct safety equipment and have been instructed how to use the equipment						
4. All air hose connectors are wired together						
<b>G. SHORING / SCAFFOLDING</b>						
1. Railings & kick boards						
2. Tied off / braced correctly						
3. Planking is the correct size						

Supervisor \_\_\_\_\_  
Last First

## EQUIPMENT SAFETY INSPECTION CHECKLIST

Date: \_\_\_\_\_

Project: \_\_\_\_\_

Equipment: \_\_\_\_\_

All guards and fenders	_____	OK	_____	Needs Repair
Brakes	_____	OK	_____	Needs Repair
Lights – front, rear, side, dash	_____	OK	_____	Needs Repair
Back-up alarm – horn	_____	OK	_____	Needs Repair
Ladders, stairs, hand holds	_____	OK	_____	Needs Repair
ROPS (Roll-over protection)	_____	OK	_____	Needs Repair
Seat belts	_____	OK	_____	Needs Repair
Fire extinguisher	_____	OK	_____	Needs Repair
Glass	_____	OK	_____	Needs Repair
Tires	_____	OK	_____	Needs Repair
Electrical cords	_____	OK	_____	Needs Repair
Ground fault circuit interrupters	_____	OK	_____	Needs Repair
Electrical hand tools	_____	OK	_____	Needs Repair
Powder actuated tools	_____	OK	_____	Needs Repair
Pneumatic condition of all hand tools	_____	OK	_____	Needs Repair

### **Other Items Checked:**

Oil level and leaks	_____	OK	_____	Needs Repair	_____	Add	_____	Change
Hydraulic oil level and leaks	_____	OK	_____	Needs Repair	_____	Add	_____	Change
Anti-freeze level and leaks	_____	OK	_____	Needs Repair	_____	Add	_____	Change
Fuel level and leaks	_____	OK	_____	Needs Repair	_____	Add	_____	Change
First aid kit	_____	OK	_____	Needs Repair	_____	Add	_____	Change

Repaired by: \_\_\_\_\_

Checked by: \_\_\_\_\_

WEBCOR/OBAYASHI JOINT VENTURE  
Site Specific Safety Program Rev 4

87

3/27/2012

## WELDING / CUTTING “HOT WORK” PERMIT

Permit # \_\_\_\_\_

Date: \_\_\_\_\_

Subcontractor: \_\_\_\_\_

Floor: \_\_\_\_\_

Room: \_\_\_\_\_

Area: \_\_\_\_\_

### CONDITIONS FOR PERFORMANCE OF THE WORK

1. A Designated Fire Watch shall be furnished by the subcontractor performing the work. The Fire Watch shall have no other assigned duties but to ensure a Safe environment in the area during and after the activity of welding, cutting, or open-flame operations.
2. The Fire Watch shall clear the work area, and ensure that it be kept free, of all combustible materials. In occupied buildings, the fire suppression system shall be in operation.
3. Fire-retardant tarpaulins are acceptable and shall be used where applicable.
4. All welding/cutting equipment shall be removed from the building daily. This provision applies to work performed in an existing, occupied portion of the facility.
5. The Fire Watch shall be equipped with appropriate personal protective equipment, such as eye protection, gloves, head protection, welder's jacket, etc.
6. Equipment shall be located so that exhaust fumes are naturally ventilated from the building. Where such locations are not possible, mechanical ventilation shall be provided by the subcontractor performing the work.
7. All oxygen/acetylene equipment shall be transported, used, and stored in strict compliance with WISHA Construction Safety Orders. A separate fire extinguisher (10 B: C minimum) is required at each oxygen/acetylene setup.
8. Appropriate fire extinguishers shall be kept in the work area while all work is in progress. Fire extinguishers are to be provided by the subcontractor performing the work as follows:

<u>WORK AREA</u>	<u>FIRE EXTINGUISHER TYPE</u>	<u>NUMBER REQ'D</u>
Equipment Spaces	ABC (20 lbs)	2
Other Spaces	ABC (20 lbs)	1

9. Welding/cutting shall not be performed until the area has been approved by the Fire Safety Manager.
10. Upon completion of the “Hot Work,” the Fire Watch shall inspect the work area and ensure that there are no lingering sparks, smoldering materials, etc. The fire watch shall be maintained a minimum of ½ hour after work has been completed.

11. The Fire Safety Manager shall be notified when the “Hot Work” is complete.

12. Permits are valid for a one (1) week period.

Subcontractor hereby agrees to perform the work in accordance with the requirements noted above.

Permit valid from \_\_\_\_\_ to \_\_\_\_\_.

Comments/Special Requirements:

Subcontractor’s Representative: \_\_\_\_\_ Work Complete: \_\_\_\_\_

Fire Safety Manager: \_\_\_\_\_ Work Complete: \_\_\_\_\_

## **HEAT ILLNESS PREVENTION POLICY**

### **Purpose**

The purpose of Heat Illness Prevention Policy is to meet the requirements set forth in the Heat Illness Prevention Standard, Title 8, California Code of Regulations, Section 3395 and also to serve as a supplement to Webcor/Obayashi Joint Venture's Injury and Illness Prevention Program (IIPP). This information is intended and must be used in conjunction with the IIPP. The Heat Illness Prevention Policy establishes procedures and provides information which is necessary to ensure that Webcor/Obayashi Joint Venture's staff is knowledgeable in the prevention and recognition of heat illness to ensure their own safety and the safety of others.

### **Procedures and Guidelines**

In compliance with Heat Illness Prevention Standard, Title 8 regulations, Webcor strives to provide a safe and healthful work environment. To do so the following Procedures are required for all employees of Webcor/Obayashi Joint Venture:

- Provide training to all employees by their supervisors. All trainings should be documented with an employee sign in sheet. Topics include:
  - Types of Heat Illness and their symptoms.
  - Environmental and personal risk Factors for Heat Illness.
  - Webcor/Obayashi Joint Venture's Heat Illness Prevention Policy.
  - The importance of drinking water frequently throughout the day.
  - The importance of reporting symptoms of Heat Illness to their employer/supervisor
  - The importance of allowing the body to adjust gradually to working in high heat.
  - Webcor Procedures for responding to Heat Illness symptoms.
  - Webcor/ Obayashi's Procedures for contacting emergency services.
  - Webcor/Obayashi Joint Venture's Procedures for emergency communication.
- Provide training to all Supervisors. Topics include:
  - All information to be provided to employees.
  - The procedures the supervisor is to follow in implementing this Policy.
  - The Procedures to follow when an employee's begins to show symptoms of heat illness.
- Webcor /Obayashi Joint Venture is to provide access to potable drinking water meeting the requirements of Sections 1524, 3363, and 3457 as applicable to all employees. Where it is not plumbed or otherwise continuously supplied, it shall be provided in sufficient quantity at the beginning of the work shift to provide one quart per employee per hour for drinking for the entire shift. Employers may begin the shift with smaller quantities of water if they have effective procedures for replenishment during the shift as needed to allow employees to drink one quart or more per hour. The frequent drinking of water shall be encouraged.
- Webcor/Obayashi Joint Venture is to provide access to an area with shade that is either open to the air or provided with ventilation or cooling for a period of no less than five minutes for employees suffering from heat illness or believing a preventative recovery period is needed. Such access to shade shall be permitted at all times.

- During the designated warmer months of the year (April through September) all jobsites are required to incorporate heat illness prevention and awareness training into the Tailgate Safety Meetings. Shade and plenty of water shall be provided in sufficient amount to each and every employee.

### **Heat Illness Prevention**

Heat related illnesses are avoidable if the employees are trained and the right actions are taken before, during, and after working in either indoor or outdoor hot conditions. High temperatures, humidity, air velocity and radiant heat from the sun or a furnace can stress the body's ability to cool itself making heat illness a big concern during hot weather months. These would be considered environmental risk factors. Every employee whose job duties require them to work in the outdoors during summer months, are exposed to elevated heat conditions and therefore are susceptible to heat illness. The three major forms of heat illnesses are: **heat cramps**, **heat exhaustion**, and **heat stroke**. Heat stroke can be a life threatening condition. This document will outline those actions as well as describing the three major forms of heat illness, how to recognize them, and what an action to take to provide first aid before medical care is provided.

- **Heat Cramps**
  - **Description:**  
Heat cramps are the most common type of heat related injury and probably have been experienced by nearly everyone at one time or another. Heat cramps are muscle spasms which usually affect the arms, legs, or stomach. Frequently they do not occur until sometime later after work, at night, or when relaxing. Heat cramps are caused by heavy sweating, especially when water is not replaced quickly enough. Although heat cramps can be quite painful; they usually don't result in permanent damage.
  - **Prevention/First Aid:**  
Drink electrolyte solutions such as Gatorade or plenty of water during the day and try eating more fruits such as bananas to help keep your body hydrated during hot weather. Call 911 and contact your supervisor immediately if the Person becomes ill.
- **Heat Exhaustion**
  - **Description:**  
Heat exhaustion is more serious than heat cramps. It occurs when the body's internal temperature regulating system is overworked, but has not completely shut down. In heat exhaustion, the surface blood vessels and capillaries, which originally enlarged to cool the blood, collapse from loss of body fluids and necessary minerals. this happens when you do not drink enough fluids to replace what you are sweating away symptoms Include: Headache, heavy sweating, intense thirst, dizziness, fatigue, loss of coordination, nausea, impaired judgment, loss of appetite, hyperventilation, tingling in hands or feet, Anxiety, cool moist skin, weak and rapid pulse (120-200), and low to normal blood
  - **Prevention/First Aid:**  
The employee suffering these symptoms should be moved to a cool location such as a shaded area or air-conditioned building. Have them lie down with their feet slightly elevated. Loosen their clothing, apply cool, wet clothes or fan them. Have them drink water or electrolyte drinks. Try to cool them down, and have them checked by medical personnel. Victims of heat

exhaustion should avoid strenuous activity for at least a day, and they should continue to drink water to replace lost body fluids. Call 911 if the person becomes non-responsive, refuses water, vomits, or loses consciousness.

- **Heat Stroke**

- **Description:**

Heat stroke is a life threatening illness with a high death rate. It occurs when the body has depleted its supply of water and salt, and the victim's core body temperature rises to deadly levels. A heat stroke victim may first suffer heat cramps and/or heat exhaustion before progressing into the heat stroke stage, but this is not always the case. It should be noted that, on the job, heat stroke is sometimes mistaken for a heart attack. It is therefore very important to be able to recognize the signs and symptoms of heat stroke and to check for them anytime an employee collapses while working in a hot environment. Symptoms of heat stroke include: A high body temperature (103 degrees F); a distinct absence of sweating (usually); hot red or flushed dry skin; rapid pulse; difficulty breathing; constricted pupils; any/all the signs or symptoms of heat exhaustion such as dizziness, headache, nausea, vomiting, or confusion, and possibly more severe systems including; bizarre behavior; and high blood pressure. Advance symptoms may be seizure or convulsions, collapse, loss of consciousness and a body temperature of over 108 degrees F.

- **Prevention/First Aid:**

It is vital to lower a heat stroke victim's body temperature. Quick actions can mean the difference between life and death. Pour water on them, fan them, or apply cold packs. Call 911 to get the person medical aid as soon as possible.

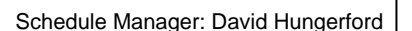
### **Guidelines for Preventing Heat Illness**

- If you are coming back to work from an illness or an extended break or you are just starting to a job working in the heat, it is important to be aware that you are more vulnerable to heat stress until your body has time to adjust. Let your supervisor know you are not used to the heat. It takes about 5 – 7 days for your body to adjust.
- Drinking plenty of water frequently is vital to workers exposed to the heat. An individual may produce as much as 2 to 3 gallons of sweat per day. In order to replenish that fluid the worker should drink 3 to 4 cups of water every hour starting at the beginning of your shift.
- Taking your breaks in a cool shaded area and allowing time for recovery from the heat during the day are effective ways to avoid heat illness.
- Avoid or limit the use of alcohol and caffeine during periods of extreme heat. Both dehydrate the body.
- If your or a co-worker start to feel symptoms such as nausea, dizziness, weakness or unusual fatigue, let your supervisor know and rest in a cool shaded area. If symptoms persist or worsen seek immediate medical attention.
- Whenever possible wear clothing that provides protection from the sun but allows airflow to the body. Protect your head and shade your eyes if working outdoors.
- When working in the heat be sure to pay extra attention to your coworkers and be sure you know how to call for medical attention.



## **END OF SITE SPECIFIC SAFETY PLAN**

## TG06.1/T06.2 CONCEPT SUMMARY SCHEDULE



## TG06.1/T06.2 CONCEPT SUMMARY SCHEDULE























































































Schedule Layout Name: TG06.1/6.2 CONCEPT SUMMARY SCHEDULE

## EXHIBIT I

## TG06.1/T06.2 CONCEPT SUMMARY SCHEDULE



Activity ID	Activity Name	Orig. Dur.	Start	Finish	2012												2013												2014												2015												2016												2017											
					M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D														
 ZONE 3 (BUILDING LINES 19 - 25)		201	01-Nov-13	22-Aug-14																																																																								
 ZONE 3 BELOW GRADE TRAIN BOX		131	01-Nov-13	13-May-14																																																																								
 ZONES 3: BELOW GRADE STRUCTURE - MAT TO LOW...		131	01-Nov-13	13-May-14																																																																								
	BG-BB30000 REMOVE LOWER LEVEL SHORING (4) BRACING ...	20	01-Nov-13	03-Dec-13																									 REMOVE LOWER LEVEL SHORING (4) BRACING TRAIN BOX - ZONE 3																																															
	BG-122900 VERTICAL WALLS & COLUMNS (1ST LIFT) TRAIN ...	20	18-Nov-13	17-Dec-13																									 VERTICAL WALLS & COLUMNS (1ST LIFT) TRAIN BOX - ZONE 3																																															
	BG-BB30100 RE-BRACING LOWER TRAIN BOX - ZONE 3	15	04-Dec-13	24-Dec-13																									 RE-BRACING LOWER TRAIN BOX - ZONE 3																																															
	BG-123100 REMOVE BRACING (3) TRAIN BOX - ZONE 3	30	11-Dec-13	24-Jan-14																									 REMOVE BRACING (3) TRAIN BOX - ZONE 3																																															
	BG-123200 VERTICAL WALLS (2ND LIFT) TO CONCOURSE T...	30	26-Dec-13	07-Feb-14																									 VERTICAL WALLS (2ND LIFT) TO CONCOURSE TRAIN BOX - ZONE 3																																															
	BG-123300 ELEVATOR PITS, MECHANICAL AND STAIR PLAT...	10	30-Apr-14	13-May-14																									 ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 3																																															
 ZONE 3 BELOW GRADE LOWER CONCOURSE		136	10-Feb-14	22-Aug-14																																																																								
	BG-110700 SHORE, FORM, REBAR, EMBEDS CONCOURSE	30	10-Feb-14	24-Mar-14																									 SHORE, FORM, REBAR, EMBEDS CONCOURSE																																															
	BG-110800 POUR CONCOURSE CONCRETE	1	25-Mar-14	25-Mar-14																									 POUR CONCOURSE CONCRETE																																															
	BG-BB30300 REMOVE BRACING (2)	20	26-Mar-14	22-Apr-14																									 REMOVE BRACING (2)																																															
	BG-114900 CURE/STRIP FORMS & REMOVE REBRACING BE...	25	26-Mar-14	29-Apr-14																									 CURE/STRIP FORMS & REMOVE REBRACING BELOW CONCOURSE DECK																																															
	BG-111000 VERTICAL WATERPROOFING	15	09-Apr-14	29-Apr-14																									 VERTICAL WATERPROOFING																																															
	BG-111100 VERTICAL WALLS (1ST LIFT)	20	30-Apr-14	29-May-14																									 VERTICAL WALLS (1ST LIFT)																																															
	BG-BB30400 RE-BRACING UPPER TRAIN BOX - ZONE 3	15	14-May-14	05-Jun-14																									 RE-BRACING UPPER TRAIN BOX - ZONE 3																																															
	BG-BB30500 REMOVE BRACING (1)	15	21-May-14	12-Jun-14																									 REMOVE BRACING (1)																																															
	BG-111400 VERTICAL WATERPROOFING	15	30-May-14	19-Jun-14																									 VERTICAL WATERPROOFING																																															
	BG-111500 VERTICAL WALLS (2ND LIFT) TO GROUND LEVEL	20	20-Jun-14	18-Jul-14																									 VERTICAL WALLS (2ND LIFT) TO GROUND LEVEL																																															
	BG-111510 (FINISH) BELOW GRADE STRUCTURE - ZONE 3	0		18-Jul-14																									 (FINISH) BELOW GRADE STRUCTURE - ZONE 3																																															
	BG-BB30120 PATCH WALLS @ WALER BASE PLATES	16	21-Jul-14	11-Aug-14																									 PATCH WALLS @ WALER BASE PLATES																																															
	BG-BB30140 REMOVE ALL RE-BRACING (OUT)	25	21-Jul-14	22-Aug-14																									 REMOVE ALL RE-BRACING (OUT)																																															
 ZONE 4 (BUILDING LINES 25 - 35)		221	20-Aug-14	14-Jul-15																																																																								
 ZONE 4 BELOW GRADE TRAIN BOX		146	20-Aug-14	26-Mar-15																																																																								
 ZONE 4: BELOW GRADE STRUCTURE - MAT TO LOWE...		146	20-Aug-14	26-Mar-15																																																																								
	BG-BB40000 REMOVE LOWER LEVEL SHORING (4) BRACING ...	20	20-Aug-14	18-Sep-14																									 REMOVE LOWER LEVEL SHORING (4) BRACING TRAIN BOX - ZONE 4																																															
	BG-126700 VERTICAL WALLS & COLUMNS (1ST LIFT) TRAIN ...	40	05-Sep-14	31-Oct-14																									 VERTICAL WALLS & COLUMNS (1ST LIFT) TRAIN BOX - ZONE 4																																															
	BG-BB40100 RE-BRACING LOWER TRAIN BOX - ZONE 4	20	10-Oct-14	07-Nov-14																									 RE-BRACING LOWER TRAIN BOX - ZONE 4																																															
	BG-BB40200 REMOVE BRACING (3) TRAIN BOX - ZONE 4	30	20-Oct-14	02-Dec-14																									 REMOVE BRACING (3) TRAIN BOX - ZONE 4																																															
	BG-127000 VERTICAL WALLS (2ND LIFT) TO CONCOURSE T...	30	03-Nov-14	16-Dec-14																									 VERTICAL WALLS (2ND LIFT) TO CONCOURSE TRAIN BOX - ZONE 4																																															
	BG-127100 ELEVATOR PITS, MECHANICAL AND STAIR PLAT...	10	13-Mar-15	26-Mar-15																									 ELEVATOR PITS, MECHANICAL AND STAIR PLATFORMS TRAIN BOX - ZONE 4																																															
 ZONE 4 BELOW GRADE LOWER CONCOURSE		141	17-Dec-14	14-Jul-15																																																																								
	BG-113700 SHORE, FORM, REBAR, EMBEDS CONCOURSE	30	17-Dec-14	03-Feb-15																									 SHORE, FORM, REBAR, EMBEDS CONCOURSE																																															
	BG-113800 POUR CONCOURSE CONCRETE	1	04-Feb-15	04-Feb-15																									 POUR CONCOURSE CONCRETE																																															
	BG-BB40300 REMOVE BRACING (2)	20	05-Feb-15	05-Mar-15																									 REMOVE BRACING (2)																																															
	BG-115100 CURE/STRIP FORMS & REMOVE REBRACING BE...	25	05-Feb-15	12-Mar-15																									 CURE/STRIP FORMS & REMOVE REBRACING BELOW CONCOURSE DECK																																															
	BG-114000 VERTICAL WATERPROOFING	15	20-Feb-15	12-Mar-15																									 VERTICAL WATERPROOFING																																															
	BG-114100 VERTICAL WALLS (1ST LIFT)	20	13-Mar-15	09-Apr-15																									 VERTICAL WALLS (1ST LIFT)																																															
	BG-BB40400 RE-BRACING UPPER TRAIN BOX - ZONE 4	20	27-Mar-15	23-Apr-15																									 RE-BRACING UPPER TRAIN BOX - ZONE 4																																															
	BG-BB40500 REMOVE BRACING (1)	15	10-Apr-15	30-Apr-15																									 REMOVE BRACING (1)																																															
	BG-114400 VERTICAL WATERPROOFING	15	17-Apr-15	07-May-15																									 VERTICAL WATERPROOFING																																															
	BG-114500 VERTICAL WALLS (2ND LIFT) TO GROUND LEVEL	20	08-May-15	08-Jun-15																									 VERTICAL WALLS (2ND LIFT) TO GROUND LEVEL																																															
	BG-114550 (FINISH) BELOW GRADE STRUCTURE - ZONE 4	0		08-Jun-15																									 (FINISH) BELOW GRADE STRUCTURE - ZONE 4																																															
	BG-BB40120 PATCH WALLS @ WALER BASE PLATES	16	09-Jun-15	30-Jun-15																									 PATCH WALLS @ WALER BASE PLATES																																															
	BG-BB40140 REMOVE ALL RE-BRACING (OUT)	25	09-Jun-15	14-Jul-15																									 REMOVE ALL RE-BRACING (OUT)																																															



**Transbay Transit Center**

**Webcor/Obayashi Joint Venture**  
**Contractor Quality Control Program**  
**for the**  
**Transbay Transit Center Project**

January 4, 2011 Rev 1.0

March 9, 2011 Rev 2.0

**March 31, 2012 Rev 3.0**





## **WEBCOR/OBAYASHI JOINT VENTURE CONTRACTORS QUALITY CONTROL PROGRAM TRANSBAY TRANSIT CENTER PROJECT**

### **INDEX**

**TAB 1: QUALITY CONTROL ORGANIZATION**

**TAB 2: RESPONSIBILITIES & QUALIFICATIONS**

**TAB 3: APPOINTMENTS**

**TAB 4: SUBMITTAL MANAGEMENT & DOCUMENT CONTROL**

**TAB 5: INSPECTION AND TESTING**

**TAB 6: QUALITY CONTROL PROCESS**

**TAB 7: NON-CONFORMANCE**

**TAB 8: REPORTING PROCEDURES**

**TAB 9: DEFINABLE FEATURES OF WORK**

**TAB 10: TRAINING**

**TAB 11: DESIGN CONTROL**

**TAB 12: FORMS**

**This Webcor/Obayashi JV Contractors Quality Control Plan will be developed incrementally as the trade packages are awarded and trade subcontractors are brought on board. Each trade subcontractors plan will become part of the Webcor/Obayashi JV's overall Contractor's Quality Control Plan and will be submitted to the Transbay Joint Power Authority as they are received**

## 1. QUALITY CONTROL ORGANIZATION

- QUALITY CONTROL OVERVIEW
- DEFINITIONS
- ORGANIZATION CHART SHOWING  
LINES OF AUTHORITY



## 1. QUALITY CONTROL OVERVIEW

### OVERVIEW

Project quality is the responsibility of all members of the project team and starts at the highest level of management. This Quality Management Plan details the specific processes by which the Project's quality will be managed and forms the basis upon which Webcor/Obayashi JV will ensure that all quality requirements for the Transbay Transit Center are met. The Plan integrates the quality management process into the Webcor/Obayashi JV organizational structure and construction management systems. Key elements of the plan include:

- The commitment of the Webcor/Obayashi JV Senior management to delivering a project that meets the Transbay Transit Center quality standards.
- Accepted project specific construction management policies, procedures and tools for the control of project information and the management of the construction documents, submittals and the work of the trade subcontractors.
- A Webcor/Obayashi JV project-specific quality plan that meets the TJPA and FTA quality requirements
- Trade Subcontractor, site specific, quality plans that meet TJPA and FTA quality requirements
- Consistent CQC staff oversight- the Webcor/Obayashi JV CQC Managers or the Trade Subcontractors CQC Managers will have a physical presence on site when work is in progress.

### FEDERAL TRANSIT ADMINISTRATION GUIDELINES

The Webcor/Obayashi JV Contractors Quality Management Plan incorporates the fifteen elements of the Federal Transit Administrations Quality Assurance and Quality Control Guidelines as appropriate for Webcor/Obayashi's scope of work.

- |   |  |
|---|--|
| 1. <i>Management responsibility</i>               | 8. <i>Inspection and testing</i>                   |
| 2. <i>Documented quality management system</i>    | 9. <i>Inspection, measuring and test equipment</i> |
| 3. <i>Design control</i>                          | 10. <i>Inspection and test status</i>              |
| 4. <i>Document control</i>                        | 11. <i>Non conformance</i>                         |
| 5. <i>Purchasing</i>                              | 12. <i>Corrective action</i>                       |
| 6. <i>Product identification and traceability</i> | 13. <i>Quality records</i>                         |
| 7. <i>Process control</i>                         | 14. <i>Quality audits</i>                          |
|   | 15. <i>Training</i>                                |





#### DEFINITIONS:

- **Contractor** - Webcor/Obayashi Joint Venture.
- **Coordination Meeting (aka. Meeting of Mutual Understanding)** - A meeting conducted by TJPA Representative held after the pre-construction conference and before the start of construction for each Trade Work Package, attended by the TJPA Representative, the TJPA QA Manager, W/O (and the W/O trade subcontractor) where a mutual understanding of the system details are developed including forms for recording control activities, testing and the administrative system of onsite and offsite work. (reference: Specification 01-1400, paragraph 1.7 A)
- **Corrective Action Plan** - A written document submitted by the Trade Subcontractor detailing the Trade Contractor's approach to correct an item of work that fails to conform to the project requirements.
- **Corrective Action Request** - A written request from TJPA to develop a Corrective Action Plan for non-conforming work (TJPA form QA-09-01) that establishes a method for ensuring deficiencies in process or implementation adversely affecting quality are identified, cause determined, and an action plan to prevent recurrence is documented.
- **CQC Manager** – The Webcor/Obayashi JV Manager who is responsible for managing the Contractor's CQC System.
- **CQC Manager's Monthly CQC Report** - A section of the Contractors monthly written report prepared and submitted by the CQC Manager which reports Trade Subcontractors monthly CQC activities.
- **CQC Plan** - Webcor/Obayashi JV written quality management plan that meets the requirements of the TJPA Program QMS as appropriate for Webcor/Obayashi's JV scope of work and the means by which Webcor/Obayashi JV (the Contractor) and its Trade Subcontractors ensure project quality.
- **Daily CQC Report Log** – A log of the Trade Subcontractors daily CQC reports, maintained by the W/O CQC Manager.
- **Definable Feature of Work (DFOW)** - A unit of the work associated with the work of each specification section, bid package, trade subcontractor or trade contractor's individual discipline.
- **Federal Transit Administration (FTA)** - An administration within the U.S. Department of Transportation that provides stewardship to support a variety of locally planned, constructed, and operated public transportation systems throughout the United States.
- **Initial Phase Checklist** – A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Initial work Phase per 01 14 00 1.9.C.
- **Master Definable Feature of Work List** - The project list definable features of work for all trade subcontractors maintained by the Webcor/Obayashi JV CQC Manager.



- **Non-conformance Report** – A written report submitted to the TJPA Representative to identify non-conforming: materials, in-process work activities and completed work.
- **Phase 1: Preparatory Phase** – Led by the Trade Subcontractors CQC Manager and attended by the Webcor/Obayashi JV CQC Manager, the Contractor’s Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives, this is the first of the three phases of control where all requirements of the work: drawings, specifications, submittals, RFI’s, installation and coordination issues are reviewed before beginning any Definable Feature of Work (DFOW). This meeting builds the work on “paper” prior to the start of work in the field, and is an effort to build consensus among the all parties on how the work will conform to the project requirements. The information and agreements developed in this meeting are transferred to the Initial Work Phase meeting.
- **Phase 2: Initial** Led by the Trade Subcontractors CQC Manager and attended by the Webcor/Obayashi JV CQC Manager, the Contractor’s Production Team, Trade Subcontractors Representatives, Inspectors, and TJPA representatives is held immediately prior to the start of the work. Using the meeting minutes from the Preparatory Phase meeting, this meeting transfers the information and requirements and agreements to the crews performing the work.
- **Phase 3: Follow-up Phase** – Led by the Trade Subcontractors CQC Manager along with the appropriate Trade Contractor’s Superintendent(s)/Foremen, this third phase of control is an ongoing process held immediately after the work starts or a meaningful quantity of work is installed to confirm and document that the work is being installed as per the contract documents and per the Preparatory and Initial Phase agreements.
- **Preparatory Phase Checklist** - A checklist prepared by the Trade Subcontractors CQC Manager for each Definable Feature of Work (DFOW) in the Preparatory Phase per 01 14 00 1.9.B.(See Tab 120 “Forms” Preparatory Phase Checklist).
- **Quality** - Conformance to the requirements established by the contract documents.
- **Quality Inspection** - An Inspection of the work performed as the work progresses or prior to calling for an Agency, Code or Special Inspection to confirm the work meets the requirements of the Contract Documents.
- **Quality Management** -- Management of Quality control and quality assurance activities instituted to achieve the quality levels established by the contract documents.
- **Quality Management System Manual** - Issued by URS for the Transbay Transit Center and provides specific requirements for Program implementation based upon the Program Quality Policy and the FTA Quality Assurance and Quality Control Guidelines and is the guide for all members of the Program Management Team to deliver a project that meets the highest quality standards (reference: Transbay Transit Center QMSM, Introduction, page 1).
- **Submittal Log** - A written list indicating the status of all Submittals required by the Contract Documents, maintained by the Webcor/Obayashi Joint Venture production team.

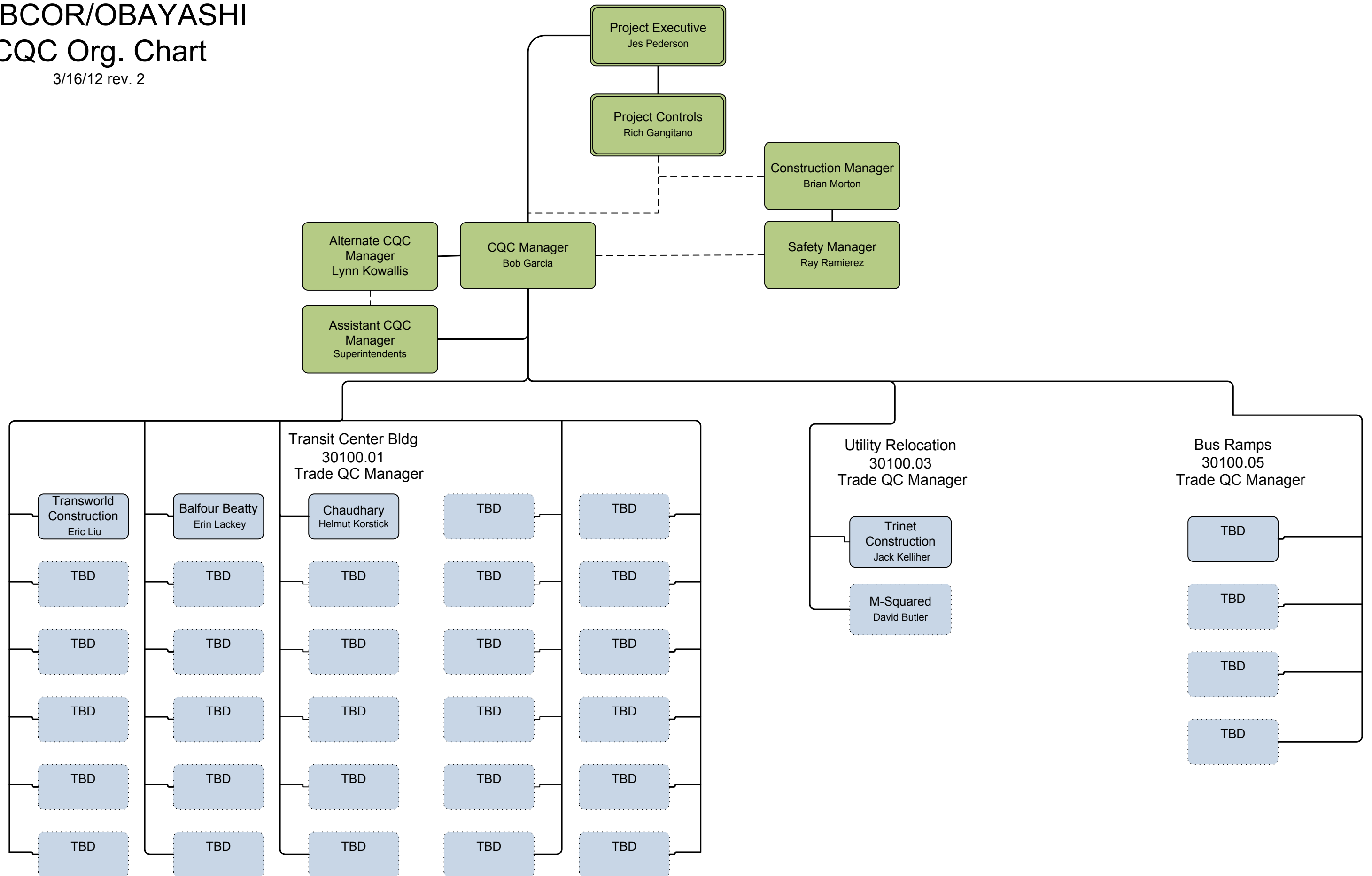


- **Technical Specifications** - Divisions 01 through 33 of the project specifications.
- **Three Phases of Control** – The three meetings or actions that bring the Trade Subcontractors CQC Managers, Contractor’s Production Team, Inspectors, TJPA representatives and/or field crews together to plan and implement project quality: The three phases of control include: The Preparatory Phase, Initial Phase and Follow-up Phase.
- **TJPA Construction Management Oversight Manager:** - Turner Construction.
- **TJPA:** - Transbay Transit Center Joint Powers Authority.
- **Trade Subcontractor CQC Manager** – The Trade Subcontractor employee accepted by Webcor/Obayashi JV who is responsible for managing the Trade Subcontractor’s CQC System, and reports to the Webcor/Obayashi JV CQC Manager.
- **Trade Subcontractor’s CQC Plan** – The Trade Subcontractors written quality management plan that meets the requirements of the TJPA Program QMS as appropriate for the Trade Subcontractors scope of work and is the means by which the Trade Subcontractors ensure project quality.
- **Trade Subcontractor’s Definable Feature of Work List.** - The list of definable features of the work prepared by the Trade Subcontractors and submitted for approval to the Webcor/Obayashi JV CQC Manager
- **Trade Subcontractors Daily Quality Control Report** - The Trade Subcontractors Quality Manager’s daily report that describes: the work completed, quality measures implemented, testing and inspections performed, rework items identified, and deliveries received and as-built drawings updated. (See Tab 120 “Forms” Trade Subcontractors Daily Quality Control Report).

# WEBCOR/OBAYASHI

## CQC Org. Chart

3/16/12 rev. 2



## 2. RESPONSIBILITIES AND QUALIFICATIONS

- DUTIES, RESPONSIBILITIES, AND  
AUTHORITIES OF CQC TEAM  
MEMBERS
- TRADE SUBCONTRACTOR DUTIES
- CQC MANAGER RESUME
- ALTERNATE CQC MANAGER  
RESUME



## **2. QUALITY CONTROL RESPONSIBILITIES/ QUALIFICATIONS**

### **RESPONSIBILITIES**

Webcor/Obayashi JV will be responsible for implementing this Contractors Quality Control Plan and assuring that Trade Subcontractors prepare and implement trade package specific CQC Plans. Webcor /Obayashi JV will provide day to day oversight of the CQC System to assure Trade Subcontractor work conforms to the requirements of Transbay Transit Center Contract Documents and this Webcor/Obayashi JV CQC Plan.

Webcor/Obayashi JV will direct Trade Subcontractors to execute their CQC plans and maintain compliance with all project requirements as described in the Contract Documents. Contracts with Trade Subcontractors and Sub-tier Subcontractors shall include a requirement to comply with the provisions of this Plan, and to prepare and execute CQC plans appropriate for their scope of work. The Trade Subcontractors, Sub-tier Subcontractors and their Project Superintendents for this project are authorized to manage their own CQC Plans. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this CQC Plan and their trade package specific CQC Plans.

### **MANAGEMENT RESPONSIBILITY**

Webcor/Obayashi JV fully integrates this quality management plan into the organizational structure and performance management systems of the project.

- Maintain and follow a documented Quality System consisting of a Site Specific Quality Manual with policies and procedures.
- Establish and implement project management procedures.
- Maintain Quality System documents and records.

### **PROJECT EXECUTIVE QUALITY RESPONSIBILITIES**

The Project Executive of Webcor/Obayashi JV is the one person in the company ultimately responsible for quality. Regardless of other duties, quality responsibilities of the Project Executive include:

- Empower the Webcor/Obayashi JV Transbay Transit Center CQC Manager to perform the CQC duties described in the contract documents.
- Oversee the projects quality plan and objectives.



- Ensure the availability of necessary resources and information for effective operation of the CQC System.

#### WEBCOR/OBAYASHI JV CQC MANAGER DUTIES AND RESPONSIBILITIES

The CQC Manager, or his approved alternate, oversees the overall implementation of the Webcor /Obayashi JV Quality Control Plan. The CQC manager, when performing the duties of the CQC manager, will be independent of the “production organization”. The CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers absence, the Alternate CQC Manager must be present and will have the same authority as the CQC Manager. In the Alternate CQC Managers absence the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager will have a physical presence on site when work is in progress.
- Designate Alternate CQC Manager(s) and Assistant CQC Manager(s) to serve in the event of the CQC Managers absence.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Manage the development of the list of Definable Features of Work.
- Attend the Coordination Meeting for each Trade Work Package.
- Provide management with monthly CQC updates.
- Ensure Trade Subcontractor’s application of Three Phases of Control for each Definable Feature of Work.
- Attend, or be represented by a Webcor/Obayashi JV representative, the Preparatory, Initial and Follow-up phase meetings.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Ensure that all Trade Subcontractors CQC Plans are in conformance with the Webcor /Obayashi JV CQC plan and with the requirements of the Contract Documents.



- Ensure that all Trade Subcontractors certify their submittals for conformance with the requirements of the Contract Documents.
- Approve Webcor/Obayashi JV Daily Quality Control reports (see Form in Tab 12).
- Ensure that all Trade Subcontractors prepare Daily Quality Control reports.
- Maintain copies of all quality control documents.
- Support and facilitate QMS Audit process.

#### WEBCOR/OBAYASHI JV ALTERNATE CQC MANAGER DUTIES AND RESPONSIBILITIES

The Alternate CQC Manager reports to the CQC Manager and performs all duties of the CQC Manager when not on-site. The Alternate CQC manager, when performing the duties of the Alternate CQC Manager, is independent of the “production organization”. The Alternate CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers absence, the Alternate CQC Manager must be present and will have the same authority as the CQC Manager. In the Alternate CQC Managers absence the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager will have a physical presence on site when work is in progress.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TIPA for acceptance.
- Manage the development of the list of Definable Features of Work.
- Attend the Coordination Meeting for each Trade Work Package.
- Provide management with monthly CQC updates.
- Ensure Trade Subcontractor’s application of Three Phases of Control for each Definable Feature of Work.
- Attend, or be represented by a Webcor/Obayashi JV representative, the Preparatory, Initial and Follow-up phase meetings.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.





- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Ensure that all Trade Subcontractors CQC Plans are in conformance with the Webcor /Obayashi JV CQC plan and with the requirements of the Contract Documents.
- Ensure that all Trade Subcontractors certify their submittals for conformance with the requirements of the Contract Documents.
- Prepare or approve Daily Quality Control reports (see Form in Tab 12).
- Ensure that all Trade Subcontractors prepare Daily Quality Control reports.
- Maintain copies of all quality control documents.
- Support and facilitate QMS Audit process.

#### WEBCOR/OBAYASHI JV ASSISTANT CQC MANAGER DUTIES AND RESPONSIBILITIES

The Assistant CQC Manager reports to the CQC Manager and Alternate CQC Manager. The Assistant CQC Manager, when performing the duties of the Assistant CQC Manager, will be independent of the “production organization”. The Assistant CQC Manager will:

- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents. In the event of the CQC Managers and the Alternate CQC Managers absence, the Assistant CQC Manager must be present and will have the same authority as the CQC Manager.
- The Webcor/Obayashi CQC Manager, Alternate CQC Manager, Assistant CQC Manager.
- Review and approve the Trade Subcontractors CQC Plans prior to submittal to the TJPA for acceptance.
- Attend the Coordination Meeting for each Trade Work Package.
- Ensure Trade Subcontractor’s application of Three Phases of Control for each Definable Feature of Work.
- Stop work that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.



- Ensure that all Trade Subcontractor Work performed, on and off the construction site, conforms to requirements of the Contract Documents. Ensure that all materials and equipment comply with the requirements of the Contract Documents. Report any deficiencies and corrective action planned and taken.
- Prepare Daily Quality Control reports (see Form in Tab 12).
- Support and facilitate QMS Audit process.

#### TRADE SUBCONTRACTORS CQC MANAGER DUTIES/RESPONSIBILITIES:

The Trade Subcontractor CQC Manager reports to the Webcor /Obayashi JV CQC Manager and oversees the trade specific implementation of the quality control program and whose primary responsibility will be to implement the Trade Subcontractor's quality control plan. The Trade Subcontractor CQC manager will certify that the Trade Subcontractor's work is in compliance with the Contract Documents and complies with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the Contract Documents, including specification section 01 14 00 Quality Control. The Trade Subcontractor CQC Manager will:

- Manage the Trade Subcontractors Quality Control Program on and off site.
- Submit a CQC Plan that meets the requirements of the Webcor/Obayashi CQC Plan, Specification 01 14 00 Quality Control and the TTC Quality Management System Manual
- The Trade Subcontractor CQC Manager or alternate will have a physical presence on site when work is in progress.
- Designate an Alternate Trade Subcontractor CQC Manager to serve in the event of the Trade Subcontractor CQC Managers absence.
- During performance of the Work will have complete authority to take any action necessary to ensure conformance with the requirements of the Contract Documents.
- Submit daily Quality Control Reports to the Webcor/Obayashi JV CQC Manager.
- Submit Preparatory and Initial Phase Checklists, along with Follow-up Phase documentation for each DFOV to the Webcor/Obayashi JV CQC Manager.
- Establish written procedures for Trade Subcontractor document control, submittal management and material procurement.
- Maintain and submit copies of all quality control documentation, certifications, and materials delivery receipts as required in the Contract Documents.
- Attend the Coordination meetings.



- Manage the Three Phases of Control process for each DFOW, including conducting the Preparatory, Initial and Follow-up phase meetings for each of the trade subcontractors DFOW.
- Immediately stop any work, for which they are responsible, that does not comply with requirements of the Contract Documents, and direct removal and replacement of any defective work.
- Conduct quality inspections of Work performed to ensure compliance with requirements of the Contract Documents.
- Ensure that all Work performed, on and off the construction site, and all materials and equipment conform to requirements of the Contract Documents. Report non-conformances and corrective action planned and taken.
- Remove any person from the Project that consistently fails to perform Work properly.
- Ensure that the Trade Subcontractors submittals conform to the requirements of the Contract Documents.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to the work being inspected.
- Provide verification to the Webcor/Obayashi JV CQC Manager of Trade Subcontractors task completion prior to requesting final inspections.
- Facilitate inspections and tests.
- Cooperate with testing agency personnel.
- Provide access to the Work.
- Obtain and handle samples and equipment as defined in section 01 13 00 Submittals. Furnish storage and assistance as requested.
- Trade Subcontractor shall include within their quality assurance plan per Specification Section 01 16 00 1.3 Quality Assurance, procedures for full protection of Work and materials.
- Where required, deliver samples to testing agency.
- Take steps to ensure no portion of the work requiring testing or inspection is covered prior to the acceptance by authorized parties.
- Ensure that no testing or inspection is scheduled until all approvals for the work have been received. This includes welder's certifications, submittals, design/build engineering stamp and certification.
- Maintain as-built drawings per 01 17 20 Project As-Built Drawings.
- Support and facilitate QMS Audit process.



QUALIFIED SUBCONTRACTORS AND SUPPLIERS.

- As part of bid package development Webcor/Obayashi JV will prepare trade package specific subcontractor prequalification requirements. These prequalification's are submitted to, and reviewed by the TJPA. The pre-qualification requirements are then included in the project bidding manual.
- Prior to contract award Webcor/Obayashi JV verifies that all trade subcontractors and suppliers meet the project requirements as outlined in the project bidding manual and contract documents.



## QUALIFICATIONS

**BOB GARCIA**

**Quality Manager**

## EDUCATION AND BACKGROUND

As the Contractors Quality Control System Manager, Mr. Garcia has primary responsibility of managing the Contractors Quality Management System. His duties include drafting the project specific CQC plan and ensuring Trade Subcontractor compliance via implementation of specified process controls. He is the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible for documenting quality compliance and providing senior management with periodic quality reports.

Mr. Garcia graduated with a BA in Biology/Chemistry from San Jose State University in 1975. His 32 years of construction and quality management experience includes developing project specific and company-wide quality management programs for both private and public works construction projects. He has taken additional coursework on management leadership, financial and risk management, and exterior envelope systems.



## RELEVANT QUALITY EXPERIENCE

---

### **Transbay Transit Center San Francisco, CA**

2010-Present: Manager of CM/GC Quality Control System. Developed and implemented CM/GC Quality Management Program based upon the Federal Transit Administration's 15 Elements of Contractors Quality Control Guidelines, including construction process controls based upon NAVFAC/USAEC Three Phases of Control.

The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.

### **Cleveland Clinic Abu Dhabi Hospital United Arab Emirates**

2010: Sixco/Samsung Joint Venture Document Control Manager- As part of the Quality Management effort, developed a sophisticated document management system which established the protocol for maintaining the conforming construction documents and document distribution system to assure that all project documents were current and only the most recent versions were immediately available to the construction team (Element 4: Document Control of the FTA Quality Control Guidelines). Documents controlled included over 18,000 drawing pages, 18 specification sections and 30,000+ shop drawings and drawing revisions for: structural steel, building curtain wall, mechanical, electrical, plumbing, fire life safety, medical gas systems and other hospital process systems.

Cleveland Clinic Abu Dhabi is a state-of-the-art hospital that brings the most advanced medical services of diagnostic and treatment capabilities in the region. The clinic specializes in innovative technologies in surgery, imaging, telemedicine, and electronic medical record systems that are integrated into five institutes: Gastroenterology, Eye, Heart and Vascular, Neurological, and Respiratory and Critical Care. Total of 2,600,000 sf and 360 beds. \$1.7 billion.



**Turner Construction Co.  
Oakland, CA**

2006-2009: Quality Control Manager for Turner Construction Company's Northern California Business Unit. Served as the manager for the Business Units Construction Defect Task Force and developed Quality Control procedures for the business unit and specific projects. Developed curriculum and conducted business unit quality training programs. Manager responsible for developing the Quality section of the Turner's (Corporate) Superintendent training for their web based "Turner University" (Element 15: Training of the FTA Quality Control Guidelines). Worked as a member of the committee to establish a new corporate quality program.

**Lucille Packard Children's  
Hospital  
Palo Alto, CA**

2009: Developed a Quality Control program for managing the installation of the building exterior envelope (Element 7: Process Control of the FTA Quality Control Guidelines).

**Santa Clara Valley Specialty  
Center  
San Jose, CA**

2004-2006: Senior Project Manager overseeing the implementation of a NAVFAC/UAEC based Quality Control Program for the Santa Clara County Valley Specialty Center Medical Office Building (Element 7: Process Control of the FTA Quality Control Guidelines).

The Santa Clara Valley Specialty Center offers 243,000 sf and 190 exam rooms and facilities serving as an outpatient specialty clinic for ophthalmology, orthopedics, endocrinology, otolaryngology, surgical specialties, oncology/nuclear medicine, pharmacy, laboratory and imaging services. This is an OSHPD project. \$150 million.

**Applied Materials  
Sunnyvale, CA**

1995-1996: Developed and managed a construction clean room, quality construction protocol and final certification for a H6 Class 10 clean room.

This project provided 435,000 sf of renovations including: seismic retrofit, new mechanical central plant, manufacturing clean rooms, tool fit-up, new offices, cafeteria and site upgrades for H-6 occupancy areas. \$80 million.

**Midpeninsula Regional Open  
Space District Offices  
Los Altos, CA**

1994: Construction and Quality Manager providing quality inspection services for the renovation of the District's 9,000 sf. headquarters.



**Windward Construction  
Company  
Sunnyvale, CA**

1979-1995: Managed and supervised a privately held construction company. Duties included development and implementation of the Corporate Quality Management procedures.

#### RELEVANT PROJECT EXPERIENCE WHICH INCLUDED IMPLEMENTATION OF QUALITY CONTROL REQUIREMENTS

---

**Cypress Semiconductor  
San Jose, CA**

Cypress Semiconductor corporate headquarters consists of a three-story steel frame building with Glass Fiber Reinforced Concrete. The build out comprises of offices, executive suite and boardroom, cafeteria, and an 11,000 sf auditorium that accommodates 1,600 persons. The 5,000 sf cafeteria features a full kitchen that serves up to 1,500 meals per day in addition to providing catering services for the entire campus. Additional building amenities include a hair salon, massage therapy center, and a fitness center that encompasses an aerobic area, free weights area, and shower facilities. \$62 million.

**Guidant Corporation  
Menlo Park, CA**

A medical device manufacturing facility that includes cGMP clean manufacturing, process and gas facilities, administrative offices, shipping, receiving and a cafeteria. 107,000 sf. \$5 million.

**Novellus Systems Inc.  
San Jose, CA**

A semiconductor applications lab and engineering facility, including a robotic wafer delivery system, central plant, co-generation, process gas delivery and waste abatement systems. 82,000 sf. \$65 million.

**Mineta San Jose  
International Airport  
San Jose, CA**

Temporary facilities and installation of 11 CTX9000 baggage screening machines at Terminals A and C for Boeing Corporation, involving SJIA airport operations, eleven national airlines and airport security to satisfy the federally mandated baggage screening program for the United States Government Transportation Security Agency (TSA). \$25 million.

**ALZA Corporation Clean  
Zone Improvement  
Vacaville, CA**

cGMP - Upgrades to an operating drug manufacturing facility to comply with European pharmaceutical manufacturing standards. \$15 million.





**Lucille Packard Children's  
Hospital  
Palo Alto, CA**

Lucille Packard Children's Hospital renovation included exterior façade renovation and an addition of 53 beds to surgery, oncology, and pediatric intensive care units. 80,000 sf. \$90 million.

**Stanford Graduate School of  
Business  
Stanford, CA**

A 360,000 sf new business school campus comprised of eight buildings around three quadrangles. The campus includes a 600-seat lecture hall, dining facilities, faculty and staff offices, a parking structure for 900 vehicles, and dedicated space for career management and executive education programs. Also included are collaborative hands-on learning and virtual communication classrooms, linking students from Stanford to other schools around the world. \$300 million.

**Mills Peninsula Hospital  
Burlingame, CA**

Mills Peninsula Hospital and Office Building Replacement was a 5-story above and one-story below grade general acute hospital project. Renovations included an addition of 241 beds, base isolation seismic safety, technology-ready facilities with medical/surgical patient care rooms equipped to accommodate higher acuity telemetry monitoring, emergency department, and a Helipad. \$618 million.

**Midpeninsula Regional  
Open Space District Offices  
Los Altos, CA**

Program Management for regional Ranger Facilities. Defined the facilities requirements and assisted in architect selection for two new ranger field offices and maintenance facilities. \$30,000.

## CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

US Navy/Army Corps of Engineers Quality/NAVFAC Certified

OSHA 30 Hour Safety Program

ASHE Health Care Certified

LEAN/Last Planner Instructor



## QUALIFICATIONS

**LYNN KOWALLIS**

**Quality Alternate**

## EDUCATION AND BACKGROUND

As the Alternate Contractors Quality Control System Manager, Mr. Kowallis has primary responsibility to assisting the Quality Control System Manager and help implement the Contractors Quality Management System.

His duties include reporting to the CQC Manager and preform all duties of the CQC Manager when not on-site. Ensuring Trade Subcontractor compliance via implementation of specified process controls. He is to assist the day to day interface between project production and quality management to assure the owner that the work conforms to the project requirements. He is responsible the tracking of Quality Control documents for quality compliance and providing the Contractors Quality Control Manager with periodic quality reports.

Mr. Kowallis graduated with a Bachelor of Science in Construction Management from Utah Valley University in 2006. His 7 years of construction management experience includes supervising quality control testing, maintaining and reporting quality control reports and implementing the quality control process projects wide.



## RELEVANT QUALITY EXPERIENCE

---

### **Transbay Transit Center San Francisco, CA**

2012-Present: Alternate Manager of CM/GC Quality Control System. Assisted in the developed and implementation of the CM/GC Quality Management Program based upon the Federal Transit Administration's 15 Elements of Contractors Quality Control Guidelines, including construction process controls based upon NAVFAC/USAEC Three Phases of Control.

The Transbay Transit Center Project in downtown San Francisco will transform transportation in California and stimulate the economy by building the "Grand Central of the West." As the largest approved public transportation project in the country, the project will replace the current Transbay Terminal at First and Mission streets in San Francisco with a modern regional transit hub connecting eight counties in the Bay Area and the State of California through nine transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, MUNI, SamTrans, WestCAT and future High Speed Rail from San Francisco to Los Angeles. Additionally, it will extend Caltrain and California High Speed Rail underground from Caltrain's current terminus at 4th and King streets into the new downtown Transit Center and create a new neighborhood with homes, offices, parks and shops surrounding the new Transit Center.

### **Vantage Data Center Project Santa Clara, CA**

2011: Office Engineer for Hensel Phelps Construction Company. As part of the Quality Control effort, developed the specific Quality Control Plan for the project and help manage the quality control process though out the project. Prepared daily quality control reports and supervised quality control testing for the commissioning process. Reviewed mechanical, electrical, plumbing, fire life safety and building management systems drawings for quality and accuracy.

Vantage Data Center is a LEED Platinum Certified Design-Build project with technological advancement in data centers. The Santa Clara campus has a 37 MW of effective IT power capacity. The data center uses a standard 3.0 MW module to meet data center requirements. Total of 93,000 sf.



**Minta San Jose  
International Airport  
San Jose, CA**

2008-2011: Field Engineer/Office Engineer for Hensel Phelps Construction Company. Implemented the Quality control process for trade subcontractors and verified quality work was established on the project. Scheduled and conducted quality preparatory, initial and follow up meetings with trade subcontractors. Assisted the Quality Control Manager in reviewing drawings and specifications for quality assurance. Maintained project documents for the mechanical, electrical, plumbing, security, fire life safety and building management system drawings and distributed the updated revise set to the project team for quality assurance.

The project elements include a new Terminal B and concourse with an upgraded baggage handling system and a total of 12 aircraft gates, Terminal A upgrades, a seven deck parking garage with a consolidated rental car center that has 3,000 spaces for all rental car operations and 350 public parking spaces. \$600 million.

**Kaweah Delta District  
Hospital.  
Visalia, CA**

2006-2008: Field Engineer for Hensel Phelps Construction Company. Coordinated and processed all the quality field inspections between trade subcontractors, OSHPD, and city inspectors. Reviewed quality control testing results for discrepancies and non-conformances. Prepared daily quality control field reports. Maintained the quality control process that was established in the Quality Control Plan.

Kaweah Delta Hospital is a state-of-the-art hospital that has one of the top cardio vascular facilities in the nation. The facility specializes in Cardiac, Vascular, Orthopedics, Neurosurgery, OB/GYN, ENT, Ophthalmology and Plastic reconstructive work. Total 200,000 sf, 12 surgical rooms, 581 beds. \$106 million.

**Residential Remodeling  
Orem, UT**

2003-2004: Assistant Project Manager for Clawson Remodeling Inc. Assisted in the development of construction plans to meet code requirements and quality assurance.

**Electrical Apprentice  
West Jordan, UT**

2002: Electrical Apprentice for Kowallis Electric Incl. Installed quality electrical wiring commercial building and custom homes. Evaluated and studied electrical plans, specifications and code requirements for commercial building and residential homes.



## RELEVANT PROJECT EXPERIENCE WHICH INCLUDED IMPLEMENTATION OF QUALITY CONTROL REQUIREMENTS

---

### **Vantage Data Center Santa Clara, CA**

Developed the specific Quality Control Plan for the project. Managed the quality control process through out the project. Prepared daily quality control reports. Supervised quality control inspections and testing for the commissioning process. Reviewed mechanical, electrical, plumbing, fire life safety and building management systems drawings for quality and accuracy.

### **Minta San Jose International Airport San Jose, CA**

Implemented the Quality Control process for trade subcontractors. Assisted the Quality Control Manager in reviewing drawings and specifications for quality assurance. Distributed updated and revised drawings and specifications to the project team to implement quality assurance in the field.

### **Kaweah Delta District Hospital Visalia, CA**

Coordinated the quality control process with all the quality control field inspections between trade subcontractors, OSHPD, and city inspectors. Reviewed quality control testing results for discrepancies and non-conformances. Prepared daily quality control field reports for client and project team. Maintained the quality control process that was established the Quality Control Plan.

## CERTIFICATIONS AND PROFESSIONAL MEMBERSHIPS

---

US Navy/Army Corps of Engineers Quality/NAVFAC Certified

3. WEBCOR/ OBAYASHI JV CQC MANAGER  
APPOINTMENT LETTER



### **3 . QUALITY CONTROL MANAGER APPOINTMENT LETTER**

**To:** Bob Garcia  
Quality Control Manager

**From:** Jes Pederson  
Executive Vice President Webcor/Obayashi Joint Venture

**Date:** January 4, 2011

**Subject:** Appointment of Quality Control Manager for Transbay Project

---

Please be advised that you are hereby appointed as Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work may adversely affect quality or cover up a defect.
- To direct the removal and replacement of a nonconforming work or material by any subcontractor or supplier.

Executive Vice President signature and date:

A handwritten signature in black ink, appearing to read "Jes Pederson", followed by the date "1/3/11".



## ALTERNATE QUALITY CONTROL MANAGER APPOINTMENT LETTER

**To:** Lynn Kowallis  
Alternate Quality Control Manager

**From:** Bob Garcia  
Quality Control Manager

**Date:** March 24, 2012

**Subject:** Appointment of Alternate Quality Control Manager for Transbay Project

---

Please be advised that you are hereby appointed as Alternate Quality Control Manager for the Transbay Transit Center Project. Your responsibilities include managing and implementing the Webcor/Obayashi Joint Venture Project Quality Control Plan.

You are assigned the following responsibilities:

- Implementing provisions of the Webcor/Obayashi JV Quality Control Plan as it pertains to the contract Documents.
- Assuring that the Quality Control Plan is established and implemented by persons doing work that impacts quality.
- Assuring that the Quality Control Plan is maintained.
- Acting as Webcor/Obayashi JV liaison with parties outside of the company on matters relating to quality.
- Reporting to Senior Management on the performance of the Quality Control Plan, including needed improvements.
- Review of the quality control documents.
- Review of quality control records.
- Review of quality related contract submittals.
- Review of project inspection and quality control activities.
- Review of subcontractors quality control programs.
- Reporting to the TJPA representative on matters pertaining to quality.
- Reviewing and distributing subcontract quality control reports.

I grant you authority for carrying out the above responsibilities including:

- Stopping Work when continuing work may adversely affect quality or cover up a defect.
- To direct the removal and replacement of nonconforming work or material by any subcontractor or supplier.

Bob Garcia  
Quality Control Manager, Webcor/Obayashi JV

Signature and date.

3/22/2012



## 4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL



## **4. SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL**

### **SUBMITTAL MANAGEMENT**

The Submittal process is designed to assure that all material, assemblies, equipment and shop drawings meet the Transbay Transit Center project requirements and are approved by the TJPA prior to procurement and installation. The Submittal process is the means by which the Trade Subcontractors control product purchasing. This submittal schedule will be developed incrementally and additional submittals will be added as trade packages are awarded and subcontractors are brought on board. Trade subcontractors will submit their submittal schedules for approval, as required in the Division 00, 01 and technical specifications, prior to the start of work.

### **DOCUMENT CONTROL**

Webcor/Obayashi's Document Control process is the means by which information specific in the Contract Documents to be in Webcor/Obayashi's and the Trade Subcontractors control are logged, filed, and updated to assure that all relevant information meets the project requirements.

### **SUBMITTAL MANAGEMENT AND DOCUMENT CONTROL PROCEDURES**

The Webcor/Obayashi JV Document Control and Submittal management procedures are part of Webcor/Obayashi's Transbay Transit Center Policy and Procedures Guide. The relevant sections of that guide addressing submittal management and document control are listed below and are included in this section of the Webcor/Obayashi JV CQC Manual.

- |                                 |   |
|---------------------------------|---|
| 1. Submittals                   | 7. Design documents                     |
| 2. Document control             | 8. Master project document log          |
| 3. File naming conventions      | 9. Updating drawings and specifications |
| 4. Filing archive               | 10. Document set manager                |
| 5. Transmittals                 | 11. CQC file structure                  |
| 6. Document distribution matrix |   |

# Submittals

November 18, 2011

## Purpose

To obtain approval from the Architect/Engineer/Consultant for all materials, assemblies, equipment and shop drawing submittals required by the contract documents.

## Policy

To install materials, assemblies and equipment only after approval is obtained from the appropriate reviewing Architect/Engineer/Consultant responsible for the particular scope of work.

## Procedure

- Webcor/Obayashi and TJP A process submittals using two different types of project management software. Webcor/Obayashi uses CMiC and TJP A uses ConstructWare.
- In CMiC submittal packages contain submittals and all of the history of the submittal is tracked at the submittal level. The submittal package is simply the nest of the submittals that are attached to it.
- Submittals are transmitted to TJP A from Webcor/Obayashi via CMiC and ConstructWare.
  - The naming format of the PDF submittal is crucial for the transmission to be successful.
- Submittal Actions Status:

ACTION	STATUS
Received	Open
Sent	Submitted
Returned	No Exceptions Taken, Make Corrections Noted, Revise and Resubmit, or Rejected
Forwarded	Same as Returned Status

## Receive Submittal from Subcontractor – 0-5 days

Was it received on time? If not, have the department head notify the subcontractor that it was late. Is the submittal complete? If not, return the submittal to the subcontractor, transmittal shall include notification that the submittal is incomplete, give a date that the re-submittal is required, and notify them of their potential risk in missing the submittal date.

Once reviewed using the submittal process checklist and deemed complete, stamp, (All pages of shop drawings; front page only for product data), distribute to PM, QC and Supt. to review for compliance, and transmit to ownership.



# Submittals

November 18, 2011

---

## Design Team Review – 12 days

Design team will review the submittal. Each layer of review (Architect and Consultants) will stamp **ALL** pages and return to Webcor/Obayashi's document control manger.

---

## Returned Submittal – 5days

---

### Reviewed by Document Manager – Notify Author

Document Control will receive e-mail notification that the submittal has been reviewed in ConstructWare. Document Control will forward the e-mail notification along with all attachments to Author.

---

### PM Triage – Notification Sent to Subcontractors

---

#### Revise & Re-Submit or Rejected

Return R&R or Rejected submittal to author subcontractor. PM will include in the transmittal a due date for re-submittal (5 days). Director will make a case-by-case determination on whether to send a preliminary submittal to other subcontractors for coordination.

---

#### No Exceptions Taken & Make Corrections Noted

Email author subcontractor and all affected trade subcontractors the approved submittal. PM will include transmittal with the action required.

---

### Is there a Cost / Schedule Impact or Scope Change?

Subcontractors have 5 days from the returned date to respond with a cost or schedule impact.

---

### Written Notification to Owner, draft RFI to Capture Cost

Shop drawings, product data, and samples "are not contract documents" per our contract language. Therefore, any change in scope due to a submittal must be captured via RFI. Director should also send written notification to ownership of any scope change incurred from a returned Submittal.

---

## Storing Approved Submittals

Author of submittal will file all documents and correspondence within the storage folder and post the documents electronically.

- 
- Put approved electronic copy of submittal in the designated folder.
-



## SUBMITTAL PROCESS CHECKLIST

Submittal Package No.: \_\_\_\_\_ Date Received: \_\_\_\_\_

Submittal Name: \_\_\_\_\_

☐ Review each submittal to:

- ☐ Verify that the submittal's contents match the accompanying transmittal. Did we receive everything listed on the transmittal?
- ☐ Verify that the submittal's contents are complete per the submittal register. Important: submittal packages need to be complete and should include all information necessary for review. Partial submittals are to be rejected by W/O (if we don't the TIPA will).
- ☐ Verify that the contents of the submittal are in conformance with the technical specifications and other appropriate contract documents.
- ☐ Is the Submittal a Substitution?
  - ☐ No- Continue Processing Submittal
  - ☐ Yes -Reject submittals that are substitution requests- There is a separate process for substitutions.
- ☐ Verify that the trade subcontractor has checked and coordinated all dimensions, materials, field measurements, with the requirements of the Work and the Contract Documents.
- ☐ Verify that the submittal complies with the requirements of reference specifications –SFDPW, PG&E etc.
- ☐ Confirm that all professional certifications (stamp) w/license number and expiration date are provided and signed if required.
- ☐ Note any variations from the Contract requirements (if there are create an issue in CMiC)
- ☐ Address all questions raised or noted in the submittals; requests to verify dimensions, etc. If there are questions with the submittal:
  - ☐ Can the questions be answered by W/O?
  - ☐ Does an RFI need to be submitted?
  - ☐ Does an issue need to be created in CMiC?
  - ☐ Identify who is responsible for answering the question
- ☐ Identify all affected and adjacent trades that can be potentially impacted by submittal. Develop an action plan to coordinate submittal information with ALL affected and adjacent trades.
- ☐ If the submittal is complete, stamp the first page of each item. If it is shop drawings, all sheets must be stamped.

Trade Scope Superintendent: \_\_\_\_\_

Date: \_\_\_\_\_

Trade Scope PM: \_\_\_\_\_

Date: \_\_\_\_\_

CQC Manager: \_\_\_\_\_

Date: \_\_\_\_\_

O  
U

.....)



# Submittal Log

## Project 30100 - Transbay Transit Center Project

Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>No Spec Section</b>											
0402.001.00	1	Traffic Control Plan	0402.001.0	MSQUA902	SANDI612	8/26/11	9/14/11			0	Open
T00000-100000A08	1	Labor Rates	TG1901-028	TRANS500	TURNE361	5/05/11	5/23/11	5/26/11	6/01/11	3	Approved As Noted
TA0000-011300A01	1	Submittal Schedule	TG1901-006	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TA0000-011300A01	2	Submittal Schedule	TG1901-006	TRANS500	TURNE361	6/24/11	7/13/11	8/03/11	8/03/11	21	No Exceptions Taken
TA0000-C0001A01	1	301 Mission Wall Demolition Plan	TG1901-016	TRANS500	TURNE361	1/05/11	1/21/11	1/06/11	1/06/11	-15	Revise and Resubmit
TA0000-S0002A01	1	Hilti Hit-RE 500-SD	TG1901-022	TRANS500	TURNE361	2/25/11	3/15/11	3/02/11	3/02/11	-13	No Exceptions Taken
TA0000-S0002A02	1	Hilti Certification Cards	TG1901-022	TRANS500	TURNE361	3/08/11	3/24/11	3/21/11	3/23/11	-3	No Exceptions Taken
TA1010-S5000A01	1	Concrete Mix Design	TG1901-001	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	Make Corrections Noted
TA1010-S5000A01	2	Concrete Mix Design	TG1901-001	TRANS500	TURNE361	1/25/11	2/10/11	2/03/11	2/04/11	-7	Make Corrections Noted
TA1010-S5000A02	1	Rebar Letter of Compliance	TG1901-001	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TA1010-S5000A03	1	Reinforcing Steel Shop Drawing	TG1901-001	TRANS500	TURNE361	1/25/11		2/03/11	2/04/11	0	No Exceptions Taken
TA1010-S5000A04	1	Welding Procedure Specification	TG1901-001	TRANS500	TURNE361	3/29/11	4/14/11	4/05/11	4/05/11	-9	No Exceptions Taken
TA1010-S5000A04	2	Welding Procedure Specification	TG1901-001	TRANS500	TURNE361	4/26/11	5/12/11	4/22/11	4/27/11	-20	No Exceptions Taken
TA1010-S5000A05	1	Concrete Mix Design (curbs)	TG1901-029	TRANS500	TURNE361	6/24/11	7/13/11	7/12/11	7/13/11	-1	For Record Only
TA1030-C0002A01	1	Waterproofing - Product Data	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A02	1	Waterproofing - Samples	TG1901-019	TRANS500	TURNE361					0	Closed
TA1030-C0002A03	1	Waterproofing - Installer Certs	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A04	1	Waterproofing - Shop Drawings	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A05	1	Waterproofing - Flashing Shop Drawings	TG1901-019	TRANS500	TURNE361	5/18/11	6/06/11	6/10/11	6/13/11	4	Submitted
TA1030-C0002A07	1	Waterproofing - Sample of Warranty	TG1901-019	TRANS500	TURNE361	5/17/11	6/03/11	6/10/11	6/13/11	7	Approved As Noted
TA2010-315613A09	1	Corrective Action Plan for Sunken CDSM Solider Piles	TG0300-583	BALFO900	TURNE361	1/13/12	1/31/12	1/20/12	1/20/12	-11	Make Corrections Noted
TA2010-315613A09	2	Corrective Action Plan for Sunken CDSM Solider Piles	TG0300-583	BALFO900	TURNE361	2/01/12	2/17/12		2/15/12	0	Make Corrections Noted
TA2010-31561A10	1	CDSM Sand Pocket Corrective Action Plan	TG0300-583	BALFO900	TURNE361	1/13/12	1/31/12	1/20/12	1/20/12	-11	Make Corrections Noted
TA2010-31561A10	2	CDSM Sand Pocket Corrective Action Plan	TG0300-583	BALFO900	TURNE361	2/01/12	2/17/12		2/15/12	0	Make Corrections Noted
TA2010-31561A11	1	BSE - Corrective Action Plan CDSM Wall Beam #859	TG0300-584	BALFO900	TURNE361					0	Submitted
TA2010-31561A12	1	CDSM Wall Corrective Action Plans - Resplicing of Solider Piles								0	Open
TB2010-A6000A01	1	Sheet Metal Panel: Shop Drawings	TG1901-024	TRANS500	TURNE361	4/06/11	4/22/11	4/21/11	4/22/11	-1	No Exceptions Taken
TB2010-A6000A02	1	Stucco Product Data	TG1901-014	TRANS500	TURNE361	12/21/10	1/11/11	1/17/11	1/18/11	6	No Exceptions Taken





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>No Spec Section (continued)</b>											
TB2010-S0002A01	1	301 Mission Screen Wall - Insulation Separation Tape	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S0002A02	1	301 Mission Screen Wall - Stainless Steel Fasteners	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S0002A03	1	301 Mission Screen Wall - SASM (Self Adhering Sheet Membrane)	TG1901-027	TRANS500	TURNE361	4/29/11	5/17/11	5/05/11	5/06/11	-12	Make Corrections Noted
TB2010-S5000A01	1	Structural Steel Shop Drawings	TG1901-002	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	Make Corrections Noted
TB2010-S5000A01	2	Structural Steel Shop Drawings	TG1901-002	TRANS500	TURNE361	1/25/11	2/10/11	2/04/11	2/04/11	-6	Make Corrections Noted
TB2010-S5000A02	1	301 Mission Screen Wall - Stainless Steel Anchor Bolts	TG1901-010	TRANS500	TURNE361	3/29/11	4/14/11	4/13/11	4/13/11	-1	No Exceptions Taken
TB2010-S5000A03	1	Grout Mix Design and Material: Product Data	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	No Exceptions Taken
TB2010-S5000A03	2	Grout Mix Design and Material: Product Data	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	No Exceptions Taken
TB2010-S5000A04	1	Narrative of Grouting Procedure	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	Make Corrections Noted
TB2010-S5000A04	2	Narrative of Grouting Procedure	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	Make Corrections Noted
TB2010-S5000A05	1	Qualifications and Resume	TG1901-023	TRANS500	TURNE361	3/25/11	4/12/11	3/30/11	3/31/11	-13	No Exceptions Taken
TB2010-S5000A05	2	Qualifications and Resume	TG1901-023	TRANS500	TURNE361	3/29/11	4/14/11	3/30/11	3/31/11	-15	No Exceptions Taken
TB2010-S5000A06	1	301 Mission Screen Wall - Stainless Steel Anchor Bolts - Shop Drawing	TG1901-010	TRANS500	TRANS500	4/13/11	4/29/11	4/13/11	4/13/11	-16	No Exceptions Taken
TC3010-A5000A01	1	Paint Product Data	TG1901-012	TRANS500	TURNE361	12/21/10	1/11/11	1/14/11	1/18/11	3	No Exceptions Taken
TC3010-A5000A01	2	Paint Product Data	TG1901-012	TRANS500	TURNE361	3/07/11	3/23/11	3/21/11	3/23/11	-2	No Exceptions Taken
TC3010-A5000A02	1	Paint Color Sample	TG1901-012	TRANS500	TURNE361	12/21/10	1/11/11	1/14/11	1/18/11	3	No Exceptions Taken
TC3010-A5000A02	2	Paint Color Sample	TG1901-012	TRANS500	TURNE361	3/07/11	3/23/11	3/21/11	3/23/11	-2	No Exceptions Taken
TC3010-A5000A05	1	Aluminum Panel Shop Drawings	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A5000A05	2	Aluminum Panel Shop Drawings	TG1901-013	TRANS500	TURNE361	4/07/11	4/25/11	4/21/11	4/22/11	-4	Make Corrections Noted
TC3010-A6000A01	1	Stone Color Sample for the Wall	TG1901-004	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TC3010-A6000A02	1	Stone Adhesive	TG1901-004	TRANS500	TURNE361	12/07/10	12/23/10	12/20/10	12/20/10	-3	No Exceptions Taken
TC3010-A6000A02	2	Stone Adhesive	TG1901-004	TRANS500	TURNE361	2/16/11	3/07/11	2/28/11	3/01/11	-7	No Exceptions Taken
TC3010-A6000A02	3	Stone Adhesive	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	No Exceptions Taken
TC3010-A6000A03	1	Aluminum Panel Product Data	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A6000A04	1	Aluminum Panel Sample	TG1901-013	TRANS500	TURNE361	1/25/11	2/10/11	2/22/11	2/22/11	12	Make Corrections Noted
TC3010-A6000A04	2	Aluminum Panel Sample	TG1901-013	TRANS500	TURNE361	2/24/11	3/14/11	3/02/11	3/02/11	-12	Make Corrections Noted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>No Spec Section (continued)</b>											
TC3010-A6000A05	1	Grout Color Samples for joints between stone	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	Make Corrections Noted
TC3010-A6000A06	1	Waterproofing membrane behind stone	TG1901-004	TRANS500	TURNE361	3/16/11	4/01/11	3/30/11	3/30/11	-2	No Exceptions Taken
TG0501-001	1	Schedule of Values	TG0501-001	CHAUD729	TURNE361					0	Make Corrections Noted
TG0501-001	2	Schedule of Values	TG0501-001	CHAUD729	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG0502-001	1	Schedule of Values	TG0502-001	BASSE606	TURNE361					0	Make Corrections Noted
TG0502-001	2	Schedule of Values	TG0502-001	BASSE606	TURNE361					0	Make Corrections Noted
TG0502-001	3	Schedule of Values	TG0502-001	BASSE606	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG0502-001	4	Schedule of Values	TG0502-001	BASSE606	TURNE361	9/14/11	9/30/11	10/05/11	10/05/11	5	Make Corrections Noted
TG0507-001	1	Schedule of Values	TG0507-001	CLIPP580	TURNE361					0	Make Corrections Noted
TG0507-001	2	Schedule of Values	TG0507-001	CLIPP580	TURNE361	8/30/11	9/16/11	9/14/11	9/14/11	-2	Make Corrections Noted
TG2010-C0001A01	1	301 Mission - Asphalt Pavers Product Data	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	Make Corrections Noted
TG2010-C0001A02	1	301 Mission - Asphalt Paver Samples	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	No Exceptions Taken
TG2010-C0001A03	1	301 Mission - Asphalt Paver Mastic Product Data	TG1901-017	TRANS500	TURNE361	1/11/11	1/27/11	1/27/11	2/08/11	0	Make Corrections Noted
TG2040-A0000A01	1	Site Logistics Plan	TG1901-005	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-C2000A01	1	Temporary Barrier	TG1901-003	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-C2000A02	1	Temporary Chainlink Fence	TG1901-003	TRANS500	TURNE361	12/07/10	12/23/10	12/13/10	12/16/10	-10	No Exceptions Taken
TG2040-S0001A01	1	Concrete Shop Drawing	TG1901-001	TRANS500	TURNE361	1/25/11	2/10/11	2/03/11	2/04/11	-7	Make Corrections Noted
TG2040-S0001A01	2	Concrete Shop Drawing	TG1901-001	TRANS500	TURNE361	2/24/11	3/14/11	3/14/11	3/15/11	0	Make Corrections Noted
TG4010-015313A02	1	PG&E Phase II Utilities at Fremont St.	TG0300-903	BALFO900	TURNE361	1/04/12	1/20/12	1/06/12	1/04/12	-14	Make Corrections Noted
TG4010-015313A02	2	PG&E Phase II Utilities at Fremont St.	TG0300-903	BALFO900	TURNE361	1/06/12	1/24/12	1/30/12	1/30/12	6	Make Corrections Noted
TZ1010-000000A07	1	Injury and Illness Prevention Plan	TG0300-111	BALFO900	TURNE361	3/23/11	4/08/11	3/29/11	3/25/11	-10	For Record Only
TZ1010-000000A07	2	Injury and Illness Prevention Plan	TG0300-111	BALFO900	TURNE361	4/06/11	4/22/11	4/07/11	4/07/11	-15	For Record Only
TZ1010-000000A08	1	Site Logistics - General Plan	TG0300-021	BALFO900	TURNE361	3/02/11	3/18/11	3/10/11	3/10/11	-8	Void
TZ1010-000000A08	2	Site Logistics - General Plan	TG0300-021	BALFO900	TURNE361		3/03/11	3/10/11	3/10/11	7	Void
TZ1010-000000A09	1	Site Logistics - Temporary Lighting Plan	TG0300-030	BALFO900	TURNE361	7/13/11	7/29/11	7/15/11	7/15/11	-14	For Record Only
TZ1010-000000A09	2	Site Logistics - Temporary Lighting Plan	TG0300-030	BALFO900	TURNE361	7/15/11	8/02/11	8/03/11	8/03/11	1	For Record Only

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>No Spec Section (continued)</b>											
UA0000-011720A18	1	As Built - U-3011	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A19	1	As Built - U-3012	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A20	1	As Built - U-3110	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A21	1	As Built - U-3111	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A22	1	As Built - U-3112	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A23	1	As Built - U-3116	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A24	1	As Built - U-3117	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A25	1	As Built - U-3118	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A26	1	As Built - U-3119	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A27	1	As Built - U-3120	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A28	1	As Built - U-3124	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A29	1	As Built - U-3125	TG0434-031	MSQUA902	TURNE361	3/01/12	3/19/12	3/12/12	3/12/12	-7	Revise and Resubmit
UA0000-011720A30	1	As Built - U-3012	TG0401-011	MSQUA902	TURNE361	3/01/12	3/20/12	3/08/12	3/08/12	-12	Revise and Resubmit
UA0000-011720A31	1	As Built - U-3013	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A32	1	As Built - U-3022	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A33	1	As Built - U-3112	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011720A34	1	As Built - U-3113	TG0401-011	MSQUA902	TURNE361	3/01/12	3/19/12	3/08/12	3/08/12	-11	Revise and Resubmit
UA0000-011740A01	1	Warranties	TG0405-056	TRINE814	TURNE361	11/11/11	12/01/11	11/15/11	11/15/11	-16	Submitted
UA0000-011740A01	2	Warranties	TG0405-056	TRINE814	TURNE361	11/18/11	12/08/11			0	Submitted
UG1020-020630E01	1	AWSS Potholing Plan	TG0402-022	MSQUA902	TURNE361	9/21/11	10/07/11	10/12/11	10/12/11	5	Make Corrections Noted
UG1020-020630E01	2	AWSS Potholing Plan	TG0402-022	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	Make Corrections Noted
UG1040-011350A01	1	Hazmat Environmental Health & Safety Plan	TG0405-020	TRINE814	TURNE361	1/13/11	1/31/11	1/26/11	1/26/11	-5	Not Reviewed
UG1040-011350A02	1	Contaminated & Hazardous Soil Excavation Plan	TG0405-021	TRINE814	TURNE361		11/19/10			0	Closed
UG3010-020630A01	1	AWSS Pothole Findings Location 1	TG0402-024	MSQUA902	TURNE361	11/04/11	11/22/11	2/13/12	2/13/12	83	Make Corrections Noted
UG3010-02530B01	1	M Squared - Dewatering Plan	TG0402-020	MSQUA902	TURNE361	11/22/11	12/12/11	11/22/11	11/22/11	-20	Make Corrections Noted
UG3010-02630A02	1	AWSS Pothole Findings Second St to First St	TG0402-024	MSQUA902	TURNE361	2/13/12	2/29/12	2/29/12	2/29/12	0	For Record Only
UG3010-027230C11	1	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	8/08/11	8/24/11	8/24/11	8/24/11	0	No Exceptions Taken
UG3010-027230C11	2	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	2/03/12	2/21/12	8/22/11	8/22/11	-183	No Exceptions Taken
UG3010-027230C11	3	AWSS Castings-Foundry	TG0402-011	MSQUA902	TURNE361	2/03/12	2/21/12	8/22/11	8/22/11	-183	No Exceptions Taken
UG3010-027280B01	1	M Squared Valve Drain Line Materail	TG0402-023	MSQUA902	TURNE361	10/27/11	11/14/11	12/05/11	12/05/11	21	Make Corrections Noted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





# Submittal Log

## Project 30100 - Transbay Transit Center Project

Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 00 07 00 (continued)</b>											
UA0000-000700B01	3	M Squared - Labor Rates	TG0434-030	MSQUA902	TURNE361	7/19/11	8/04/11	8/23/11	8/23/11	19	Make Corrections Noted
<b>Spec Section 00 08 05</b>											
TZ1010-000000A17	1	Insurance Certificates and Endorsements	TG0300-020	BALFO900	TURNE361	3/21/11	4/06/11	3/21/11	3/21/11	-16	For Record Only
UA0000-000805A01	1	Certificates of Insurance	TG0405-049	TRINE814	TURNE361	2/17/11	3/08/11	2/28/11	2/28/11	-8	For Record Only
<b>Spec Section 00 08 13</b>											
UA0000-000813A01	1	Noise Mitigation Plan	TG0405-029	TRINE814	TURNE361	1/13/11	1/31/11	11/29/10	11/29/10	-63	Not Reviewed
WO0000-000813W01	1	Air Quality Management	WO-EPP0001	30	TURNE361	1/10/11	1/26/11	1/11/11		-15	Make Corrections Noted
WO0000-000813W01	2	Air Quality Management	WO-EPP0001	30	TURNE361	1/11/11	1/27/11	1/12/11		-15	Make Corrections Noted
WO0000-000813W01	3	Air Quality Management	WO-EPP0001	30	TURNE361	1/12/11	1/28/11	1/27/11	1/27/11	-1	Make Corrections Noted
WO0000-000813W01	4	Air Quality Management	WO-EPP0001	30	TURNE361	4/11/11	4/27/11	4/28/11	11/09/11	1	Make Corrections Noted
WO0000-000813W01	5	Air Quality Management	WO-EPP0001	30	TURNE361	1/16/12	2/01/12	2/02/12	2/02/12	1	Make Corrections Noted
WO0000-000813W02	1	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	4/11/11	4/27/11	4/28/11	5/03/11	1	Make Corrections Noted
WO0000-000813W02	2	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361		4/11/11			0	Make Corrections Noted
WO0000-000813W02	3	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	10/04/11	10/20/11	11/04/11	11/09/11	15	Make Corrections Noted
WO0000-000813W02	4	Noise and Vibration Mitigation Management Plan	WO-NMM0001	30	TURNE361	1/16/12	2/01/12	2/02/12	2/02/12	1	Make Corrections Noted
WO0000-000813W03	1	Noise, Dust, and Odor Abatement Plan	WO-NDO0001	30	TURNE361	6/28/11	7/15/11	7/08/11	7/08/11	-7	Rejected
<b>Spec Section 00 08 15</b>											
TZ1010-000815A01	1	Solid Waste Management Plan	TG0300-060	BALFO900	TURNE361	4/20/11	5/06/11	5/06/11	5/09/11	0	Rejected
WO0000-000815W01	1	Construction Waste Management	WO-CDD0001	30	TURNE361	1/11/11	1/27/11	2/02/11	2/02/11	6	No Exceptions Taken
WO0000-000815W01	2	Construction Waste Management	WO-CDD0001	30	TURNE361	10/04/11	10/20/11	5/06/11	5/06/11	-167	No Exceptions Taken
WO0000-000815W01	3	Construction Waste Management	WO-CDD0001	30	TURNE361	10/04/11	10/20/11	11/03/11	11/09/11	14	No Exceptions Taken
WO0000-000815W01	4	Construction Waste Management	WO-CDD0001	30	TURNE361	1/16/12	2/01/12	2/21/12	2/23/12	20	No Exceptions Taken
WO0000-000815W01	5	Construction Waste Management	WO-CDD0001	30	TURNE361	2/23/12	3/12/12	3/12/12	3/12/12	0	No Exceptions Taken
WO0000-000815W02	1	Waste Management Plan for LEED	WO-WMM0001	30	TURNE361	2/01/12	2/17/12			0	For Record Only
<b>Spec Section 00 08 20</b>											
TZ1010-000820A01	1	CityBuild Workforce Projection Form	TG0300-022	BALFO900	TURNE361	4/05/11	4/21/11	4/18/11	4/19/11	-3	No Exceptions Taken
UA0000-000820A01	1	City Build Workforce Projection	TG0405-041	TRINE814	TURNE361	1/05/11	1/21/11	1/07/11	1/07/11	-14	No Exceptions Taken



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 00 08 20 (continued)</b>											
UA0000-000820A01	2	City Build Workforce Projection	TG0405-041	TRINE814	TRINE814	1/25/11	2/10/11	1/25/11	1/25/11	-16	No Exceptions Taken
UA0000-000820A01	3	City Build Workforce Projection	TG0405-041	TRINE814	TURNE361	8/31/11	9/19/11	8/31/11	8/31/11	-19	No Exceptions Taken
UA0000-000820D01	1	City Build Workforce Projection	TG0406-002	MSQUA902	TURNE361	3/30/11	4/15/11	4/05/11	4/05/11	-10	No Exceptions Taken
<b>Spec Section 000610</b>											
UA0000-000610B01	1	P&P Bonds	TG0434-011	MSQUA902	TURNE361	1/20/11	1/20/11	1/31/11	1/31/11	11	For Record Only
UA0000-000610C01	1	Bass P&P Bond	TG0502-000	01	TURNE361	9/15/11	10/03/11			0	For Record Only
UA0000-000610C02	1	Executed P&P Bonds	TG1901-000	01	TURNE361	9/15/11	10/03/11	9/16/11		-17	For Record Only
<b>Spec Section 000700</b>											
WO0000-011310W01	1	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W01	2	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W01	3	Webcor / Obayashi Baseline Schedule Narrative	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W02	1	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W02	2	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W02	3	Webcor / Obayashi Baseline Schedule (P6 file)	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W03	1	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W03	2	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W03	3	Webcor / Obayashi Baseline Schedule (PDFfile)	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W04	1	Webcor / Obayashi Baseline Schedule ACTIVITY ID	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W04	2	Webcor / Obayashi Baseline Schedule ACTIVITY ID	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W04	3	Webcor / Obayashi Baseline Schedule ACTIVITY ID	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W05	1	Webcor / Obayashi Baseline Schedule CRITICAL PATH	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W05	2	Webcor / Obayashi Baseline Schedule CRITICAL PATH	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W05	3	Webcor / Obayashi Baseline Schedule CRITICAL PATH	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W06	1	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken
WO0000-011310W06	2	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	11/22/10	12/08/10	12/13/10	12/14/10	5	No Exceptions Taken
WO0000-011310W06	3	Webcor / Obayashi Baseline Schedule NEAR CRITICAL PATH ACTIVITIES	WO-SCH0001	30	TRANS467	12/23/10	1/13/11	1/10/11		-3	No Exceptions Taken
WO0000-011310W07	1	Webcor / Obayashi Baseline Schedule PRED SUCCES	WO-SCH0001	30	TRANS467	10/27/10	11/12/10	11/16/10	11/16/10	4	No Exceptions Taken







Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 01 10 26 (continued)</b>											
WO0000-011026W01	2	W-O Schedule of Values	WO-SOV001	01	TURNE361	12/20/10	1/03/11	12/22/10		-12	No Exceptions Taken
<b>Spec Section 01 10 50</b>											
TZ1010-011050A01	1	Surveyor Information	TG0300-008	BALFO900	TURNE361	2/14/11	3/03/11	2/23/11	2/23/11	-8	No Exceptions Taken
TZ1010-011050A02	1	Site Drawing Verifying Contract Drawing Elevations and Locations	TG0300-090	BALFO900	TURNE361	7/11/11	7/27/11	8/24/11	8/25/11	28	Revise and Resubmit
UA0000-011050A01	1	Surveyor Qualifications & Insurance	TG0405-026	TRINE814	TURNE361	11/17/10	12/03/10	11/29/10	11/29/10	-4	No Exceptions Taken
UA0000-011050C01	1	Survey & Control Points	TG0401-007	MSQUA902	TURNE361	3/11/11	3/29/11	3/15/11	3/15/11	-14	No Exceptions Taken
UA0000-011050C02	1	Surveyor Qualifications	TG0401-007	MSQUA902	TURNE361	3/11/11	3/29/11	3/15/11	3/15/11	-14	No Exceptions Taken
UA0000-011050D01	1	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	4/21/11	5/09/11	4/22/11	4/25/11	-17	No Exceptions Taken
UA0000-011050D01	2	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	6/10/11	6/28/11	6/09/11	6/09/11	-19	No Exceptions Taken
UA0000-011050D01	3	Survey & Control Points	TG0406-005	MSQUA902	TURNE361	8/17/11	9/02/11	8/19/11	8/19/11	-14	No Exceptions Taken
<b>Spec Section 01 13 00</b>											
TZ1010-000000A21	1	Submittal Schedule	TG0300-001	BALFO900	TURNE361	2/04/11	2/23/11	2/09/11	2/10/11	-14	Make Corrections Noted
TZ1010-000000A21	2	Submittal Schedule	TG0300-001	BALFO900	TURNE361	2/11/11	3/02/11	3/02/11	3/02/11	0	Make Corrections Noted
TZ1010-000000A21	3	Submittal Schedule	TG0300-001	BALFO900	TURNE361	4/05/11	4/21/11	5/03/11	5/03/11	12	Make Corrections Noted
UA0000-011300A01	1	Trinet Submittal Schedule	TG0405-030	TRINE814	TURNE361	11/16/10	12/02/10	12/08/10	12/08/10	6	Submitted
UA0000-011300C01	1	M Squared - Submittal Memo		01	TURNE361	8/31/11	9/19/11	8/31/11		-19	Void
UA0000-011300C02	1	M Squared - Submittal Memo		01	TURNE361	4/01/11	4/19/11	4/01/11		-18	Void
UA0000-011300C03	1	M Squared - Submittal Memo	TG0404-011	01	TURNE361	4/01/11	4/19/11	6/01/11		43	Void
UA0000-011300C04	1	M Squared - Submittal Memo	TG0406-012	01	TURNE361	4/01/11	4/19/11	8/31/11		134	Void
<b>Spec Section 01 13 10</b>											
TZ1010-011310A01	1	CPM Schedule	TG0300-010	BALFO900	TURNE361	1/27/11	2/14/11	2/02/11	2/02/11	-12	Make Corrections Noted
TZ1010-011310A01	2	CPM Schedule	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
TZ1010-011310A02	1	CPM Schedule in P6	TG0300-010	BALFO900	TURNE361		2/16/11			0	Make Corrections Noted
TZ1010-011310A02	2	CPM Schedule in P6	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
TZ1010-011310A03	1	2011-01-28 Baseline Schedule Narrative for TG03	TG0300-010	BALFO900	TURNE361		2/16/11			0	Make Corrections Noted
TZ1010-011310A03	2	2011-01-28 Baseline Schedule Narrative for TG03	TG0300-010	BALFO900	TURNE361	2/02/11	2/18/11	2/14/11	2/14/11	-4	Make Corrections Noted
WO0000-011310W10	1	Baseline Schedule Narrative for TG04.3 & TG04.4	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 01 13 10 (continued)</b>											
WO0000-011310W10	2	Baseline Schedule Narrative for TG04.3 & TG04.4	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011310W11	1	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.xer	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted
WO0000-011310W11	2	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.xer	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011310W12	1	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.pdf	TG0434-028	30	TURNE361	1/26/11	2/11/11	3/09/11	3/09/11	26	Make Corrections Noted
WO0000-011310W12	2	CONSTRUCTION SCHEDULE SUBMITTAL TG04.3 & TG04.4.pdf	TG0434-028	30	TURNE361	3/10/11	3/28/11	3/24/11	3/24/11	-4	Make Corrections Noted
WO0000-011311W13	1	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W13	2	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W13	3	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W13	4	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W13	5	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W13	6	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W13	7	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	8/31/11		6	Make Corrections Noted
WO0000-011311W13	8	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	9/01/11	9/20/11	9/20/11		0	Make Corrections Noted
WO0000-011311W13	9	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	10/04/11	10/20/11	10/24/11		4	Make Corrections Noted
WO0000-011311W13	10	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	11/04/11	11/22/11			0	Make Corrections Noted
WO0000-011311W13	11	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TURNE361	12/05/11	12/21/11	12/22/11		1	Make Corrections Noted
WO0000-011311W13	12	Baseline (R3) Monthly Progress Narrative	WO-SCH0002	01	TRANS450	1/06/12	1/24/12	1/25/12		1	Make Corrections Noted
WO0000-011311W14	1	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	2/01/11	2/17/11			0	Make Corrections Noted
WO0000-011311W14	2	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	3/01/11	3/17/11	3/25/11	3/29/11	8	Make Corrections Noted
WO0000-011311W14	3	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	4/04/11	4/20/11	4/25/11	4/26/11	5	Make Corrections Noted
WO0000-011311W14	4	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	Make Corrections Noted
WO0000-011311W14	5	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W14	6	Baseline (R3) Monthly Progress Schedule.pdf	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas















Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 01 35 65 (continued)</b>											
TZ1030-013565A03	3	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361	2/06/12	2/22/12			0	Revise and Resubmit
TZ1030-013565A03	4	Life Safety and Emergency Access Plan	TG0300-191	BALFO900	TURNE361		5/03/11	3/02/12	3/06/12	304	Revise and Resubmit
TZ1030-013565A04	1	Acknowledgement that BBII will Coordinate with TJPA on Historic Preservation, etc.	TG0300-190	BALFO900	TURNE361	3/24/11	4/11/11	3/25/11	3/28/11	-17	Make Corrections Noted
TZ1030-013565A04	2	Acknowledgement that BBII will Coordinate with TJPA on Historic Preservation, etc.	TG0300-190	BALFO900	TURNE361	4/06/11	4/22/11	4/29/11	5/02/11	7	Make Corrections Noted
<b>Spec Section 01 53 13</b>											
TG4010-015313A01	1	CR T-017R1 PG&E Phase II Work at First Street	TG0300-901	BALFO900	TURNE361	10/14/11	11/01/11	1/06/12	10/24/11	66	Make Corrections Noted
TZ1030-015313A02	1	Temporary Bridges - Qualifications Data	TG0300-200	BALFO900	TURNE361	2/15/11	3/04/11	2/23/11	2/23/11	-9	For Record Only
TZ1030-015313A03	1	Temporary Bridges - Welder AWS Certifications	TG0300-240	BALFO900	TURNE361		6/04/12			0	Pending
TZ1030-015313A04	1	Temporary Bridges - Product Data	TG0300-210	BALFO900	TURNE361	8/10/11	8/26/11	8/30/11	9/12/11	4	Revise and Resubmit
TZ1030-015313A05	1	Temporary Bridges - Concrete Mix Designs	TG0300-248	BALFO900	TURNE361	1/09/12	1/25/12	2/09/12	2/09/12	15	For Record Only
TZ1030-015313A05	2	Temporary Bridges - Concrete Mix Designs	TG0300-248	BALFO900	TURNE361	3/13/12	3/29/12	3/05/12	3/05/12	-24	For Record Only
TZ1030-015313A06	1	Temporary Bridges - Rebar Manufacturer Certificates	TG0300-250	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A07	1	Temporary Bridges - Misc. Materials Required for Complete Installation (ie Signage, Lighting, OCS System, Etc.)	TG0300-215	BALFO900	TURNE361	3/22/12	4/09/12	3/22/12	3/22/12	-18	Void
TZ1030-015313A08	1	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	2/14/12	3/01/12	2/16/12	2/16/12	-14	Submitted
TZ1030-015313A08	2	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	2/22/12	3/09/12	3/06/12	3/06/12	-3	Submitted
TZ1030-015313A08	3	Temp Bridge Geometrics - First Street	TG0300-205	BALFO900	TURNE361	3/15/12	4/02/12			0	Submitted
TZ1030-015313A09	1	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	7/11/11	7/27/11	8/11/11	8/11/11	15	Submitted
TZ1030-015313A09	2	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Submitted
TZ1030-015313A09	3	Structural Drawings - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A10	1	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	7/11/11	7/27/11	8/11/11	8/11/11	15	Submitted
TZ1030-015313A10	2	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Submitted
TZ1030-015313A10	3	Structural Calculations - First Street and Fremont Street	TG0300-201	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A11	1	Preconstruction Photos of Existing Conditions BEALE ST	TG0300-268	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A12	1	MUNI OCS Installation Plan BEALE ST [FOR RECORD ONLY]	TG0300-220	BALFO900	TURNE361	6/28/11	7/15/11	8/16/11	8/16/11	32	For Record Only
TZ1030-015313A13	1	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	8/10/11	8/26/11	9/20/11	9/20/11	25	Submitted
TZ1030-015313A13	2	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	10/21/11	11/08/11	11/10/11	11/11/11	2	Submitted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 01 53 13 (continued)</b>											
TZ1030-015313A13	3	Temporary Bridge - Peer Review Letter	TG0300-202	BALFO900	TURNE361	2/24/12	3/13/12			0	Submitted
TZ1030-015313A14	1	Utility Supports at Temporary Bridges	TG0300-203	BALFO900	TURNE361	9/21/11	10/07/11	10/14/11	10/14/11	7	Revise and Resubmit
TZ1030-015313A15	1	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	TURNE361	9/15/11	10/03/11	10/06/11	10/11/11	3	Revise and Resubmit
TZ1030-015313A15	2	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	SANDI612	11/28/11	12/14/11	11/28/11	12/27/11	-16	Revise and Resubmit
TZ1030-015313A15	3	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	SANDI612	1/24/12	2/09/12	1/25/12	1/25/12	-15	Revise and Resubmit
TZ1030-015313A15	4	Temporary Bridge Traffic & Signal Plans - 1st and Fremont	TG0300-204	BALFO900	TURNE361	1/25/12	2/10/12	3/05/12	3/06/12	24	Revise and Resubmit
TZ1030-015313A16	1	Preconstruction Photos of Existing Conditions FIRST ST	TG0300-260	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A17	1	MUNI OCS Installation Plan FIRST ST	TG0300-230	BALFO900	TURNE361		3/14/12			0	Pending
TZ1030-015313A18	1	Temporary Bridge Design Memos	TG0300-201	BALFO900	TURNE361	10/21/11	11/08/11	11/14/11	11/14/11	6	Not Used
TZ1030-015313A21	1	Preconstruction Photos of Existing Conditions FREMONT ST	TG0300-264	BALFO900	TURNE361		6/18/12			0	Pending
TZ1030-015313A22	1	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/16/11	9/01/11	8/23/11		-9	Approved As Noted
TZ1030-015313A22	2	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/19/11	9/07/11	9/27/11	9/27/11	20	Approved As Noted
TZ1030-015313A22	3	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	12/16/11	1/05/12			0	Approved As Noted
TZ1030-015313A22	4	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted
TZ1030-015313A22	5	Shop Drawings ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12		3/15/12	0	Approved As Noted
TZ1030-015313A23	1	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/16/11	9/01/11	8/23/11		-9	Approved As Noted
TZ1030-015313A23	2	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	8/19/11	9/07/11	9/27/11	9/27/11	20	Approved As Noted
TZ1030-015313A23	3	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	12/16/11	1/05/12			0	Approved As Noted
TZ1030-015313A23	4	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted
TZ1030-015313A23	5	Structural Calculations ACCESS TRESTLE	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12		3/15/12	0	Approved As Noted
TZ1030-015313A24	1	Preconstruction Photos of Existing Conditions ACCESS TRESTLE	TG0300-290	BALFO900	TURNE361	1/11/12	1/27/12	1/30/12	1/31/12	3	No Exceptions Taken
TZ1030-015313A25	1	Access Trestle Design Criteria Document	TG0300-280	BALFO900	TURNE361		8/17/11	8/23/11		6	Not Used
TZ1030-015313A25	2	Access Trestle Design Criteria Document	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12	9/27/11	9/27/11	-119	Not Used
TZ1030-015313A26	1	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361		8/17/11	8/23/11		6	Approved As Noted
TZ1030-015313A26	2	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	12/30/11	1/17/12	9/27/11	9/27/11	-112	Approved As Noted
TZ1030-015313A26	3	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	12/30/11	1/17/12			0	Approved As Noted
TZ1030-015313A26	4	Access Trestle Peer Review Letter and Comment History	TG0300-280	BALFO900	TURNE361	1/06/12	1/24/12			0	Approved As Noted







Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 011311</b>											
WO0000-011311W17	1	2011-03-10 - CONSTRUCTION SCHEDULE SUBMITTAL TG04.1 (R1)	WO-SCH0002	30	TURNE361	4/04/11	4/20/11	4/26/11	4/26/11	6	Make Corrections Noted
WO0000-011311W18	1	2011-03-10 - CONSTRUCTION SCHEDULE SUBMITTAL TG04.3/TG04.4 (R1)	WO-SCH0002	30	TURNE361	4/04/11	4/20/11	4/26/11	4/26/11	6	Make Corrections Noted
WO0000-011311W19	1	COMPARISON REPORT	WO-SCH0002	01	TURNE361					0	Make Corrections Noted
WO0000-011311W19	2	COMPARISON REPORT	WO-SCH0002	01	TURNE361	4/28/11	5/16/11	5/25/11	5/31/11	9	Make Corrections Noted
WO0000-011311W19	3	COMPARISON REPORT	WO-SCH0002	01	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W19	4	COMPARISON REPORT	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W19	5	COMPARISON REPORT	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections Noted
WO0000-011311W20	1	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361					0	Make Corrections Noted
WO0000-011311W20	2	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361	4/28/11	5/16/11	5/25/11	5/31/11	9	Make Corrections Noted
WO0000-011311W20	3	CD DESIGN SCHEDULE ANALYSIS	WO-SCH0002	30	TURNE361	6/01/11	6/17/11	6/20/11	6/21/11	3	Make Corrections Noted
WO0000-011311W22	1	ISSUES LOG	WO-SCH0002	01	TURNE361					0	Make Corrections Noted
WO0000-011311W22	2	ISSUES LOG	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W22	3	ISSUES LOG	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections Noted
WO0000-011311W23	1	WEEKLY COMPARISON REPORTS (PREVIOUSLY ISSUED BY EMAIL)	WO-SCH0002	01	TURNE361					0	Make Corrections Noted
WO0000-011311W23	2	WEEKLY COMPARISON REPORTS (PREVIOUSLY ISSUED BY EMAIL)	WO-SCH0002	01	TURNE361	7/11/11	7/27/11	7/27/11		0	Make Corrections Noted
WO0000-011311W23	3	WEEKLY COMPARISON REPORTS (PREVIOUSLY ISSUED BY EMAIL)	WO-SCH0002	01	TURNE361	8/09/11	8/25/11	9/21/11		27	Make Corrections Noted
<b>Spec Section 011340</b>											
UA0000-011340B01	1	Executed Contract	TG0434-011	MSQUA902	TURNE361	1/20/11	1/20/11	1/31/11	1/31/11	11	For Record Only
UA0000-011340C01	1	Bass - TG05.2R Subcontract JV Authorization EXECUTED	TG0502-000	01	TURNE361	9/15/11	10/03/11			0	For Record Only
UA0000-011340C02	1	Trasworld Executed Subcontract	TG1901-000	01	TURNE361	9/15/11	10/03/11	9/16/11		-17	For Record Only
<b>Spec Section 011400</b>											
UA0000-011400A01	1	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10		-4	For Record Only
UA0000-011400A01	2	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	3/25/11	4/12/11	4/05/11		-7	For Record Only
UA0000-011400A01	3	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	4/18/11	5/04/11	4/28/11	5/02/11	-6	For Record Only
UA0000-011400A01	4	Trinet Quality Control Plan	TG0405-011	TRINE814	TURNE361	6/09/11	6/27/11	6/09/11	6/09/11	-18	For Record Only





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 011570 (continued)</b>											
UA0000-011570A03	1	Traffic Plans for Utility Work on 1st Street	TG0405-008	TRINE814	TURNE361	11/01/10	11/17/10	11/18/10	11/18/10	1	Make Corrections Noted
UA0000-011570A16	1	Trinet - Traffic Control Materials	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken
UA0000-011570A17	1	Trinet - Traffic Control For Potholing on Minna Street	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken
UA0000-011570A18	1	Trinet - Traffic Control for Street Light Relocation Work	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken
UA0000-011570A19	1	Trinet - Traffic Storage and Parking Plan	TG0405-002	TRINE814	TURNE361	10/26/10	11/09/10	11/18/10	11/18/10	9	No Exceptions Taken
UA0000-011570A26	1	Traffic Plans for Utility Work on Fremont St.	TG0405-012	TRINE814	TURNE361	11/10/10	11/26/10	11/18/10	11/18/10	-8	No Exceptions Taken
UA0000-011570A28	1	Traffic Plans for Shaw Alley	TG0405-033	TRINE814	TURNE361	11/23/10	12/09/10	11/29/10	11/29/10	-10	No Exceptions Taken
UA0000-011570A37	1	Trinet - Traffic Plans for Joint Trench on 2nd St	TG0405-035	TRINE814	TURNE361	1/03/11	1/19/11	12/28/10		-22	No Exceptions Taken
UA0000-011570A37	2	Trinet - Traffic Plans for Joint Trench on 2nd St	TG0405-035	TRINE814	TURNE361	1/06/11	1/10/11	1/13/11	1/13/11	3	No Exceptions Taken
UA0000-011570B02	1	Flagger Certificates	TG0434-019	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UA0000-011570B03	1	Traffic Control Plans	TG0434-019	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UA0000-011570B04	1	Sign Inventory Form	TG0434-021	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
UA0000-011570B05	1	Traffic Control Plan	TG0434-026	MSQUA902	TURNE361	1/04/11	1/20/11	1/07/11	1/07/11	-13	Approved As Noted
UA0000-011570B06	1	Traffic Control Plan	TG0434-027	MSQUA902	TURNE361	2/15/12	1/04/11	2/15/12	2/15/12	407	Closed
UA0000-011570D04	1	AWSS Sign Inventory Form	TG0402-019	MSQUA902	TURNE361	11/18/11	12/08/11	12/30/11	12/30/11	22	No Exceptions Taken
<b>Spec Section 017400</b>											
UA0000-017400B01	1	C&D Management Plan	TG0434-018	MSQUA902	TURNE361	1/17/11	2/02/11	1/26/11	1/26/11	-7	Not Reviewed
<b>Spec Section 018113</b>											
WO0000-018113W02	1	LEED Progress Report Q1	WO-LED0002	01	TURNE361	3/22/12	4/09/12			0	Submitted
<b>Spec Section 02 06 30</b>											
UA0000-020630A01	1	Pothole and Trench Logs	TG0405-024	TRINE814	TURNE361	1/21/11	2/08/11	2/09/11	2/09/11	1	Make Corrections Noted
UA0000-020630A02	1	Subsurface Investigation Shop Drawings	TG0405-028	TRINE814	TURNE361	1/21/11	2/08/11	1/27/11	1/27/11	-12	Make Corrections Noted
UA0000-020630A02	2	Subsurface Investigation Shop Drawings	TG0405-028	TRINE814	TURNE361	1/31/11	2/16/11	2/08/11	2/08/11	-8	Make Corrections Noted
UG1020-020630B02	1	Potholing and Trench Logs - Natoma	TG0404-010	MSQUA902	TURNE361		4/08/11			0	Pending
UG1020-020630C01	1	Potholing Plan	TG0401-008	MSQUA902	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	No Exceptions Taken
UG1020-020630C02	1	Potholing and Trench Logs	TG0401-009	MSQUA902	TURNE361		3/14/11			0	Open
UG1020-020630D01	1	Potholing Plan	TG0406-006	MSQUA902	TURNE361	4/07/11	4/25/11	4/28/11	4/28/11	3	Make Corrections Noted
UG3020-020630A02	1	Subsurface Investigation Pothole Excavation Field Logs		TRINE814	TURNE361		2/08/11			0	Void



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 02 41 00</b>											
UA0000-024100A01	1	Demolition & Sequencing Plans	TG0405-034	TRINE814	TURNE361	12/06/10	12/22/10	1/11/11	1/11/11	20	Make Corrections Noted
<b>Spec Section 02 41 19</b>											
TF2010-024119A01	1	Pile Removal - Trial Pile Extraction Plan	TG0300-300	BALFO900	TURNE361	2/14/11	3/03/11	2/25/11	2/25/11	-6	No Exceptions Taken
TF2010-024119A01	2	Pile Removal - Trial Pile Extraction Plan	TG0300-300	BALFO900	TURNE361	3/24/11	4/11/11	3/24/11	3/24/11	-18	No Exceptions Taken
TF2010-024119A02	1	Pile Removal - Design Report	TG0300-300	BALFO900	TURNE361	2/14/11	3/03/11	2/25/11	2/25/11	-6	Make Corrections Noted
TF2010-024119A02	2	Pile Removal - Design Report	TG0300-300	BALFO900	TURNE361	3/24/11	4/11/11	3/24/11	3/24/11	-18	Make Corrections Noted
TF2010-024119A03	1	Pile Removal - Production Pile Extraction Plan	TG0300-310	BALFO900	TURNE361	4/06/11	4/22/11	4/11/11	4/11/11	-11	Make Corrections Noted
TF2010-024119A04	1	Pile Removal - Documentation of Existing Timber Piles	TG0300-311	BALFO900	TURNE361	6/07/11	6/23/11	6/27/11	6/27/11	4	Make Corrections Noted
<b>Spec Section 02 72 30</b>											
UG3010-027230C01	1	Ductile Iron Pipe	TG0402-001	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	No Exceptions Taken
UG3010-027230C02	1	Push On & Mechanical Joint Gaskets	TG0402-002	MSQUA902	TURNE361	10/24/11	11/09/11	11/09/11	11/09/11	0	No Exceptions Taken
UG3010-027230C03	1	Precast Concrete Vaults	TG0402-003	MSQUA902	TURNE361	10/27/11	11/14/11			0	Submitted
UG3010-027230C04	1	Hydrant Paint	TG0402-004	MSQUA902	TURNE361		2/21/12			0	Pending
UG3010-027230C05	1	Warning Tape	TG0402-005	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	Make Corrections Noted
UG3010-027230C06	1	Pipe End Seal	TG0402-006	MSQUA902	TURNE361		2/21/12			0	Pending
UG3010-027230C07	1	Casing Insulators	TG0402-007	MSQUA902	TURNE361		2/21/12			0	Pending
UG3010-027230C08	1	Sample 8" pipe w/welded stops	TG0402-008	MSQUA902	TURNE361	2/13/12	2/29/12	3/08/12	3/08/12	8	Make Corrections Noted
UG3010-027230C09	1	Stainless steel tie rods, nuts & washers	TG0402-009	MSQUA902	TURNE361	10/24/11	11/09/11	10/27/11	10/27/11	-13	No Exceptions Taken
UG3010-027230C10	1	Wire benders	TG0402-010	MSQUA902	TURNE361		2/21/12			0	Pending
UG3010-027230C12	1	Pig Lead & Yarn	TG0402-012	MSQUA902	TURNE361	3/01/12	3/19/12	3/05/12	3/05/12	-14	No Exceptions Taken
UG3010-027230C13	1	Welder Certification	TG0402-013	MSQUA902	TURNE361	2/13/12	2/29/12	2/29/12	2/29/12	0	Make Corrections Noted
<b>Spec Section 020630</b>											
UG3020-020630A01	1	CDF Mix Design for Backfill of Investigation Trenches	TG0405-013	TRINE814	TURNE361	11/09/10	11/25/10	12/08/10	12/08/10	13	No Exceptions Taken
<b>Spec Section 024100</b>											
UG1020-024100B01	1	Utilities Demolition Plan	TG0434-008	MSQUA902	TURNE361	4/12/11	4/28/11	5/04/11	5/04/11	6	Revise and Resubmit
<b>Spec Section 02723</b>											
UG3010-002723B01	1	M Squared - AWSS Stainless Steel - Tie Rods, Nuts, and Washers	TG0404-008	MSQUA902	TURNE361	3/07/11	3/23/11	3/15/11	3/15/11	-8	Make Corrections Noted



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 02723 (continued)</b>											
UG3010-002723B02	1	M Squared - AWSS Certified Journeyman Plumber Qualifications	TG0404-009	MSQUA902	TURNE361	3/08/11	3/24/11	3/15/11	3/15/11	-9	Make Corrections Noted
UG3010-0272314	1	Pipe Links and Sleeves	TG0402-027	MSQUA902	TURNE361	12/21/11	1/10/12	12/27/11	12/27/11	-14	Make Corrections Noted
<b>Spec Section 027280</b>											
UG3010-027280B02	1	Batteries and Enclosures	TG0402-028	MSQUA902	TURNE361	1/25/12	2/10/12	1/27/12	1/27/12	-14	No Exceptions Taken
<b>Spec Section 03 20 01</b>											
TA1020-032001A01	1	Rebar - Instrumentation Protection Slab - Mill Test Reports	TG0300-330	BALFO900	TURNE361	9/13/11	9/29/11	9/20/11	9/20/11	-9	No Exceptions Taken
TA1020-032001A02	1	Rebar - Welder AWS Certifications	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	No Action
TA1020-032001A03	1	Rebar - Manufacturer's Certificate	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA1020-032001A04	1	Rebar - Product Data (For Couplers, etc)	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA1020-032001A04	2	Rebar - Product Data (For Couplers, etc)	TG0300-320	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	Make Corrections Noted
TA1020-032001A05	1	Rebar - Buttress Shop Drawings	TG0300-320	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA1020-032001A06	1	Rebar - Mud Slab Shop Drawings	TG0300-340	BALFO900	TURNE361		10/26/12			0	Pending
TA1020-032001A07	1	Rebar - Mill Test Reports C-1	TG0300-331	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	No Exceptions Taken
TA1020-032001A08	1	Rebar Mill Certs Buttress Shaft N1	TG0300-332	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	Submitted
TA1020-032001A09	1	Rebar Mill Certificates Buttress Shaft C15	TG0300-333	BALFO900	TURNE361	2/09/12	2/27/12	3/01/12	3/01/12	3	Submitted
TA1020-032001A10	1	Rebar Mill Certs Buttress Shaft M15	TG0300-334	BALFO900	TURNE361	2/09/12	2/27/12	2/29/12	3/01/12	2	No Exceptions Taken
TA1020-032001A11	1	Rebar Mill Certs Buttress Shaft M1	TG0300-335	BALFO900	TURNE361	2/10/12	2/29/12	3/01/12	3/01/12	1	No Exceptions Taken
TA1020-032001A12	1	Rebar Mill Certs D15	TG0300-336	BALFO900	TURNE361	3/16/12	4/03/12			0	For Record Only
<b>Spec Section 03 30 00</b>											
TZ1010-033000A01	1	Concrete - Submittal Schedule	TG0300-350	BALFO900	TURNE361		10/26/12			0	Pending
TZ1010-033000A02	1	Mud Slab Concrete - Mix Designs	TG0300-355	BALFO900	TURNE361		10/26/12			0	Pending
TZ1010-033000A03	1	Mud Slab Concrete - Product Data	TG0300-355	BALFO900	TURNE361		10/26/12			0	Pending
TZ1010-033000A04	1	Mud Slab Concrete - Joint Locations	TG0300-360	BALFO900	TURNE361		10/26/12			0	Pending
TZ1010-033000A05	1	Mud Slab Concrete - Asbestos & PCB Certification	TG0300-370	BALFO900	TURNE361		10/26/12			0	Pending
TZ1010-033000A06	1	Mud Slab Concrete - Hazardous Material Notification	TG0300-370	BALFO900	TURNE361		10/26/12			0	Pending
<b>Spec Section 03 30 01</b>											
TZ1010-033001A01	1	General Site Mix - Mix Designs, Material Certs, and Product Data	TG0300-380	BALFO900	TURNE361	3/17/11	4/04/11	3/25/11	3/25/11	-10	Make Corrections Noted





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 03 30 01 (continued)</b>											
TZ1010-033001A02	1	CLSM Mix - Mix Designs, Material Certs, and Product Data (F4E13878)	TG0300-381	BALFO900	TURNE361	3/28/11	4/13/11	3/30/11	3/30/11	-14	Make Corrections Noted
TZ1010-033001A04	1	Buttress Concrete - Proposed Trial Batch Test Program	TG0300-385	BALFO900	TURNE361	3/11/11	3/29/11	3/25/11	3/25/11	-4	Make Corrections Noted
TZ1010-033001A08	1	Buttress Concrete - LEED Submittal	TG0300-390	BALFO900	TURNE361	7/08/11	7/26/11	7/27/11	7/27/11	1	No Exceptions Taken
TZ1010-033001A09	1	Buttress Concrete - Closeout Submittal / Record Documents	TG0300-400	BALFO900	TURNE361	12/30/11	1/17/12			0	Rejected
TZ1010-033001A09	2	Buttress Concrete - Closeout Submittal / Record Documents	TG0300-400	BALFO900	TURNE361	1/03/12	1/19/12			0	Rejected
TZ1010-033001A10	1	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Revise and Resubmit
TZ1010-033001A10	2	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Revise and Resubmit
TZ1010-033001A10	3	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	2/15/12	3/02/12	2/22/12	2/22/12	-9	Revise and Resubmit
TZ1010-033001A10	4	Buttress Concrete - Type B Secondary Shaft Mix 960PC3Z3	TG0300-386	BALFO900	TURNE361	3/05/12	3/21/12	3/06/12	3/07/12	-15	Revise and Resubmit
TZ1010-033001A11	1	CLSM Mix F4E138N8 - Mix Designs, Material Certs, and Product Data	TG0300-382	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	No Exceptions Taken
TZ1010-033001A12	1	CLSM Mix F4E138P8 - Mix Designs, Material Certs, and Product Data	TG0300-382	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Make Corrections Noted
TZ1010-033001A13	1	Buttress Shoring Work Pad Concrete Mix Design - Cemex Mix#1518445	TG0300-383	BALFO900	TURNE361	5/23/11	6/09/11	6/06/11	6/06/11	-3	For Record Only
TZ1010-033001A14	1	CLSM - Buttress Shoring Work Pad - Cemex Mix #1518444	TG0300-383	BALFO900	TURNE361	5/23/11	6/09/11	6/06/11	6/06/11	-3	For Record Only
TZ1010-033001A15	1	Primary Shaft Buttress Mix Design - Mix #85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Make Corrections Noted
TZ1010-033001A15	2	Primary Shaft Buttress Mix Design - Mix #85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Make Corrections Noted
TZ1010-033001A15	3	Primary Shaft Buttress Mix Design - Mix #85AEC3B6 & Logger Temperature Data	TG0300-387	BALFO900	TURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Make Corrections Noted
TZ1010-033001A16	1	Primary Shaft Buttress Mix Design - Mix #86AEC3A6	TG0300-387	BALFO900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Make Corrections Noted
TZ1010-033001A16	2	Primary Shaft Buttress Mix Design - Mix #86AEC3A6	TG0300-387	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Make Corrections Noted
TZ1010-033001A17	1	Primary Shaft Buttress Mix Design - Mix #87AEC3A6	TG0300-387	BALFO900	TURNE361	7/08/11	7/26/11	7/21/11	8/02/11	-5	Make Corrections Noted
TZ1010-033001A17	2	Primary Shaft Buttress Mix Design - Mix #87AEC3A6	TG0300-387	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/24/11	-3	Make Corrections Noted
TZ1010-033001A18	1	Buttress Shoring Work Pad Concrete - LEED Submittal	TG0300-384	BALFO900	TURNE361		8/19/11			0	Void
TZ1010-033001A19	1	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3P6	TG0300-388	BALFO900	TURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	Make Corrections Noted
TZ1010-033001A19	2	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3P6	TG0300-388	BALFO900	TURNE361	10/04/11	10/20/11	10/06/11	10/11/11	-14	Make Corrections Noted



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 03 30 01 (continued)</b>											
TZ1010-033001A20	1	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3N6	TG0300-388	BALFO900	TURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	Make Corrections Noted
TZ1010-033001A20	2	Buttress Type 'A' Primary Shaft Mix Design - Mix #8FAEC3N6	TG0300-388	BALFO900	TURNE361	11/28/11	12/14/11	12/21/11	12/21/11	7	Make Corrections Noted
TZ1010-033001A21	1	Buttress Type 'A' Primary Shaft Mix Design - Mix #8DGEC3P6	TG0300-388	BALFO900	TURNE361	8/30/11	9/16/11	9/13/11	9/13/11	-3	No Exceptions Taken
TZ1010-033001A22	1	Concrete - Sechelt Coarse Aggregate	TG0300-389	BALFO900	TURNE361	10/04/11	10/20/11	10/10/11		-10	No Exceptions Taken
TZ1010-033001A22	2	Concrete - Sechelt Coarse Aggregate	TG0300-389	BALFO900	TURNE361	10/10/11	10/26/11	10/14/11	10/14/11	-12	No Exceptions Taken
TZ1010-033001A23	1	Type "A" Primary Buttress Shaft Concrete Additional Mix Designs II	TG0300-391	BALFO900	TURNE361	1/11/12	1/27/12	2/03/12	2/06/12	7	Rejected
<b>Spec Section 03 40 10</b>											
UG3020-034010B08	1	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	2/10/11	3/01/11	2/16/11	2/16/11	-13	Rejected
UG3020-034010B08	2	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	2/25/11	3/15/11	3/09/11	3/09/11	-6	Rejected
UG3020-034010B08	3	Precast Catch Basin	TG0404-005	MSQUA902	TURNE361	3/25/11	4/12/11	3/30/11	3/30/11	-13	Rejected
UG3020-034010B09	1	Precast Supplier Conform Letter (ASTM C150)	TG0404-005	MSQUA902	TURNE361	2/10/11	3/01/11	2/16/11	2/16/11	-13	No Exceptions Taken
UG3020-034010B09	2	Precast Supplier Conform Letter (ASTM C150)	TG0404-005	MSQUA902	TURNE361	2/25/11	3/15/11	3/09/11	3/09/11	-6	No Exceptions Taken
<b>Spec Section 031100</b>											
UG3020-031100B01	1	Shop Drawings -Cast-in place Manhole	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B02	1	Rebar & Tie Wire	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B03	1	Form Ties	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
UG3020-031100B04	1	Formwork Material	TG0404-003	MSQUA902	TURNE361	1/17/11	2/02/11	1/28/11	1/28/11	-5	No Exceptions Taken
<b>Spec Section 033010</b>											
UG2010-033010B01	1	Cement-Certifications	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B02	1	Aggregates-proof of compatibility w/cement	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B03	1	Admixtures-Cert of Conformance	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B04	1	Concrete Mix - Manhole Base	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B05	1	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	4/18/11	5/04/11	4/28/11	8/19/11	-6	No Exceptions Taken
UG2010-033010B05	2	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	8/19/11	9/07/11	8/25/11	8/25/11	-13	No Exceptions Taken
UG2010-033010B05	3	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	9/13/11	9/29/11	10/05/11	10/05/11	6	No Exceptions Taken
UG2010-033010B05	4	Concrete Mix - Street Base	TG0434-025	MSQUA902	TURNE361	10/11/11	10/27/11	10/24/11	10/24/11	-3	No Exceptions Taken
UG2010-033010B06	1	Concrete Mix - Thrust Blocks	TG0434-025	MSQUA902	TURNE361	12/20/10	1/10/11	12/30/10	8/19/11	-11	No Exceptions Taken
UG2010-033010B07	1	Curb and Gutter Mix	TG0434-025	MSQUA902	TURNE361	5/19/11	6/07/11	5/26/11	8/19/11	-12	No Exceptions Taken
UG2010-033010B08	1	Sidewalk Mix	TG0434-025	MSQUA902	TURNE361	5/19/11	6/07/11	5/26/11	8/19/11	-12	No Exceptions Taken





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 033010 (continued)</b>											
UG3020-033010A01	1	Concrete Mix Design for CIP Manhole Foundations & Structures	TG0405-004	TRINE814	TURNE361	10/27/10	11/12/10	11/18/10	11/18/10	6	No Exceptions Taken
UG4020-033010A02	1	Rebar Shop Drawing for Light Pole Foundations	TG0405-007	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-033010A03	1	Concrete Mix Design for Light Pole Foundations	TG0405-007	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
<b>Spec Section 034010</b>											
UG3020-034010B01	1	Precast Manhole	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B03	1	Manhole Frame and Cover	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B04	1	Precast Catch Basin	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3020-034010B05	1	Catch Basin Frame & Grate	TG0404-004	MSQUA902	TURNE361	1/18/11	2/16/11	1/26/11	1/26/11	-21	Make Corrections Noted
UG3020-034010B06	1	Supplier Conform Letter (ASTM C150)	TG0404-004	MSQUA902	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
<b>Spec Section 05 12 01</b>											
TA2010-051201A01	1	Structural Steel - Shop Drawings	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A02	1	Structural Steel - Erection Drawings	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	No Exceptions Taken
TA2010-051201A02	2	Structural Steel - Erection Drawings	TG0300-410	BALFO900	TURNE361	4/05/11	4/21/11	4/19/11	4/19/11	-2	No Exceptions Taken
TA2010-051201A03	1	Structural Steel - Contractor Certificate of Compliance for Materials	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	No Exceptions Taken
TA2010-051201A04	1	Structural Steel - Manufacturer's Test Reports and Certifications	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	Make Corrections Noted
TA2010-051201A05	1	Structural Steel - Weld Procedures	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A06	1	Structural Steel - Fabricators identification mark system	TG0300-410	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	Make Corrections Noted
TA2010-051201A07	1	Structural Steel - LEED Submittal	TG0300-412	BALFO900	TURNE361	4/29/11	5/17/11	5/11/11	5/11/11	-6	No Exceptions Taken
TA2010-051201A07	2	Structural Steel - LEED Submittal	TG0300-412	BALFO900	TURNE361	5/31/11	6/16/11	6/16/11	6/16/11	0	No Exceptions Taken
TA2010-051201A08	1	Structural Steel - Contractors QA Plan	TG0300-413	BALFO900	TURNE361	5/04/11	5/20/11	5/23/11	5/23/11	3	No Exceptions Taken
TA2010-051201A08	2	Structural Steel - Contractors QA Plan	TG0300-413	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken
TA2010-051201A09	1	Structural Steel - Qualifications of QA Inspectors	TG0300-413	BALFO900	TURNE361	5/04/11	5/20/11	5/23/11	5/23/11	3	For Record Only
TA2010-051201A10	1	Structural Steel - Qualifications of Welders	TG0300-411	BALFO900	TURNE361	4/25/11	5/11/11	5/12/11	5/12/11	1	For Record Only
TA2010-051201A11	1	Structural Steel - Add'l Qualifications of Welders	TG0300-411	BALFO900	TURNE361	4/28/11	5/16/11	5/12/11	5/12/11	-4	For Record Only
TA2010-051201A12	1	Structural Steel - Weld Procedures for Inclinator Attachment Inside CDSM Shoring Wall	TG0300-414	BALFO900	TURNE361	5/13/11	6/01/11	5/25/11	5/25/11	-7	Make Corrections Noted
TA2010-051201A13	1	Structural Steel - Welding Wire Procedure for CDSM Beam Splicing	TG0300-415	BALFO900	TURNE361	5/13/11	6/01/11	5/23/11	5/23/11	-9	Make Corrections Noted
TA2010-051201A14	1	Structural Steel - Contractor Certificate of Compliance for Materials 2	TG0300-801	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 05 12 01 (continued)</b>											
TA2010-051201A15	1	Structural Steel - Manufacturer's Test Reports and Certifications 2	TG0300-801	BALFO900	TURNE361	6/07/11	6/23/11	6/21/11	6/21/11	-2	No Exceptions Taken
TA2010-051201A16	1	Structural Steel - Additional Weld Procedure for CDSM Beam Splicing & Product Data - 30degree Welding	TG0300-416	BALFO900	TURNE361	6/30/11	7/19/11	7/13/11	7/13/11	-6	No Exceptions Taken
TA2010-051201A16	2	Structural Steel - Additional Weld Procedure for CDSM Beam Splicing & Product Data - 30degree Welding	TG0300-416	BALFO900	TURNE361	7/13/11	7/29/11	7/18/11	7/18/11	-11	No Exceptions Taken
TA2010-051201A17	1	Structural Steel - Contractor Certificate of Compliance for Materials 3	TG0300-802	BALFO900	TURNE361	7/20/11	8/05/11	8/03/11	8/03/11	-2	No Exceptions Taken
TA2010-051201A17	2	Structural Steel - Contractor Certificate of Compliance for Materials 3	TG0300-802	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA2010-051201A18	1	Structural Steel - Manufacturer's Test Reports and Certifications 3	TG0300-802	BALFO900	TURNE361	7/20/11	8/05/11	8/03/11	8/03/11	-2	No Exceptions Taken
TA2010-051201A18	2	Structural Steel - Manufacturer's Test Reports and Certifications 3	TG0300-802	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
<b>Spec Section 11 57 00</b>											
UG3010-011570B01	1	Traffic Control Plans	TG0402-014	MSQUA902	TURNE361	9/08/11	9/26/11	10/05/11	10/05/11	9	No Exceptions Taken
UG3010-011570B01	2	Traffic Control Plans	TG0402-014	MSQUA902	TURNE361	1/25/12	2/10/12	2/15/12	2/15/12	5	No Exceptions Taken
<b>Spec Section 11050</b>											
UA0000-011050B01	1	Survey & Control Points	TG0434-023	MSQUA902	TURNE361	3/08/11	3/24/11	3/15/11	3/15/11	-9	No Exceptions Taken
<b>Spec Section 11310</b>											
UA0000-011310C01	1	Construction Schedule Submittal (PDF)	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C01	2	Construction Schedule Submittal (PDF)	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
UA0000-011310C02	1	Construction Schedule Submittal Narrative	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C02	2	Construction Schedule Submittal Narrative	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
UA0000-011310C03	1	Construction Schedule Submittal (XER)	TG0401-002	MSQUA902	TURNE361	2/14/11	3/03/11	3/09/11	3/09/11	6	No Exceptions Taken
UA0000-011310C03	2	Construction Schedule Submittal (XER)	TG0401-002	MSQUA902	TURNE361	3/10/11	3/28/11	3/30/11	3/30/11	2	No Exceptions Taken
<b>Spec Section 11340</b>											
UA0000-011340B02	1	TG04.1 Executed Contract	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
<b>Spec Section 16 01 00</b>											
UG3010-160100C01	1	Electrical Materials	TG0402-015	MSQUA902	TURNE361	11/01/11	11/17/11	11/18/11	11/18/11	1	No Exceptions Taken
UG3010-160100C01	2	Electrical Materials	TG0402-015	MSQUA902	TURNE361	3/14/12	3/30/12	3/27/12	3/27/12	-3	No Exceptions Taken
<b>Spec Section 16010</b>											
UG3010-016010B02	1	AWSS Antenna	TG0402-026	MSQUA902	TURNE361	11/18/11	12/08/11	12/20/11	12/22/11	12	No Exceptions Taken
<b>Spec Section 20630</b>											



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 20630 (continued)</b>											
UG1020-020630B01	1	Potholing Plan	TG0434-024	MSQUA902	TURNE361	12/20/10	1/21/11	12/30/10	1/03/11	-22	No Exceptions Taken
<b>Spec Section 31 00 00</b>											
TA2010-310000A01	1	Mass Excavation - Competent Person(s)	TG0300-420	BALFO900	TURNE361	11/09/11	11/29/11	11/22/11	11/22/11	-7	For Record Only
TA2010-310000A02	1	Mass Excavation - Quality Plan	TG0300-420	BALFO900	TURNE361	11/09/11	11/29/11	11/22/11	11/22/11	-7	No Exceptions Taken
TA2010-310000A03	1	Mass Excavation - Material Samples	TG0300-430	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	No Exceptions Taken
TA2010-310000A04	1	Mass Excavation - Material Backfill	TG0300-440	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	Make Corrections Noted
TA2010-310000A05	1	Mass Excavation LEED Submittal	TG0300-450	BALFO900	TURNE361	11/09/11	11/29/11	11/23/11	11/28/11	-6	Make Corrections Noted
TA2010-310000A06	1	Mass Excavation Work Plan	TG0300-460	BALFO900	TURNE361	12/27/11	1/12/12	12/08/11	12/09/11	-35	For Record Only
TA2010-310000A06	2	Mass Excavation Work Plan	TG0300-460	BALFO900	TURNE361	12/27/11	1/12/12	1/10/12	1/10/12	-2	For Record Only
TA2010-310000A08	1	Earthwork Closeout	TG0300-480	BALFO900	TURNE361		11/06/13			0	Pending
<b>Spec Section 31 09 13</b>											
TA2010-310913A01	1	Geotechnical Instrumentation and Monitoring	TG0300-490	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	No Exceptions Taken
<b>Spec Section 31 23 10</b>											
UA3020-312310A02	1	Underground Detectable Warning Tape for JT Utilities	TG0405-038	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-312310A03	1	Gradation Analysis of Sand Bedding for AT&T Ducts & Gas Pipe	TG0405-038	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-312310A04	1	Import Backfill Material - Sieve Analysis	TG0405-043	TRINE814	TURNE361	1/18/11	2/03/11	1/28/11	1/28/11	-6	Make Corrections Noted
UA3020-312310A04	2	Import Backfill Material - Sieve Analysis	TG0405-043	TRINE814	TURNE361	2/02/11	2/18/11	2/11/11	2/11/11	-7	Make Corrections Noted
UA3020-312310A05	1	Import Backfill Material - Sample	TG0405-043	TRINE814	TURNE361	2/02/11	2/18/11	2/11/11	2/11/11	-7	Make Corrections Noted
<b>Spec Section 31 23 13</b>											
TZ1030-312313A01	1	Construction of Work Platform for Equipment	TG0300-500	BALFO900	TURNE361	4/20/11	5/06/11	5/05/11	5/09/11	-1	Make Corrections Noted
TZ1030-312313A02	1	Subgrade Preparation LEED Submittal	TG0300-510	BALFO900	TURNE361	7/13/11	7/29/11	7/22/11	7/26/11	-7	Revise and Resubmit
TZ1030-312313A02	2	Subgrade Preparation LEED Submittal	TG0300-510	BALFO900	TURNE361	3/05/12	3/21/12	3/09/12	3/09/12	-12	Revise and Resubmit
<b>Spec Section 31 23 19</b>											
TA2010-312319A01	1	Dewatering - Layout Drawings and Design Report	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA2010-312319A02	1	Dewatering - Product Data	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	Make Corrections Noted
TA2010-312319A03	1	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361	4/25/11	5/11/11	5/10/11	5/10/11	-1	For Record Only
TA2010-312319A03	2	Dewatering - Design Data	TG0300-520	BALFO900	TURNE361	1/20/12	2/07/12	2/06/12	2/06/12	-1	For Record Only





# Submittal Log

## Project 30100 - Transbay Transit Center Project

Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 31 55 00 (continued)</b>											
TA2010-315500A08	3	Internal Bracing - QC/Construction Plan	TG0300-543	BALFO900	TURNE361		10/18/11		2/23/12	0	Submitted
TA2010-315500A09	1	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361	11/17/11	12/07/11	12/16/11	12/16/11	9	Submitted
TA2010-315500A09	2	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361	2/23/12	3/12/12	2/10/12	2/10/12	-31	Submitted
TA2010-315500A09	3	Internal Bracing - Inspection Plan	TG0300-543	BALFO900	TURNE361		10/18/11		2/23/12	0	Submitted
TA2010-315500A10	1	Internal Bracing - 50% Design Drawings & Calculations	TG0300-541	BALFO900	TURNE361	3/08/11	3/24/11	3/29/11	3/29/11	5	For Record Only
TA2010-315500A11	1	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	Make Corrections Noted
TA2010-315500A11	2	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	Make Corrections Noted
TA2010-315500A11	3	Internal Bracing - Construction Dwgs & Specs	TG0300-542	BALFO900	TURNE361	10/17/11	6/01/11	10/17/11	10/19/11	138	Make Corrections Noted
TA2010-315500A12	1	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	For Record Only
TA2010-315500A12	2	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	For Record Only
TA2010-315500A12	3	Internal Bracing - Engineering Calcs	TG0300-542	BALFO900	TURNE361	10/17/11	6/01/11	10/17/11	10/19/11	138	For Record Only
TA2010-315500A13	1	Internal Bracing - Basis of Design Summary	TG0300-542	BALFO900	TURNE361	5/04/11	5/20/11	6/02/11	6/02/11	13	Make Corrections Noted
TA2010-315500A14	1	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	11/17/11	12/07/11	1/06/12	1/09/12	30	Submitted
TA2010-315500A14	2	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	2/16/12	3/05/12	2/14/12	2/16/12	-20	Submitted
TA2010-315500A14	3	Internal Bracing - Weld Procedures (Shop Welding)	TG0300-548	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TA2010-315500A15	1	Internal Bracing - Weld Procedures - Additional	TG0300-549	BALFO900	TURNE361	12/05/11	12/21/11	12/30/11		9	No Exceptions Taken
TA2010-315500A15	2	Internal Bracing - Weld Procedures - Additional	TG0300-549	BALFO900	TURNE361	12/30/11	1/17/12	1/06/12	1/06/12	-11	No Exceptions Taken
TZ1030-315500A14	1	Internal Bracing - Responses to URS Comments	TG0300-542	BALFO900	TURNE361	7/11/11	7/27/11	8/03/11	8/04/11	7	For Record Only
TZ1030-315500A14	2	Internal Bracing - Responses to URS Comments	TG0300-542	BALFO900	TURNE361	10/17/11	7/27/11	10/17/11	10/19/11	82	For Record Only
TZ1030-315500A15	1	Internal Bracing - Re-bracing	TG0300-550	BALFO900	TURNE361		4/02/13			0	Pending
<b>Spec Section 31 56 13</b>											
TA2010-315613A01	1	Shoring Wall - Equipment Specifications and Calibration Data	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A02	1	Shoring Wall - Work Plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A02	2	Shoring Wall - Work Plan	TG0300-580	BALFO900	TURNE361	4/18/11	5/04/11	5/03/11	5/03/11	-1	Make Corrections Noted
TA2010-315613A03	1	Shoring Wall - Cement Grout Mix Designs	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A03	2	Shoring Wall - Cement Grout Mix Designs	TG0300-580	BALFO900	TURNE361	6/13/11	6/29/11	6/29/11	6/29/11	0	Make Corrections Noted
TA2010-315613A04	1	Shoring Wall - Waterproofing plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	No Exceptions Taken

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





# Submittal Log

## Project 30100 - Transbay Transit Center Project

Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 31 56 13 (continued)</b>											
TA2010-315613A04	2	Shoring Wall - Waterproofing plan	TG0300-580	BALFO900	TURNE361	4/18/11	5/04/11	5/03/11	5/03/11	-1	No Exceptions Taken
TA2010-315613A05	1	Shoring Wall - LEED Submittal	TG0300-581	BALFO900	TURNE361	7/13/11	7/29/11	7/22/11	7/26/11	-7	No Exceptions Taken
TA2010-315613A05	2	Shoring Wall - LEED Submittal	TG0300-581	BALFO900	TURNE361	8/10/11	8/26/11	8/24/11	8/25/11	-2	No Exceptions Taken
TA2010-315613A07	1	Shoring Wall - Quality Assurance Plan	TG0300-580	BALFO900	TURNE361	3/09/11	3/25/11	3/25/11	3/25/11	0	Make Corrections Noted
TA2010-315613A08	1	Shoring Wall - CDSM Test Section No. 2 (Zone 1)	TG0300-582	30	TURNE361	8/24/11	9/12/11	8/31/11	9/01/11	-12	No Exceptions Taken
TA2010-315613A11	1	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered	TG0300-590	BALFO900	TURNE361	12/21/11	1/10/12	1/06/12	1/09/12	-4	Submitted
TA2010-315613A11	2	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered	TG0300-590	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TA2010-315613A12	1	Corrective Action Plan For Wide Flange Packing of Solider Plie No. 859	TG0300-584	BALFO900	TURNE361	1/24/12	2/09/12	2/14/12	2/14/12	5	Make Corrections Noted
TA2010-315613A14	1	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered CAD Files	TG0300-590	BALFO900	TURNE361	12/21/11	1/10/12	1/06/12	1/09/12	-4	Submitted
TA2010-315613A14	2	Shoring Wall - Record Documents - As Built Drawings and Unusual Conditions Encountered CAD Files	TG0300-590	BALFO900	TURNE361	3/02/12	3/20/12			0	Submitted
TZ2010-315613A12	1	Re-splicing of Welding Procedures for CDSM Solider Piles	TG0300-585	BALFO900	TURNE361	1/19/12	2/06/12	2/14/12	2/14/12	8	No Exceptions Taken
<b>Spec Section 31 63 29</b>											
TA1020-316329A01	1	Drilled Shafts - Previous Projects List	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A02	1	Drilled Shafts - Statement of Awareness of Site Conditions	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A03	1	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Exceptions Taken
TA1020-316329A03	2	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	6/08/11	6/24/11	6/23/11	6/23/11	-1	No Exceptions Taken
TA1020-316329A03	3	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A03	4	Drilled Shafts - Installation Plan	TG0300-600	BALFO900	TURNE361	8/25/11	9/13/11	9/08/11	9/12/11	-5	No Exceptions Taken
TA1020-316329A04	1	Drilled Shafts - Weld Procedures	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	For Record Only
TA1020-316329A05	1	Drilled Shafts LEED Submittal	TG0300-600	BALFO900	TURNE361	4/28/11	5/16/11	5/25/11	5/25/11	9	No Action
TA1020-316329A06	1	Drilled Shafts Closeout - Records and As-Builts	TG0300-610	BALFO900	TURNE361	4/28/11	5/16/11	5/19/11	5/19/11	3	No Exceptions Taken
TA1020-316329A07	1	Drilled Shafts - Sonic Caliper Testing	TG0300-601	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A07	2	Drilled Shafts - Sonic Caliper Testing	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA1020-316329A08	1	Drilled Shafts - Drilling Polymers (Alternate to Dry Flocculant)	TG0300-601	BALFO900	TURNE361	7/27/11	8/12/11	7/28/11	7/29/11	-15	No Exceptions Taken
TA1020-316329A08	2	Drilled Shafts - Drilling Polymers (Alternate to Dry Flocculant)	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken
TA1020-316329A09	1	Drilled Shafts - CSL and BHDL Testing	TG0300-601	BALFO900	TURNE361	8/10/11	8/26/11	8/23/11	8/23/11	-3	No Exceptions Taken





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 32 12 17 (continued)</b>											
TA2010-321217A01	1	Backfill Materials	TG0300-650	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A01	2	Backfill Materials	TG0300-650	BALFO900	TURN361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A02	1	Demolition and Removal Plan (Including any Temporary Shoring)	TG0300-650	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A02	2	Demolition and Removal Plan (Including any Temporary Shoring)	TG0300-650	BALFO900	TURN361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A03	1	Temporary Shoring and Bracing Calculations	TG0300-650	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A03	2	Temporary Shoring and Bracing Calculations	TG0300-650	BALFO900	TURN361	5/09/11	5/25/11	6/02/11	6/02/11	8	Make Corrections Noted
TA2010-321217A05	1	Backfill Materials - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A05	2	Backfill Materials - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	5/17/11	6/03/11	6/09/11	6/09/11	6	Make Corrections Noted
TA2010-321217A06	1	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Not Used
TA2010-321217A06	2	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	5/17/11	6/03/11	6/09/11	6/09/11	6	Not Used
TA2010-321217A06	3	Demolition and Removal Plan (Including any Temporary Shoring) - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	6/30/11	7/19/11	7/22/11	7/26/11	3	Not Used
TA2010-321217A07	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	4/05/11	4/21/11	4/28/11	4/28/11	7	Make Corrections Noted
TA2010-321217A07	2	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3	TG0300-651	BALFO900	TURN361	5/17/11	6/03/11	6/09/11	6/09/11	6	Make Corrections Noted
TA2010-321217A08	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3 [For Record Only - Alternate Shoring Plan for Zone 3 Natoma St.]	TG0300-652	BALFO900	TURN361	7/18/11	8/03/11	8/16/11	8/16/11	13	Make Corrections Noted
TA2010-321217A09	1	Temporary Shoring and Bracing Calculations - Zone 1, 2, 3 [For Record Only - Slide Rail Locations]	TG0300-652	BALFO900	TURN361	7/18/11	8/03/11	8/16/11	8/16/11	13	No Exceptions Taken
<b>Spec Section 32 17 24</b>											
UG3020-321724A01	1	Pavement Markings	TG0405-016	TRINE814	TURN361	1/31/11	2/16/11	2/09/11	2/09/11	-7	No Exceptions Taken
<b>Spec Section 321217</b>											
UG2010-321217A01	1	Trinet - Mix Design for Street Base Concrete	TG0405-010	TRINE814	TURN361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A01	2	Trinet - Mix Design for Street Base Concrete	TG0405-010	TRINE814	TURN361	5/02/11	5/18/11	5/17/11	5/17/11	-1	No Exceptions Taken
UG2010-321217A02	1	Trinet - Mix Design for Concrete Sidewalk	TG0405-010	TRINE814	TURN361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A03	1	Mix Design for Concrete Curb & Gutter and Pavement	TG0405-010	TRINE814	TURN361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A04	1	Trinet - Mix Design for Concrete Curb Ramps	TG0405-010	TRINE814	TURN361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217A05	1	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURN361	11/04/10	11/22/10	11/18/10	11/18/10	-4	Make Corrections Noted

**COMPANY CONFIDENTIAL - Not to be copied, forwarded or distributed to unauthorized personnel.**

CMiC Job Custom Reports, 30100, PM\_0098 (PROD) Printed Tue 3/27/2012 at 11:37 am by Joanne Filipas





Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 321217 (continued)</b>											
UG2010-321217A05	2	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURNE361	6/16/11	7/05/11	7/05/11	7/05/11	0	Make Corrections Noted
UG2010-321217A05	3	Trinet - Mix Design for Asphalt Concrete Wearing Surface	TG0405-010	TRINE814	TURNE361	6/28/11	7/15/11	8/31/11	8/31/11	47	Make Corrections Noted
UG2010-321217A06	1	Trinet - Material Data Sheet for Ashpalt Emulsion Paint Binder	TG0405-010	TRINE814	TURNE361	11/04/10	11/22/10	11/18/10	11/18/10	-4	No Exceptions Taken
UG2010-321217B01	1	Asphalt Mix Design	TG0434-010	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	No Exceptions Taken
<b>Spec Section 33 11 00</b>											
UG3010-331100A01	1	Valves, fitting drawings	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A01	2	Valves, fitting drawings	TG0405-017	TRINE814	TURNE361	2/24/11	3/14/11	3/09/11	3/09/11	-5	No Exceptions Taken
UG3010-331100A02	1	Joint drawings	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A03	1	Installation instructions	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A04	1	Pipe products	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A05	1	Polyethylene product data	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
UG3010-331100A06	1	Installation instructions	TG0405-017	TRINE814	TURNE361	11/16/10	12/02/10	12/03/10	12/06/10	1	No Exceptions Taken
<b>Spec Section 33 31 10</b>											
UG3020-333110A15	1	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	8/30/11	9/16/11	9/07/11	9/07/11	-9	No Exceptions Taken
UG3020-333110A15	2	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	11/28/11	12/14/11	12/19/11	12/22/11	5	No Exceptions Taken
UG3020-333110A15	3	Post Construction TV Inspection	TG0405-023	TRINE814	TURNE361	2/03/12	2/21/12	2/23/12	2/23/12	2	No Exceptions Taken
UG3020-333110A22	1	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	1/27/11	2/14/11	2/01/11	2/01/11	-13	No Exceptions Taken
UG3020-333110A22	2	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	4/05/11	4/21/11	4/22/11	4/25/11	1	No Exceptions Taken
UG3020-333110A22	3	Alt Drain Rock Analysis for VCP Pipe Bedding	TG0405-045	TRINE814	TURNE361	5/07/11	5/24/11	2/01/11	6/03/11	-112	No Exceptions Taken
UG3020-333110B08	1	M Squared - TV Inspection Sewer Natoma W - Existing Video	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B09	1	M Squared - TV Inspection Sewer Natoma W - Existing Log	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B10	1	M Squared - TV Inspection Sewer Natoma W - Post Construction Video	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B11	1	M Squared - TV Inspection Sewer Natoma W - Post Construction Log & Sketch	TG0404-006	MSQUA902	TURNE361		5/25/11			0	Open
UG3020-333110B12	1	M Squared - TV Inspection Sewer Natoma E - Existing Video	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B13	1	M Squared - TV Inspection Sewer Natoma E - Existing Log	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B14	1	M Squared - TV Inspection Sewer Natoma E - Post Construction Video	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open
UG3020-333110B15	1	M Squared - TV Inspection Sewer Natoma E - Post Construction Log & Sketch	TG0404-007	MSQUA902	TURNE361		6/23/11			0	Open



Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

# Submittal Log

## Project 30100 - Transbay Transit Center Project

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 33 31 10 (continued)</b>											
UG3030-333110A01	1	TV Inspection Report	TG0405-023	TRINE814	TURNE361	3/25/11	4/12/11	5/03/11	5/05/11	21	No Exceptions Taken
UG3030-333110A01	2	TV Inspection Report	TG0405-023	TRINE814	TURNE361	11/28/11	12/14/11	12/19/11	12/22/11	5	No Exceptions Taken
UG3030-333110A01	3	TV Inspection Report	TG0405-023	TRINE814	TURNE361	2/03/12	2/21/12	2/23/12	2/23/12	2	No Exceptions Taken
<b>Spec Section 33 34 00</b>											
UG3020-333400B02	1	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	6/10/11	6/28/11	6/28/11	6/28/11	0	Make Corrections Noted
UG3020-333400B02	2	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	4/13/11	7/01/11	7/01/11	7/01/11	0	Make Corrections Noted
UG3020-333400B02	3	Joint Layout Plan	TG0406-010	MSQUA902	TURNE361	4/13/11	7/21/11	7/21/11	7/21/11	0	Make Corrections Noted
UG3020-333400D01	1	Steel Pipe Material	TG0406-008	MSQUA902	TURNE361	3/30/11	4/15/11	4/22/11	4/22/11	7	Make Corrections Noted
UG3020-333400D01	2	Steel Pipe Material	TG0406-008	MSQUA902	TURNE361	4/28/11	5/16/11	5/13/11	5/13/11	-3	Make Corrections Noted
UG3020-333400D03	1	Pipe Factory Test Results	TG0406-009		TURNE361	5/24/11	6/10/11			0	Pending
<b>Spec Section 33 51 00</b>											
UA3020-335100A01	1	Gas Pipe & Fittings	TG0405-037	TRINE814	TURNE361	1/03/11	1/19/11	1/17/11	1/17/11	-2	Make Corrections Noted
UA3020-335100A02	1	Tracer Wire for Gas Piping in JT	TG0405-037	TRINE814	TURNE361	1/03/11	1/19/11	1/17/11	1/17/11	-2	No Exceptions Taken
<b>Spec Section 33 71 00</b>											
UA3020-337100A08	1	Electrical (PG&E) Conduit, Fittings & Accessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A08	2	Electrical (PG&E) Conduit, Fittings & Accessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/24/11	2/09/11	1/27/11	1/27/11	-13	No Exceptions Taken
UA3020-337100A09	1	Telecommunications (AT&T) Conduit, Fittings & Accessories for Joint Trench	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A10	1	EMS Location Devices for JT Utilities	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A11	1	Mix Design for Concrete Encasement of PG&E Ducts	TG0405-036	TRINE814	TURNE361	1/03/11	1/19/11	1/18/11	1/18/11	-1	No Exceptions Taken
UA3020-337100A12	1	Underground Conduit Identification for JT Utilities	TG0405-042	TRINE814	TURNE361	1/18/11	2/03/11	1/26/11	1/26/11	-8	No Exceptions Taken
UG3060-337100A01	1	PG&E Qualification Certificates for Plastic Gas Pipe Connections	TG0405-046	TRINE814	TURNE361	2/11/11	3/02/11	2/22/11	2/22/11	-8	For Record Only
UG4010-337100A06	1	Precast vault shop dwgs	TG0405-018	TRINE814	TURNE361	1/06/11	1/24/11	1/21/11	1/21/11	-3	Make Corrections Noted
UG4010-337100A06	2	Precast vault shop dwgs	TG0405-018	TRINE814	TURNE361	2/07/11	2/24/11	2/09/11	2/09/11	-15	Make Corrections Noted
UG4010-337100A08	1	Joint Trench Shop Dwgs - Shaw Alley to AT&T Vault	TG0405-048	TRINE814	TURNE361	3/16/11	4/01/11	3/25/11	3/25/11	-7	Make Corrections Noted
UG4010-337100A09	1	Joint Trench Shop Dwgs - 2nd to PG&E Vault	TG0405-051	TRINE814	TURNE361	3/28/11	4/13/11	4/08/11	4/08/11	-5	Make Corrections Noted







# Submittal Log

## Project 30100 - Transbay Transit Center Project

Project Office  
175 Beale St  
San Francisco, CA 94105  
Phone (415) 978-5700 Fax (415) 904-8119

Submittal #	Cycle	Submittal Name	Submittal Package	From Company	To Company	Date Sent	Date Due	Date Returned	Date Sent to Sub	Days Late	Status
<b>Spec Section 337900</b>											
UG4020-337900A01	1	Copper Bonded Ground Rods	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-337900A02	1	Ground Wire Clamp	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
UG4020-337900A03	1	Grounding Conductor	TG0405-006	TRINE814	TURNE361	10/29/10	11/16/10	11/18/10	11/18/10	2	No Exceptions Taken
<b>Spec Section 610</b>											
UA0000-000610B02	1	P&P Bonds	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
<b>Spec Section 805</b>											
UA0000-000805B02	1	Certificate of Insurance	TG0401-001	MSQUA902	TURNE361	2/01/11	2/01/11	2/03/11	2/04/11	2	For Record Only
<b>Spec Section 820</b>											
UA0000-000820B01	1	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	12/20/10	1/21/11	1/05/11	1/05/11	-16	Make Corrections Noted
UA0000-000820B01	2	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	1/24/11	2/09/11	1/24/11	1/24/11	-16	Make Corrections Noted
UA0000-000820B01	3	City Build Workforce Projection	TG0434-014	MSQUA902	TURNE361	2/07/11	2/24/11	2/11/11	2/11/11	-13	Make Corrections Noted
UA0000-000820C01	1	City Build Workforce Projection	TG0401-004	MSQUA902	TURNE361	2/25/11	3/15/11	3/03/11	3/03/11	-12	No Exceptions Taken



# Document Control

January 13, 2011

---

## Purpose

The purpose of this outline is to provide guidelines for establishing the appropriate document control system for the management of the Transbay Transit Center project.

---

## Policy

All Controlled documents will go through Document Control to be logged and tracked.

---

## Procedures

**What is a controlled document?** A controlled document shall be defined for this project as any contract document or correspondence which includes i) contract requirements, or ii) scope definition or requirements, including distribution of all Contract Documents (e.g. addendum, bulletins, work orders, etc.) either to/from TJPA or Trade Subcontractor. Controlled documents received should be date stamped, logged, saved electronically (in some cases hard copies filed), distributed internally, monitoring response/process time (also referred to as work flow), distribute externally, and track the distribution list.

The following is a list of **controlled document** examples:

- Project Document Distribution – Internal/External
  - o Design Documents
  - o Construction Document
  - o Sketches
  - o Reference Documents
- Submittals, including all LEED submittal requirements and substitutions.
- Design Review Questions (DRQs) - Preconstruction
- Request for Information (RFIs) - Construction
- Daily Reports
- Safety Memos – Logged and tracked
- Schedules and schedule reports
- Permit Inspections
- Payment Applications
- Cash Flow Projections
- Monthly Progress Reports
- Permits
- Original Documents - Custodianship of all original documents in a Master File until they can be boxed and transferred for long term storage.
- Formal Correspondence; including all formal incoming/outgoing correspondence
- Contract Notification Correspondence; delay notification, etc.

# Document Control

---

January 13, 2011

- Contract Modifications
- Virtual Building/Models
- Meeting Minutes
- Transmittals
- Requests for Qualification (RFQ)
- Invitation for Bid (IFB)
- Subcontracts & Change Orders
- Long Form/Short Form Purchase Orders (PO)
- SBE/DBE
- Closeout documents
- Reimbursements

**Uncontrolled Documents:** The following are some examples of uncontrolled documents:

- Email correspondence
- Field Tags – Collected and tracked by Cost Control
- Purchase Order – Managed by Procurement/Cost Control



# File Naming Conventions

November 4, 2010

## Naming Convention

---

Below is the designator and associated description to be used on correspondence for the Transbay Project.-Project examples are:

1. RFI
  - a. Utilities
    - i. RFI U -XXXX – Description
  - b. Transit Center Building
    - i. RFI T-XXXX – Description
  - c. Bus Ramps
    - i. RFI B-XXXX – Description

Ex. RFI U-0083 – Joint Trench Conflict on Minna at St. 5+5

2. Submittal
  - a. Utilities
    - i. **U**uniformal-masterformat-subcontract##
      1. Ex. UA0000-000000A01 – Description
  - b. Transit Center Building
    - i. **T**uniformal-masterformat-subcontract##
      1. TA0000-000000A01 – Description
  - c. Bus Ramps
    - i. **B**uniformal-masterformat-subcontract##
      1. BA0000-000000A01 – Description

Ex. UG3020-333100A01 – Sewer Piping Material

3. Email
  - a. Subject: Subject Description, same description to be used in transmittal, CMiC, etc
    - i. If communication pertains to a Trade Group – Subject should include TG##.# and Name

Ex. Change Request T-003 – Shoring Wall Changes [30100.03]

Ex. Transbay Transit Center - TG05.4 – Reimbursable Expense Approval [30100.01]

4. Dated Materials – meetings, correspondence, reports, project documents, etc...
  - a. YYYY-MM-DD-Description

Ex. 2011-05-28 – TG03 Reimbursable Expense Approval



# File Naming Conventions

---

November 4, 2010

## Contracts (CMiC) –

- b. Number = Contract #
- c. Title = Subcontractor Name EXECUTED Contract # Date

Ex. 301000405

Ex. Trinet Construction Inc. EXECUTED 301000405 2010-10-22

## 5. Change Orders (CMiC) -

- a. Number = Contract # - ###
- b. Title = Subcontractor Name EXECUTED SCO# Date

Ex. 301000405-001

Ex. Trinet Construction EXECUTED SCO#001 2010-10-05



# Filing Archive

January 7, 2011

## Purpose

---

To define which documents need to be saved, where they need to be saved and who is responsible for ensuring they are properly saved.

## Policy

---

All documents relative to the project should be saved electronically. In some cases, hard copies of these documents will also be saved.

## Procedure

---

Do not save project related files on your individual computer.

- There is no back-up for these files. Computers can be stolen or crash in which case all information on that computer is lost.
- If someone else needs to access the most updated document, they cannot do so.
- If you have to work off-line, make a copy of your file from the server, do your update and then copy it back to the server once you have access.

### Hardcopies –

A central document control location is established in the office. This location will be the storage for all documents that require hard copy. The following Hard Copy documents shall be filed:

- Prime Contract
- Prime Contract Change Orders (Contract Change Orders (CCO))
- Contract Amendments
- Executed Subcontracts
- Executed Subcontract Change Orders
- Permits

### Electronic Copies

ALL Documents involved with the project will be stored electronically.

## File Folder Structure

---

All electronic documents must be filed electronically



# Filing Archive

---

January 7, 2011

There are eight (8) folders in the first level of documents on the Transbay. No changes to this level of folders are allowed unless specifically discussed with a Project Director. No individual files should be stored at this level.

**At the level Transbay\TJPA – OWNER\***folder name* there are currently 26 folders. Some have folder stored in these folders.

No changes can be made to the folder structure at this level unless discussed with a Senior Project Manager. No individual files should be stored at this level. Where applicable, folder names at this level will include, in parenthesis, the party responsible for maintenance of the file structure.

All folders will have names that accurately describe the comments. No folder will be named “miscellaneous documents” or any similar non-descriptive name.

## Standard File Naming Conventions

---

**ALL** electronic document files and folders stored shall have titles consistent with the naming conventions defined in the File Naming Convention policy and procedure.

## Responsible Party

---

The responsible party for each document is indicated in the matrix below. If the document is a paper copy, the responsible party shall hand the task of physically filing the document to the document control team. If a document is to be filed electronically, the responsible party shall see that it is filed correctly.

# Filing Archive

January 7, 2011

## Document Matrix

DOCUMENT TYPE	HARD COPY?	SOFT COPY?	Responsible Party	Where Stored
<b>OWNER</b>				
Prime Contract	Yes	Yes	Senior PA	Hard copy: Central File Location Soft copy: Contract
Prime Contract Change Orders	Yes	Yes	Senior PA	Hard copy: Central File Location Soft copy: Contract Amendments
Prime Contract Notices to Proceed	No	Yes	Senior PA	Hard copy: NA Soft copy: Contract NTPs
Owner Billing	No	Yes	Project Accountant	Hard Copy: NA Soft Copy: Progress Billings
<b>SUBCONTRACT</b>				
Subcontract	Yes*	Yes	PA	Hard Copy: Central File Location Soft Copy: Contract & SCCO's
Subcontract Change Order	Yes*	Yes	PA	Hard Copy: Central File Location – Subcontractor file Soft Copy : Contract & SCCO's
Subcontractor Insurance Cert	Yes*	Yes	Project Accountant	Hard Copy: Central File Location – Subcontractor File Soft Copy: Insurance Certificates
Subcontractor Progress Billing	No	Yes	Project Accountant	Hard Copy: NA Soft Copy: Progress Billings
Subcontractor Pricing	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor direction to proceed	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor Field Work Tag	No**	Yes	APM	Hard Copy: NA Soft Copy: CMiC attached to issue code
Subcontractor Formal Corres. (to)	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File Soft Copy: <i>trade number &amp; name\Subcontractor\ 3. Correspondence</i>
Subcontractor Formal Corres. (from)	No	Yes	PA	Hard Copy: Central File Location – Subcontractor File Soft Copy: Correspondence
Long Form P.O.	See SC	See SC	See SC	Long Form P.O.'s will be filed in the same manner as subcontracts.
Subcontract Pre-lien info.	Yes	Yes	Project Accountant	Hard Copy: Central File Location – Subcontractor File Soft Copy: Preliminary Notices

# Filing Archive

January 7, 2011

DOCUMENT TYPE	HARD COPY?	SOFT COPY?	Responsible Party	Where Stored
<b>CONSTRUCTION</b>				
RFI	No	Yes	Project Engineer	Hard Copy: Binder located at the foreman's plan table Soft Copy: CMiC
Submittals – Product Data	No	Yes	Project Engineer	Hard Copy: NA Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. CMiC
Submittals – shop drawings	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Submittals – samples	Yes	Yes ++	Project Engineer	Hard Copy: Central Sample Location Soft Copy: APPROVAL SHEET MUST BE SCANNED IN COLOR. Copy of approval to CMiC
Daily Reports W/O	No	Yes	Supt.	Hard Copy: NA Soft Copy: CMiC / Constructware
Daily Reports Subcontractors	No	Yes	Project Engineer	Hard Copy: Central File Location Soft Copy: Daily Reports\subcontractor
CQC Daily Reports	No	Yes	CQC Manager	Soft Copy: CMiC/Constructware
TPoC Meeting Minutes	No	Yes	CQC Manager	Soft Copy: CMiC
Non Conformance	No	Yes	CQC Manager	Soft Copy: CMiC
Progress Photos	No	Yes	Assistant Supt	Hard Copy: NA Soft Copy: Daily Progress Photos
Drawing Issuances	Yes	Yes	Document Control	Hard Copy: Central File Location Soft Copy: Documents
Meeting Minutes	No	Yes	Minutes Author	Hard Copy: NA Soft Copy: CMiC

# Transmittals

November 29, 2010

## Purpose

---

To ensure contract documents leaving this office have a record.

## Policy

---

Use and receipt of Transmittals is governed by the information herein.

All contract document exchange with Ownership, Design Team, Subcontractor community and Agencies with Jurisdiction/Authority on the project requires a CMiC transmittal. All transmittals are created in CMiC with the reference documents listed and uploaded as attachments in CMiC. All transmittals with incoming documents are date stamped, scanned and uploaded with the documents to the pertinent folder and CMiC.

Below is a listing of all contract documents that require a transmittal to capture the exchange/submission:

- Billing
- Submittals
- Design Review reports
- Schedules & Reports
- Cost Estimates
- Drawings
- Close-out documents
- Attic Stock

## Procedure

---

Transmittal tracking numbers are auto populated in CMiC.

**Subject (RE):** The subject should be the same description used on other documents (ex. PCI's, Letters, e-mail, etc.) Subject should be descriptive and should include appropriate sub-job, TG Package # and description.

**Remarks:** Include in the remarks form the first sentence should read

RE: Transbay Transit Center [Preconstruction/TCB/Utilities/Bus Ramps select one] – 30100.[##]

# Transmittals

November 29, 2010

## CMiC

---

Generating a Transmittal in CMiC requires completion of the following input:

- From, To and CC individuals.
- Re: is the same as subject
- Via
- Due date(if applicable)
- Actions as appropriate
- Remarks (Do not list transmittal items in this section)
- Individual Transmittal Item listing including quantity, date, reference, description, comment and status stamp and initial all incoming document cover pages.

## Linking Documents to CMiC

---

All documents being transmitted should be uploaded to CMiC under the appropriate folder under “documents”.

If there is not a specific folder the type of document being transmitted, include it in “Webcor Other Attachments”.

Reference Naming Convention P&P for naming of linked documents.

## Sending Documents to Ownership

---

All documents will be sent via ConstructWare by the Document Control team.

# Distribution Matrix

November 18, 2011

## Purpose

---

To establish guidelines for who receives what documents and in what form.

## Policy

---

All documents received by Document Control will be distributed according to the matrices.

## Procedure

---

Distribution Matrices have been established for:

1. Internal & Drawing Distribution
2. External Distribution
3. Inspection Distribution



## Key

H = Half Size

F = Full Size

empty = Electronic

<div>Key</div> <div>H = Half Size</div> <div>F = Full Size</div> <div>empty = Electronic</div>		Trade Specific Correspondence					
		Transit Center Bldg 30100.01				Utility Relocation - 30100.03	Bus Ramps - 30100.05
		Drawings					
		Specifications					
Group	Name						
	Hidetake Taniguchi						H
	Richard Gangitano						
	Brian Morton						
	Todd Mercer						
	Kurt Ricci	H		H			
CONTROLS	Ted Williams						
DOCUMENT CTRL	Avaline Feliciano	F	F	F	F	F	F
QUALITY CTRL	Robert Garcia						
	Lynn Kowallis						
	David Hungerford						
TRANSIT CENTER BLDG 30100.01	Kirk Nielsen	H					
	Joanne Filipas						
	Mike Poole	H					
	Pat Griffin						
	Jim Tomaszewski						
	Manny Saldana						
	David Fields						
	Jeff Heath			H			
UTILITY RELOCATIO N 30100.03					H	H	
	Colin Azevedo						
BUS RAMPS 30100.05	Masashi Kojima						H

Printed from DSM

Date	Revision #
3/28/2012	4

**TRANSBAY TRANSIT CENTER  
DISTRIBUTION MATRIX  
WEBCOR/OBAYASHI  
External**

P = Primary  
CC = Copy

Group		Name		General Correspondence								Trade Specific Correspondence				Purchasing		Engineering			
				Contract Issues	Amendments/CO	Progress Billings	Schedule Updates	NOPD/NOPC	Quality	Safety	Cost Estimating/Constructability	Field Orders/PCO	Transit Center Bldg 30100.01				Utility Relocation - 30100.03	Bus Ramps - 30100.05	Bid Packages and Correspondence	QBDs	RFI's and Submittals
													TG03	TG05	TG08	TG19					
				P = Primary CC = Copy																	
Turner	Steve Rule	CC	CC	CC	P	P	CC	CC	CC	CC	CC	P	P	P	P	P	P	CC			
	Jack Adams				CC	CC	CC	P			CC	CC	CC	CC	CC	CC					
	Saeid Elmi						P												CC		
	Gwynne Powell	CC	P	P	CC	CC				P											
	Gary Krutsch										CC	CC	CC	CC	CC	CC	CC	P	P		
	Kevin Chiu										CC							CC	CC		
	Steve Cunningham				CC	CC		CC			CC				CC						
	Turner Doccontrol	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC		
PMPC	Emilio Cruz	CC	CC		CC	CC															
	Steve Perreault	CC	CC	CC	CC	CC			CC	CC											
	Jim Coughlin		CC		CC	CC			P	CC											
	Jason Partin				CC	CC															
	Alfred Lau	CC	CC				CC	CC	CC	CC	CC	CC	CC	CC	CC	CC					
	Mark O'Dell								CC	CC			CC								
	Guy Hollins													CC							
	Phil Sandri													CC		CC					
	Prasad Nimmigadda								CC												
	Whitney Campbell						CC														
	Roger Rothenburger										CC										
	Doug Jacobson										CC										
	PMPC DocControl	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC		
TJPA	Bob Beck					CC															
	Brian Dykes					CC					P										
	*TJPA DocControl	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC		

\*All correspondence for TJPA will be sent to Doc. Control and will direct correspondence for action, information, etc.

P = Primary  
cc = copy

Group		Name		General Correspondence					Trade Specific Correspondence								
				Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	Transit Center Bldg					Utility Relocation - 30100.03	Bus Ramps - 30100.05
											TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade		
All Correspondence					Field Orders												
					Submittals												
					Inspections												
					RFI's												
					PCO's												
MANAGEMENT	Jes Pedersen	CC															
	Hidetake Taniguchi	CC	CC	CC	CC	CC	CC	CC	CC						CC		
	Richard Gangitano	P	P		CC	CC	CC		CC	CC	CC	CC	CC	CC	CC		
	Brian Morton	CC	CC		CC	CC	CC		CC	CC	CC	CC	CC	CC	CC		
	Todd Mercer	CC	CC	P		CC	CC	P				CC			CC		
	Kurt Ricci	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC		
PROJECT ACCT	Jasmin Lautt		CC	CC													
ADMIN	Sarah Boyd			CC													
	Julie O'Brien		CC														
Controls	Ted Williams	CC	CC	CC					CC	CC	CC	CC	CC	CC	CC		
DOCUMENT CTRL	Avaline Feliciano	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC	CC		
SAFETY	Ray Ramierez						P										
QUALITY CTRL	Bob Garcia					P		CC	CC	CC	CC	CC	CC	CC	CC		
	Lynn Kowallis					CC		CC	CC	CC	CC	CC	CC	CC	CC		
SCHEDULING	David Hungerford				P			CC				P					
Virtual Building	Frank Haase				CC			CC									
	Mike Brown				CC			CC									
TRANSIT CENTER BLDG 30100.01	Kirk Nielsen								P								
	Mike Poole								CC			CC	CC	CC			
	Joanne Filipas								CC								
	David Fields								CC								
	Pat Griffin								CC								
	Jim Tomaszewski								CC								
	Chad Matthews								CC								
	Brian Perez								CC								
	Jeff Heath							CC			P		P		CC		

P = Primary  
cc = copy

Group		Name	General Correspondence							Trade Specific Correspondence						
			Contract Issues	Amendments/CO	Progress Billings	Schedule	Quality	Safety	Pre Construction	Transit Center Bldg					Utility Relocation - 30100.03	Bus Ramps - 30100.05
										TG03-BSE	TG05-Logistics	TG08-Glazing	TG019-301 Mission Wall	TG06-Below Grade		
			All Correspondence							Field Orders						
Submittals																
Inspections																
RFI's																
PCO's																
	Jodi Soboll							cc					cc			
	Manny Saldana								cc	P				cc		
	Nhi Tran							cc					cc			
	Tomoya Imai							cc								
	Sihaya Roselle							cc		cc			cc			
UTILITY RELOCATIO N 30100.03										cc				P		
BUS RAMPS 30100.05	Masashi Kojima							cc					cc		P	

# Design Documents

January 10, 2011

## Purpose

---

To receive, review and distribute design documents sent to W/O from TJPA.

## Policy

---

All design documents will go through document control and be distributed electronically to the entire team. Only selective members of the team will receive hard copies.

## Procedure

---

1. Document Control Engineer (DCE) receives design documents from TJPA via Hard copy, compact disc, electronically or download from ConstructWare.
2. DCE reviews documents for completeness.
  - a. If documents received are incomplete, DCE responds immediately via e-mail indicating the documents are incomplete and W/O is not reviewing them.
3. DCE creates a new folder in the Owner-Documents folder for the received file.
4. DCE distributes link to electronic file
5. DCE determines drawing order requirements for Ford Graphics.
  - a. DCE to follow PO procedure for ordering drawings (see PO procedure).
6. DCE places order once the PO is approved by the Project Director.
7. DCE receives drawing order and verifies it is complete.
8. DCE distributes hard copy design documents to the appropriate personnel.



# Master Project Document Log

January 18, 2011

## Purpose

---

To track and document all drawings and specifications issued throughout the life of the project and where these documents live.

## Policy

---

The master project document log will be update by Document Control as new drawings and specifications are issued.

## Procedure

---

1. Review master drawing log against drawing log issued with new drawings.
2. Update master drawing log when new documents are received with date, revision number and location of where documents are saved.

NOTE – Master Drawing Log has not been established; PMPC to issue master log.

# Updating Drawings & Specs

January 10, 2011

## Purpose

---

To ensure there is an up to date record set of drawings and specifications.

## Policy

---

All drawings and specifications will be updated and maintained by the project team and document control. Individual team members are responsible for keeping their personal drawings up to date.

## Procedure

---

Specifications and Drawings will be kept both electronically and in hard copy. Document Set Manager will be the most up to date set of Record Drawings only.

### Record Drawings:

1. Document Control Engineer (DCE) receives new drawings from TJPA
  - a. DCE follows Design Document procedure for distribution.
2. DCE batch plots DWG files in AutoCad to the DSM file.
  - a. Reviews batch plot PDF's against the PDF's provided by TJPA for changes.
3. DCE imports PDF's to DSM.
4. DCE closes clouds for RFI's that have been captured by the Architect.
5. DCE notifies the team that the new drawings are in DSM and comparisons can be done.
6. DCM will print full size hard copies of record set drawing as required. Subcontractors and Project Team should reference DSM for the most up to date Record Set.
7. DCE updates Construction Drawings to fold in new drawings.

**\*\*All RFI's (sent and answered) will be posted to drawings by the author of the RFI. (See RFI procedure).**

### Specifications:

1. DCE receives revised specifications from TJPA
  - a. DCE follows Design Document procedure for distribution.
2. DCE takes hard copies received from TJPA and updates Record Set of specifications.
3. DCE Updates electronic version of current specs.



# Document Set Manager

---

January 26, 2011

## **Purpose**

---

Document Set Manager (DSM) will be utilized on this project to manage our record set of drawings.

## **Policy**

---

DSM will be used as Webcor/Obayashi's record set of drawings, including all RFI's, Trade Subcontractor As-builts and revisions to drawings. Specifications will not be maintained in DSM.



## Purpose

---

The CQC File Structure is outlined below and will be utilized on this project to store, organize and manage Webcor/Obayashi's CQC Plan, Daily CQC Reports and DFOWs.

## Policy

---

Webcor/Obayashi will organize and store CQC documents such as the CQC Plan, Daily CQC Reports and DFOWs on the F:\ drive in a shared folder. CQC Daily Reports will be uploaded into Constructware as the system of record.

## Procedure

---

**CQC documents on the F:\ drive may be found at the following location.**

F:\Transbay\WEBCOR\Quality Control

CQC Plans

- CQC Plan Webcor-Obayashi JV:

Daily CQC Reports

- 1. Trinet
- 2. M2
- 3. Transworld
- 4. M2
- 5. BBII
- 6. Chaudry
- 7. Sandis
- 8. Webcor-Obayashi

DFOW

- BBII (TG03)
  - o Preparatory Phase
  - o Initial Phase
  - o Follow-up Phase
- M2 (TG04.1, 04.2, 04.3, 04.4, 04.5, 04.6)

**CQC Daily Reports in Constructware may be found at the following location.**

Constructware CQC Daily Reports

140 - Transit Center Building

- File Director
  - o 10 Quality
    - 12 CQC Reports
      - BBII
      - W-O

## 5. INSPECTIONS AND TESTING



## **5. INSPECTIONS AND TESTING**

### **GENERAL**

#### **QUALITY INSPECTIONS**

The Webcor/Obayashi JV Quality Control Manager or CQC Manager's alternate will verify that Trade Subcontractors are meeting the requirements outlined in the TJPA Quality Management System Manual, sections 8.5.1 Inspection and Test Planning and 8.5.2 Contractor Inspection Requirements, to provide documented evidence of inspections, lab reports and test results. When specified, the Trade Subcontractors will also perform inspections of all purchased items, perform source inspections, perform first article inspections and perform end process inspections and testing.

#### **INDEPENDENT TESTING FIRM REPORTING REQUIREMENTS**

When the technical specifications indicate the requirement for services of an independent firm, inspection reports will be submitted promptly by the independent firm in triplicate and distributed, one copy each, to the TJPA Representative, Webcor/Obayashi JV, and the code authority having jurisdiction over the Project and will indicate observations and results of tests and compliance or noncompliance with the requirements as defined in the technical specifications.

### **TJPA CODE AND AGENCY TESTING AND INSPECTIONS**

When specified, work shall be subject to inspection by representatives of the TJPA and other agencies having jurisdiction (Code and Agency Inspections) to assure compliance with all requirements of Section 00 07 00, General Conditions, Paragraph 8.02.

#### **TJPA SPECIAL INSPECTION AND TESTING**

The TJPA shall include as part the Construction Management Oversight Consultant's scope, all specified tests to verify that the Work conforms to the requirements of the Contract Documents and to the Quality Control specification, specifically to specification section 01 14 00 Rev 0 Quality Control paragraph 1.5A Tests, and will include the following procedures:

- Verify that testing procedures comply with the contract documents.
- Implement and document control verification and acceptance testing procedures.
- Check testing instruments calibration data against certified standards.
- Promptly submit copies of test reports to: TJPA, Webcor/Obayashi JV and the code authority having jurisdiction over the Project



### INSPECTION REQUEST PROCEDURE

The Trade Subcontractors CQC Manager will verify that all prerequisites as defined by the contract specifications are completed prior to Code, Agency or Special Inspections. Inspection Request will be submitted to the Webcor/Obayashi JV CQC Manager and the TJPA Construction Management Oversight Manager 48 hours and not more than 72 hours prior to the inspection date. Inspection Requests for Code, Agency and Special Inspections require an “Inspection Request Form” (TJPA provided form) to be completed by Webcor/Obayashi JV or the Trade Subcontractors CQC Manager. The Trade Subcontractor’s CQC Manager will facilitate onsite inspections, sampling procedures, test reports, and provide notification to the Webcor/Obayashi JV CQC Manager and TJPA representative when inspections fail or test results fall below specified values.

## TRADE SUBCONTRACTOR TESTING AND INSPECTION

### TEST AND INSPECTION PROCEDURES BY TRADE SUBCONTRACTORS

When required in the technical specifications, the Trade Subcontractors shall include as part of their scope all tests to verify that the Work conforms to the Contract Documents and to the Quality Control specification section 01 14 00 Rev 0 paragraph 1.10A Tests, and will include the following procedures:

- Verify that testing procedures comply with the contract documents.
- Verify that all inspection prerequisites are met prior to conducting inspections.
- Submit a testing and inspection matrix with the design submittals showing all required inspections and the entity responsible for performing the tests or inspections.
- Track inspection and test status.
- Verify that the facilities and testing equipment are available and comply with the testing standards.
- Trade Contractors and Suppliers shall have documented procedures to ensure test equipment is in calibration and keep updated lists of all equipment requiring calibration. Trade Contractor shall make calibration records available for review.
- Record results of tests taken, both passing and failing on the trade subcontractor’s daily CQC report for the date taken. Specify paragraph reference, location where tests were taken.
- When the services of an independent firm are utilized, reports will be submitted promptly by the independent firm in triplicate and distributed, one copy each, for the TJPA Representative, Webcor/Obayashi JV, and the code authority having jurisdiction over the Project and will indicate observations and results of tests and compliance or noncompliance with the Contract.



- When specified, the Trade Subcontractors shall produce test and inspection plans in accordance with the Program Quality Management System requirements. All testing and measurements specified to be performed by the Trade Subcontractors shall be performed with equipment whose calibration meets national standards and to documented standards when no national standard exists.
- Maintain and submit a log indicating the status of the Trade Subcontractors inspections and tests.

#### CONTROL VERIFICATION AND ACCEPTANCE TESTING PROCEDURES

When specified, The Trade Subcontractors CQC Managers will provide control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the TJPA Representative must be used.).

When specified, specific control verification and acceptance testing procedures will be provided by the Trade Subcontractors as part of the Trade Subcontractors CQC plans, and will be completed as the specification sections are defined and the Trade Subcontractors are added to the project.

#### TEST REPORTING

Inspection and test status are documented in the Trade Subcontractors Daily Quality Control reports.

### COMPLETION INSPECTIONS

#### PUNCH-OUT INSPECTION

An inspection of the Work will be conducted by the Trade Subcontractors CQC Manager, near the end of Trade Subcontractor's work. The punch list will include items that do not conform to the approved Drawings and Specifications and the estimated date by which the deficiencies will be corrected. A second inspection by the Trade Subcontractor CQC Manager will ascertain that all deficiencies have been corrected. Once this is accomplished the TJPA Representative will be notified that the facility is ready for the TJPA pre-final inspection.

#### PRE-FINAL INSPECTION

The TJPA Representative will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A TJPA Representative pre-final punch list may be



developed as a result of this inspection. Webcor/Obayashi JV will ensure that all items on this list have been corrected before notifying the TJPA Representative, so that a final inspection can be scheduled. Items noted on the pre-final inspection will be corrected in a timely manner. These inspections and any deficiency corrections required by this paragraph must be accomplished within the time slated for completion of the entire work or any particular increment of the Work if the Project is divided into increments by separate completion dates.

#### FINAL ACCEPTANCE INSPECTION

The CQC System Manager, plus the Contractor's authorized representative and the TJPA Representative must be in attendance at the final acceptance inspection. Additional personnel from affected third parties may also be in attendance. The final acceptance inspection will be formally scheduled by the TJPA Representative based upon results of the pre-final inspection. The TJPA Representative will be notified at least 72 hours prior to the final acceptance inspection and include the Contractor's assurance that all punch list and nonconforming work will be complete and acceptable by the date scheduled for the final acceptance inspection.

## 6. QUALITY CONTROL PROCESS

- COORDINATION MEETING
- PREPARATORY PHASE
- INITIAL PHASE
- FOLLOW-UP PHASE
- TRADE CONTRACTORS CQC PLANS
- TRADE CONTRACTORS CQC MEETINGS



## **6. PROJECT QUALITY CONTROL PROCESS**

The contractor quality control process is the means by which the Contractor, Trade Subcontractors and Suppliers, ensure that the construction complies with the requirements of the Contract. At least three phases of control must be conducted by the Trade Subcontractor CQC Manager for each definable feature of the construction work.

### **COORDINATION MEETING**

After the pre-construction conference for each Trade Work Package, before start of construction, the Trade Contractor shall meet with the TJPA Representative, the TJPA QA Manager and the Webcor/Obayashi JV CQC Manager to discuss the Trade Subcontractor's quality control system as it relates to the work of the trade package. The Trade Subcontractor will submit the CQC Plan a minimum of 15 days prior to the coordination meeting. During the meeting, a mutual understanding of the system details must be developed, including the forms for recording the CQC operations, control activities, testing, administration of the system for both onsite and offsite work, and the interrelationship of Trade Subcontractor's management and control with the TJPA Representative's quality assurance. Minutes of the meeting will be prepared by the TJPA Representative, signed by both the Trade Subcontractor, the TJPA Representative and Webcor/Obayashi JV CQC Manager and will become a part of the Contract file. There may be occasions when subsequent conferences will be called by either party to confirm mutual understandings and/or address deficiencies in the CQC system or procedures that may require corrective action by the Trade Subcontractor.

### **PREPARATORY PHASE:**

This phase is performed prior to beginning work on each definable feature of work, after all required plans, documents, and materials are approved and accepted, and after copies are at the work site. This phase includes:

1. A review of applicable specifications, reference codes, and standards. The Trade Subcontractor CQC Manager shall make available during the preparatory inspection a copy of those sections of referenced codes and standards applicable to that portion of the Work to be accomplished in the field. Maintain and make available in the field for use by TJPA Representative until final acceptance of the Work.
2. Review of the Contract drawings.
3. Check to assure that all materials and/or equipment have been tested, submitted, and approved.
4. Review of provisions that have been made to provide required control inspection and testing.





5. Examination of the work area to assure that all required preliminary work has been completed and is in compliance with the Contract.
6. Examination of required materials, equipment, and sample work to assure that they are on hand, conform to approved shop drawings or submitted data, and are properly stored.
7. Review of the appropriate activity hazard analysis to assure environmental requirements are met.
8. Discussion of procedures for controlling quality of the work including repetitive deficiencies. Document construction tolerances and workmanship standards for that feature of work.
9. Check to ensure that the portion of the CQC Plan for the work to be performed has been accepted by the TJPA Representative.
10. Discussion of the initial control phase.

The TJPA must be notified at least 48 hours in advance of beginning the preparatory control phase. Include a meeting conducted by the Trade Subcontractor CQC Manager and attended by the Contractor's authorized representative, other CQC personnel (as applicable), and the foreman responsible for the definable feature of work. The Trade Subcontractor CQC Manager shall document the results of the preparatory phase actions by separate minutes and attach the minutes to the daily CQC report. The Trade Subcontractor CQC Manager shall instruct applicable workers as to the acceptable level of workmanship required in order to meet Contract requirements.

#### INITIAL PHASE:

This phase is accomplished at the beginning of a definable feature of work. This phase includes:

1. Reviewing the minutes of the preparatory meeting.
2. Verifying the adequacy of controls to ensure full contract compliance, inspection and testing.
3. Establishing level of workmanship and verify that it meets minimum acceptable workmanship standards. Compare with required sample panels as appropriate.
4. Resolving all differences.

The TJPA must be notified at least 72 hours in advance of beginning the initial phase. The Trade Subcontractor CQC Manager shall prepare separate minutes of this phase and attach the minutes to the daily CQC report. The meeting will be conducted by the Trade Subcontractor CQC Manager and attended by the Contractor's authorized representative, other CQC personnel (as



applicable), and the foreman responsible for the definable feature of work. The initial phase should be repeated for each new definable feature of work.

#### FOLLOW-UP PHASE:

The Trade Subcontractor CQC Manager shall perform daily checks to assure control activities, including control testing, are providing continued compliance with contract requirements until completion of the particular feature of work. Record the checks in the CQC documentation. Conduct final follow-up checks and correct all deficiencies prior to the start of additional features of work that may be affected by the deficient work. Do not build upon or conceal non-conforming work.

#### TRADE SUBCONTRACTORS QUALITY CONTROL PLAN

After contract award and prior to beginning construction activities each Trade Subcontractor will submit (per specification section 01 13 00 Submittals, paragraph 1.4) to the Webcor/Obayashi Joint Venture CQC Manager their project specific quality control plan for review and approval. Each Trade Subcontractor will designate and provide a project specific Trade Subcontractor Quality Control Manager who reports to the Webcor/Obayashi JV CQC Manager and who's primary responsibility will be to implement and manage the Trade Subcontractor's quality control plan and certify the Trade Subcontractor's compliance with the Webcor/Obayashi Joint Venture Quality Control Plan and all quality control requirements contained in the project documents including specification section 01 14 00 Quality Control. The Trade Subcontractors CQC program will be reviewed for compliance to the Contract Documents. In addition to the requirements contained in other sections of this Plan the Trade Contractors Quality Control Program will include:

- CQC Organization chart.
- Procedures for fabrication and installation.
- Procedures for planning and verifying compliance and controlling quality of the work (including checklist forms).
- Procedures for layout verification.
- Coordination with related contractors.
- List of specified tolerances and workmanship standards for each DFO.
- Daily CQC Reports.
- Program for identifying and correcting defective work.
- Inspection, test and acceptance procedures when specified in the Technical Specifications to be part of the Trade Subcontractors scope.



### TRADE SUBCONTRACTORS QUALITY CONTROL MEETINGS

In addition to the Three Phase of Control Meetings, A Trade Subcontractor CQC Meeting will be part of the Weekly Trade Subcontractors Meetings held by the Webcor/Obayashi JV Project Superintendent or Project Manager. The Trade Subcontractor CQC Manager will review current CQC issues as a segment of the weekly meeting; addressing the schedule, testing, inspection, re-work log, failed inspection status, short-term schedule of CQC activities, project tests, submittal status, factory verification requirements, inspection results and any other CQC issues relevant to the current activities.

## 7. NON-CONFORMANCE AND CORRECTIVE ACTION

- OVERVIEW
- NON-CONFORMANCE OBSERVATIONS AND REPORTING
- NON-CONFORMANCE REPORT (NCR)
- NON-CONFORMANCE LOG
- CONTROL THE CONTINUATION OF WORK
- CORRECTIVE ACTION PLAN (CAP)



## **7. NON-CONFORMANCE AND CORRECTIVE ACTION**

### **OVERVIEW**

Should a non-conformance be identified by an inspection there is a systematic method to control the item, correct it, and ensure that project quality is not adversely impacted by the event. A non-conformance is an item that does not meet the requirements of the project specifications.

### **NON-CONFORMANCE OBSERVATIONS AND REPORTING**

When work is identified as non-conforming it will immediately be segregated. Segregation may occur by physical isolation and cordoning off of work/materials, or conspicuously identified by tags/markings when physical isolation is not possible. The Trade Subcontractor CQC Manager will complete a Non-Conformance Report (NCR) (see forms Tab 12), and submit the report to the Webcor/Obayashi JV CQC Manager. Webcor/Obayashi JV will enter the non-conformance issue into CMiC for internal tracking. The NCR will be forwarded to the TJPA Construction Management Oversight Manager whose responsibility it is to track all project-wide non-conforming work. NCRs will be entered into Vela, TJPAs chosen system to track all non-conforming work.

### **NON-CONFORMANCE REPORT (NCR)**

When completing the Non-Conformance Report the Trade Subcontractor CQC Manager will describe the work in detail, its location, a description of the deficiency and the proposed resolution and actions taken to prevent the recurrence of the non-conformance (see form in Tab 12). Supporting documentation may be attached as necessary. The report will be forwarded to the Webcor/Obayashi JV CQC Manager and the TJPA Construction Management Oversight Manager for review and approval. Non-conformance Report contents are summarized as follows:

- Section 1: Non-conformance identification info: Contractor, location date, etc.
- Section 2: Description of Non-conformance
- Section 3: Cause
- Section 4: Recommended Field Engineer Disposition (Trade Subcontractor CQC Manager)
- Section 5: Project Engineering Disposition (TJPA)
- Section 6: Disposition Results
- Section 7: Corrective action and steps taken to prevent recurrence



### NON-CONFORMANCE LOG

The project-wide Non-Conformance Tracking Log is maintained by the TJPA Construction Management Oversight. Webcor/Obayashi JV and the Trade Subcontractors will maintain Non-Conformance logs appropriate for their scope of work

### CONTROL THE CONTINUATION OF WORK

After the item of work is identified and segregated from all other active work, the Trade Subcontractor CQC Manager will determine if work can continue in the affected area. When continuing work can adversely affect quality or hide the defect, work must stop in the affected area until the disposition of the item is resolved. The Trade Subcontractor CQC Manager identifies and clearly labels the limits of the affected stop work areas.. Non-conforming work may be reworked to meet requirements, accepted as is, repaired, or rejected. If accepted as is or repaired, the Engineer of Record needs to approve the deviation from original specifications. When appropriate, non-conforming work may require an approved Corrective Action Plan.

### CORRECTIVE ACTION PLAN (CAP)

Once a NCR cause has been determined, a written Corrective Action Plan (CAP) will be created for non-conforming work. The CAP will be created by the Trade Subcontractor and submitted to Webcor/Obayashi's CQC Manager who will review and forward it to the TJPA Representative via Constructware. Webcor/Obayashi will attach the submitted CAP to the NCR in CMiC for internal tracking. Once approved, the CAP will be implemented by the Trade Subcontractor. Implementation of the CAP will be documented and monitored by the TJPA Construction Management Oversight Manager.

## 8. REPORTING PROCEDURES



## **8. REPORTING**

### **Daily Reports**

- Webcor/Obayashi JV Daily CQC reports (see Tab 12 “Forms”)
- Trade Subcontractors Daily CQC reports (see Tab 12 “Forms”)

### **Weekly Reports**

- Webcor/Obayashi JV Submittal log
- Webcor/Obayashi JV Requests for Information log

### **Monthly Reports**

- Webcor/Obayashi JV Construction Monthly Report
- Webcor/Obayashi JV CQC Managers Monthly Status Report (included in the Construction Monthly Report)

### **Periodic forms, reports and lists**

- Definable Features of Work (DFOW) list
- Non-Conformance Report (see Tab 12 “Forms”)
- Non-Conformance Log
- Independent testing agency reports





## TRADE SUBCONTRACTORS QUALITY CONTROL REPORTING REQUIREMENTS

In addition to other information and documentation required to be submitted, described elsewhere in this CQC plan, the Trade Subcontractors CQC Manager will submit the following documents promptly to the Webcor/Obayashi JV CQC Manager:

- Trade Subcontractor Daily CQC reports
- Independent testing agency reports, calibration reports, (may be included as part of the Trade Subcontractor's Daily CQC report)
- Preparatory Phase Meeting Documentation
- Initial Phase Meeting Documentation
- Follow-up Phase Changes in Procedures
- Non-Conformance Reports and associated corrective action plans (as required)

## 9. DEFINABLE FEATURES OF WORK (DFOW)



## 9. DEFINABLE FEATURES OF WORK (DFOW)

The Webcor/Obayashi CQC Manager working with the Trade subcontractors and production team reviews the project schedule, plans and specifications to establish a list of definable features of work. Each Definable Feature of Work is separate and distinct from the other tasks. It may have unique control requirements and be associated with each individual trade discipline and/or trade subcontractor.

This DFOW list will be developed incrementally and additional DFOWs will be added as trade subcontractors are brought on board. Trade subcontractors will submit their DFOW lists for approval, as part of their CQC Plans prior to the start of work. The DFOW list will be maintained in the Project Baseline Schedule (R3) 30100-11.09.06 and in spreadsheet format (see page 2 in this section; Tab 9). The DFOW list will include associated submittals.

W/O JV Transbay Terminal Center  
DFOW List  
Revision (Revised) 03/27/2012

Job Number	Trade Group	Baseline Schedule Activity ID	Trade Group Number	Discription	Meeting Phase	Trade Subcontractor	Meeting Date	Actualized	Submittals
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB42160	TG03	Traffic Control	Preparatory	BBII	5/11/2011	5/11/2011	TG0300-170 - Traffic Control TG0300-172 - Traffic Control Minna and Natoma TG0300-173 - Traffic Control Howard St. Gate TG0300-174 - Traffic Control Beale St. TG0300-177 - Traffic Control PG&E Phase II at Fremont St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52100	TG03	Traffic Control	Initial	BBII	5/11/2011	5/11/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51900	TG03	Pre-Trench	Preparatory	BBII	3/30/2011	3/30/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52000	TG03	Pre-Trench	Initial	BBII	3/30/2011	3/30/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB43140	TG03	Test Pile Extraction	Preparatory	BBII	3/28/2011	3/28/2011	TG0300-300 - Pile Removal - Trial Extraction Plan and Design Report
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51600	TG03	Test Pile Extraction	Initial	BBII	3/29/2011	3/29/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51700	TG03	Pile Extraction Production	Preparatory	BBII	4/11/2011	4/11/2011	TG0300-310 - Pile Removal - Production Extraction Plan TG0300-311 - Existing Pile Extraction Documentation
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB51800	TG03	Pile Extraction Production	Initial	BBII	4/11/2011	4/11/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52400	TG03	Test CDSM Shoring Wall	Preparatory	BBII	5/2/2011	5/2/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52500	TG03	Test CDSM Shoring Wall	Initial A	BBII	5/2/2011	5/2/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation		TG03	Test CDSM Shoring Wall	Initial B	BBII	7/7/2011	7/7/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52600	TG03	CDSM Shoring Wall Production	Preparatory	BBII	6/1/2011	6/1/2011	TG0300-410 - Struct.I Steel - Part 1 TG0300-411 - Struct. Steel - Qualifications of Welders TG0300-412 - Struct. Steel - Mfc.'s Submittals (On-going) TG0300-413 - Struct. Steel - Contractor's QA Plan & Inspector Certs TG0300-414 - Struct. Steel - Add'l Weld Procedures TG0300-415 - Struct. Steel - Add'l Welding Wire Product Data TG0300-416 - Struct. Steel - Add'l Weld Procedure - 30 Degree Welding TG0300-580 - Shoring Wall TG0300-581 - Shoring Wall - LEED Submittal TG0300-583 - CDSM Wall Corrective Action Plans TG0300-584 - CDSM Wall Beam #859 Alignment Corrective Action Plan TG0300-585 - CDSM Corrective Action - Resplicing Soldier Piles TG0300-590 - Shoring Wall - Record Doc.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52700	TG03	CDSM Shoring Wall Production	Initial	BBII	7/7/2011	7/7/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52800	TG03	Install Buttress Shafts	Preparatory	BBII	8/30/2011	8/30/2011	TG0300-380 - Concrete - General Site Mix Design TG0300-381 - Concrete - CLSM Mix Design TG0300-382 - Concrete - CLSM Mix Designs - Buttress Shoring Wall & Pile Extraction TG0300-383 - Concrete - CLSM & Concrete Mix Designs - Buttress Shoring Work Pad TG0300-385 - Buttress Concrete - Trial Batch Program TG0300-386 - Buttress Concrete - Type 'B' Secondary Shaft Mix Design TG0300-387 - Buttress Concrete - Primary Shaft Buttress Mix Designs TG0300-388 - Buttress Concrete - Primary Shaft Buttress Mix Designs - Add'l Mixes TG0300-389 - Buttress Concrete - Sechelt Coarse Aggregate TG0300-390 - Buttress Concrete - LEED TG0300-391 - Buttress Concrete - Primary Shaft Buttress Mix Designs - Add'l Mixes II TG0300-400 - Buttress Concrete - Closeout TG0300-600 - Drilled Shafts TG0300-601 - Drilled Shafts - Installation Plan - Supplemental Submittals TG0300-610 - Drilled Shafts - Close Out
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52900	TG03	Install Buttress Shafts	Initial	BBII	9/13/2011	9/13/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53000	TG03	Buttress Rebar	Preparatory	BBII	8/1/2011	8/1/2011	TG0300-320 - Rebar - Informational Submittals and buttress Shop Dwgs.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53100	TG03	Buttress Rebar	Initial A	BBII	10/26/2011	10/26/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation		TG03	Buttress Rebar	Initial B	BBII	10/31/2011	10/31/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	UT-203801	TG03	PG&E Phase 2 Infrastructure	Preparatory	BBII	10/18/2011	10/18/2011	TG0300-901 - CR T-017R1 PG&E Phase II Work at First St. TG0300-903 - PG&E Phase II Work at Fremont St.

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	UT-203901	TG03	PG&E Phase 2 Infrastructure	Initial	BBII	10/19/2011	10/19/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10780	TG03	Demo Basement	Preparatory	BBII	11/9/2011	11/9/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10880	TG03	Demo Basement	Initial	BBII	11/28/2011	11/28/2011	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17300	TG03	Install Walers (Internal Bracing)	Preparatory	BBII	11/15/2011	11/15/2011	TG0300-490 - Geotechnical Instrumentation & Monitoring TG0300-491 - Internal Bracing Performance Monitoring TG0300-540 - Internal Bracing - Engineer & Peer Reviewer Information & Qualifications TG0300-541 - Internal Bracing - 50% Design Dwg's & Calculations TG0300-542 - Internal Bracing - 100% Design TG0300-543 - Internal Bracing - Installer Qualification, QC/Construction, & Inspection Plan TG0300-544 - Internal Bracing - Manufacturer's Certifications or Coupon Testing TG0300-545 - Internal Bracing - Preloading Procedures TG0300-546 - Internal Bracing - Qualifications of Welders TG0300-547 - Internal Bracing - Welding Procedures TG0300-548 - Internal Bracing - Welding Procedures (Shop Welding) TG0300-549 - Internal Bracing - Welding Procedures - Add'l TG0300-550 - Internal Bracing - Re-Bracing TG0300-551 - Internal Bracing Erection Dwg's.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53400	TG03	Install Walers (Internal Bracing)	Initial A	BBII	1/13/2012	1/13/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53400	TG03	Install Walers (Internal Bracing)	Initial B	BBII	TBD		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10680	TG03	Mass Excavation/Wood Pile Extraction	Preparatory	BBII	12/14/2011	12/14/2011	TG0300-420 - Mass Excavation - Qualified Person and Quality Plan TG0300-430 - Mass Exc. - Material Samples TG0300-440 - Mass Exc. - Material Backfill TG0300-450 - Mass Exc. - LEED TG0300-460 - Mass Exc. - Work Plan TG0300-480 - Earthwork - Close Out
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52300	TG03	Mass Excavation/Wood Pile Extraction	Initial	BBII	1/13/2012	1/13/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17600	TG03	Install Pin Piles	Preparatory	BBII	1/25/2012	1/25/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pin Pile & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53300	TG03	Install Pin Piles	Initial	BBII	1/27/2012	1/27/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pin Pile & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB15200	TG03	Zone 1 Trestle (Combined with Pin Piles)	Preparatory	BBII	1/25/2012	1/25/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pin Pile & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB52200	TG03	Zone 1 Trestle	Initial	BBII	2/8/2012	2/8/2012	TG0300-280 - Access Trestle TG0300-281 - CLSM Mix for Pin Pile & Trestle Pile Installation TG0300-290 - Access Trestle - Preconstruction Photos
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB10620	TG03	Dewatering	Preparatory	BBII	2/13/2012	3/2/2012	TG0300-520 - Dewatering TG0300-521 - Dewatering - Initial Installation Report TG0300-522 - Dewatering - System Pump Test TG0300-525 - Dewatering - System Pumping Data (Weekly) TG0300-527 - Dewatering - Pre-trenching Only TG0300-530 - Dewatering - Close Out
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53200	TG03	Dewatering	Initial	BBII	2/14/2012	3/2/2012	
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56312	TG03	Trestle Struts / Supports (Part of Bracing)	Preparatory	BBII	2/13/2012	1/3/1900	Submittals for this DFOW are the same as Install Walers BB17300
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56412	TG03	Trestle Struts / Supports (Part of Bracing)	Initial	BBII	2/15/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB56912	TG03	Trestle Superstructure	Preparatory	BBII	4/13/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB57012	TG03	Trestle Superstructure	Initial	BBII	4/19/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB12300	TG03	Test Micropile	Preparatory	BBII	8/31/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42220	TG03	Test Micropile	Initial	BBII	9/5/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42320	TG03	Micropile Production	Preparatory	BBII	10/25/2012		TG0300-620 - Micropiles TG0300-630 - Micropiles - Performance & Proof Test TG0300-640 - Micropiles - Grout Test

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42420	TG03	Micropile Production	Initial	BBII	10/30/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20800	TG03	First Street Bridge	Preparatory	BBII	5/8/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwg & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20900	TG03	First Street Bridge	Initial	BBII	5/11/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwg & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20800	TG03	First Street Bridge	Preparatory	BBII	4/4/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwg & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB20900	TG03	First Street Bridge	Initial	BBII	4/9/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwg & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21000	TG03	First Street Bridge Utilities	Preparatory	BBII	5/8/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21100	TG03	First Street Bridge Utilities	Initial	BBII	5/11/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21000	TG03	First Street Bridge Utilities	Preparatory	BBII	4/4/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB21100	TG03	First Street Bridge Utilities	Initial	BBII	4/9/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48420	TG03	Fremont Street Bridge	Preparatory	BBII	6/20/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48520	TG03	Fremont Street Bridge	Initial	BBII	6/25/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48420	TG03	Fremont Street Bridge	Preparatory	BBII	4/18/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48520	TG03	Fremont Street Bridge	Initial	BBII	4/23/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.



W/O JV Transbay Terminal Center  
DFOW List  
Revision (Revised) 03/27/2012

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48620	TG03	Fremont Street Bridge Utilities	Preparatory	BBII	6/20/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48720	TG03	Fremont Street Bridge Utilities	Initial	BBII	6/25/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48620	TG03	Fremont Street Bridge Utilities	Preparatory	BBII	4/18/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48720	TG03	Fremont Street Bridge Utilities	Initial	BBII	4/23/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.

W/O JV Transbay Terminal Center  
DFOW List  
Revision (Revised) 03/27/2012

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48220	TG03	Beale Street Bridge	Preparatory	BBII	7/2/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53500	TG03	Beale Street Bridge	Initial	BBII	7/6/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB48220	TG03	Beale Sreet Bridge	Preparatory	BBII	5/31/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53500	TG03	Beale Street Bridge	Initial	BBII	6/5/2012	TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53800	TG03	Beale Street Bridge Utilities	Preparatory	BBII	5/31/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53900	TG03	Beale Street Bridge Utilities	Initial	BBII	6/5/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53800	TG03	Beale Street Bridge Utilities	Preparatory	BBII	7/2/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB53900	TG03	Beale Street Bridge Utilities	Initial	BBII	7/6/2012		TG0300-200 - Temp Bridges - Qualifications Data TG0300-201 - Temp Bridges - Struct. Dwgs & Calc TG0300-202 - Temp Bridges - Peer Review TG0300-203 - Temp Bridges - Utility Supports TG0300-204 - Temp Bridges - Traffic Plan - First, Fremont, Beale Streets TG0300-205 - Temp Bridges Geometrics - First, Fremont, Beale Streets TG0300-210 - Temp Bridges - Product Data TG0300-215 - Temp Bridges - Misc. Materials TG0300-220 - MUNI OCS Installation Plan Beale St. TG0300-230 - Temp Bridges - MUNI OCS Installation Plan First St. TG0300-240 - Temp Bridges - Welder AWS Cert. TG0300-244 - Temp Bridges - Steel Manufacturers Certificates or Coupon Tests TG0300-248 - Temp Bridges - Concrete Mix Designs TG0300-250 - Temp Bridges - Rebar Manufacturer Certificates TG0300-260 - Temp Bridges - Preconstruction Photos First St. TG0300-264 - Temp Bridges - Preconstruction Photos Fremont St. TG0300-268 - Temp Bridges - Preconstruction Photos Beale St.
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB12300	TG03	Test Micropiles	Preparatory	BBII	8/27/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42220	TG03	Test Micropiles	Initial	BBII	8/30/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42320	TG03	Production Micropiles	Preparatory	BBII	10/19/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42420	TG03	Production Micropiles	Initial	BBII	10/24/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB11100	TG03	FRP Concrete Mud Slab	Preparatory	BBII	11/20/2012		

**W/O JV Transbay Terminal Center**  
**DFOW List**  
**Revision (Revised) 03/27/2012**

30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42120	TG03	FRP Concrete Mud Slab	Initial	BBII	11/27/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB11100	TG03	FRP Concrete Mud Slab	Preparatory	BBII	11/28/2012		TG0300-340 - Rebar Shop Dwg's - Mud Slab TG0300-350 - Mud Slab Concrete - Submittal Schedule TG0300-355 - Mud Slab Concrete - Mix Design TG0300-360 - Mud Slab Concrete - Joint Locations TG0300-370 - Mud Slab Concrete - Hazardous Materials
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42120	TG03	FRP Concrete Mud Slab	Initial	BBII	12/3/2012		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17100	TG03	Remove Struts	Preparatory	BBII	6/12/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17700	TG03	Remove Struts	Initial	BBII	6/17/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17100	TG03	Remove Struts	Preparatory	BBII	6/11/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	SX-BB17700	TG03	Remove Struts	Initial	BBII	6/14/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB10600	TG03	Struct. Removal	Preparatory	BBII	6/12/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42520	TG03	Struct. Removal	Initial	BBII	6/17/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB10600	TG03	Struct. Removal	Preparatory	BBII	6/13/2013		
30.100.01	Transit Center Building - Buttress/Shoring/Excavation	BG-BB42520	TG03	Struct. Removal	Initial	BBII	6/18/2013		
30.100.03	Relocation Utilities Packages	UT-002610	TG04.1	Water Natoma & Fremont Street	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002810	TG04.1	Water Natoma & Fremont Street	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002910	TG04.1	Sewer Natoma & Fremont	Preparatory	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-003310	TG04.1	Sewer Natoma & Fremont	Initial	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-213800	TG04.2	Trench and Excavation	Preparatory	M <sup>2</sup>	2/21/2012		
30.100.03	Relocation Utilities Packages	UT-214500	TG04.2	Trench and Excavation	Initial	M <sup>2</sup>	2/24/2012		
30.100.03	Relocation Utilities Packages	UT-213800	TG04.2	Trench and Excavation	Preparatory	M2	3/19/2012	3/26/2012	TG0402-020-Dewatering Plan TG0434-024-Proposed Method of Ptholing TG0404-003-Formwork Material TG0434-002-Pipe Bedding (Crushed Rock)-Sample TG0434-003-Pipe Bedding (Crushed Rock)-Test Reports TG0434-005-Shoring Plan by Licensed CA Engineer
30.100.03	Relocation Utilities Packages	UT-214500	TG04.2	Trench and Excavation	Initial	M2	3/22/2012		
30.100.03	Relocation Utilities Packages	UT-208100	TG04.2	CIP Concrete	Preparatory	M <sup>2</sup>	2/21/2012		
30.100.03	Relocation Utilities Packages	UT-208200	TG04.2	CIP Concrete	Initial	M <sup>2</sup>	3/5/2012		
30.100.03	Relocation Utilities Packages	UT-208100	TG04.2	CIP Concrete	Preparatory	M2	3/19/2012		
30.100.03	Relocation Utilities Packages	UT-208200	TG04.2	CIP Concrete	Initial	M2	3/30/2012		
30.100.03	Relocation Utilities Packages	UT-208000	TG04.2	Pipe Stop Welding	Preparatory	M <sup>2</sup>	2/21/2012	3/26/2012	TG0402-013-Welder Certification TG0402-008-Sample 8" pipe w/welded stops
30.100.03	Relocation Utilities Packages	UT-214600	TG04.2	Pipe Stop Welding	Initial	M <sup>2</sup>	3/8/2012		
30.100.03	Relocation Utilities Packages	UT-208000	TG04.2	Pipe Stop Welding	Preparatory	M2	3/19/2012		
30.100.03	Relocation Utilities Packages	UT-214600	TG04.2	Pipe Stop Welding	Initial	M2	4/4/2012		
30.100.03	Relocation Utilities Packages	UT-208300	TG04.2	Pipe Installation	Preparatory	M <sup>2</sup>	2/21/2012	3/26/2012	
30.100.03	Relocation Utilities Packages	UT-208400	TG04.2	Pipe Installation	Initial	M <sup>2</sup>	3/8/2012		
30.100.03	Relocation Utilities Packages	UT-208300	TG04.2	Pipe Installation	Preparatory	M2	3/19/2012		
30.100.03	Relocation Utilities Packages	UT-208400	TG04.2	Pipe Installation	Initial	M2	4/4/2012		
30.100.03	Relocation Utilities Packages	UT-208500	TG04.2	Testing and Comissioning	Preparatory	M <sup>2</sup>	6/13/2012		
30.100.03	Relocation Utilities Packages	UT-208600	TG04.2	Testing and Comissioning	Initial	M <sup>2</sup>	6/14/2012		
30.100.03	Relocation Utilities Packages	UT-208500	TG04.2	Testing and Comissioning	Preparatory	M2	7/11/2012		
30.100.03	Relocation Utilities Packages	UT-208600	TG04.2	Testing and Comissioning	Initial	M2	7/12/2012		
30.100.03	Relocation Utilities Packages	UT-030500	TG04.3	Water Howard and Beale Streets	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-030600	TG04.3	Water Howard and Beale Streets	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	

W/O JV Transbay Terminal Center  
DFOW List  
Revision (Revised) 03/27/2012

30.100.03	Relocation Utilities Packages	UT-041400	TG04.4	Water on Natoma, First Streets	Preparatory	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-041500	TG04.4	Water on Natoma, First Streets	Initial	M <sup>2</sup>	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-041000	TG04.4	Sewer on Natoma	Preparatory	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-041100	TG04.4	Sewer on Natoma	Initial	M <sup>2</sup>	2/4/2011	2/4/2011	
30.100.03	Relocation Utilities Packages	UT-203700	TG04.4	AWSS Cap	Preparatory	M <sup>2</sup>	3/3/2011	3/3/2011	
30.100.03	Relocation Utilities Packages	UT-203800	TG04.4	AWSS Cap	Initial	M <sup>2</sup>	3/3/2011	3/3/2011	
30.100.03	Relocation Utilities Packages	UT-002830	TG04.6	Sewer/Sludge	Preparatory	M <sup>2</sup>	3/23/2012		
30.100.03	Relocation Utilities Packages	UT-002930	TG04.6	Sewer/Sludge	Initial	M <sup>2</sup>	3/28/2012		
30.100.03	Relocation Utilities Packages	UT-002830	TG04.6	Sewer/Sludge	Preparatory	M2	5/2/2012		
30.100.03	Relocation Utilities Packages	UT-001220	TG04.5.1	Sewer Minna Street	Preparatory	Trinet	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-002820	TG04.5.1	Sewer Minna Street	Initial	Trinet	1/13/2011	1/13/2011	
30.100.03	Relocation Utilities Packages	UT-001399	TG04.5.1	Joint Trench Minna Street	Preparatory	Trinet	2/3/2011	2/3/2011	
30.100.03	Relocation Utilities Packages	UT-001499	TG04.5.1	Joint Trench Minna Street	Initial	Trinet	2/3/2011	2/3/2011	
30.100.03	Relocation Utilities Packages	UT-002930	TG04.6	Sewer/Sludge	Initial		5/7/2012		
30.100.01	Transit Center Building - 301 Mission Wall	MW-101400	TG19.1	301 Mission Wall Relocation	Preparatory	Transworld	2/7/2011	2/7/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101300	TG19.1	301 Mission Wall Relocation	Initial	Transworld	2/7/2011	2/7/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101100	TG19.1	301 Mission Wall Waterproofing	Preparatory	Transworld	6/16/2011	6/16/2011	
30.100.01	Transit Center Building - 301 Mission Wall	MW-101200	TG19.1	301 Mission Wall Waterproofing	Initial	Transworld	6/16/2011	6/16/2011	
30.100.05	Bus Ramps	BR-000300	TBD	Bus Ramps	Preparatory	TBD	1/29/2014		
30.100.05	Bus Ramps	BR-000400	TBD	Bus Ramps	Initial	TBD	2/3/2014		
30.100.05	Bus Ramps								

## 10. TRAINING



## **10. TRAINING**

### **TRAINING**

Webcor/Obayashi JV will ensure that only knowledgeable capable employees carry out the planning and execution of the work.

- Trade Subcontractor CQC Managers will provide training on the elements of the Webcor/Obayashi JV and Trade Subcontractors site specific Contractor's Quality Control Plans to all trade subcontractor staff having CQC responsibilities.
- When specified in the Contract Documents, Trade Subcontractor CQC Managers will submit proof of tradespersons qualifications including licensing requirements, certifications or other required training qualifications for the specified task to Webcor /Obayashi JV and the TJPA.
- When specified in the Contract Documents, project or task specific training will be documented by the Trade Subcontractor. The Trade Subcontractor will provide Webcor/Obayashi JV with a copy of the training syllabus and list of attendees.
- Webcor/Obayashi JV Quality Control personnel will complete the U.S. Army Corps of Engineers/U.S. Navy Facilities Engineering Command, Construction Quality Management for Contractors (or equivalent).

## 11. DESIGN CONTROL



## **11. DESIGN CONTROL**

### **DESIGN CONTROL**

Design control by Webcor/Obayashi is accomplished by the daily maintenance of an accurate set of As-Built drawings by the Trade-Subcontractors per specification section 01 17 20 “Project As-Built Drawings” Summarized here as follows:

- The Trade Subcontractors shall keep an accurately marked, up-to-date set of as-built drawings for the work actually installed, and accurately indicate on as-built drawings all site conditions, locations of utilities, work scope changes, changes in dimensions, locations, and elevations of the Work, and changes in details as specified herein and as approved by the TJPA Representative. Trade Subcontractor shall keep the as-built drawings current as the Work is performed.
- Prior to acceptance of the Work, Trade Subcontractor shall furnish to the Webcor/Obayashi JV CQC Manager the final as-built drawings, showing all changes in the Contract Drawings neatly in red ink.
- Trade Subcontractors will delegate responsibility for maintenance, coordination, and accuracy of the as-built drawings to one person on their staff.
- Accuracy of as-built drawings shall be such that future searches for items shown on the Contract Documents may rely on information obtained from the approved as-built drawings.
- Trade Subcontractors shall store as-built drawings apart from documents used for performing the work; keep in a dry, legible condition, and in good order. Label each document “AS-BUILT DRAWINGS— JOB SET” in large, neatly printed letters.
- Trade Subcontractors shall record neatly on the as-built drawings all changes made by clarifications, Change Orders, Requests for Information, and other Modifications to the Contract Documents; and changes to reflect the actual existing conditions and utility locations references to permanent accessible features of the Work.
- Trade Subcontractors shall clearly describe changes on as-built drawings by note as required.
- Trade Subcontractors shall date all entries, calling attention to the entry by a “cloud” drawn around the area or areas affected.
- Trade Subcontractors shall record in each Specification Section the manufacturer, trade name, catalog number, and supplier of each product and equipment item incorporated into the Work.
- Trade Subcontractors shall furnish a copy of the final shop drawings which have been updated to show actual conditions. Furnish additional drawings as necessary to record deviations from the sizes, locations, and other features of the Work and to locate piping, conduit, ductwork, and similar elements of utility installations by dimensions referenced to permanent accessible features of the Work.
- Trade Subcontractors shall show on the job set of as-built drawings, by dimension accurate to within 1 inch, the centerline of each run of conduits, circuits, piping, ducts, and similar items which are shown schematically on the Contract Drawings but where the final physical arrangement is determined by Trade Subcontractor.

- Trade Subcontractors shall keep as-built drawings up to date during the entire progress of the Work, and provide access for monthly. Updates shall be accurate and current and be done at the time work is performed.
- Trade Subcontractors shall also update and include the revised or newly issued drawings as part of the as built drawings. The work of reproducing and issuing Change Order drawings and updating of as built drawings shall be done as incidental work.

## 12. FORMS



## **12 FORMS**

### **OVERVIEW**

The forms in this section are approved for use in Webcor/Obayashi's CQC program.

### **FORMS**

- Submittals Checklist – Used for each submittal to ensure completeness of documents before distribution and transmission to TJPA.
- Daily CQC Report – Completed daily by Webcor/Obayashi and/or Trade Subcontractors CQC Management. Report is signed and dated by Webcor/Obayashi CQC Manager and submitted within 5 working days to TJPA Representative via Constructware.
- Non-Conformance Report – Completed as necessary to report and track non-conforming work. Webcor/Obayashi JV tracks this report in CMiC and submits to TJPA Representative via Constructware.
- Preparatory Phase Checklist- Used by the Trade Subcontractors to plan and conduct Preparatory Phase Meetings
- Initial Phase Checklist- Used by the Trade Subcontractors to plan and conduct Initial Phase Meetings



## SUBMITTAL PROCESS CHECKLIST

Submittal Package No.: \_\_\_\_\_ Date Received: \_\_\_\_\_

Submittal Name: \_\_\_\_\_

☐ Review each submittal to:

- ☐ Verify that the submittal's contents match the accompanying transmittal. Did we receive everything listed on the transmittal?
- ☐ Verify that the submittal's contents are complete per the submittal register. Important: submittal packages need to be complete and should include all information necessary for review. Partial submittals are to be rejected by W/O (if we don't the TJPA will).
- ☐ Verify that the contents of the submittal are in conformance with the technical specifications and other appropriate contract documents.
- ☐ Is the Submittal a Substitution?
  - ☐ No- Continue Processing Submittal
  - ☐ Yes -Reject submittals that are substitution requests- There is a separate process for substitutions.
- ☐ Verify that the trade subcontractor has checked and coordinated all dimensions, materials, field measurements, with the requirements of the Work and the Contract Documents.
- ☐ Verify that the submittal complies with the requirements of reference specifications –SFDPW, PG&E etc.
- ☐ Confirm that all professional certifications (stamp) w/license number and expiration date are provided and signed if required.
- ☐ Note any variations from the Contract requirements (if there are create an issue in CMiC)
- ☐ Address all questions raised or noted in the submittals; requests to verify dimensions, etc. If there are questions with the submittal:
  - ☐ Can the questions be answered by W/O?
  - ☐ Does an RFI need to be submitted?
  - ☐ Does an issue need to be created in CMiC?
  - ☐ Identify who is responsible for answering the question
- ☐ Identify all affected and adjacent trades that can be potentially impacted by submittal. Develop an action plan to coordinate submittal information with ALL affected and adjacent trades.
- ☐ If the submittal is complete, stamp the first page of each item. If it is shop drawings, all sheets must be stamped.

Trade Scope Superintendent: \_\_\_\_\_

Date: \_\_\_\_\_

Trade Scope PM: \_\_\_\_\_

Date: \_\_\_\_\_

CQC Manager: \_\_\_\_\_

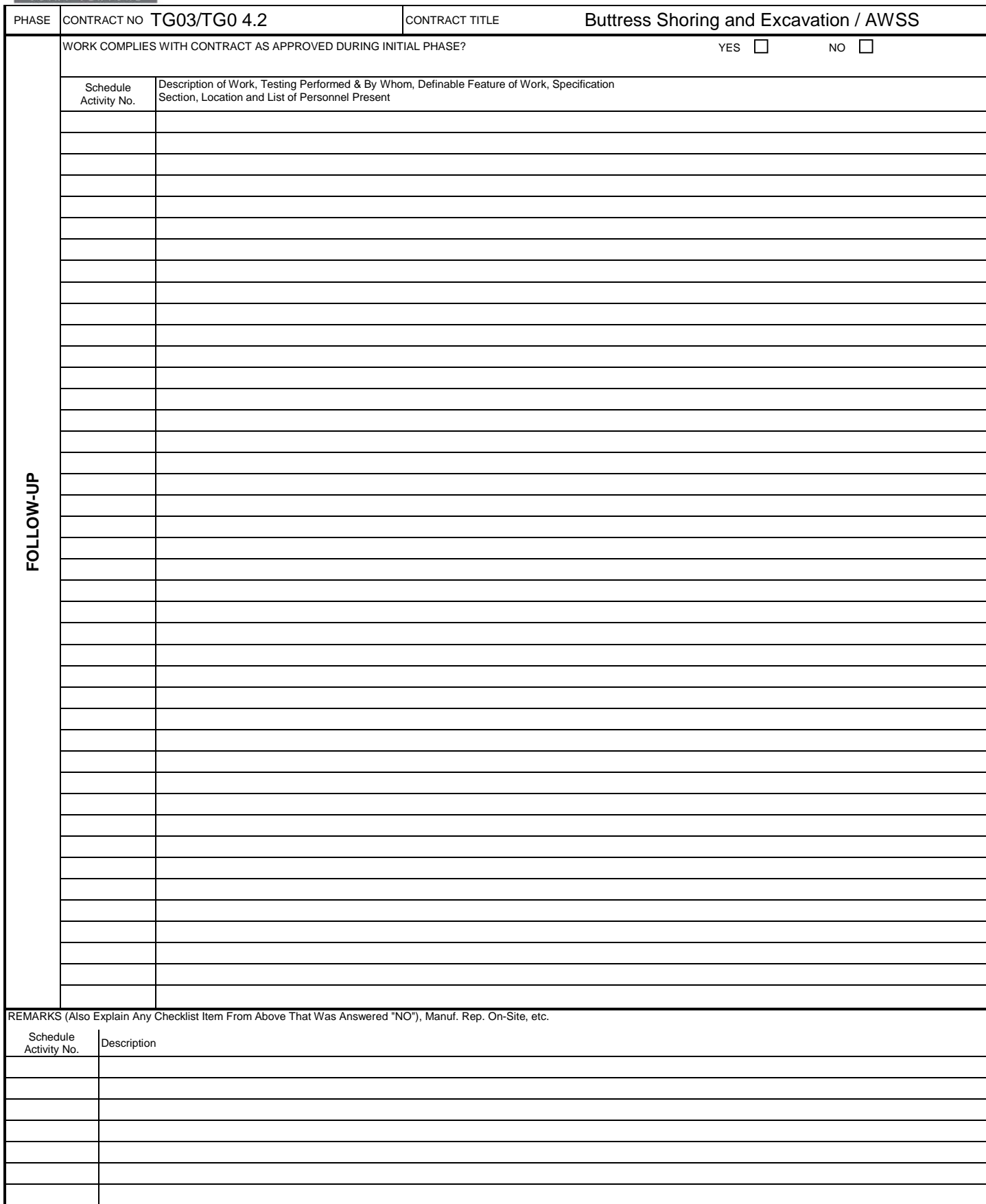
Date: \_\_\_\_\_

O  
U

.....)

<b>CONTRACTOR QUALITY CONTROL REPORT</b> (ATTACH ADDITIONAL SHEETS IF NECESSARY)				DATE <b>3/14/12</b>	
PHASE	CONTRACT NO		CONTRACT TITLE		
<b>PREPARATORY</b>	WAS PREPARATORY PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES, FILL OUT AND ATTACH SUPPLEMENTAL PREPARATORY PHASE CHECKLIST.				
	Schedule Activity No.	Definable Feature of Work			
<b>INITIAL</b>	WAS INITIAL PHASE WORK PERFORMED TODAY? YES <input type="checkbox"/> NO <input type="checkbox"/> IF YES, FILL OUT AND ATTACH SUPPLEMENTAL INITIAL PHASE CHECKLIST.				
	Schedule Activity No.				
<b>FOLLOW-UP</b>	WORK COMPLIES WITH CONTRACT AS APPROVED DURING INITIAL PHASE? YES <input type="checkbox"/> NO <input type="checkbox"/>				
	Schedule Activity No.	Description of Work, Testing Performed & By Whom, Definable Feature of Work, Specification Section, Location and List of Personnel Present,			
<b>REWORK ITEMS IDENTIFIED TODAY (NOT CORRECTED BY CLOSE OF BUSINESS, ENTER REWORK ITEMS IN VELA)</b> Vela Issue No.    Description		<b>REWORK ITEMS CORRECTED IN PROGRESS TODAY (FROM REWORK ITEMS LIST, IF COMPLETE RECORD CORRECTION IN VELA)</b> Vela Issue No.    Description			
<b>REMARKS (Also Explain Any Follow-Up Phase Checklist Item From Above That Was Answered "NO"), Manuf. Rep On-Site, etc.</b> Schedule Activity No.    Description					
On behalf of Webcor/Obayashi, I certify that this report is complete and correct and equipment and material used and work performed during this reporting period is in compliance with the contract drawings and specifications to the best of my knowledge except as noted in this report. <div style="float: right; width: 40%;">             _____              WEBCOR QC REPRESENTATIVE                      DATE           </div>					
<b>WEBCOR/OBAYASHI QUALITY CONTROL MANAGERS REMARKS AND/OR EXCEPTIONS TO THE REPORT</b> Schedule Activity No.    Description					
_____ WEBCOR/OBAYASHI JV CQC MANAGER: Bob Garcia                      DATE					

<b>CONTRACTOR QUALITY CONTROL REPORT</b> (CONTINUATION SHEET) (ATTACH ADDITIONAL SHEETS IF NECESSARY)		DATE
---	--	------



W/O # \_\_\_\_\_

Contact CMO QA Manager for assigned Number **NCR #** \_\_\_\_\_**Contract No.** \_\_\_\_\_ **Contractor/Sub(s)** \_\_\_\_\_**Dwg/Spec/Code** \_\_\_\_\_ **Location** \_\_\_\_\_**Reference #s** \_\_\_\_\_**Part/Lot No.** \_\_\_\_\_ **Quantity** \_\_\_\_\_ **Supplier** \_\_\_\_\_ **P.O.** \_\_\_\_\_**Initiated by/Co** \_\_\_\_\_ **Date Issued** \_\_\_\_\_**Description of Non-Conformance****Code** \_\_\_\_\_

See QMS QA-08-3

**Cause:****Code** \_\_\_\_\_

See QMS QA-08-3

**Recommended Field Engineering Disposition**☐ **Rework**  
Fix to meet specifications☐ **Reject**  
Remove and Replace

—Engineer of Record Approval Required—

☐ **Accept-As-Is**☐ **Repair**  
Attach proposed CA plan**Resolve as Follows:****Field Engineer** \_\_\_\_\_ **Date** \_\_\_\_\_**Engineer of Record Disposition**☐ **Repair**  
Fix but not to specifications☐ **Accept-As-Is****Resolve as Follows:****Engineer of Record** \_\_\_\_\_ **Date** \_\_\_\_\_**Program QA Concurrence** \_\_\_\_\_ **Date** \_\_\_\_\_**Disposition Results****CMO/PMPC Inspector/RE** \_\_\_\_\_ **Date** \_\_\_\_\_**Corrective Action (CA) to prevent recurrence****Verified/Inspection of CA** \_\_\_\_\_ **Date** \_\_\_\_\_



## Non-Conformance Codes

### ASSEMBLY

- 001 Interference/Improper Fit
- 002 Dis-bonding/Adhesive Defect
- 003 Incorrect Part Used
- 004 Assembly Error
- 005 Soldering Failure
- 006
- 007
- 008
- 009
- 010 Other Assembly Related Defect

### CERTIFICATION / DOCUMENTATION

- 011 Information Missing
- 012 Information Incorrect
- 013 Information Illegible
- 014 Material Incorrect
- 015 Inspection/Test Incorrect
- 016 Data Out-Of-Spec.
- 017
- 018
- 019
- 020 Other Cert./Documentation Error

### DIMENSIONAL

- 021 Thickness—Over/Under Size
- 022 Diameter – Over/Under Size
- 023 Length/Width—Over/Under Size
- 024 Depth Incorrect
- 025 Slope Incorrect
- 026 Angle Incorrect
- 027 Feature/Item Missing
- 028 Position/Location Incorrect
- 029 Radius Over/Under Size or Missing
- 030 Other Dimensional Defect

### INSTALLATION

- 031 Missing Hardware
- 032 Missing Equipment
- 033 Non-Standard Installation
- 034 Incomplete Installation
- 035 Non-Conforming Materials Used
- 036 Equipment Damaged
- 037 Incorrect Location
- 038 Incorrect Orientation
- 039
- 040 Other Installation Defect

### INSTALLATION / TEST FAILURE

- 041 Inspection/Test Equipment Failure
- 042 Equipment Not Calibrated
- 043 Procedural
- 044 Under-Test Condition
- 045 Electrical Test Failure
- 046 Leak Test Failure
- 047 Environmental Test Failure
- 048 Functional Test Failure
- 049 Mechanical Test Failure
- 050 Other Inspection/Test Failure**

### MATERIAL / SOILS

- 051 Incorrect Material Used
- 052 Material Contaminated
- 053 Gradation Test Failure
- 054 Moisture Test Failure
- 055 Density (Compaction) Test
- 056 Sand Equivalent Test Failure
- 057 Organic Content of Soils
- 058 Durability Index
- 059 Resistance (R-value)
- 060 Other Material Defect

### MATERIALS / CONCRETE & STEEL

- 061 Incorrect Materials Used
- 062 Concrete Slump Test Failure
- 063 Concrete Air Content
- 064 Concrete Compressive Strength Test Failure
- 065 Drying Shrinkage of Concrete
- 066 Concrete Honeycombing
- 067 Concrete Rock-Pocket/Voids
- 068 Mis-fabricated Reinforcing Steel Assemblies
- 069 Missing or Incorrect Reinforcing Steel
- 070 Other Material Defects

### NON-DESTRUCTIVE EXAMINATION (NDE)

- 071 Cracked Welds
- 072 Foreign Material
- 073 Component Gap/Fit-up Defect
- 074 Undercut
- 075 Porosity/Slag
- 076 Lack of Penetration/Fusion
- 077 Discontinuities
- 078 Voids
- 079 Delamination
- 080 Other NDE Indications

### SURFACE DEFECTS

- 081 Discoloration
- 082 Blisters
- 083 Sparing
- 084 Burrs/Chips/Nicks
- 085 Damaged/Bent/Torn/Twisted
- 086 Contaminated
- 087 Foreign Material
- 088 Plating/Coating Defects
- 089 Cracks
- 090 Surface Irregular/Finish

### VISUAL & OTHER DEFICIENCIES

- 091
- 092
- 093
- 094
- 095
- 096
- 097
- 098
- 099
- 100 Other Visual Anomaly**



TESTING	IDENTIFY TEST TO BE PERFORMED, FREQUENCY, AND BY WHOM.	
	WHEN REQUIRED?	
	WHERE REQUIRED?	
	REVIEW TESTING PLAN.	
	HAS TEST FACILITIES BEEN APPROVED?	
SAFETY	ACTIVITY HAZARD ANALYSIS APPROVED?	YES <input type="checkbox"/> NO <input type="checkbox"/>
	REVIEW APPLICABLE PORTION OF EM 385-1-1.	
MEETING COMMENTS	NAVY/ROICC COMMENTS DURING MEETING.	
OTHER ITEMS OR REMARKS	OTHER ITEMS OR REMARKS:	
QC MANAGER _____ DATE _____		

INITIAL PHASE CHECKLIST		SPEC SECTION	DATE
CONTRACT NO		DEFINABLE FEATURE OF WORK	SCHEDULE ACT NO.
		INDEX #	
PERSONNEL PRESENT	GOVERNMENT REP NOTIFIED _____ HOURS IN ADVANCE: YES <input type="checkbox"/> NO <input type="checkbox"/>		
	NAME	POSITION	COMPANY/GOVERNMENT
PROCEDURE COMPLIANCE	IDENTIFY FULL COMPLIANCE WITH PROCEDURES IDENTIFIED AT PREPARATORY. COORDINATE PLANS, SPECIFICATIONS, AND SUBMITTALS.		
	COMMENTS: _____		
PRELIMINARY WORK	ENSURE PRELIMINARY WORK IS COMPLETE AND CORRECT. IF NOT, WHAT ACTION IS TAKEN?		
WORKMANSHIP	ESTABLISH LEVEL OF WORKMANSHIP.		
	WHERE IS WORK LOCATED? _____		
	IS SAMPLE PANEL REQUIRED? YES <input type="checkbox"/> NO <input type="checkbox"/>		
	WILL THE INITIAL WORK BE CONSIDERED AS A SAMPLE? YES <input type="checkbox"/> NO <input type="checkbox"/>		
	(IF YES, MAINTAIN IN PRESENT CONDITION AS LONG AS POSSIBLE AND DESCRIBE LOCATION OF SAMPLE) _____		
RESOLUTION	RESOLVE ANY DIFFERENCES.		
	COMMENTS: _____		
CHECK SAFETY	REVIEW JOB CONDITIONS USING EM 385-1-1 AND JOB HAZARD ANALYSIS		
	COMMENTS: _____		
OTHER	OTHER ITEMS OR REMARKS		
<div style="display: flex; justify-content: space-between;"> <span>QC MANAGER _____</span> <span>DATE _____</span> </div>			

# Construction Stormwater Pollution Control/Compliance Plan

## Transbay Transit Center Project San Francisco, California

---



Prepared for:  
Webcor /Obayashi

Prepared by:



6h 1 W 24 PM 1 49

WASTEWATER ENTERPRISE  
COLLECTION SYSTEM DIVISION

Approved as "NOT"

February 2011

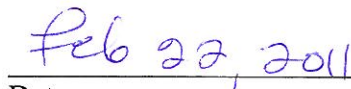
**Transbay Transit Center  
San Francisco, California**

## **Construction Stormwater Pollution Control/Compliance Plan**

Submitted to:  
Webcor /Obayashi

This report has been prepared by or under the supervision of the following Qualified Storm Water Pollution Prevention Developer and Construction General Permit Trainer of Record.

  
Debra Carey, QSD, ToR, CEG

  
Date

February 2011

## Table of Contents

1	Regulatory Setting .....	1
2	Project Information .....	3
2.2	Project Description.....	3
2.3	Project Size and Total Disturbed Area.....	5
2.4	Receiving Waters and Environmentally Sensitive Areas .....	9
2.5	Construction Activities and Schedule .....	9
2.6	Potential Construction Site Pollutant Sources .....	10
2.7	Identification of Non-Storm Water Discharges .....	12
3	Best management Practices (BMPs).....	13
3.2	BMP Objectives .....	13
3.2.1	Erosion Control BMPs.....	14
3.2.2	Sediment Control BMPs .....	14
3.2.3	Tracking Control BMPs.....	15
3.2.4	Wind Erosion Control BMPs.....	15
3.2.5	Non-Storm Water Control BMPs .....	15
3.2.6	Waste Management/Materials Control BMPs.....	16
4	BMP Inspection, Maintenance and Record Keeping.....	18
5	List of Contractors/Subcontractors .....	20
6	Instructions to Field Personnel .....	22
7	Closing .....	23

## Figures

Figure 1. Project Location Map .....	4
Figure 2. Construction Zone Locations .....	6
Figure 3. Utilities DSA Map.....	7
Figure 4. Staging DSA Map.....	8

## Tables

Table 1. Total Land Disturbance .....	5
Table 2. Potential Stormwater Pollutants.....	11
Table 3. Construction Sediment Control BMPs .....	15
Table 4. Waste Management and Material Handling Control BMPs .....	17
Table 5. Trade Subcontractor Maintenance, Monitoring and Repair Procedures.....	18

## Appendices

Appendix A	Inlet Locations
Appendix B	Construction Stormwater Controls Monitoring Checklist
Appendix C	SFPUC Construction Pollution Prevention Guide

# 1 REGULATORY SETTING

The Transbay Transit Center Project (Project) meets federal Clean Water Act (CWA) and State Porter – Cologne Water Quality Control requirements via connection to the combined wastewater and stormwater sewer system operated by the San Francisco Public Utilities Commission (SFPUC) under a State Water Resources Control Board-issued National Pollutant Discharge Elimination System (NPDES) permit (Order No. R2-2002-0073, NPDES Permit No CA0037664). The Project is therefore not subject to coverage under the California Construction General Stormwater Permit (Order 2009-0009-DWG), that became effective on July 1, 2010; however, the construction site must implement Best Management Practices (BMPs) to prevent pollutant discharge into the combined sewer to comply with the San Francisco municipal ordinances and codes described below. This Construction Stormwater Pollution Control/Compliance Plan provides a delegation strategy along with best management practice (BMP) categories for compliance with stormwater regulations covering construction activities at the Project.

## **San Francisco Ordinance**

San Francisco has a Stormwater Discharge Controls Ordinance requiring Pollution Prevention Procedures during any construction conducted in the City of San Francisco. In general the ordinance discusses long term BMPs such as rain gardens and green roofs particularly applicable to redevelopment areas and sections of the City serviced by small municipal separate storm sewer systems (MS4); however aspects of the ordinance apply to construction activities. For example, although coverage under the NPDES General Construction Permit (Water Board Order No. 99-08-DWQ) is not required for projects in those areas of the city that drain to the combined sewer system; all construction sites must implement BMPs to prevent illicit discharge into the combined sewer. Generally, City requirements include the development of a Storm Water Pollution Prevention Plan (SWPPP), SWPPP plan review by SFPUC, stormwater treatment measures, runoff monitoring, and frequent site inspections. The regulations also require the use of construction period (and operational period) BMPs on construction sites to keep pollutants (sediment and construction site debris), out of water conveyance systems, the treatment plants, and discharge points.

## **San Francisco Public Works Code**

The federal CWA requires that publicly-owned treatment works (POTW) regulate the discharge of industrial wastes into a sewer system subject to NPDES permit requirements, and since construction activity is regulated under the industrial category, San Francisco's department of public works (DPW) has adopted requirements for construction discharges to the combined sewer system. Under DPW regulations, discharges of construction storm water as well as any wastewater (such as dewatering from construction sites) is subject to the requirements of Article 4.1 of the San Francisco Public Works Code, which regulates the quantity and quality of discharges to the combined sewer system. Projects that conduct any dewatering activity are required to apply for a Wastewater Batch Discharge Permit from the SF PUC WWC\_CSD. Information on the Batch Discharge Permit and pre-treatment can be found online at: [http://sfwater.org/msc\\_main.cfm/MC\\_ID/14/MSC\\_ID/445](http://sfwater.org/msc_main.cfm/MC_ID/14/MSC_ID/445).



Order No. 158170 of the San Francisco DPW provides additional pre-treatment industrial waste discharge limits to augment those listed in Article 4.1. The San Francisco Municipal Code requires contractors to have a Sediment and Erosion Control Plan for projects that discharge to the Combined Sewer System.

## **RESPONSIBLE PARTIES**

The legally Responsible Party for the Project is the Transbay Joint Powers Authority (TJPA). The TJPA consists of a collaboration of Bay Area government and transportation agencies, and is managed by TJPA staff and overseen by a Board of Directors. For site-specific concerns that can be addressed by TJPA, please call **415.409.TJPA (8572)**.

Webcor /Obayashi is a joint venture contracting group hired by TJPA as general contractor for the Transbay Terminal Center Phase of the Project. Webcor /Obayashi will be subcontracting construction to Trade Subcontractors who will be responsible for preparing SWPPPs specific to their construction activity, schedule, discharge points, types of pollutants and construction boundaries. The Trade Subcontractors will be responsible for preparing and submitting for approval a SWPPP including furnishing, installing, maintaining and removing BMPs such as silt fence, filter boxes, construction entrances, sediment traps, dust control, dewatering and other erosion and sediment control measures during construction to prevent contamination of storm water from construction activities and to maintain compliance with the SF storm water ordinance and codes. For site-specific NPDES concerns that can be addressed by Webcor/Obayashi, please call **415.978.5726**.

## **2 PROJECT INFORMATION**

### **2.2 Project Description**

The Project is located generally between Second Street in the west, Beale Street in the east, Natoma Street in the south and Minna Street in the north (Figure 1). The Project is part of a larger \$4 billion transportation and housing expansion/redevelopment effort that will replace an old Transbay Terminal at First and Mission streets with a modern regional transit hub connecting eight Bay Area counties and the State of California through 11 transit systems: AC Transit, BART, Caltrain, Golden Gate Transit, Greyhound, Muni, SamTrans, WestCAT Lynx, Amtrak, Paratransit and future High Speed Rail from San Francisco to Los Angeles/Anaheim.

The entire Project consists of three broad activities as noted below. Webcor /Obayashi are the general contractors and have prepared this Construction Stormwater Pollution Control/Compliance Plan to provide for compliance with stormwater regulations covering construction activities.

- **Utility Relocation**
- **Train Box and Transit Center Building Construction**
- **Bus Ramp Construction**



## 2.3 Project Size and Total Disturbed Area

The estimated total disturbed soil area (DSA) for the Project is approximately 12.3 acres and includes the areas where the soil might be potentially disturbed by construction activities, as follows:

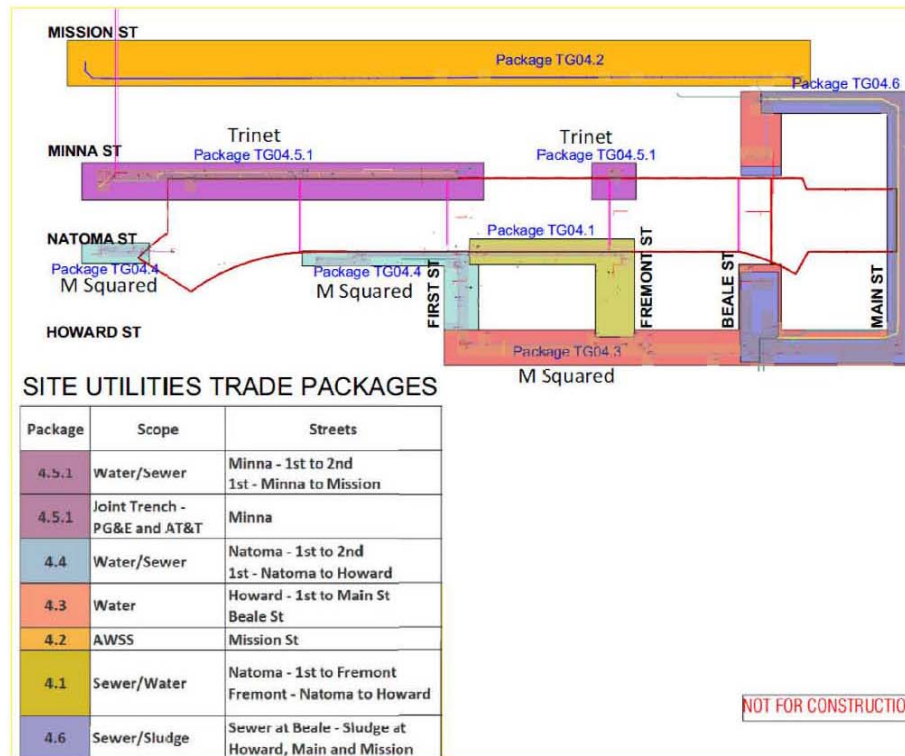
**Table 1. Total Land Disturbance**

<b>Area Name</b>	<b>Approximate Area Disturbed (Acres)</b>
Zone 1	2
Zone 2	1.8
Zone 3	1.5
Zone 4	4
Linear Utility Relocation	2.5
Additional Staging/Disturbance	3
<b>Total</b>	<b>12.3</b>

Figures 2 and 3 show general locations for the DSA construction zones and linear utility relocation trade packages. Several staging areas are anticipated during the life of the Project as shown in Figure 4.

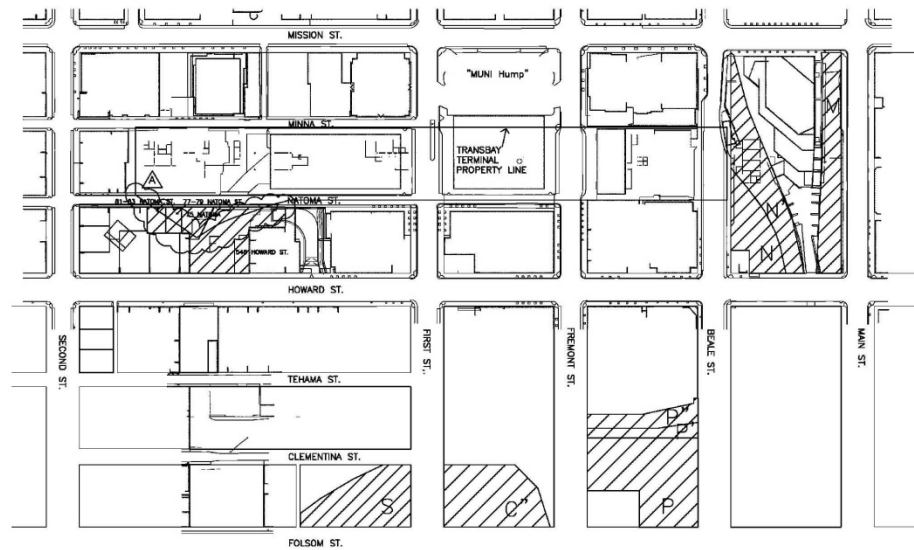






DATE	MARK	REVISION	INIT.	Design by Drawn by Checked by Reviewed by Date: January 2011	Signature:  1543 ALPINE RD., SUITE 108 BERKELEY, CA 94705 PH (925) 941-0017 FAX (925) 941-0018	 <b>Transbay Transit Center</b>	CITY OF SAN FRANCISCO PROJECT NO. XXX-XXXX <b>TRANSBAY TRANSIT CENTER</b> STORMWATER POLLUTION CONTROL AND COMPLIANCE PLAN	UTILITIES DSA MAP SCALE: _____ SHEET No. 4
------	------	----------	-------	--	--	------------------------------------	--	---

**Figure 3. Utilities DSA Map**



#### General Notes

1. Table shown is information from 01 14 19 Restriction to use of Site Areas.
2. "MUNI Hump" will be made available to the CM/GC as needed for direct construction activities. Currently, it is available to the demolition contractor until spring 2011. After that it becomes available during shoring wall installation activities. Following this area will be made available to the CM/GC for other ongoing construction activities until such time as development of this parcel is ready for construction. That date is not currently known, but it is not expected to occur before the late months of 2012.
3. The property west of Zone 1 is considered part of the construction site and is currently available to the demolition contractor. It will become available to the CM/GC in spring 2011.
4. Staging areas will remain in control of Webster/Obayashi at all times. Arrangements for use of staging areas must be approved in advance by W/O. All arrangements for use of any other properties by Trade Subcontractors will be made by that Trade Subcontractor.

Staging Area	Beginning	Date Available
Parcel C*	5/1/2011	Limited to an area of 100' x 200' until the end of 2011. Allow SFRA access for preconstruction investigations, such as geotech borings; SFRA access for pre-construction investigations, such as geotech borings; SFRA developer will assume control of site in the next 3 to 6 years.
Parcel F	5/1/2011	Completion of ramp construction
Parcel M	12/1/2010	Completion of ramp construction (may be shared with other TUPA users)
Parcels N, N'	5/1/2011	Completion of Transit Center construction
Parcel P, P', P''	11/1/2010	Allow SFRA access for pre-construction investigations, such as geotech borings; SFRA developer will assume control of site for construction - mid 2013
Parcel S	5/1/2011	Allow SFRA access for pre-construction investigations, such as geotech borings; SFRA developer will assume control of site in the next 3 to 6 years.
546 Howard	5/1/2011	Completion of ramp construction
75 Natoma	5/1/2011	Completion of ramp construction
77-79 Natoma	5/1/2011	Completion of ramp construction
81-83 Natoma	5/1/2011	Completion of ramp construction

DATE MARK REVISION INT. January 2011		Prepared by Drawn by Checked by Reduced by	Boundary 	 1345 ALPINE BL. SUITE 100 WAUKEGON, OR 97146 PH (503) 941-0017 FAX (503) 941-0018	 Transbay Transit Center	CITY OF SAN FRANCISCO PROJECT NO. XXX-XXXX TRANSBAY TRANSIT CENTER STORMWATER POLLUTION CONTROL AND COMPLIANCE PLAN	STAGING DSA MAP SCALE: _____ SHEET No. 1 of 1
--------------------------------------	--	---	--------------	---	-----------------------------	---	--

Figure 4. Staging DSA Map

## **2.4 Receiving Waters and Environmentally Sensitive Areas**

The Project is located within the northeastern section of the City of San Francisco. The Project does not discharge directly to jurisdictional “receiving water.” The San Francisco combined sanitary/storm water sewer system collects all storm and waste water discharging in the Project vicinity and pipes the water to the Southeast Water Pollution Control Plant for processing and discharging under NPDES Permit No CA0037664. The SE plant currently treats runoff to secondary treatment standards established by the USEPA, meeting or exceeding water quality objectives in San Francisco Bay.

The San Francisco Bay Area has a climate characterized by wet winters and dry summers. Average annual rainfall in the area is approximately 20 inches. The majority of this rainfall generally occurs from November through April with little rainfall during the remaining months of the year. Construction for the Project will span a period of several years including both wet and dry seasons. The project does not impact any known environmentally or culturally sensitive areas. For information regarding any environmentally sensitive habitat concerns, please refer to the Biological Resource Assessment. For information on cultural or other CEQA or NEPA requirements, please refer to the appropriate State or Federal Agency.

## **2.5 Construction Activities and Schedule**

The Project activities include but are not limited to clearing, excavation and backfill, construction and finishing work within a busy city environment with established infrastructure. Several staging areas are anticipated during the life of the Project. Construction equipment and materials will be stored both onsite and at staging areas. As a result, fueling and maintenance, as well as welding and fabrication, may take place onsite. A discussion of the pollutants with potential to contact storm water as a result of these activities is included below. Since demolition of the existing ramps and terminal is currently underway by another contractor (Evans Bros Inc), the first phase of the Webcor-Obayashi Project includes utility relocation, followed by subexcavation in preparation for construction of the Transit Center Building/Train Box. Construction overseen by Webcor-Obayashi will create a new five-story Transit Center with one above-grade bus level, ground-floor, concourse, and two below-grade rail levels serving Caltrain and future California High Speed Rail, and includes new bus ramps to connect the Transit Center to a new off-site bus storage facility and the SF-Oakland Bay Bridge. Construction of the Project should be completed within or near the year 2017.

The following list generally outlines the expected Project construction schedule:

1. Utility relocation November 2010-September 2011.
2. Protection of perimeter: March 2011.
3. Trade Subcontractors awarded contracts: April 2011.
4. Activity specific SWPPPs submitted by Trade Subcontractors: April 2011.
5. Sediment control products ordered and stored on site by Trade Subcontractors: May 2011.
6. Stabilized construction entrance, equipment parking, covered storage and any concrete wash areas constructed by Trade Subcontractors: May 2011.
7. Excavation and Dewatering by Trade Subcontractors: May 2011-April 2014.



8. Transit Center Building Construction: May 2013-August 2017.
9. Bus Ramps: 4th quarter 2012-4th quarter 2014.
10. Construction of the concrete form box and train box by Trade Subcontractors: TBD.
11. Vertical Construction by Trade Subcontractors: 2013-2017.
12. Monitoring and Maintenance of BMPs: Entire construction timeline by Trade Subcontractors.
13. All BMPs functional: Entire construction timeline.

## **2.6 Potential Construction Site Pollutant Sources**

Potential materials expected from the project include, but are not limited to, excavated soil, oil products (gasoline, diesel, hydraulic oil, and kerosene), solvents, concrete and curing compounds, and other construction materials. Construction on the project site will require temporary disturbance of surface soils and removal of existing on-site pavements and subsurface structures. During the construction period, excavation and grading activities will result in exposure of soil to water runoff, and the use of haul trucks that could track material away from the construction site. Much of the excavated material will be typical of coarser sandy soil particles that do not mobilize easily. However, some of the material may consist of relatively mobile fine sediments (silt and clay). Most excavation will occur in a below-grade pit which will drain internally and contain storm water; however construction activities will impact areas outside of the excavation areas that drain toward the San Francisco combined sewer drain inlets. Water in excavation pits from rainfall and groundwater seepage would contain sediment. Removal of the pit water will probably require sediment removal before it can be discharged into the storm drains (see SF PW Code paragraph above).

Soil and debris on the haul truck tires exiting the site could be deposited on local streets and Transport in storm water into the storm drain. The majority of construction debris and materials would be loaded onto trucks within the interior of the construction boundaries, rather than from public sidewalks or streets bordering the project site. The construction debris and materials would then be hauled off site. Therefore, soil stockpiles would be minimized on site.

In addition to sediment, Table 2 lists expected construction materials that could generate pollutants, describes their chemical and physical properties, and identifies potential pollutants associated with them. This list should be updated as the project proceeds and additional phases begin.

**Table 2. Potential Stormwater Pollutants**

Source	Chemical/Physical Description	Storm Water Pollutants*
Diesel Fuel	Clear, blue-green to yellow liquid	TPH-diesel, benzene, toluene, ethylbenzene, xylenes, naphthalene
Concrete Work	Cement, fly ash, aggregate	pH
Oil and Grease	Brown oily petroleum	TPH-motor oil, oil and grease
Used Oil (oil only)	Brown oily petroleum	TPH-motor oil, oil and grease, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Excavated and Stockpiled Soil	Solid particles	Soil, sediment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	TPH-gasoline, benzene, toluene, ethylbenzene, xylenes. For “old” releases, include DIPE; ETBE; MTBE; TAME; TBA; 1,2-dibromoethane (1,2-DBA); and 1,2-dichloroethane (1,2-DCA)
Hydraulic Oil/Fluids	Brown oily petroleum hydrocarbon	TPH-hydraulic oil, benzene, toluene, ethylbenzene, xylenes, LUFT 5 metals (cadmium, chromium, lead, nickel, and zinc)
Sanitary/Septic Waste	Sewage products	Coliform, <i>E. coli</i> , viruses, solvents (i.e. volatile organic compounds such as trihalomethanes and the dichlorobenzene isomers), nitrate
Trash; Windblown and Other	Paper, pipe, electrical wires etc.	Paper, pipe, electrical wires etc.

Notes: \*TPH-gasoline = total petroleum hydrocarbons quantified as gasoline (the same pattern for TPH-diesel, TPH-motor oil, TPH-hydraulic oil)  
BTEX = benzene, toluene, ethylbenzene, and xylenes  
DIPE = di-isopropyl ether  
ETBE = ethyl tertiary butyl ether  
MTBE = methyl tertiary butyl ether  
TAME = tertiary amyl methyl ether  
TBA = tertiary butyl alcohol  
LUFT = leaking underground fuel tank  
PCBs = polychlorinated biphenyls

Pollutants of concern in the San Francisco Bay include, but are not limited to, mercury, diazinon and Polychlorinated Biphenyls (PCBs). These chemicals are not easily broken down and they tend to adhere to particles of sediment, so can be removed from stormwater in BMPs that trap sediment. For this reason, sediment trapping BMPs are highlighted in the treatment controls listed for the project. Additional pollutant categories that can be anticipated in stormwater leaving the project include oil and grease, trash, sediment, organic compounds, pesticides, nutrients and metals.

## 2.7 Identification of Non-Storm Water Discharges

Non-storm water discharges include a wide variety of sources and may contribute pollutant loads if not controlled. They can include, but are not limited to:

- discharges of process water
- saw cutting slurry
- air conditioner condensate
- non-contact cooling water
- vehicle wash water
- sanitary wastes concrete washout water
- paint wash water
- irrigation water
- pipe testing water
- natural groundwater seepage

Measures to control spills, leakage, and dumping, and to prevent illicit connections during construction must be addressed through structural as well as non-structural BMPs. Certain non-storm water discharges may be necessary for the completion of construction projects. Authorized non-storm water discharges may include those from de-chlorinated potable water sources such as: fire hydrant flushing, irrigation of vegetative erosion control measures, pipe flushing and testing, water to control dust, uncontaminated ground water dewatering, and other discharges not subject to a separate general NPDES permit adopted by a region. Authorized non-storm water dewatering discharges require a permit. Information can be found online at: [http://sfwater.org/msc\\_main.cfm/MC\\_ID/14/MSC\\_ID/445](http://sfwater.org/msc_main.cfm/MC_ID/14/MSC_ID/445).

Each Trade Subcontractor is responsible for procuring the necessary dewatering permits for construction activities undertaken. The SFPUC prohibits the discharge of storm water that causes or threatens to cause pollution, contamination, or nuisance.

Additionally, all SWPPPs prepared by Trade Subcontractors must include procedures and practices designed to minimize or eliminate the discharge offsite of pollutants from vehicle and equipment cleaning, fueling, maintenance operations and other non-storm water. Project monitoring by trade Subcontractors will include a visual check for non-storm water discharges and non-storm water discharge potential.

### **3 BEST MANAGEMENT PRACTICES (BMPS)**

BMPs shall be implemented as listed in this Plan and additionally as necessary to adequately minimize erosion on site and limit sediment transport off site to an acceptable level in accordance with the SFPUC regulations and all City Codes and Ordinances.

Erosion and sediment control measures are needed throughout the year on the Project. In particular, stormwater catch basins must be protected year round. During dry season development, BMPs will be primarily designed to mitigate the movement of sediment and pollutants off site by tracking from grading equipment and from wind. Wet season BMPs are designed to prevent soil from washing off graded areas during rainy periods, tracking of soil and pollutants off site by vehicles and any other movement of pollutants from the Project.

#### **3.2 BMP Objectives**

This Construction Stormwater Pollution Control/Compliance Plan provides the following BMP objectives:

- Provide overall guidance to Trade Subcontractors in preparing SWPPPs and dewatering plans specific to their construction activities, construction timelines and drainage areas for submittal to the SFPUC.
- Delineate typical construction pollutants and their sources, including sources of sediment associated with construction, construction site erosion and other activities associated with anticipated construction activity. Trade Subcontractors are expected to expand and amend the information provided here within to tailor their SWPPPs to their activities.
- Outline best management practice (BMP) categories that need to be included in the SWPPPs prepared, submitted and maintained by the Trade Subcontractors to a level that results in the reduction or elimination of pollutants in storm water discharges and authorized non-storm water discharges from construction activity to the standard required by the SFPUC.

BMPs categories listed in this Construction Stormwater Pollution Control/Compliance Plan should be reviewed by the Trade Subcontractors, added to their SWPPPs as applicable and additionally installed, maintained, monitored and reported as practicable to adequately minimize erosion on site and limit sediment transport off site to an acceptable level. Adjustments and modifications to the BMPs identified in this Plan need to be implemented by the Trade Subcontractors as necessary to maintain the construction site in accordance with the provisions of the SFPUC regulations and all City Codes and Ordinances.

The SFPUC identifies the following list of BMPs and pollution prevention measures that must be implemented at all construction sites:

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.

- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.

### 3.2.1 Erosion Control BMPs

Erosion control practices consist of source control measures designed to prevent soil particles from becoming dislodged and transported in storm water runoff, while sediment control measures filter and otherwise recover soil particles from runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles and in many cases, are more effective, less expensive, and require less maintenance and repair. Although they typically function by protecting the surface of exposed soil, erosion control measures cannot be effectively applied until grading activities are complete or idle.

At the Project, erosion is expected to occur primarily as a result of pavement removal, soil disturbance and subsequent wind or rain. For this reason, BMPs to limit the timing of soil disturbance and provide timely stabilization for the disturbed soil surface should be the focus of erosion control efforts for the site. Erosion control BMPs such as scheduling and non-vegetative soil stabilization (soil binders) should be considered by each Trade Subcontractor (TS) and added to their SWPPPS to control soil erosion on the construction site. Modifications to the BMPs may be necessary should construction activities or the construction schedule be altered. If modifications are needed to the BMPs, the Trade Subcontractor should work with the SFPUC to amend the SWPPP and Erosion Control BMPs to satisfactorily meet City storm water regulations.

Scheduling should be implemented throughout the project as a means of ensuring that significant earth-disturbing activities are avoided if rain is forecasted. If there are exposed areas that are not being actively worked the trade Subcontractors should consider stabilizing all areas as practical. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **[www.casqa.org](http://www.casqa.org)**.

### 3.2.2 Sediment Control BMPs

Sediment control is any practice that traps soil particles after they have been detached and moved by rain, flowing water, or wind. Sediment control measures are usually passive systems that rely on filtering or settling the particles. Sediment control, or capturing the sediment once it is mobilized, is considered back up or secondary to good erosion control.

Table 3 indicates the BMPs for sediment control that should be considered and included in SWPPPs by trade Subcontractors as applicable on the construction site.

**Table 3. Construction Sediment Control BMPs**

<b>BMP Name</b>
Silt Fence
Fiber Rolls
Gravel Bag Berm
Sand Bag Barrier
Storm Drain Inlet Protection
Stockpile Management

If additional information or instructions are needed for BMP installations, the CASQA website and Cutsheets can be found at: **[www.casqa.org](http://www.casqa.org)**.

### 3.2.3 Tracking Control BMPs

Tracking control consists of preventing or reducing the tracking of sediment off site by vehicles. Daily inspections will be conducted at the construction entrances and if track-out is observed, the area will be swept by the Trade Subcontractors. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **[www.casqa.org](http://www.casqa.org)**.

### 3.2.4 Wind Erosion Control BMPs

Wind Erosion Control is a very important BMP for the Project. All Trade Subcontractors are required to comply with the regulations specified by the local Air Quality Control District. Construction will be halted if required to do so due to high wind conditions as specified by the local Air Quality Control District, and/or common sense. Alternative forms of wind erosion control such as tackifiers and covers will be utilized as necessary to avoid and minimize windblown dust from leaving the project site. If additional information or instructions are needed for BMP installations, the CASQA website and cutsheets can be found at: **[www.casqa.org](http://www.casqa.org)**.

### 3.2.5 Non-Storm Water Control BMPs

Non-storm water management BMPs are source control BMPs that prevent pollution by limiting or reducing potential non-storm water pollutants at their source or eliminating offsite discharge. These practices involve day-to-day operations of the construction site and are also referred to as “good housekeeping practices” which involve keeping a clean, orderly construction site.

Non-storm water management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment cleaning, saw cutting, pipe testing and other activities that generate liquid slurry or water based effluent. All storm/sanitary drain inlets should be located and protected during construction such that non-storm water carrying pollutants does not enter the inlets. Paving and concrete work should be undertaken during dry weather and drain inlets covered

during these activities. During wet weather construction, the drain inlets should be protected with a BMP that filters water such as sediment traps, silt bags and straw wattle.

### 3.2.6 Waste Management/Materials Control BMPs

Waste management and materials pollution control BMPs, like non-storm water management BMPs, are source control BMPs that prevent pollution by limiting or reducing potential pollutants at their source before they come in contact with storm water.

These BMPs also involve day-to-day operations of the construction site, are under the control of the Trade Subcontractors, and are additional “good housekeeping practices” which involve keeping a clean, orderly construction site. Waste management consists of implementing procedural and structural BMPs for handling, storing, and disposing of wastes generated by a construction project. The objective is to prevent the release of waste materials into storm water runoff or discharges through proper management of the following types of wastes:

- Solid
- Sanitary
- Concrete
- Hazardous
- Equipment – related wastes

Materials pollution control (also called materials handling) consists of implementing procedural and structural BMPs in the handling, storing, and the use of construction materials. The BMPs are intended to prevent the release of pollutants during storm water and non-storm water discharges. The objective is to prevent or reduce the opportunity for contamination of storm water runoff from construction materials by covering and/or providing secondary containment of storage areas, and by taking adequate precautions when handling materials. Material Safety Data Sheets, covered and secondary containment and employee training are important examples of materials pollution control. These controls must be implemented for all applicable activities, material usage, and site conditions by each Trade Subcontractor working on the Project.

The following BMP Table 4 indicates the BMPs for Trade Subcontractors to utilize to control construction site wastes and materials for the project.

**Table 4. Waste Management and Material Handling Control BMPs**

<b>BMP Name</b>
Material Delivery & Storage
Material Use
Spill Control
Solid Waste Management
Hazardous Materials/ Waste Management
Concrete Waste Management
Sanitary/Septic Waste Management
Liquid Waste Management

Fuel (gasoline/diesel), hydraulic oil, motor oil, and other liquid or hazardous waste materials used for vehicle and equipment maintenance may be used on the construction site and at the lay down areas if applicable permits are obtained and spill/response measures are adhered to. Minor amounts of lubricants and hydraulic fluid may be stored in vehicles. Spill response equipment will also be located onsite and near active construction.

Waste management BMPs includes procedures and practices designed to minimize or eliminate the discharge of pollutants from vehicle and equipment use, as well as fueling and maintenance operations to storm water drainage systems or to watercourses. Drip pans, diapers or alternative containment will be placed under equipment and vehicles (as applicable during maintenance or if leaking is suspected) while not in use, to catch and/or contain drips and leaks and prevent soil contamination. Construction crews will be educated to check parking areas visually for signs of leaking liquids; any vehicles found to be leaking onto the soil surface will be provided with temporary drip pans while at the project site. Fueling may be conducted on the job site and at the lay down area if fueling BMPs are implemented, appropriate permits are obtained and proper spill control policies and procedures are followed.

It is important that Trade Subcontractors minimize or abate the exposure of materials stored or spilled at the site. Spill Response Procedures for smaller spills are presented in BMPs. If a larger spill or discharge offsite occurs, or if the project receives a written notice or order from any regulatory agency, Trade Subcontractors will follow their Health & Safety Plan and Spill Prevention Countermeasure and Control Plan (SPCC) as well as comply with all Federal, State and local spill reporting regulations.



## 4 BMP INSPECTION, MAINTENANCE AND RECORD KEEPING

Inspection and maintenance of BMPs are an integral part of the Project and will be followed by the Trade Subcontractors. During visual inspections, if any BMP deficiencies or any storm water compliance issues are observed, the Trade Subcontractor's Construction Supervisor will be notified immediately and the deficiencies will be corrected as soon as possible. The Trade Subcontractors are responsible for maintaining and/or submitting any required monitoring records as required by regulatory agencies in accordance with current regulatory guidelines.

**Table 5. Trade Subcontractor Maintenance, Monitoring and Repair Procedures**

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES
Erosion Control	Check all soil protection including fabric, plastic, rock, hydroseed, mulch and velocity dissipation before, during and after rain events. Repair or replace as necessary to maintain proper function.
Street Cleaning	Streets must be periodically cleaned. Large quantities of soil tracked onto the street will be picked up by a loader bucket and/or hand shoveled back onto the pad. Streets must also be swept on an as-needed basis to maintain continuous sediment and litter control. Street washing shall not be done.
Sediment Control	Check integrity and functioning of berms, straw bales, check dams, and silt fences. Repair any eroded areas and remove accumulated debris.
Inlet Protection	Monitor installation and maintenance of sediment barriers and inlet protection devices. Check periodically during storms and repair or remove sediment as necessary to maintain appropriate functioning.
Temporary Basins	Remove accumulated sediment when sediment accumulates to within one foot of the outlet elevation and restore original dimensions of the basin. Obtain dewatering discharge permit from SFPUC prior to any dewatering of stored surface or groundwater.
Materials/ Equipment Storage	<ul style="list-style-type: none"> <li>Petroleum products shall be stored out of the rain and waste materials shall be stored in secured containers. Paints, solvents, enamels, sealers, bonding agents, and other chemicals shall be stored inside a covered, secure area.</li> <li>Keep designated storage areas clean and well organized. Conduct weekly monitoring to check for damaged containers, leaks, etc.</li> <li>Keep chemicals in original containers and keep them labeled.</li> <li>Train employees and subcontractors on the use of the storage area.</li> </ul>
Fueling Practices	<ul style="list-style-type: none"> <li>If refueling of equipment is conducted on site, make sure that</li> </ul>

PRACTICE	MONITORING, MAINTENANCE AND REPAIR PROCEDURES
	<p>fueling is occurring in designated areas and that secondary containment items such as drain pan or drop cloth are nearby to catch fuels/leaks.</p> <ul style="list-style-type: none"> <li>• Inspect and maintain vehicles and equipment regularly to minimize leaks and drips.</li> <li>• Comply with Federal, State and local requirements for fuel storage tanks.</li> </ul>
Herbicide/ Pesticide Application	Provide the landscape contractor with knowledge about proper procedures for application of designated chemicals.
Waste Disposal	Provide proper disposal procedures for specific materials
Litter Control	Place trash bins in appropriate locations and are being used properly. Pets will not be allowed on the Project during construction.
Equipment Cleaning	If equipment cleaning is done on site, make sure contractors are using designated, bermed wash areas to prevent wash water from entering storm drain system.

## 5 LIST OF CONTRACTORS/SUBCONTRACTORS

The following is a partial list of Trade Subcontractors, suppliers and consultants that may be employed on the Project. Names and contact numbers for each activity on the list can be obtained from Webcor /Obayashi upon request. This list is to be updated as necessary. This plan can be utilized as part of a subcontractor notification letter to document Subcontractors notification of their obligation to uphold applicable storm water pollution control regulations.

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Architect		
Bricklayers		
Cabinet Makers		
Carpenters (finish)		
Carpenters (rough)		
Ceramic Tile Installers		
Civil Engineer		
Cleaning Crews		
Concrete Subcontractors Testers		
Demolition Contractors		
Door Installers		
Drywall Installers		
Electricians		
Environmental Consultants		
Fence Builders		
Fireplace Installer		
Flooring Installers		
Garage Door Installers		
Glass Workers		
Grading Contractors		
Hardware Installers		
HVAC Contractors		
Insulation Contractors		
Marble Contractors		
Masonry Contractors		

TRADE	NAME	Signature Indicating Willingness To Provide, Maintain, and Implement SWPPP in compliance with all applicable City Ordinances and Codes
Millwork Suppliers		
Landscaping Contractors		
Landscape Maintenance Crews		
Lumber and Truss Suppliers		
Mirror and Shower Door Installers		
Painting Contractors		
Paving Contractors		
Pipeline Contractors		
Plaster Contractors		
Plumbing Contractors		
Roofing Contractors		
Shelving Installers		
Striping and Signage Contractors		
Stucco Contractors		
Termite Contractors		
Underground Utility Crews	Trinet	
Waterproofing Subcontractors		
Window Installers		

## **6 INSTRUCTIONS TO FIELD PERSONNEL**

Webcor /Obayashi will be responsible for mandating that SWPPP documents be prepared by Trade Subcontractors and also for observing the site on a regular basis in keeping with the standard of care for a General Contractor. Webcor /Obayashi will coordinate day to day oversight of the Project as a whole, track compliance with their contract obligations as well as Trade Subcontractor costs, direct Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and attend to discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own SWPPPs and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with storm water regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Plan and the SWPPP developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor /Obayashi, its officers and agents, if failure to conform results in legal action or any other action by the Regional Water Quality Control Board or City. Duties of the Trade Subcontractors include but are not limited to:

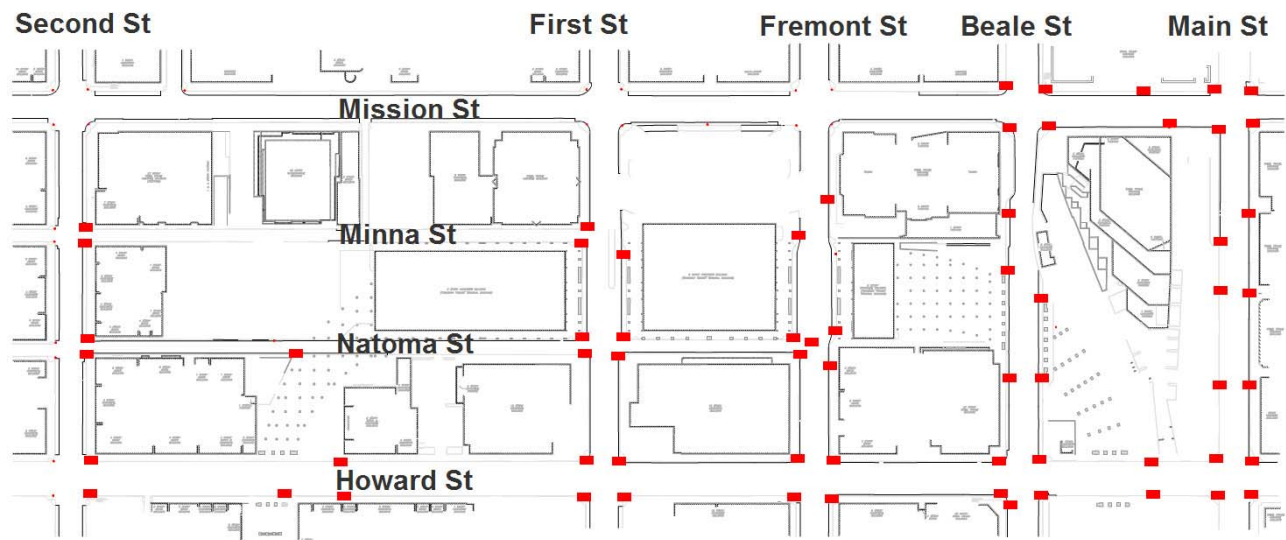
- Maintaining full compliance with their SWPPP and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for:
  - BMP Installation, monitoring and maintenance.
  - Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
  - Providing for elimination of all unauthorized discharges.
  - Coordinating with the City such that all updates, amendments, corrections and/or repairs are made in a timely fashion.
  - Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors SWPPP.

## 7 CLOSING

The Project will comply with the storm water discharge regulatory framework in the site vicinity through implementation of this Construction Stormwater Pollution Control/Compliance Plan. This Plan indicates that each Trade Subcontractor is responsible for preparing, submitting for approval, installing and maintaining a SWPPP with BMPs for protecting inlets to the SF combined sewer system from construction activities. BMPs included in the SWPPPs prepared by each Trade Subcontractor should include practices from the BMP categories outlined in this Plan. The SWPPP shall be implemented concurrently with the commencement of Trade Subcontractor construction activities and maintained by the Trade Subcontractor in a form that provides the Project with full compliance throughout the construction schedule for activities undertaken by the Trade Subcontractor. Though projects such as the subject Project that are serviced by the combined sewer system in San Francisco are not subject to the terms of the State Construction General Permit, Section A of the Construction General Permit describes in detail the requirements for a SWPPP, and the City and County San Francisco specifies that it should be used as a design guide. All construction sites must prevent illicit discharge into the SF combined sewer system.

## **Appendix A     Inlet Location Map**

**TRANSBAY TRANSIT CENTER**  
**Existing Catch Basin**





## **Appendix B Construction Stormwater Controls Monitoring Checklist**

# CONSTRUCTION STORMWATER CONTROLS MONITORING CHECKLIST

## WEBCOR/OBAYASHI TRANSBAY TERMINAL PROJECT

Date: \_\_\_\_\_

Inspector Name: \_\_\_\_\_ Description of Inspected Area: \_\_\_\_\_

24hr Rainfall Amount: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Name of Trade Subcontractor Representative: \_\_\_\_\_ Contact (Cell Phone #): \_\_\_\_\_

Erosion/Sediment Controls	Repairs Needed	OK	Owner of Repair Task	Comments/Date Corrected
Check Dams/Sediment Traps	<input type="checkbox"/>	_____	_____	_____
Drainage Swales/Lined Ditches	<input type="checkbox"/>	_____	_____	_____
Entrance/Outlet/ Tire Wash	<input type="checkbox"/>	_____	_____	_____
Barrier (Sandbag/Gravel Bag)	<input type="checkbox"/>	_____	_____	_____
Fiber Rolls/Wattles/ Silt Fence	<input type="checkbox"/>	_____	_____	_____
Covers (Geotextile/Fabric/Plastic)	<input type="checkbox"/>	_____	_____	_____
Inlet Protection	<input type="checkbox"/>	_____	_____	_____
Soil Tackifiers/Dust Control Emulsions	<input type="checkbox"/>	_____	_____	_____
Street Sweeping/Vacuuming	<input type="checkbox"/>	_____	_____	_____
Other:	<input type="checkbox"/>	_____	_____	_____

Good Housekeeping Controls	Repairs Needed	OK	Owner of Repair Task	Comments/Date Corrected
Concrete Washout	<input type="checkbox"/>	_____	_____	_____
Dewatering System/Operation	<input type="checkbox"/>	_____	_____	_____
Illicit Connection Detection	<input type="checkbox"/>	_____	_____	_____
Material Delivery/Storage/Use)	<input type="checkbox"/>	_____	_____	_____
Paving and Grinding Operations	<input type="checkbox"/>	_____	_____	_____
Pile Driving Operations	<input type="checkbox"/>	_____	_____	_____
Sanitary/Septic Waste Management	<input type="checkbox"/>	_____	_____	_____
Spill Prevention and Control	<input type="checkbox"/>	_____	_____	_____
Equipment Servicing	<input type="checkbox"/>	_____	_____	_____
Waste Management	<input type="checkbox"/>	_____	_____	_____

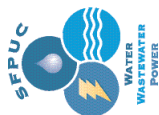
Visual Observation of Runoff	Repairs Needed	OK	Owner of Repair Task	Comments/Date Corrected
Sediment Laden/Turbid	<input type="checkbox"/>	_____	_____	_____
Oily Sheen	<input type="checkbox"/>	_____	_____	_____
Odor	<input type="checkbox"/>	_____	_____	_____

Documentation	Repairs Needed	OK	Owner of Repair Task	Comments/Date Corrected
SWPPP on Site	<input type="checkbox"/>	_____	_____	_____
BMP materials Stockpiled	<input type="checkbox"/>	_____	_____	_____
Spill Control in Compliance	<input type="checkbox"/>	_____	_____	_____
Discharge Permit Posted	<input type="checkbox"/>	_____	_____	_____
Training Logs Available	<input type="checkbox"/>	_____	_____	_____
Inspection Logs Filled Out	<input type="checkbox"/>	_____	_____	_____
Other:	<input type="checkbox"/>	_____	_____	_____

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **Appendix C     SFPUC Construction Pollution Prevention Guide**

*Don't Be Caught  
Unaware  
New  
Pollution  
Prevention  
Requirements  
for the  
Construction  
Industry*



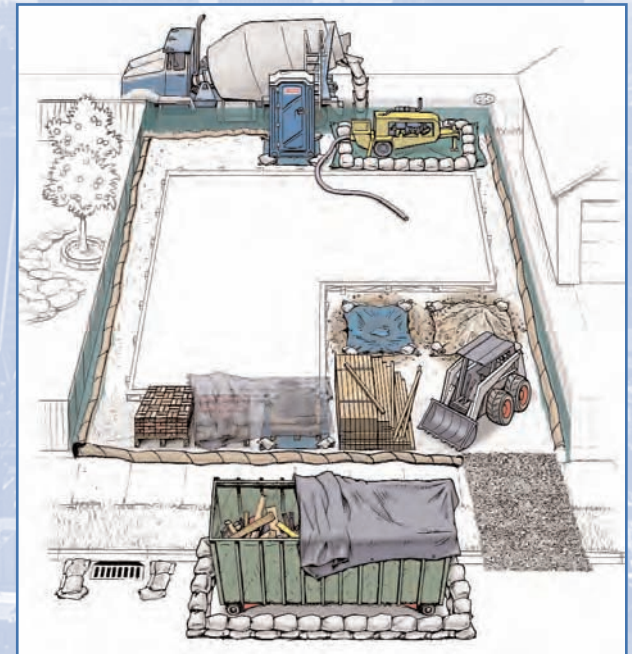
**Water Pollution Prevention Program**  
San Francisco Public Utilities Commission  
City and County of San Francisco  
3801 3rd Street, Suite 600  
San Francisco CA, 94124

# Keep it on Site

## Pollution Prevention Guide

for the

### Construction Industry



## Keep it on Site

The San Francisco Public Utilities Commission (SFPUC) is pleased to announce **Keep it on Site**, as part of its new program to prevent water pollution at construction sites.

Runoff from construction sites is a major source of water pollution, and is subject to requirements such as the development of a stormwater pollution prevention plan, a plan review, stormwater treatment measures, runoff monitoring and increased site inspections.

As part of our Construction Site Water Pollution Prevention Program, this brochure will assist construction professionals understand and comply with the new State and Federal laws. Here, you will find valuable information on methods used on construction sites to keep pollution, such as dirt and construction site debris out of our sewage treatment system and sensitive local water bodies.

We hope to make your job easier while keeping our city clean by providing you with the information to create an efficient and environmentally safe construction site.

Together, we have the ability to preserve the quality of life in San Francisco.



Water Pollution Prevention Program  
San Francisco Public Utilities Commission  
City and County of San Francisco  
3801 3rd Street, Suite 600  
San Francisco CA, 94124

Construction Site Runoff: (415) 695-7310  
<http://pollutionprevention.sfwater.org>

## Water Pollution Prevention Program

The goal of the Water Pollution Program is to control pollution at its source in order to protect the Bay, ocean, creeks and lakes.

Useful links about other pollution prevention programs throughout San Francisco:

San Francisco Water Pollution Prevention Program  
<http://pollutionprevention.sfwater.org>

State Water Board  
[www.waterboards.ca.gov/sanfranciscobay](http://www.waterboards.ca.gov/sanfranciscobay)

International BMP Database  
[www.bmpdatabase.org](http://www.bmpdatabase.org)

California Stormwater Quality Association  
[www.cabmphandbooks.com](http://www.cabmphandbooks.com)

### Emergency Phone Numbers

To report illegal dumping of hazardous materials or wastes to the storm drain or sewer system, call San Francisco Water Pollution Prevention Program hotline: (415) 695-2020

### Hazardous Spills: 911

### Inspection and Enforcement Program

The Construction Site Inspection and Enforcement Program was established to ensure that all businesses operate in compliance with all appropriate stormwater laws and other City requirements. Contractors, site supervisors and property owners can be held responsible for violations, which may lead to a civil penalty of up to \$25,000 per day and reimbursing the City for all expenses associated with clean up<sup>1</sup>.

Construction materials such as paint, dirt, and trash often find their way into our storm drains,

<sup>1</sup> San Francisco Sewer Use Ordinance Article 4.1, Public Works Codes

## Best Management Practices

jeopardizing San Francisco's sewer system, and polluting surrounding local water bodies.

Contractors are now required to implement what are known as Best Management Practices (BMPs) on all construction sites. BMPs are methods used to keep pollution out of our storm drains and catch basins and off of City property such as sidewalks, streets, and alleys. Installing and maintaining these BMPs on the construction site is critical to protecting our sensitive water bodies.

If your project is greater than 1 acre, you are required to prepare a formal Stormwater Pollution Prevention Plan (SWPPP). Please contact SFPUC's Environmental Regulation and Management for more information at (415) 695-7310.

The following is a list of BMPs and pollution prevention measures that must be implemented at all construction sites.

- Identify all storm drains and catch basins near the construction site and ensure all workers are aware of their locations to prevent pollutants from entering them.
- Protect all storm drain and catch basin inlets.
- Develop an erosion control and sediment control plan for wind and rain.
- Develop spill response and containment procedures.
- Inspect site regularly to ensure that BMPs are intact.
- Conduct daily site cleanings as needed.
- Educate employees and subcontractors about BMPs.
- Regularly maintain all BMPs at project site.



# BEST MANAGEMENT PRACTICES

## Site Overview

This drawing illustrates Best Management Practices (BMPs) that must be followed at all construction sites in San Francisco.

## Preserve existing vegetation

Preserving existing trees and vegetation where possible will prevent erosion.

## Paint and Stucco

All paint and stucco materials stored on the site must be contained and covered. It is illegal for contractors to wash out paintbrushes in the street or dump any residues in the sewer or the storm drain. Paintbrushes and spray guns shall be washed/cleaned out into a hazardous materials barrel or put back into its original container and disposed of properly. Latex paint should be dried in its container and placed in the garbage. Oil paint and thinners need to be recycled as hazardous wastes.

## Perimeter Controls

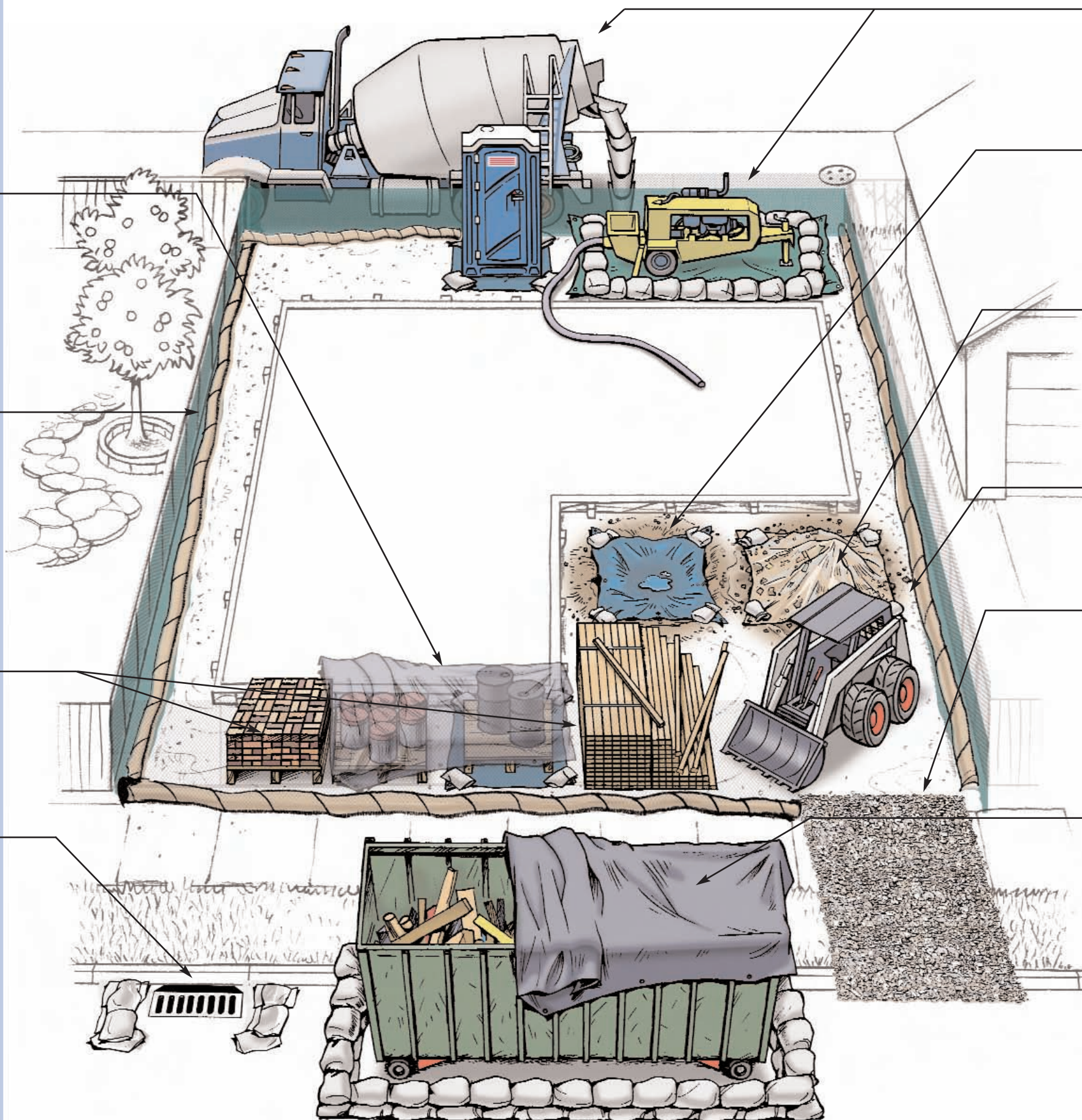
Gravel bags, silt fences, and fiber rolls are acceptable perimeter controls, and shall be used to surround the entire site. Upstream perimeter controls prevent water from running into your site and downstream controls prevent sediment from leaving your site. Avoid running over perimeter controls with vehicles or heavy equipment, as they can damage the materials. Replace any damaged perimeter controls immediately. Keep extra absorbent materials and/or a wet/dry vacuum on site to quickly pick up unintended spills. Sites must also be checked and maintained daily.

## Building Materials / Staging areas

Construction materials must be stored onsite at all times. The only exception is if you have a right-way-permit. Building materials should always be covered when not in use to prevent runoff caused by wind or rain. To apply for a right-of-way permit, contact the Bureau of Streets Use and Mapping at (415) 554-5810.

## Storm Drains and Catch Basins

Storm drains must be protected at all times with perimeter controls, such as fiber rolls or gravel bags.



## Concrete Trucks / Pumpers

Any concrete pumpers parked in public streets or alleys must be surrounded by perimeter controls, such as berms, gravel bags or fiber rolls. Tarps also must be placed beneath concrete pumpers at all times. Residual materials must be cleaned up as well.

## Washout Area

The disposal of "wet" construction materials should be handled in the washout area. This includes paint, stucco, and concrete. Use a gravel bag or fiber roll and tarp to collect evaporation and prevent run-off in nearby areas. The washout area must be checked and maintained daily to ensure compliance.

## Dirt and Grading

Mounds of dirt or gravel should be stored on site and covered each day with a tarp. When in use, all exposed dirt piles should be sprayed with water to prevent excessive dust. Tarps must be available and onsite to cover 125% of exposed areas during the rainy season (October-April).

## Earthmoving Equipment

All earthmoving equipment should be stored onsite. Maintenance and repair should never be conducted on the site. All tracks and trails left by equipment leading to and from the site should be cleaned up immediately.

## Construction site stone or rock access drives

Stone or rock access drives at any construction site should be made of 3-4 inch fractured stone aggregate with a geo-textile liner below the grade of the road. This is to be used by all vehicles to limit tracks of mud onto the streets.

## Dewatering Activities

A batch discharge permit is required before releasing any construction site wastewater. Call 415-695-7310 for more information.

## Dumpsters

Keep dumpsters covered. Areas around dumpsters should be swept daily.



## Water Pollution Prevention Program

San Francisco Public Utilities Commission  
City and County of San Francisco  
3801 3rd Street, Suite 600  
San Francisco CA, 94124  
(415) 695-7310

[siterunoff@sfgov.org](mailto:siterunoff@sfgov.org)  
<http://pollutionprevention.sfgov.org>

Original artwork and concepts developed by the City of Coronado, CA  
revised by SFPUC Graphics staff personnel.



## **Exhibit L**



### **TRANSBAY TRANSIT CENTER**

### **Hazardous Materials Management Plan**

Revision 1

**March 11, 2011**

**WEBCOR/OBAYASHI JOINT VENTURE  
SAN FRANCISCO, CA**

## TABLE OF CONTENTS

Environmental REPORTS.....	4
Phase I Environmental Site Assessment .....	4
Site Investigations.....	5
Soil Results .....	5
Groundwater Results .....	6
Subsurface Conditions .....	7
DISCUSSION .....	8
RECOMMENDATIONS FOR MITIGATIVE ACTIONS.....	8
Health and Safety Issues .....	9
Soil Management .....	10
Soil Segregation and Disposal.....	11
Soil Disposition.....	11
Soil Sampling .....	12
Timber Pile Removal and Disposal .....	13
Underground Storage Tank Removal and Disposal .....	13
Coal Gasification Residual Material .....	13
Groundwater Management.....	13
Dust Control .....	14
Contingency Procedures.....	14
REFERENCES	



**Hazardous Materials Management Plan**  
**TRANSBAY TRANSIT CENTER**  
**San Francisco, California**

Webcor/Obayashi Joint Venture will be responsible for mandating that Hazardous Materials Procedures documents shall be prepared by Trade Subcontractors and also for observing the Trans Bay Transit Center site on a regular basis in keeping with the standard of care for a General Contractor. Webcor/Obayashi Joint Venture will also coordinate the day to day oversight of the Project as a whole, compliance with their contract obligations, the tracking of Trade Subcontractor costs, directing Trade Subcontractors to maintain the Project site in accordance with all applicable regulations, and for discussions with the City regarding compliance concerns. Contracts with Trade Subcontractors and Sub tier Subcontractors shall include a requirement to comply with the provisions of this Plan and to maintain compliance with all applicable City Ordinances and Codes. The Trade Subcontractors, Sub tier Subcontractors and their Project Superintendents for this project are hereby authorized to uphold, certify, and maintain their own Hazardous Materials Procedures Plans and to distribute it to all field personnel responsible for monitoring the site and maintaining compliance with Federal State and local regulations. All subcontractors, field personnel and their assigns that work at the site must conform to the requirements described in this Hazardous Materials Procedures developed for Trade Subcontractor activities and any alterations thereof made at the time and in the manner herein specified, and in all respects according to its intent and meaning, and shall indemnify and hold harmless Webcor Builders-Obayashi, its officers and agents, if failure to conform results in legal action or any other action. Duties of the Trade Subcontractors include but are not limited to:

- Maintaining full compliance with their Hazardous Materials Procedures plan and all City Codes and Ordinances.
- To this effect, the Trade Subcontractors shall have authority to mobilize their own crews for: monitoring and maintenance.
- Obtaining dewatering and other applicable permits necessary for the satisfactory completion of their contract.
- Stopping any construction activity that is in violation of municipal ordinances or codes or that is inconsistent with the provisions of the Trade Subcontractors Hazardous Materials Procedures plan.

The Transbay existing Terminal Building has been demolished and replaced with a multimodal Transit Center that includes an underground rail station. The depth of the excavation will be approximately 65 feet. A soil-cement shoring wall extending approximately 120 feet below ground surface (bgs) will form the perimeter of the Transit Center. A concrete buttress will be placed under the Transit Center adjacent to 301 Mission Street extending down to bedrock, approximately 240 feet.

This HMMP includes the requirement to mitigate potential health and safety (H&S) risks to the environment, workers, and site-user associated with the presence of certain constituents in the soil at the Site.

## **ENVIRONMENTAL REPORTS**

Webcor /Obayashi Joint Venture have reviewed environmental reports prepared for the site. The following is a summary of the previous reports:

### **Phase I Environmental Site Assessment**

The eastern portion of the Site is located in an area historically known as the Tar Flat which was a former industrial area developed during the Gold Rush Era of the 1850's. The Site has been occupied by numerous buildings involved in metal work facilities, foundries, and a coal yard. Also, the San Francisco Gas Light Company was located on the south central and south eastern edge Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. The Transbay Terminal Building was constructed between the years of 1936 ad 1938 and was used as a passenger rail station. In 1958, the train tracks were removed and/or paved over and the Site has been used by buses since. In the 1950's, elevated concrete roadways were built on the Site as part of the Transbay Terminal and the Embarcadero Freeway. The Embarcadero Freeway was damaged during the 1989 Loma Prieta earthquake and was subsequently demolished. Since the 1990's, the Site has remained largely unchanged.

Significant findings included:

- The subsurface fill material at the Site may contain elevated concentrations of heavy metals and other residual petroleum hydrocarbons. These concentrations are likely associated with the presence of 1906 earthquake fill material located below the ground surface. Special soil handling and/or sampling will likely be required during any construction activities.

- Due to the proximity of the former San Francisco Gas and Light Plant (bounded by First, Fremont, Howard, and Natoma Streets) and the presence of manufactured gas by-product waste found on nearby properties, hazardous materials may exist in the subsurface beneath the Site. Special soil handling and/or sampling will likely be required during any construction activity.
- The soil and groundwater near the West section of the Transbay Terminal Building may contain petroleum hydrocarbons and VOCs associated with the former USTs release. Special soil and groundwater handling and/or sampling will likely be required during any construction activities.

### **Site Investigations**

Limited soil and groundwater sampling has been performed beneath the ramps and near the Transbay Terminal building in 1999 and 2008 by Treadwell & Rollo. Also, they performed an Environmental Site Characterization (ESC) in 2009 at the Transbay Terminal which included collecting soil samples of the fill material and underlying sand from 23 exploratory borings, chemical testing of selected samples, and evaluating the results. Treadwell & Rollo collected groundwater grab samples from four of the exploratory borings for chemical analysis. The objective of the ESC was to assess the presence of petroleum hydrocarbon and metal contamination in the soil and groundwater beneath the Site that will be removed and disposed during the proposed construction activities. Concentrations of chemical compounds and metals detected in the soil and groundwater samples were compared to state and federal criteria for hazardous waste and disposal options.

The results of our environmental site characterization and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

### **Soil Results**

TPHg was detected above the method reporting limit (0.1 mg/kg) in 3 of the 88 samples analyzed at concentrations ranging from 0.29 mg/kg to 26 mg/kg. TPHd was detected above the method reporting limit (2 mg/kg) in 9 of the 87 samples analyzed at concentrations ranging from 2.01 mg/kg to 54.8 mg/kg. TPHmo was detected above the method reporting limit (4 mg/kg) in 49 of the 88 samples

analyzed at concentrations ranging from 4.09 mg/kg to 137 mg/kg. Methylene chloride was detected in 3 of the 14 samples analyzed at concentrations ranging from 0.056 mg/kg to 0.24 mg/kg. No other VOCs were detected at or above methods reporting limits.

Total cyanide was not detected above the method reporting limit (1 mg/kg) in any of the 5 samples analyzed. No SVOCs, Pesticides, PCBs, Sulfide, or Cyanide were detected at or above method reporting limits in the samples analyzed. The pH measured in five samples ranged from 6.70 standard units (S.U.) to 8.66 S.U.

Total lead was detected in each of the samples analyzed at concentrations ranging from 1.2 mg/kg to 1,000 mg/kg (Table 2). Total lead was detected at concentrations at or above 50 mg/kg but below 1,000 mg/kg in 33 soil samples. Each of these soil samples was subsequently run for STLC and TCLP lead to determine soluble lead levels. One soil sample (TR-21-5) matched the State of California hazardous waste criteria of 1,000 mg/kg for total lead and subsequently run for TCLP lead to determine if this soil represents a federal RCRA hazardous waste. The TCLP result was 0.83 milligrams per liter (mg/L) so less than the federal RCRA hazardous waste criteria of 5 mg/L.

STLC lead was detected at or above the method reporting limits in 33 of the 34 samples analyzed at concentrations ranging from 0.13 mg/L to 52.1 mg/L. A total of 19 soil samples exceeded the State of California hazardous waste criteria of 5 mg/L. TCLP lead was detected at or above the method reporting limits in 22 of the 36 samples analyzed at concentrations ranging from 0.13 milligrams per liter (mg/L) to 14.5 mg/L. A total of one soil sample (TR-21-5) exceeded the Federal hazardous waste criteria of 5 mg/L.

The remaining metal concentrations were within normal<sup>1</sup> background ranges found in the western United States with the exception of zinc in sample TR-2-1.5 which was detected at a concentration of 5,600 mg/kg.

## **Groundwater Results**

No oil and grease, TRPH, or SVOCs were detected above method reporting limits in any of the four samples. TSS was detected in all the samples with concentrations ranging from 110 mg/L to 160,000 mg/L. COD was detected in TR-19-GW, TR-20-GW, and TR-24-GW with concentrations of 24 mg/L, 20

---

<sup>1</sup> "U.S.G.S. Professional Paper 1270, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States," 1984.

mg/L, and 64 mg/L, respectively. Phenolics were detected in TR-24-GW at a concentration of 0.074 mg/L. TR-19-GW, TR-20-GW, and TR-24-GW were tested for pH with concentrations of 7.41 S.U., 7.07 S.U., and 7.45 S.U., respectively.

Trichloroethylene was detected in TR-8-GW at a concentration of 1.58 mg/L. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, benzene, ethylbenzene, isopropyl benzene, n-propylbenzene, styrene, toluene, and total xylenes were detected in TR-19-GW with concentrations of 0.0223 mg/L, 0.00568 mg/L, 0.0251 mg/L, 0.011 mg/L, 0.00561 mg/L, 0.00138 mg/L, 0.00143 mg/L, 0.0171 mg/L, and 0.0591 mg/L, respectively. Methyl tert-butyl ether (MTBE) was detected in TR-20-GW at a concentration of 0.00078 mg/L. Naphthalene was detected in TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.417 mg/L, 0.00371 mg/L, and 0.0548 mg/L, respectively. No other VOCs were detected in any of the samples.

Antimony was detected in TR-20-GW at a concentration of 0.012 mg/L. Arsenic was detected in TR-24-GW at a concentration of 0.024 mg/L. Barium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.066 mg/L, 0.052 mg/L, 0.085 mg/L, and 0.022 mg/L, respectively. Chromium was detected in TR-8-GW and TR-20-GW at concentrations of 0.032 mg/L and 0.008 mg/L, respectively. Cobalt was detected in TR-8-GW and TR-20-GW at concentrations of 0.011 mg/L and 0.006 mg/L, respectively. Molybdenum was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.01 mg/L, 0.024 mg/L, and 0.009 mg/L, respectively. Nickel was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 0.054 mg/L, 0.052 mg/L, and 0.013 mg/L, respectively. Vanadium was detected in TR-8-GW, TR-19-GW, TR-20-GW, and TR-24-GW at concentrations of 0.032 mg/L, 0.012 mg/L, 0.012 mg/L, and 0.021 mg/L, respectively. Zinc was detected in TR-8-GW, TR-20-GW, and TR-24-GW at concentrations of 1.1 mg/L, 0.013 mg/L, and 0.011 mg/L, respectively. No other metals were detected in any of the samples.

## **SUBSURFACE CONDITIONS**

The results of previous site investigations and other available subsurface information in the vicinity indicate the Site is generally underlain by approximately 5 to 16 feet of fill material, composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. The presence of fill material underlying the Site is likely associated with the 1906 earthquake and fire. A sand layer consisting of medium dense to very dense sand with variable amounts of silt approximately 15 to 18 feet thick underlies the fill material. Bay Mud is present beneath the sand layer.

Groundwater was encountered at the time of the investigation at depths ranging from 13 to 20 feet bgs. Groundwater levels may fluctuate depending on the season. The groundwater flow direction is likely to the northeast towards San Francisco Bay.

## **DISCUSSION**

Based on the analytical results from the Site subsurface investigation and previous analytical results, some of the fill material contains elevated total and soluble lead levels at concentrations exceeding Federal and State of California hazardous waste criteria. The remaining fill material will most likely be accepted at a regulated Class II and/or Class III landfill. Based on previous environmental investigations at the Site and vicinity, the sand underlying the fill would likely be disposed of as unrestricted waste.

The area of fill material containing soluble lead concentrations exceeding the Federal hazardous waste criteria are near boring TR-21 at a depth of 5 feet bgs. The areas of fill material containing total and soluble lead concentrations exceeding the State of California waste criteria are located near borings TR-1 at depths of 1.5 and 5 feet bgs, TR-2 at depths of 1.5, 3 and 5 feet bgs, TR-4 at depths of 3 and 5 feet bgs, TR-8 at depths of 1.5 and 3 feet bgs, TR-14 at a depth of 3 feet bgs, TR-15 at a depth of 3 feet bgs, TR-16 at a depth of 5 feet bgs and 10 bgs, TR-17 at depths of 1.5, 3 and 5 feet bgs, TR-19 at a depth of 7.5 feet bgs, TR-20 at a depth of 7.5 feet bgs, and TR-21 at a depth of 3 feet bgs. The remaining fill material will be disposed as Class II non-hazardous waste.

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering contractor will obtain a batch groundwater discharge permit from the San Francisco Public Utilities Commission (SFPUC).

Because hazardous materials were detected at the Site, a SMP and a HASP will be required prior to construction. The Subcontractor HASP will outline proper soil handling procedures and H&S requirements to minimize worker and public exposure to hazardous materials during construction.

## **RECOMMENDATIONS FOR MITIGATIVE ACTIONS**

The results of previous environmental investigations at and near the Site indicate the fill material beneath the Site contains elevated concentrations of heavy metals and petroleum hydrocarbons. The presence of these compounds poses soil management and potential H&S issues to be addressed as part of the Site

development activities. The soil management objectives for the Site are to minimize exposure to construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site to constituents in the soil.

### **Health and Safety Issues**

There may be a potential H&S risks associated with the heavy metals and petroleum hydrocarbons detected at the Site. There also may be a potential for this soil to affect construction workers at the Site, nearby residents and/or pedestrians, and future users of the Site. The routes of potential exposure to the petroleum hydrocarbons and metals could be through three pathways: 1) dermal (skin) contact with the soil, 2) inhalation of dusts, and 3) ingestion of the soil.

The most likely potential for human exposure to the petroleum hydrocarbons and metals in the soil will be during soil excavation operations. Because on-site materials contain concentrations of petroleum hydrocarbons and lead in excess of the Proposition 65 guidelines, there is a requirement that appropriate health and safety procedures, as well as warning requirements, be implemented during construction. The trade sub contractor will be responsible for establishing and maintaining proper H&S procedures to minimize worker and public exposure to Site contaminants during construction. Webcor/Obayashi Joint Venture will oversee this process and require the development and implementation of a comprehensive HASP, which should be prepared by a certified industrial hygienist that represents each subcontractor or its sub tier contractor.

The H&S training requirements, i.e. trained in accordance with Section 1910.120 of 29 Code of Federal Regulations (HazWoper training), specific personal hygiene, and monitoring equipment that will be used during construction to protect and verify the H&S of the construction workers and the general public from exposure to constituents in the soil. Air monitoring to evaluate the amount of airborne particles during excavation will be required by the tub trade contractors. All reports will be kept in a central location managed by Webcor/Obayashi Joint Venture.

A representative of Webcor/Obayashi Joint Venture and the Site health and safety officer (HASO) representing the trade subcontractor will be on site at all times during excavation activities to ensure that all health and safety measures are maintained. The Webcor/Obayashi Joint Venture representative or HASO will have authority to direct and stop (if necessary) all construction activities in order to ensure compliance with the HASP.

The purpose of the HASP is to provide field personnel with an understanding of the potential chemical and physical hazards, protection of any off-site receptors, procedures for entering the project Site, H&S procedures, and emergency response to hazards should they occur. All project personnel shall read and adhere to the procedures established in this HASP. A copy of all plans will be kept on site during field activities and will be reviewed and updated as necessary.

The general public will be protected through the following measures maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- the Site will be fenced;
- exposed soil at the construction Site will be watered as necessary to prevent visible dust from migrating off-site;
- soil stockpiles will be covered;
- water will be misted or sprayed during the loading of soil onto trucks for off haul;
- trucks transporting contaminated soil will be covered with a tarpaulin or other cover;
- the wheels of the trucks exiting the Site will be cleaned prior to entering public streets;
- public streets will be swept daily if soil is visible; and
- Excavation and loading activities will be suspended if winds exceed 20 miles per hour.

### **Soil Management**

The proposed construction activities will disturb soil during the excavation activities including: soil handling during archeological investigations, shoring wall installation, construction of a buttress for the adjoining 301 Mission Street property, timber pile removal and disposal, utility relocation and the mass excavation for the new Transbay Transit Center. During all excavation activities, dust control measures will be implemented to reduce potential exposure. These measures shall include moisture-conditioning the soil using dust suppressants and covering the exposed soil and stockpiles with weighed down plastic sheeting to prevent exposure of the soil.

Since all the contaminated fill material will be excavated and disposed of off-site, there will be no risk of direct contact with the underlying fill material by future Site users.



The Site's HASP (prepared by the trade sub contractor) will contain additional dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

### **Soil Segregation and Disposal**

Before any excavation activities begin at the Site, a TJPA representative shall be provided documentation from the excavation contractor that the accepting landfill facility for the soil from Transbay Terminal project has been provided with and has reviewed all analytical data collected from the Site. TJPA shall approve all off-site disposal facilities and soil transportation contractors, including, without limitation, available insurable coverage, and prior to the shipment of any soil or other waste materials. The TJPA representative will provide testing and schedule the intervals that testing shall occur.

The results of previous soil analytical testing indicate that some of the soil located at the Site will be disposed off-site at a Class I landfill, however additional chemical testing of the soil may be required by the landfill prior to disposal. The excavation contractor shall be responsible for tracking the disposition of soil removed from the Site. Any excavated soil characterized as a hazardous waste shall be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not characterized as a hazardous waste shall be tracked using non-hazardous bills of lading. All documentation will be provided to TJPA during the excavation activities.

If soil stockpiling of suspected contaminated soil is to be performed, the excavation contractor shall establish appropriate soil stockpile locations on the Site to properly segregate, cover, control dust, profile, and manage the excavated soil. Stockpiled soils are to be placed on top of one layer of 10-mil polyethylene sheeting (or equivalent), such as Visqueen. When stockpiled soil is not actively being handled, top sheeting will be adequately secured so that all surface areas are covered.

### **Soil Disposition**

The Trade Sub contractor will establish appropriate off-site soil disposal locations and direct truck loading scheduling and/or soil stockpile locations on the Site to properly segregate, cover, moisture control, and profile the excavated soil. Soil profiling criteria will ultimately depend on the acceptance criteria of the landfills receiving the soil. These procedures will be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. It is not anticipated that soil will be reused at the Site for construction-related activities.

The Webcor Obayashi JV will, on behalf of TJPA, will be responsible for tracking final soil dispositions and turn that information to the TJPA representative. Any excavated soil considered hazardous waste will be tracked using the Uniform Hazardous Waste Manifest System (USEPA Form 8700-22), as applicable. Soil not considered hazardous waste will be tracked using non-hazardous bills of lading. These two systems will be used to comply with appropriate state and local requirements.

The contractor will arrange for transportation of all wastes off-site. Hazardous and non-hazardous waste will be transported to the appropriate disposal facility using a permitted, licensed, and insured transportation company. Transporters of hazardous waste must meet the requirements of 40 CFR 263 and 22 CCR 66263. All trucks transporting bulk hazardous waste will be properly lined and covered with compatible materials. Trucks will be decontaminated prior to any use other than hauling contaminated materials unless the contaminated material was already double-contained. The contractor will be responsible for preparing and submitting traffic control plans for trucks entering and leaving the Site. A decontamination pad location plan and decontamination procedures will be prepared. A route plan will also be prepared showing the expected route each truck will use to reach each landfill.

For soil that is to be exported off-site that is characterized as a hazardous waste, an appropriate USEPA Generator Identification Number will be recorded on the hazardous waste manifests used to document transport of hazardous waste off-site. The hazardous waste transporter, disposal facility, and U.S. Department of Transportation (DOT) waste description required for each manifest will be determined on a case-by-case basis. A description of the number of containers being shipped, the type of container, and the total quantity of waste being shipped will also be included on each manifest.

Webcor/Obayashi Joint Venture representative will be responsible for overseeing the sub trade provides accurate completion of the hazardous waste manifests and nonhazardous bills of lading. Records of all wastes shipped off-site will be maintained by TJPA and will be made available for inspection on request. The final destination of wastes transported off-site will be documented in the Site Closure Report that will be prepared by others.

### **Soil Sampling**

If needed, chemical testing of the stockpiled soil will be performed to profile the soil for disposal. Soil profiling criteria depends on the proposed landfill location or off-site receiving facility. These procedures shall be established by the excavation contractor and coordinated with the proposed landfills prior to initiating soil excavation. Typical soil profiling requirements are one four-point composite sample per 500 to 750 cubic yards to be disposed.

If soil samples are required for analysis, the samples shall be collected by the TJPA representative and tracked.

### **Timber Pile Removal and Disposal**

Part of the foundation system for the Transbay Terminal building includes timber piles beneath the basement slab. During the excavation activities these timber piles will be removed and disposed of. The timber piles will be extracted from the subsurface and as much as possible removal of all the soil which is attached to the timber pile will need to be performed. The extracted timber piles will be segregated, tested by the TJPA representative and transported. If disposed of as a Treated Wood at a Class II non-hazardous waste with copies of the Bill of Ladings will be submitted to TJPA representative.

### **Underground Storage Tank Removal and Disposal**

If a underground storage tank (UST) and/or and associated product lines are found, arrange for a licensed tank removal contractor to properly remove and dispose of the UST. Proper permits and notifications should be in place prior to removing the UST. If soil staining is observed, place the affected soil into a stockpile onto plastic sheets and cover with plastic sheets. The Environmental Consultant will complete soil sampling and analysis tasks for UST closure in accordance with San Francisco Fire Department (SFFD) and SFDPH.

### **Coal Gasification Residual Material**

The former San Francisco Gas Light Company was located on the south central and south eastern edge of the Site. Coal tar waste is believed to have been discharged into the surrounding tidelands which include the eastern portion of the Site. Excavation in this area of the Site will most likely encounter residual coal tar waste. Some of the coal gasification residual material encountered may be former piping, coal tar, phenols, heavy metals, and polynuclear aromatic hydrocarbons. If any coal gasification residual material is encountered during the excavation, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. The TJPA representative will collect soil samples and analyzed the material to determine proper disposal of the material.

### **Groundwater Management**

Groundwater is encountered at depths ranging from approximately 13 to 20 feet bgs across the Site. The proposed construction activities most likely will encounter groundwater in quantities that will require its removal from the subsurface. Prior to discharge into the sanitary sewer system, the dewatering Trade Subcontractors will obtain a batch groundwater discharge permit from the San Francisco Public Utilities

Commission (SFPUC). Based on analytical results of the groundwater samples analyzed during previous Site investigations, approval of the groundwater discharge from the dewatering system would be granted by SFPUC.

### **Dust Control**

Prior to initiating construction activities, a dust control plan (prepared by Trade Subcontractor and specific to this project) will be implemented to reduce potential exposure during excavation and loading operations. This document will contain measures to protect construction workers and the public including: dust monitoring, action levels, dust control measures, and work stoppage provisions that will be followed during construction activities.

Dust control will be accomplished through implementation of engineering controls, including light water spraying or misting of stockpiled soil, truck loading areas and work areas. Misting or spraying will be performed to sufficiently reduce fugitive dust emissions, but limited to prevent water runoff. Efforts will also be made to minimize the soil drop height from an excavator's bucket onto soil piles or into transport trucks. The site-specific dust control plan will as needed, include some or all of the following procedures: site fencing; wetting soil; analysis of wind direction; dust monitors at the work zone and at the Site perimeter and appropriate record keeping, visible inspection; establishing a hotline for community response; limiting excavation area; soil storage regulations (e.g. covering stockpiles); windbreaks; paving; truck loading requirements (e.g. covering vehicles or excavator bucket drop heights); Site vehicle speed limits; wheel washing; street sweeping; termination of excavation if winds exceed 20 mph; and/or addition of soil stabilizers; or other responses as needed.

### **Contingency Procedures**

Hazardous materials including; sumps and/or vaults, asbestos piping, former monitoring wells, and soil with petroleum hydrocarbon odors and/or stains may be encountered during excavation activities. If unanticipated hazardous materials are encountered, the following procedures will be maintained by trade subcontractors and monitored by Webcor/Obayashi Joint Venture:

- stop work in the area where the suspect material was encountered and cover it with plastic sheets;
- notify the Webcor/Obayashi Joint Venture representative, the TJPA Environmental Consultant for Site a inspection and appropriate action in the suspect area; and
- review the existing H&S plan and make revisions, if necessary; and

- Have appropriately trained personnel on Site to work with the affected materials, once directed by Webcor/Obayashi Joint Venture.

If a sump and/or vaults are encountered during excavation activities, contact the TJPA Environmental Consultant for inspection and appropriate action. If no liquid, obvious staining or odors are observed, sump and/or vaults will likely be destroyed and disposed of. If liquid is present within the sump and/or vault and/or obvious staining and odors are observed, the TJPA, Environmental Consultant will collect samples for analyses to determine how to properly disposal of the material.

If stained soil or odors are observed, plastic sheeting will be placed over the affected area and the TJPA Environmental Consultant will be contacted for inspection and appropriate action. If the material is to be excavated, the material will be stockpiled onto plastic sheeting and covered with plastic sheeting. Soil samples will be collected and analyzed to determine proper disposal of the material.

## REFERENCES

*Site Mitigation Plan Transbay Transit Center:* Treadwell & Rollo, Inc. dated March 2010.



# Exhibit M

## RFI QUESTION AND ANSWER LOG

The RFI log provided in this Exhibit M is current up to the date and time shown on the upper right corner.

The RFI's that contain attachments are available for download on the following website:

<https://webcor.box.com/s/1f08d2699eeba1319586>

PASSWORD: WebcorBid! (Case Sensitive)





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0001	Article 6 Changes in Work - Clarification	Closed	10/11/2010	10/25/2010	11/03/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Joanne Filipas To: Turner Construction Company Daphne Faulkner			Answered By: Turner Construction Company Daphne Faulkner				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>		
Reference: Spec Section 00 07 00, Article 6 - Clarifications and Changes in Work					00 07 00 - 6.01.A specifies that, "TJPA may..order additions, deletions, or revisions in the Work by Change Order or Field Order, CM/GC shall promptly comply with such orders and proceed with the Work..." [emphasis added]. Under paragraph 6.02.B, TJPA may issue a Field Order in response to an RFI submitted by CM/GC. Under paragraph 6.03A, the CM/GC must submit a COR within 21 days if in the opinion of the CM/GC, the Field Order is considered to be a Change to the Contract.		
Article 6 in the General Condition specification section 00 07 00 defines the procedure for changes in work. The procedures defined throughout Article 6 are conflicting. According to section 6.01.A, CM/GC shall promptly comply and proceed with changes issued by the TJPA in the form of a Change Order or Field Order. Section 6.02.B states that the TJPA will respond to RFI's with written Clarification deemed necessary and consistent with the Contract Documents or a Field Order requiring minor changes in work. Per section 6.01.A, the CM/GC is to proceed with the Field Order immediately. However, according to section 6.03.A, CM/GC shall submit a Change Order Request within 21 days of written directive. Please advise if the CM/GC is to proceed with changes promptly and prior to approval or if the CM/GC shall receive approval prior to proceeding with any changed Work.					Therefore, TJPA expects the CM/GC promptly to proceed with Work as may be clarified or directed through a Field Order, unless instructed otherwise. CM/GC has the recourse of submitting a COR when appropriate to do so, within the time limit stipulated. To avoid confusion, TJPA's Field Orders will clearly state whether the CM/GC is required to carry out the instruction promptly. Nevertheless, the CM/GC shall whenever possible incorporate a Field Order directive into the Work with minimal disruption to the planned sequence of activities.		
T-0002	Transit Center Building Address Clarification	Closed	10/20/2010	11/03/2010	10/28/2010	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture Joanne Filipas To: Turner Construction Company Daphne Faulkner			Answered By: Transbay PMPC Alfred Lau				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>		
Please clarify the building address for the Transbay Transit Center. This is required to complete our site specific Click Safety program, complete insurance documents, etc.					425 Mission Street, San Francisco, CA 94105		
					Answered by Alfred Lau TJPA (PMPC) 10/28/2010		
					Constructware RFI #T-0003		
T-0003	301 Mission Wall Specification Format	Closed	11/17/2010	12/01/2010	11/23/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Company Michelle Smith			Answered By: Turner Construction Company Kevin Chiu				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 2 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Reference Sheet: C-0001 issued 11/04/10; 301 Mission Interim Screen Wall - General Notes

We are in the process of preparing submittals for this project. In doing so we would like to know what specification division format would be most appropriate for us to submit and track these project documents. Please provide us with the desired specification division format as soon as possible so that our submittals can be processed with the proper efficiency.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

All submittals for the 301 Mission Interim Screen Wall shall be submitted under the new CSI Division, "301 Mission Interim Screen Wall," that has been created and is available in Constructware under Transit Center Building (140). Within CSI Division "301 Mission Interim Screen Wall," there is a list of available "spec sections" that are equal to the drawing sheet number (and paragraph heading as applicable) that the submittal is called out on. If there are multiple "spec sections" on one sheet, the suffix ".X" has been added. For example, "S-0001.5 Concrete and Reinforcing" shall contain all submittals found on sheet S-0001 under the heading "Concrete and Reinforcing." If there is no suffix, the description of the spec is simply the title of the drawing.

<b>T-0004</b>	<b>Transbay Project Signs</b>	<b>Closed</b>	<b>12/01/2010</b>	<b>12/15/2010</b>	<b>12/03/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Alfred Lau		

#### Co-Author:

#### REQUEST:

Spec Section: 01 15 01

Webcor/Obayashi is initiating project sign procurement per Spec 01 15 01 and will require the artwork and locations for four 4x8 post mounted signs. What are required graphics/logo's for sign fabrication and where shall each sign be located.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Graphics for Project ID Signs specified per 01 15 01 will be issued to CMGC as soon as the names for mayor and SFCTA Board members are confirmed in early January, 2011. Information for locations will be issued prior to installation.

<b>T-0004.1</b>	<b>Transbay Project Signs</b>	<b>Closed</b>	<b>04/01/2011</b>	<b>04/11/2011</b>	<b>04/12/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Alfred Lau		

#### Co-Author:



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 3 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference: RFI T-0004  
Spec Section: 01 15 01

Response to RFI T-0004 read "Graphics for Project ID Signs specified per 01 15 01 will be issued to CMGC as soon as the names for mayor and SFCTA Board members are confirmed in early January, 2011. Information for locations will be issued prior to installation."

In a follow up to this RFI, Webcor/Obayashi's is initiating project sign procurement and will require the artwork and locations for four 4x8 post mounted signs. What are required graphics/logo's for sign fabrication and where shall each sign be located.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Unfortunately that the name for one of the TJPA Board seat (PJP seat) is still not confirmed at this time, and it may be at least another month before that can be resolved. TJPA/PMPC will ensure this issue is resolved as expedited as possible and inform the Contractor immediately after the information is announced.

<b>T-0005</b>	<b>Incorporation of Trade Subcontractor Schedule Submittals</b>	<b>Closed</b>	<b>12/03/2010</b>	<b>12/13/2010</b>	<b>12/07/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture	Jim Tomaszewski	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Jim Coughlin		

**Co-Author:****REQUEST:**

Spec Section: 01 13 10 & 01 1310

For TJPA convenience W/O requests that Trade Subcontractor Schedules (Section 01 13 10, 1.2.B) be incorporated into the Monthly Schedule Report (Section 01 13 10, 1.5.A) for the month following issuance of NTP for the specified trade package. A detailed section of the Narrative will be clearly identified and contain all of the narrative requirements of Section 01 13 10, 1.2.B.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Spec Section 01 13 10, 1.2.B will be revised to relax the requirement to include a schedule narrative in the first schedule submittal that is due 15 days after award. However, the 15 day requirement to submit a construction schedule will remain. Spec Section 01 13 10, 1.5.D will also be revised to clarify the requirements of the schedule narrative

<b>T-0006</b>	<b>301 Mission Wall Plywood Wall Barrier Proposal</b>	<b>Closed</b>	<b>12/08/2010</b>	<b>12/18/2010</b>	<b>12/17/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp	Jack Adams		

**Co-Author:****REQUEST:**

Reference: C-5000 and attached sketch

During the Fremont Shoring/301 Mission Wall Coordination Meeting on 12-7-10, it was proposed that a

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Plywood barrier wall be erected in lieu of the triton barrier as agreed to in the meeting with Millennium Partners. The 8' tall plywood barrier wall shall be constructed in segments such that it can be pushed



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

plywood barrier wall be erected in lieu of the triton barrier shown on sheet C-5000 of the 301 Mission Street Interim Screen Wall drawings. This plywood barrier will block the view of the 301 Mission tenants and will allow for the early demolition of the existing screen wall (prior to the construction of the new "interim" screen wall). By doing this it will enable the demolition contractor to start the removal of the deep footings earlier than currently scheduled.

In addition, the deletion of the triton barrier will provide approximately 2' of additional driveway width for 301 Mission. Please review the attached preliminary sketch of the above mentioned plywood barrier and provide engineering/architectural comments and mark ups.

against the new screen wall at the end of each week to accommodate parking. While in position during working hours it will be mechanically fastened to the pavers and to the structure on the back side in order to prevent it from overturning. The exterior face of the wall will be painted "jet mist" to match the existing wall stone. Pilasters will also be painted on the plywood to match the stucco on the existing wall.

W-O will submit a dimensioned sketch drawing with plan, elevation and bracing details to be submitted by your subcontractor once he has completed design and before he begins construction.

<b>T-0007</b>	<b>Field Order #2 - Issued for Programwide</b>	<b>Closed</b>	<b>12/08/2010</b>	<b>12/18/2010</b>	<b>12/13/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Joanne Filipas	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Alfred Lau		

**Co-Author:****REQUEST:**

According to today's OAC meeting, the documents issued with FO#W0-002 are intended for project-wide review and not exclusively for the "BSE Contract" as stated in the Field Order. Please confirm.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

All Field Orders issued by TJPA and TJPA Representative to CM/GC in accordance with 00 07 00 are for the complete scope performed by CM/GC. It is CM/GC's responsibility to direct the requirements to the appropriate trade subcontractors. WO-002 has been re-issued as WO-002R1 on 09DEC2010 with appropriate language to clarify this issue.

<b>T-0008</b>	<b>Specification Section 00 04 82 Cert. of Bidder Regarding Debarment and Suspensi</b>	<b>Closed</b>	<b>12/08/2010</b>	<b>12/18/2010</b>	<b>12/10/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Joanne Filipas	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Alfred Lau		

**Co-Author:****REQUEST:**

Per the TJPA, specification section 00 04 82, Certification of Bidder Regarding Debarment and Suspension, shall no

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Section 00 04 82's Certification of Bidder Regarding Debarment and Suspension reflects the City



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i><b>Number</b></i>	<i><b>Subject</b></i>	<i><b>Status</b></i>	<i><b>Date Created</b></i>	<i><b>Date Required</b></i>	<i><b>Date Answered</b></i>	<i><b>Cost Impact</b></i>	<i><b>Proceed</b></i>
	longer be used. Please confirm.						
	If this is in fact true, please confirm this section will be removed from the project specifications.						procurement requirement. With the current project funding arrangement, meeting USDOT procurement is needed, Section 00 08 13/APA - 25 ¿ Certification Regarding Debarment, Suspension, and Other Responsibility Matters will be used in lieu of 00 04 82, and 00 04 82 will be deleted per Field Order WO-01, which is expected to be issued this week.
T-0009	301 Mission Wall Storage Location for Planter Boxes of 301 Mission Wall	Closed	12/10/2010	12/20/2010	12/13/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford	To: Turner Construction Compan Daphne Faulkner	Answered By: Transbay PMPC		Alfred Lau		
	Co-Author:						
	REQUEST: Reference: 301 Mission Interim Screen Wall Drawings Sheet C-1000  On sheet C-1000, there is a note for the (E) Planter boxes that says "(e) precast planter box (typ) to be remove and stored". Please designate a location for storing the (E) planter boxes.	SUGGESTION:	ANSWER:	Accept Suggestion: <input type="checkbox"/>			The planter boxes are to be stored for re-use in front of the final screen wall. The timing of construction for the final wall needs to be after the train box is complete, but does not have to wait until the new Transbay Terminal is open for bus operations. Millennium did not agree to providing storage on their property.  Please provide for space on Lot M to store the boxes and inform the contractor accordingly.
T-0009.1	301 Mission Wall Storage Location for Planter Boxes of 301 Mission Wall	Closed	12/17/2010	12/27/2010	12/29/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford	To: Turner Construction Compan Daphne Faulkner	Answered By: Turner Construction Comp	Jack Adams			
	Co-Author:						
	REQUEST: In Transworld's review of the existing planter box condition at the 301 Mission Screen Wall, Transworld's viewpoint after close inspection of the site is that the planter boxes were originally installed with the intent of being permanent fixtures. There are connection points for these planter boxes that appear to be initial anchor points for original	SUGGESTION:	ANSWER:	Accept Suggestion: <input type="checkbox"/>			The intent is to salvage and store these boxes in lieu of replacing them with new ones. Per Contract Drawing C-2000 Contractor is to cut and cap all existing irrigation and electrical lines feeding planter boxes. Contractor can remove plants and dirt if needed to uncover and remove anchorage, then



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 6 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

placement of these fixtures and there is concern that these planter boxes were never intended to be reinstalled/relocated after the initial installation. With all do skill and care, Transworld intends to relocate these planter boxes with mininmal damage. As a point of advisement, since these boxes do not appear to be designed for relocation, Transworld is concerned that such action will render these boxes unuseful. Please confirm that the design is to relocate these boxes in lieu of replacing them with new ones.

salvage precast planter boxes.

T-0010	EPA Permit Number	Closed	12/15/2010	12/25/2010	12/16/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Joanne Filipas	To: Turner Construction Compan		Daphne Faulkner	Answered By:Transbay Joint Powers Au Edmond Sum	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Please confirm the EPA permit number is CAR000197558.				Accept Suggestion: <input type="checkbox"/>			
				Confirmed, the EPA identification number to use on waste manifests for the Transit Center construction is CAR 000197558. The site address is 425 Mission Street, San Francisco, CA 94105. The generator and primary contact is Edmond Sum, Engineering Manager, with the Transbay Joint Powers Authority.			

T-0011	301 Mission Wall Waterproofing Submittal	Closed	12/21/2010	12/31/2010	12/29/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By: Turner Construction Com; Jack Adams	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Regarding the waterproofing submittal, since the driveway is still covered with pavers the existing material and application procedure is unknown to Transworld. Therefore a submittal which matches the existing condition can not be provided until Transworld knows additional information. Please confirm that it is acceptable to defer the waterproofing submittal until after the material is exposed and the existing waterproofing material and application method is determined or provide the specific type of				Accept Suggestion: <input type="checkbox"/>			
				Confirmed: Webcor-Obayashi/Transworld can defer the waterproofing submittal until after the material is exposed and the existing waterproofing material and application method is determined.			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 7 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
material and application method required.							
T-0012	301 Mission Wall - Requesting Specifications for Utility Plug	Closed	12/21/2010	12/31/2010	01/04/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      David Hungerford                      To: Turner Construction Compan   Kevin Chiu			Answered By:URS Corporation                      David Fyfe				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Reference: 301 Mission Wall Drawings sheet C-5000				Accept Suggestion: <input type="checkbox"/>			
There is not enough information to determine the material and dimensions for the utility plug at the 301 Mission Wall. Please provide specifications and product data for the "Utility Plug" on sheet C-5000, sheet note 5.				Contractor to determine dimensions of temporary plug in the field and propose material appropriate to meet the requirements specified in note 5 on sheet C-5000.			
T-0013	BSE IFC Table of Contents Discrepancy	Closed	01/05/2011	01/15/2011	01/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Joanne Filipas                      To: Turner Construction Compan   Daphne Faulkner			Answered By:Transbay PMPC                      Alfred Lau				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Ref IFC TOC dated 12/15/10 (attached)				Accept Suggestion: <input type="checkbox"/>			
We have received the revised Issued for Construction (IFC) drawings and specifications for the BSE package. The table of contents has check marks to indicate added specification sections. Specification section 02 41 19, Pile Removal is not noted with a check mark but a revised specification was issued. The excavation and backfillll (31 23 10) section was not re-issued, however, a check mark is next to it.				1. 00 01 10 Rev 3 and 00 01 15 were released to W/O on 07JAN2011, rectifying issues cited in the RFI.			
Also, the revision logs at the end of each section need to be revised to show only the revision number and dates.				2. Since it is TJPA/PMPC's opinion that the formatting of the revision box for the technical sections is adequate and appropriate as is. Change to match the abbreviated version of the Div. 00 and 01 sections should be formally requested by W/O such that Design Team and TJPA/PMPC could fully review that and agreed to from a QA/QC point of view.			
Please advise and re-issue.							
T-0014	TG03 BSE IFC Drawing Set	Closed	01/06/2011	01/16/2011	01/07/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture                      Masashi Kojima                      To: Turner Construction Compan   Daphne Faulkner			Answered By:Transbay PMPC                      Alfred Lau				





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 8 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

##### REQUEST:

We received multiple versions of PDF Drawings G-0000, A-0000, A-0005, and A-0010 (see the attached images) for TG03 IFC Drawing Set.  
Please confirm the following answer from PMPC via email on 1/5/2011.  
"Use the 1/3/2011 CD for the PDF files. Use the 1/4/2011 CD for the DWG and DWF files. Disregard the PDFs on the 1/4/2011 CD."

##### SUGGESTION:

##### ANSWER:

Accept Suggestion: ☐

Confirm that "Use the 1/3/2011 CD for the PDF files. Use the 1/4/2011 CD for the DWG and DWF files. Disregard the PDFs on the 1/4/2011 CD."

<b>T-0015</b>	<b>301 Mission Wall - Concrete Mix Design</b>	<b>Closed</b>	<b>01/07/2011</b>	<b>01/17/2011</b>	<b>01/13/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP David Hungerford		<b>To:</b> Turner Construction Compan Kevin Chiu	<b>Answered By:</b> URS Corporation David Fyfe				

#### Co-Author:

##### REQUEST:

Reference: Attached submittal package TG1901-001 review comments and letter from concrete supplier

Per the comments received on the concrete mix design submitted in submittal package TG1901-001, please confirm that the admixture for air entrainment shall be compliant with ASTM C260.

Transworld has been informed by their concrete supplier that ASTM C260 requires a mix of 6% air entrainment and such amounts of air entrainment are specified only in freeze/thaw areas for durability. The Bay Area is generally not considered a freeze/thaw area and therefore a mix with 6% air entrainment is not typically used. The concrete supplier, Bode Concrete, has provided a letter from BASF related to this specific issue.

##### SUGGESTION:

##### ANSWER:

Accept Suggestion: ☐

Comply with contract documents "Concrete and Reinforcing" Note number 6 on Sheet S-0001, which states:

"Maximum water/cement ratio shall not exceed 0.45 by weight, slump shall be two to six (2"-6") inches. A water reducer or superplasticizer may be added on site after the slump is verified by inspector. Entrained Air: 6% +/- 1-1/2% for durability."

<b>T-0016</b>	<b>BSE - Current Trainbox Structural Drawings</b>	<b>Closed</b>	<b>01/14/2011</b>	<b>01/24/2011</b>	<b>01/18/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture Masashi Kojima		<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc George Metzger				

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

##### REQUEST:

In order to accurately design and locate elements of the bracing, trestle and bridges, please provide the most up-to-date and reliable architectural and structural drawings

##### SUGGESTION:

##### ANSWER:

Accept Suggestion: ☐

See Issued for Construction - Buttress/Shoring/Excavation documents dated 12/10/10.





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

(including cad files). Also, drawings (including CAD files) of the train box and any other component of the transit center that has the potential to conflict with the BSE scope of work.

<b>T-0017</b>	<b>BSE - CDSM Wall Alignment</b>	<b>Closed</b>	<b>01/14/2011</b>	<b>01/24/2011</b>	<b>01/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	----------------------------------	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor/Obayashi Joint Venture Masashi Kojima

**To:** Turner Construction Compan Daphne Faulkner

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

The response to pre-bid RFI #177 indicated that the CDSM shoring line alignment is expected to change "prior to installation". We request the revised re-alignment be provided to us as soon as possible. We are currently designing and issuing steel mill orders based on the current alignment. If the revision comes after mill orders are finalized we risk missing our rolling schedule thereby losing our bid date pricing.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Per TJPA's direction, the Trainbox plan and extent have been modified at the Southwest corner of the site. See the attached sketch SKGT-0001-R1, that show the revised shoring wall alignment. For your reference, see the attached structural sketches that indicate the revised in-progress Trainbox structural columns and shearwalls that will be issued for construction in the future. These sketches are: SKS -0088 Foundation Level - Zone 02 Plan Phase 1, SKS- 0089 Foundation Level - Zone 03 Plan Phase 1, SKS-0090 Foundation Level - Zone 07 Plan Phase 1, SKS-0091 Foundation Level - Zone 10 Plan Phase 1, and SKS-0092 Lower Concourse Level - Partial Plans Phase 1.

<b>T-0017.1</b>	<b>BSE - CDSM South Wall Alignment Construction Drawings</b>	<b>Closed</b>	<b>09/22/2011</b>	<b>10/02/2011</b>	<b>10/04/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	--	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP Joanne Filipas

**To:** Turner Construction Compan Gary Krutsch

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:**

**REQUEST:**

Reference RFI T-0017 and attached Sketches

**SUGGESTION:**

Please confirm the attached sketches issued and approved with CR T-005B are "For Construction" and the notes indicating "draft in progress" and "not for regulatory approval, permitting or construction" will be removed on a future issuance of these sheets.

**ANSWER:** **Accept Suggestion:** ☐

The sketches attached to previous RFI's reflect the confirmed CDSM shoring alignment.

Text indicating "draft in progress" and "not for regulatory approval, permitting or construction" shall not be transferred to revised "Issued for Construction" drawings.

Documents that are included in Change Orders shall



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

be considered a Contract Document.

T-0018	BSE - Waler to CDSM Wall spacing	Closed	01/14/2011	01/24/2011	01/24/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture		Masashi Kojima	To: Turner Construction Compan		Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:			SUGGESTION:				ANSWER:
<p>There may be a potential conflict with the walers and the train box reinforcement. Spec 31-55-00 allows 6" minimum spacing from CDSM Wall to face of waler, but based upon Balfour Beatty past experience with a very similar situation, it is felt that the 6" space is not sufficient because of the following:</p> <p>1. There does not appear to be enough room between the bottom of the waler and the CJ for a lap splice of the vertical reinforcing as depicted on sheet S -3201. Reference the attached drawing.</p> <p>2. The 6" gap is difficult to snake reinforcement through without damaging the waterproofing attached to the wall.</p> <p>BBI recommends making the space between the face of the CDSM wall and the waler equal to the wall thickness. This would eliminate conflicts with the rebar and walers, reduce reinforcement splicing and reinforcing congestion.</p> <p>Additionally attached is an example where the space behind the waler was equal to the wall thickness.</p> <p>Please advise whether to continue the design with the current 6" minimum space or advise if the space increases.</p>			<p>Accept Suggestion: <input type="checkbox"/></p> <p>Thornton Tomasetti Response: It is permissible to use mechanical couplers for the vertical reinforcement interrupted by the whaler for the condition where whaler is 6" min away from CDSM wall. The proposed increase in whaler to CDSM wall spacing concept is acceptable by TT regarding the Trainbox wall, pending Arup's evaluation/comments. Submit details of revised scheme for review.</p> <p>ARUP Response: The design team cannot comment on the impact of the Contractor's proposal, without seeing more details of the shoring wall internal bracing system and associated proposed details.</p> <p>Adamson Associates Response: The proposal cannot be evaluated based on the limited documents submitted. However, it appears that the bracing and attachments shown in the drawing attached to this RFI will need to be modified to allow for the waterproofing system to be appropriately installed as the Wale system is removed.</p>				

T-0019	301 Mission Wall - Stone Panel Anchorage to 301 Mission's Screen Wall			Closed	01/18/2011	01/28/2011	01/31/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By:URS Corporation		David Fyfe	
Co-Author:									
REQUEST:			SUGGESTION:			ANSWER:			
Reference: Attached pages from the 2008 Building Code						Accept Suggestion: <input type="checkbox"/>			
						Proposed anchorage system can not be evaluated			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 11 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>After removing stone panels in the demolition of the original 301 Mission Wall, the existing system of the stone panels does not utilize an anchoring system for mounting the stone panels to the wall. In addition, section 6.2.2.4 of the 2008 Building code does not specify mechanical fasteners for masonry less than 2-5/8" thick. The stone thickness used on the new wall will match the thickness of the existing, which is approx 10mm thick. Therefore, according to section 6.3 of the 2008 Building Code, the stone panel system for the Transbay Interim Screen Wall that should be used is the adhesion application.</p> <p>Please confirm that Transworld can use the adhered method for the stone panels in lieu of mechanical fasteners.</p>						



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference Sheet D-2203 and Specification Section 02 41 01

The BSE contract drawings shows a temporary shoring and bracing that is installed by the demo contract and subsequently removed by the BSE contract. In order for Balfour Beatty to properly plan their work, they request the following information:

1 - The shoring design drawings for the shoring wall on the east side of Fremont St. (shown on D-2203) that was submitted by the Demo Contractor.

2 - As-built location of the above mentioned shoring wall.

3 - Bracing drawings and details that submitted for the basement wall rakers that are schematically shown on detail 1 of sheet D-5100 and details 1 & 2 on sheet D-5102

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

1 - Approved Shop Drawings Submittal #312000-01.3 - Interim Shoring Wall REV 3 will be transmitted through Constructware today 2/2/11.

2 - Wall is currently being constructed in the location indicated on the approved shop drawings.

3 - Bracing drawings are not currently available for transmission. They will be transmitted to W/O when available.

**T-0021 BSE - Existing Unknown Concrete Wall****Closed****01/27/2011 02/07/2011 02/04/2011 Potentially** ☐**From:** Webcor Construction LP Nhi Tran**To:** Turner Construction Company Daphne Faulkner**Answered By:** URS Corporation

David Fyfe

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal**REQUEST:**

Reference Drawing Set D and Specification Section 02 41 01

Based upon Balfour Beatty observations of the site, there appears to be a concrete wall approximately 18in wide that is outside of the existing terminal basement walls adjacent to the 301 Mission Property line and the east side of Fremont St. that is not shown on BSE contract drawings or the existing Terminal drawings.

Does this wall continue around the entire perimeter of the Zone 4 basement?

Will this wall be removed by the demo contract prior to BSE NTP #02?

Please provide as-builts of the wall location if it is to remain.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Full extent of unforeseen concrete foundation wall not confirmed.

Existing Terminal and Ramps Demolition Project contractor (EBI) has been directed to remove extents of unforeseen foundation wall that are within limits of removal as shown in contract documents to a depth consistent with removal of adjacent structures (pile caps/footings).

Portion of unforeseen concrete foundation wall within Fremont Street to remain in place. Portions of unforeseen concrete foundation wall that are exposed but that are to remain in place are to be documented via as-builts. As-builts will be provided as completed.

Existence of similar walls in Zone 2 and 3 not



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Does a similar wall exist around the basement walls in Zone 2 and 3?					confirmed. Attached San Francisco-Oakland Bay Bridge, Department of Trinagulation and Surveys, San Francisco Topography Maps dated August 1934 (pages 27-32) are the best available information at this time and have been provided for your information.	
<hr/>							
T-0021.1	BSE - As Built Location of Concrete Foundation Wall Along Fremont St.	Closed	03/01/2011	03/11/2011	03/15/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Turner Construction Comp Jack Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference RFI #T-0021 (BBI #005) and Drawing Set D				Portion of unforeseen concrete foundation wall within Fremont Street to remain in place as shown on attached. The attached San Francisco-Oakland Bay Bridge, Department of Triangulation and Surveys, San Francisco Topography Maps dated August 1934 are the best available information at this time were provided in RFI T-0021 Rev.0. This is believed to be existing concrete full basement wall extending under the sidewalks remaining from pre Transbay factory/businesses.			
Please provide BBII with as-built locations of the unforeseen concrete foundation wall within Fremont Street which is to remain in place. Please also provide as-built locations for the soldier pile & tie back wall which parallels Fremont Street adjacent to the Buttress. BBII and BECHO want to confirm that there is enough room for their equipment to drill the Buttress Shafts along Fremont Street, and to identify any potential conflicts.				As-Built Fremont St. Shoring wall installed by Evans Bros/Malcolm Inc. the soldier pile and tie back wall is also attached. Survey points for the I-Beams was previously transmitted to Webcor-Obayashi Transmittal No. 140-00650.			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 14 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0022	Quality Management System - Org. Chart	Closed	01/28/2011	02/07/2011	02/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Joanne Filipas		To: Turner Construction Compan   Daphne Faulkner		Answered By: Transbay PMPC                      Jim Coughlin			
Co-Author:							
REQUEST: Ref - Attached Org. Chart  Please identify the appropriate personnel associated with the attached org. chart found the in the program Quality Management System.		SUGGESTION:		ANSWER:              Accept Suggestion: <input type="checkbox"/> A revised PMPC organization chart is with TJPA for review. However, I don't understand why this is an RFI. What W/O activity requires this information? The organization chart in the QMS is deliberately generic (titles only) and we have no intention of changing it.			
<hr/>							
T-0023	Construction Manager Quality Plan	Closed	01/31/2011	02/10/2011	02/07/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture                      Bob Garcia		To: Turner Construction Compan   Daphne Faulkner		Answered By: Turner Construction Comp; Jack Adams			
Co-Author:							
REQUEST: Page 30 Paragraph 8.5.5 of the QMS manual makes reference to "the construction management consultant's quality plan". Please advise when the Construction Managers Quality Plan for the TTC will be issued?		SUGGESTION:		ANSWER:              Accept Suggestion: <input type="checkbox"/> Contractually - the Draft Quality Plan from CMO Construction Manager Oversight is due 2/14/11. Final Quality Plan is due 3/28/11.			
<hr/>							
T-0024	Re-bracing for Revised SW Corner Alignment	Closed	02/02/2011	02/11/2011	02/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By: Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Sheet GT-1112 and Specification Section 31 55 00  The response to RFI T-0017 showed a revised CDSM wall alignment at the SW corner of zone 1 and the addition of the structural shear walls on wall X1-1. The RFI response implied that BBII's cross-lot bracing needed to be re-designed so there are no conflicts with the concrete columns and shear walls. In order to minimize the cost and impacts as a result of this change, BBII suggests using rakers for the re-bracing in this corner.  The cross lot bracing would be installed as specified for the initial excavation (ref stage 10 on GT-1112) similar to the layout shown on the attached sketch #1.		SUGGESTION:		ANSWER:              Accept Suggestion: <input type="checkbox"/> ARUP Response:  The use of rakers as rebracing is acceptable provided the design criteria specified in the construction documents is satisfied. This includes, but is not limited to, the bracing stiffness requirements. The effective stiffness of the rakers will be affected by the stiffness of the permanent train box wall and mat slab and tiedowns.  The response to this RFI must include input from Thornton Tomasetti regarding the impact on the			



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 15 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Then for the re-bracing stage 12 and stage 15 rakers could be used in locations shown in attachment sketch #2.</p> <p>Would a design based on this concept be acceptable?</p> <p>If not, BBII is available and willing to brainstorm additional ideas.</p>			<p>permanent structural elements.</p> <p>As discussed at the Feb 9, 2011 TG03 BSE Subcontractor - Design Team Coordination Meeting, it may be possible to reduce the requirement for rebracing if the permanent trainbox shear walls can be built sequentially and their construction coordinated with the removal of struts. Arup suggests a meeting with Arup, the Contractor, and Thornton Tomasetti as this requires an understanding of the proposed construction sequence and an evaluation of the permanent structural elements.</p> <p>Thornton Tomasetti (TT) Response: We have review the response by Arup, and found this is consistent with our prior discussion with Arup. No further comment from TT is needed.</p>			
T-0025	<b>BSE - Request for Recent Groundwater Monitoring Data</b>	<b>Closed</b>	<b>02/02/2011</b>	<b>02/12/2011</b>	<b>02/11/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal	<b>To:</b> Turner Construction Compan      Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc      George Metzger				
	<b>REQUEST:</b> Reference Specification Section 31 55 00 and GDR Table 7-2 (attached)  The Project GDR table 7-2 shows the last GW level reading in Feb of 2010. Can BBII receive a copy of any readings taken within the last year?	<b>SUGGESTION:</b>	<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/> See attached T0025-SK01 for groundwater readings.			
T-0026	<b>301 Mission Wall - Sample chip of paint color for exposed concrete</b>	<b>Closed</b>	<b>02/07/2011</b>	<b>02/17/2011</b>	<b>02/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      David Hungerford <b>Co-Author:</b>	<b>To:</b> Turner Construction Compan      Kevin Chiu	<b>Answered By:</b> URS Corporation      David Fyfe				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference: A-5000 note 6

Note 6 on sheet A-5000 states, "Color of paint for exposed concrete to match sample chip provided by TJPA representative". Please provide color sample chip per this note.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Omit note 6 on sheet A-5000. Color of paint for exposed concrete wall shall match color of paint provided on existing exposed planter boxes.

<b>T-0027</b>	<b>301 Mission Screen Wall - Dowels for Screen Wall</b>	<b>Closed</b>	<b>02/08/2011</b>	<b>02/18/2011</b>	<b>02/18/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP      David Hungerford      **To:** Turner Construction Compan   Kevin Chiu

**Answered By:** URS Corporation      David Fyfe

**Co-Author:****REQUEST:**

Reference: Attached pictures

Upon laying out the dowel embedment locations for the new concrete wall, the locations are very close to the edge of the existing manholes and vault lids. Transworld is concerned that the location of the doweling is too close to these existing items and does not believe it to be the intent. Please see attached pictures showing the areas of concern. Please respond ASAP with direction on where to place the dowels, as Transworld has no slack in the schedule to accomodate any stoppage of work.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

The final condition for the dowels drilled into the 301 Mission existing basement perimeter wall is shown on attached sketch. Dowels shall be drilled 6 inches from exterior face of existing basement perimeter wall. Verify location of existing basement perimeter wall prior to drilling. These dowels remain within 1 inch of centerline of the new concrete wall.

See attached RFI coordination sketch.

<b>T-0027.1</b>	<b>301 Mission Screen Wall - Dowels for Concrete Wall: Layout Acceptance</b>	<b>Closed</b>	<b>03/29/2011</b>	<b>04/08/2011</b>	<b>04/05/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	--	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP      David Hungerford      **To:** Turner Construction Compan   Daphne Faulkner

**Answered By:** URS Corporation      David Fyfe

**Co-Author:****REQUEST:**

Reference: RFI T-0027

Please confirm that per site walk on 03/22/11 with Danny Lo and Erik Liu of Transworld, David Hungerford with Webcor-Obayashi, and David Fyfe and Christine Baudier of URS, that the layout of the core holes for the #8 dowels in the concrete wall are acceptable.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

It was verified in the field that #8 dowels were drilled approximately 6" from the exterior face of the existing vault wall and that #8 dowels will have a minimum 2" concrete cover.

The layout of the #8 dowels is acceptable.

RFI T-0027 included a response sketch directing dowels to be in line and set 6" from the south face of the existing





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 17 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

wall below. Due to the existing condition of the wall below, which was poured against a shoring wall and therefore not exactly straight, the dowels are laid out to be in line with each other and therefore vary in dimension measured off of the south face of the existing basement wall below. Please confirm, as it is understood, that the existing layout is acceptable. Dowels are being set in epoxy today, so an immediate response is requested.

T-0028	BSE - Bracing Stiffness Calculation Confirmation		Closed	02/08/2011	02/18/2011	02/09/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:Arup		Kevin Clinch	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal						
REQUEST:		SUGGESTION:			ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference Specification Section 31 55 00 and attached sample calculations					The methodology shown in these calculations for determining the internal bracing system stiffness is consistent with that shown in response to pre-bid RFI #TG0300-058.			
The response to pre-bid RFI #TG0300-058 provided an equation for calculating the stiffness of the bracing system. Attached is BBII's designer's sample "template" calculation for stiffness for the proposed waler and strut bracing system.					Complete details of the internal bracing system were not included in the RFI. It is therefore not possible to conclude that all elements affecting the stiffness of the internal bracing system have been considered and included in the analysis.			
BBII requests a confirmation that the designer's interpretation and use of the provided stiffness calculation is correct, prior to progressing further submittal calculations and procuring steel bracing members.					These calculations have not been reviewed for conformance with other design criteria. A more complete review will be undertaken when the calculations are issued as a submittal.			
Additionally, BBII requests an expedited response to this RFI.								

T-0029	301 Mission Screen Wall - Sub Surface Structure Conflict with New Wall Location			Closed	02/09/2011	02/19/2011	02/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By:URS Corporation		David Fye	
Co-Author:									
REQUEST:			SUGGESTION:			ANSWER:			
Reference: Photograph attachments 1-8						Accept Suggestion: <input type="checkbox"/>			
In laying out the location of the new concrete wall,						To accommodate unforeseen location of existing structures, new concrete wall to be shifted south so that the south face of new concrete wall is flush with			



<b><i>Number</i></b>	<b><i>Subject</i></b>	<b><i>Status</i></b>	<b><i>Date Created</i></b>	<b><i>Date Required</i></b>	<b><i>Date Answered</i></b>	<b><i>Cost Impact</i></b>	<b><i>Proceed</i></b>
	<p>Transworld has determined that the new concrete wall will extend over existing sub-surface structures, which is not per the contract documents. Please reference attached photos.</p> <p>First, there are two manhole covers that are incorporated in concrete rings. These rings conflict with the location of the new wall and are included in photographed attachments. Due to the size of these concrete rings, a portion of the ring will be buried by the new wall. Second, the steel frame of the existing electrical vault doors is of similar condition as the manhole covers; this condition can also be seen in the photographed attachments.</p> <p>Please confirm that Transworld is to proceed with the plan location of the new concrete wall which will cover and bury a portin of these existing sub-surface structures.</p>						<p>the exterior face of the existing 301 Mission street basement perimeter wall.</p> <p>Interfering regions of existing sub-surface structures (manhole rings and vault sides) at the base of new concrete wall shall be incorporated into new concrete wall. All surfaces of interfering concrete regions to be incorporated into new concrete wall shall be prepared as bonded construction joints. Verify functioning of manhole and vault lids/openings are not obstructed by new concrete.</p> <p>Contractor to provide chalk line at updated south and north faces of new concrete wall for verification of updated location in field by TJPA representative prior to construction of new concrete wall.</p> <p>See attached RFI coordination sketch.</p>



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 19 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0030	301 Mission Screen Wall - Detail required for concrete sleeve installation	Closed	02/09/2011	02/19/2011	02/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By: URS Corporation      David Fyfe				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Attached 1/C-5001 and photo					Accept Suggestion: <input type="checkbox"/>		
The existing condition of the manhole covers are not consistent with the contract documents. Detail 1/C - 5001 indicates that the existing manhole sits above an existing concrete slab, to which is to be drilled into with 1 inch embedment. However, please refer to the attached photograph in attachment 1 which shows the manhole cover is actually a part of a subsurface concrete ring assembly, and wrapped with waterproofing. Please provide a new detail and instructions for the installation of the required concrete sleeve and a detail for penetrating the existing waterproofing.					Per contract documents;		
					Remove manhole lid;		
					Retain existing concrete and steel collar/frame;		
					Dowel into existing concrete collar/frame (1" max) with #3 hoops @ 10" O.C.;		
					Prepare existing concrete surfaces to be incorporated into new sleeve as bonded construction joints;		
					Cast in place 6" thick concrete sleeve directly over manhole (concrete and steel collar/frame);		
					Provide Kadee SS 1/8" circular grate satin finish.		
T-0030.1	301 Mission Screen Wall - Concrete sleeve installation	Closed	02/24/2011	03/06/2011	03/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Daphne Faulkner			Answered By: URS Corporation      David Fyfe				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: RFI T-0030					Accept Suggestion: <input type="checkbox"/>		
The final measurement from the edge of the steel collar/frame at the existing manholes to the face of new wall is (+/-) 4-3/4", this dimension less form material (+/-) 3/4" to 1", results in the new cast in place concrete sleeve to be 4" thick at the point closest to the wall . Response to RFI T-0030 notes that the sleeve is to be 6" thick. Please clarify if the 4" thickness is acceptable.					4" minimum thickness acceptable only where new CIP concrete sleeve is in conflict with new interim screen wall. Remaining portions of new CIP concrete sleeve not in conflict with new interim screen wall shall be 6" thick per contract documents.		
					Contractor shall provide 3/8" expansion joint material between face of new interim screen wall and outside face of new CIP concrete sleeve.		
					See attached coordination sketch.		
T-0031	301 Mission Screen Wall - In-ground lighting	Closed	02/09/2011	02/19/2011	02/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By: URS Corporation      David Fyfe				
Co-Author:							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference: Note 10 on C-2000

The new in-ground lighting as anticipated in plans and note 10 on page C - 2000 must be substituted because the contract design cannot be accommodated in the new construction. The contract design requires:

1) that the new lighting match the existing with the same model and size.

The issue here is that the existing light fixtures are larger than can be accommodated within the thickness of the new construction.

2) that the existing electrical lines servicing the existing lights be disconnected so that it is reconnected to the new lights.

The issue here is that the electrical lines for the existing light fixtures are embedded in the concrete curb that is to be removed. Upon removal of the existing concrete curb, there will be no existing electrical lines to reconnect for the new lighting power.

Please provide a new detail and instructions for the in-ground lighting.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Additional information is required to understand/interpret existing conditions and facilitate a response to this RFI.

Please provide all available information on existing conditions that pertain to this RFI, including but not limited to the following;

1. type, model, size and manufacturer of existing light fixtures;
2. type and size of existing electrical conduit/conductor;
3. sketch illustrating alignment of existing electrical conduit/conductor, including junction boxes, termination points and power source; and,
4. sketch illustrating thickness of existing/new construction where new lights are to be set/placed.

<b>T-0031.1</b>	<b>301 Mission Wall - In-ground lighting</b>	<b>Closed</b>	<b>03/31/2011</b>	<b>04/10/2011</b>	<b>04/06/2011</b>	<b>Potentially</b> <input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> URS Corporation	David Fyfe	

**Co-Author:****REQUEST:**

Reference: Attached photos and sketch

Response to RFI T-0031 requested additional information.

1. See the attached pictures for the information known about the lights that were removed.

2. The existing conduit is 3/4"

3. Attached is a sketch and a photo showing the approximate location of the existing conduit.

There is one existing conduit on the south side of the wall protruding from the soil coming from the basement wall. The electrical conduit is approximately 6 feet east from the

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

We note that the Contractor has installed new electrical conduit and outlet boxes within the new concrete wall.

To document the as-built conditions of all work and to verify conformance with all applicable codes and standards, Contractor shall submit drawing(s) illustrating full routing of all conduit(s), including alignment, conduit material type, couplings/fittings, outlet boxes, etc. Drawings shall detail the connection between existing electrical line and new electrical line and connection between new electrical line and new lights/fixtures.



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>	
	<p>western transformer vault vent opening. Attached you can see the pictures of this conduit that is currently sticking out below the scaffolding planking.</p> <p>4. Please advise the location and mounting details for the new lights.</p>			<p>Drawings shall be sufficiently detailed to document all electrical work is in conformance with all applicable codes and standards, and shall be sufficient for permitting and/or inspection of electrical work.</p> <p>All conduit and/or boxes shall be set so as to provide minimum 1' clear from all rebar, anchor bolts or other embedded structural steel items. Outlet boxes located in new concrete wall shall be fully coordinated for direct connection with the new light(s)/fixture(s).</p> <p>It is our understanding that the existing 301 Mission driveway/roadway section (approximately 3' paver over 1' sand bed over 4" to 8" concrete topping slab) does not allow use of new lights/fixtures matching original lights/fixtures. It is recommended use of the Ligman Paragon square 186mm (50338-N-35) light/fixture, or approved equal, in lieu of the original light/fixture (Hydrel M9410). The new Ligman Paragon square light fixture (or equivalent fixture) shall be placed adjacent to new concrete wall and shall be mounted exposed above ground (not in ground) with the base of new light fixture located aligned to top of paver(s). See attached coordination sketch.</p> <p>Please confirm the use of Ligman Paragon square 186mm (50338-N-35) light(s)/fixture(s) can be fully coordinated with all work.</p> <p>See attached product data for Ligman Paragon square 186mm (50338-N-35) light/fixture.</p> <p>In addition, in response to item 2 of RFI No.T-0031, Contractor please coordinate with 301 Mission Building management to ensure that the new light shall be connected correctly to the existing power supply.</p>				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 22 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Co-Author:

REQUEST:

Reference: Attached light specs

Per field conversations with 301 Mission staff, the light fixture proposed in response to RFI T-0031.1 is not acceptable. Webcor-Obayashi has coordinated with 301 Mission management personnel and the lighting attachment to this RFI has been requested by 301 Mission. Confirm that the attached light specs are to be installed at the stucco slot locations.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

URS provided four lighting options to Webcor-Obayashi on April 22, 2011 to coordinate with 301 Mission management personnel. It is noted that the lighting attachment to this RFI (Allscape BL-81) is similar to one of the four lighting options provided by URS (Allscape BL-80).

The Allscape BL-80 model (with 39 watt/240 volt, metal halide lamp and prismatic tempered glass lens) was selected by URS because it provides photometric qualities and operating electrical amperage comparable to the original lighting fixture (Hydrel M9410, 35 watts/277 volt, metal halide lamp).

It is noted that the lighting attachment to this RFI, Allscape BL-81 model (with 150 watt/277 volt, metal halide lamp and prismatic tempered glass lens) may provide photometric qualities and operating electrical amperage not similar to the original lighting fixture. It is also noted that the Allscape BL-81 model luminaire is 14.5" wide, which is greater than the 14" width stucco slot(s) specified in the contract documents.

Prior to order and/or installation of the lighting attachment to this RFI (Allscape BL-81, 150 watt/277 volt metal halide lamp) Contractor to confirm the following;

301 Mission building existing electrical circuit/feed that is to be used is sufficient to handle electrical load required by the Allscape BL-81, 150 watt/277 volt metal halide lamp(s);  
14.5" width of the BL-81 luminaire(s) can fit within the stucco slot(s) constructed, note contract documents specify 14" wide stucco slot(s); and  
photometric qualities of 150 watt lamp (e.g. lighting intensity/brightness) is acceptable to/preferred by 301 Mission management personnel.

T-0032

301 Mission Screen Wall - Tie Beam Below Grade Conection to Screen Wall

Closed

From: Webcor Construction LP

David Hungerford

To: Turner Construction Compan Kevin Chiu

02/09/2011

02/19/2011

02/23/2011

Potentially

☐

Answered By:URS Corporation

David Fyfe



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 23 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Co-Author:

REQUEST:

Reference: Attached photo

See attached picture of 301 Mission Screen Wall construction in progress. This picture was taken Nov of 2008, and shows a lateral support tie beam below grade connected to each vertical steel member of the screen wall. These tie beams are not shown on the plans and need to be cut so that the existing wall can be removed by others, as this scope is below and out of Transworld's contract. Please provide details for this condition.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

RESPONSE 02/16/2011 per David Fyfe

Tie beams shall be saw cut cleanly at exterior face of existing 301 Mission street basement perimeter wall.

Restoration of waterproofing is required.

Detail 1 on attached 301 Mission Street drawing S3-3.13 (rev 6, 04/04/2008) is the best available information at this time and has been provided for your information.

-----  
-----  
-----

RESPONSE 02/23/2011 per Kevin Chiu

Pending approval by the TJPA, a CR will be issued.

T-0033	301 Mission Screen Wall - Concrete Demo Scope of Work Clarification	Closed	02/14/2011	02/24/2011	02/25/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	David Hungerford	To:	Turner Construction Compan	Daphne Faulkner	Answered By:	Turner Construction Comp Jack Adams

Co-Author:

REQUEST:

Reference: attached text document

Please see attached text document explaining Transworld's request.

Transworld Construction requests that TJPA, Turner Construction, and Webcor-Obayashi make a final determination as to work scope based on the documents and discussions provided herein. It is Transworld's contention and belief that the 301 Mission wall relocation work scope does not require Transworld to remove the (e) concrete structure below the dark gray colored curb. For clarity see Exhibit D, page 1 and page 2.

Attached please see text explanation and Exhibits A, B, C, and D.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

Response from David Fyfe on 2/23/11:  
Removal of element is in scope per contract documents, see detail B on sheet C-5000.

-----  
-----  
-----

Response from John Adams on 2/24/11:  
1. Demolition scope Utility Vault "foundation" to be demolished by Evans Bros see attached sketch C-5000 Detail A.  
2. Existing "Concrete Slab" in accord with attached sketch C-5000 Detail B - this element is in scope and is to be removed by Transworld per C-5000 Detail B including concrete as shown.  
3. Demolition scope "unforeseen grade beam" to be severed by Evans Bros see attached sketch C-5000



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 24 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Detail B.							
T-0034	301 Mission Screen Wall - Change of walkway from original logistics	Closed	02/14/2011	02/24/2011	02/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation	David Fyfe
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
The conditions of the worksite have changed significantly from what Transworld originally bid and have changed the entire logistical plan for the execution of this contract work. The original logistics plan, as well as the contract documents, show a walkway along the South side of the original existing screen wall. Now, the entire walkway has been removed and nothing exists except an open pit. Please see all four pages of Exhibit A that is attached to this RFI. This change of condition affects Transworld's ability to execute the contract work. There is no longer available workspace to erect the structural steel and the South side finishes. This condition now requires a modification to our contract such that Transworld may use the parking/driveway on the North side of current barricaded area. The exact impact is not yet fully developed because there are ongoing discussions related to further demolition and removal of concrete structures that currently exist for our construction work. If the current and remaining working areas are further deteriorated by additional demolition, even greater challenges will arise. Transworld Construction requests reasonable accommodations for access to the worksite from the parking/driveway that is North of the currently erected temporary barricade wall.				301 Mission Street driveway shall remain open to building tenants/occupants for through traffic at all times.			
				Per 2/17/11 field meeting, if coordinated with and approved by 301 Mission Street property owner in advance, one lane of driveway may be temporarily used short term by contractor for deliveries.			
				Contractor shall prepare and submit a Logistics Plan to the TJPA Representative and 301 Mission Street property owner for review and approval prior to use of driveway. At a minimum Logistics plan shall include the following;			
				- scheduled dates and duration of driveway use; - traffic control plan/sketch (including extent of driveway to be used, proposed/required signs, barricades, flagmen, etc.); and, - extent of temporary barricade wall dismantling and restoration.			
				Contractor shall provide all necessary traffic control measures (signs, barricades, fencing, flagmen, etc.) during use of driveway as directed by the TJPA Representative and/or 301 Mission Street property owner.			
				Contractor shall restore temporary barricade wall at end of each day if dismantled.			
T-0035	BSE - Additional Trainbox Drawings	Closed	02/16/2011	02/26/2011	02/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Adamson Associates, Inc	George Metzger





## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

## 30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Sheet S-3201 and Specification Section 31 55 00

BBII believes that they do not have enough detailed drawings of the Train Box to properly design a conflict-free bracing system. BBII states that the architectural sections A1-6000 through A1-6231 lack detail regarding dimensions of structural components (i.e. beams, walls, ramps and etc.). The only structural section BBII currently has is on S-3201 and there appears to be a beam running along C line, however that beam is not identified in the table.

BBII is requesting additional structural section and elevation drawings, specifically:

- A dimensioned longitudinal elevation of the entire trainbox, showing the most current location and depths of beams.
- Full cross section of typical trainbox as well as any other non typical section. Shown any cross slopes, high and low points of concrete.
- Detailed sections of the SW corner showing dimensions and elevations of any ramps or locations where there are on ground floor slabs.

BBII would prefer CAD files if possible, however hardcopies will work.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

The design of the permanent structure inside the shoring wall is in progress and subject to change. At 50% Construction Documents on December 20, 2010 an in-progress 3D REVIT Program Computer Model was issued to TJPB and TJPB shared this model with W/O for informational purposes on the progress of the permanent structure design. We suggest that for reference only, W/O review the possible locations for shoring struts with the in-progress 3D REVIT Program Computer Model. This 3D REVIT Program Computer Model provides more information than you would receive in the limited number of sections requested above.

<b>T-0035.1</b>	<b>BSE - Request Structure Section Drawings</b>	<b>Closed</b>	<b>03/15/2011</b>	<b>03/25/2011</b>	<b>03/23/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc George Metzger			

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference attached sheet

As discussed in 03/09/11 TG03 Design Team meeting, AAI said they would provide sections of the trainbox structure if BBII indentified where to take the cuts. Below is a list and the attached shows where BBII would like these taken

CUT # - DESCRIPTION

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

See the attached in-progress design documents at the requested locations. This information is being provided as reference information for use in determining possible locations for the shoring struts and is not issued as a construction document.



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 26 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

- 1.A - Full length section along Grid A
- 1.E - Full length section along Grid E
- 1.J - Full length section along Grid J unfolded along wall alignment
- 2 - Full width section at Column Line 3
- 3 - Full width section at Column Line 7
- 4 - Full width section at Column Line 10.5
- 5 - Full width section at Column Line 18 (CL First St)
- 6 - Full width section at Column Line 23
- 7 - Full width section at Column Line 26 (CL Freemont St)
- 8 - Full width section at Column Line 30
- 9 - Full width section at Column Line 34.5 (Beale St.)
- 10 - Section at "flare?"
- 11 - Section at "flare?"

Please provide either electronic 2D CAD files at for each section where BBII can dimension, or hardcopy drawings that are fully dimensioned.

T-0036	BSE - Bracing Load Discrepancy	Closed	02/16/2011	02/26/2011	02/18/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger	
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal					
REQUEST:			SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Sheet GT-1110, Specification Section 31 55 00, and attached memo		See the attached reply.					
Please see the attached memo from BBII's bracing design engineer, PB&A.		Attached Response from ARUP - 02/18/2011 Kevin Clinch					
PB&A are finding more than a slight discrepancy between the bracing loads given in the tables of GT-1110 when compared to loads they calculated using the "design profile" earth pressured diagram as shown on the same sheet.		The internal bracing system shall be designed to satisfy the criteria specified in the contract documents including the strut loads given in the tables on GT-1110.					
As required by note 6 on GT-1110, BBII is continuing their design with the forces given in the tables, however BBII feels it is prudent to note the variances.		Our review of the calculations included with the RFI was limited to that necessary to understand the Contractor's questions. The calculations have not been reviewed for conformance with the contract documents. A more complete review will be undertaken when the calculations are issued as a					



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 27 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
BBII requests confirmation that the forces given in the tables of GT-1110 are correct.			submittal. Additional calculation documentation and / or a meeting with the Contractor's engineer will be required for us to interpret the software output and to facilitate our review.				
<hr/>							
T-0037	BSE - Request for Utility As-Builts	Closed	02/17/2011	02/28/2011	03/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner		
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By:AECOM Technical Service Eric Zagol				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Sheets U-2021 to U-2023, U-4005		Phase I electrical ducts as shown on the AECOM Relocation of Utilities Project (RUP) Plans sheets U-2020, U-2021, U-2022 and U-2023 on First and Fremont streets have been constructed or will be constructed by PG&E. AECOM has requested as-built information from PG&E on what has been constructed to date and will provide upon receipt.					
BBII is requesting as-built data for the phase 1 electrical ductbanks at First St. and Fremont St. BBII is particularly interested in receiving the coordinates, elevations, width and depths of the ductbank where they intersect the CDSM wall as shown on utility drawings U-2021 through U-2023		Sections X and Y on RUP sheet U-4005 shows utilities in the proposed final locations following construction of the Transit Center substructure and permanent utility corridors on First and Fremont streets. Not all utilities shown need to be incorporated and supported by the interim bridge structures on First and Fremont streets.					
Additionally, BBII would like to receive more info on the phase 2 utilities shown in section X&Y on U-4005: - What material are these ducts and are they encased? - Can the spacing shown on U-4005 be shifted to accommodate bridge girder spacing?		Only PG&E and Verizon Phase II utilities need to be incorporated and supported from the interim bridge structure. The remaining utilities i.e. AT&T, TCG and PG&E "NIP" (PG&E New Bushiness) indicated in section, will be constructed following construction of the Transit Center substructure and permanent utility corridors.					
		PG&E has proposed steel conduit for the ducts to be supported by the interim bridge structures. Verizon has proposed PVC conduits.					
		Proposed modifications to utility alignments (horizontal and vertical) and conduit configuration may be acceptable upon review and acceptance by AECOM and the private utility. AECOM suggests a coordination meeting between BBII, AECOM and the					



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 28 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
private utilities to help facilitate the interim bridge and utilities support design.							
T-0037.1	BSE - Request for Utility As-Builts	Closed	03/24/2011	04/04/2011	04/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:AECOM Technical Service Eric Zagol			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI #T-0037 and Sheets U-2020, U-2021, U-2022 and U-2023  Please provide BBI with as-built information from PG&E on what has been constructed to date, as mentioned in the response to RFI #T-0037		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> PG&E's substructure work on First and Fremont Streets is scheduled to be complete by April 28, 2011. PG&E will provide as-built drawings following completion of their work.			
T-0037.2	BSE - Request for Utility As-Builts	Closed	03/24/2011	04/28/2011	04/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Daphne Faulkner			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI #T-0037.1  Please provide BBI with as-built information from PG&E on what has been constructed to date, as mentioned in the response to RFI #T-0037 and RFI#T-0037.1		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Please see response to RFI #T0037.1. Asbuilts will be available once received from PGE. This issue has being denoted in the open issues log and does not require an open RFI to track the issuance of the asbuilts.			
T-0038	BSE - Shear Walls for Rebracing	Closed	02/17/2011	02/27/2011	02/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference response to RFI #T-0024, Sheet GT-1112, and attached drawing		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Thornton Tomasetti Response:			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 29 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>The response to RFI #T-0024 noted discussions that took place during the TG03 BSE Trade Subcontractor - Design Team Coordination Meeting, about utilizing the permanent shear wall as re-bracing during the train box build out.</p> <p>Attached is a sketch showing a staged wall construction and strut removal sequence that BBII believes would eliminate the need for re-bracing along the SW Wall.</p> <p>Is this sequence acceptable?</p>			<p>The conditions depicted in Stage 12 &amp; 13 of sketch GT-1112 for shearwalls to be used as re-brace elements will cause overstressing of the mat slab and excessive movement of the Trainbox wall, and therefore, is not acceptable. Note however, that once the Lower Concourse slab is constructed and develops the design strength, the upper portion of the shearwall above the Lower Concourse slab can be used as re-braces. See attached SKS-0101 that illustrates the load path of the shearwall.</p> <p>ARUP Response:</p> <p>The use of the permanent concrete shearwalls as bracing is acceptable provided the design criteria specified in the construction documents is satisfied. This includes, but is not limited to, the bracing stiffness requirements. The effective stiffness of the shear walls will be affected by the stiffness of the permanent train box wall and mat slab and tiedowns.</p> <p>The response to this RFI must include input from Thornton Tomasetti regarding the impact on the permanent structural elements.</p>			
T-0039	301 Mission Screen Wall - Base Plate Dimensions	Closed	02/17/2011	02/27/2011	02/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan	Daphne Faulkner	Answered By:URS Corporation		David Fyfe
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference: 2/S-5000, D/S-5000, attached sketches							
See the 301 Mission Screen Wall drawings, specifically details 2 and D/S-5000. Is it acceptable to use a base plate with dimensions 14" x 14", in lieu of the 14" x 18" per plan below the HSS 10" x 10"? See attached sketches of proposed anchor bolt mounting options A and B. If acceptable, please choose the detail you prefer.						Neither options A nor B are acceptable for the anchor bolt mounting system. Provide a base plate as detailed on S-5000 that has the dimensions of 14" by 18".	



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>	
T-0040	BSE - Proposed Bracing Removal Sequence	Closed	02/22/2011	03/04/2011	02/23/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP                      Nhi Tran			To: Turner Construction Compan   Daphne Faulkner					
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal			Answered By: Adamson Associates, Inc   George Metzger					
REQUEST:			SUGGESTION:		ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Sheet GT-1112 and attached proposal					ARUP Response:			
Attached is a proposed sequence for bracing removal that involves removing the two lower layers of bracing after the structural slab and fillets are poured. BBII's shoring designer has done analysis at each stage of construction (see attached). The results show that removal of the two lower levels after the slab has been poured produces less deflection than the fully excavated condition. The results are summarized for case west and case east on page 18 and 36 respectively.					The question in this RFI is a substitution request and should be submitted following the appropriate procedures outlined in the specifications.			
BBII believes this proposed sequence provides a tremendous value to the overall project by: - Eliminating the coordination between the bracing and concrete trade subcontractors during the construction of the lower walls and concourse slab - Eliminates a horizontal construction joint in the lower wall which significantly reduces construction cost and duration. - Allows for better waterproofing product, by eliminating a construction joint and reduces patching of the membrane around shoring elements - Allows for unobstructed construction of the lower walls and soffit shoring of the concourse level slab, which also reduces construction cost and duration					Considerable time and coordination between the design team members is required to properly evaluate the suggestion. Arup will continue to study the issue. We understand it will be a topic of discussion at the March 1 TG03 BSE Subcontractor - Design Team Coordination Meeting.			
BBII is requesting evaluation by TJPA's design team to determine if this sequence is acceptable.								
T-0041	BSE - COR and PCO Forms	Closed	02/23/2011	03/05/2011	03/16/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP                      Nhi Tran			To: Turner Construction Compan   Daphne Faulkner					
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal			Answered By: Turner Construction Comf   Daphne Faulkner					
REQUEST:			SUGGESTION:		ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Spec. Section 00 07 00, 6.03E,					There are no forms provided by TJPA. Webcor/Obayashi has established an acceptable summary cover sheet for change proposals.			
Per section 00 07 00, 6.03E, BBII requests for the form as mentioned to be supplied by TJPA, preferably in editable electronic format.								



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0042	301 Mission Screen Wall - Elevation of concrete wall	Closed	02/24/2011	03/06/2011	03/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation	David Fyfe

## Co-Author:

## REQUEST:

Please clarify the following information regarding the field elevation of the new concrete wall. Detail A/S-4000 indicates that the concrete foundation wall height shall be +/- 2'- 2" to 2'- 8". Based on this reference the tallest part of the concrete wall will be the East point of the wall. The height of the wall will then decrease as the wall moves west towards Fremont St. (the west side). If we use a wall height of 2'- 8" at its tallest point (the east side), that would result in a wall height of 20.5 inches at Fremont Street (the west end). This is less than 2'-2" as indicated in the contract drawings; therefore please confirm that Transworld will be building a concrete wall height between 20.5 inches to 2'- 8". As a point of comparison, the original existing screen wall had this exact same dimension of 20.5 inches at the low and 2'- 8" at the high.

## SUGGESTION:

## ANSWER:

Accept Suggestion: ☐

New concrete wall height of 20.5" above the existing embed plate on west end is not acceptable.

Contract documents show the new concrete wall height varies from 2'-2" +/- to 2'-8" +/- . This is based on the driveway elevations shown on the existing plans provided by Millennium Partners, developer for 301 Mission Street, and allowing for a code required minimum 18" high concrete wall from top of paver/driving surface for vehicle safety. As noted on A/S-4000, "Top of (E) Vault Wall Elevation may Vary, Contractor to VIF, Adjust Concrete Wall Accordingly", please adjust top of concrete wall to be minimum 18" above top of paver/driving surface (approximately 2'-4" +/- to 3'-4" +/- in wall height).

See attached coordination sketch.

T-0043	301 Mission Screen Wall - Temporary Vault Plug at Utility Vault Opening	Closed	02/25/2011	03/07/2011	03/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation	David Fyfe

## Co-Author:

## REQUEST:

Regarding the transformer vault plug as shown on page C-5000; Transworld has been asked to submit some proposals as to how a plug should be installed. The original existing ventilation for the vault was open to the air at the original planters. This original ventilation was completely open and secured only by a metal grate to prevent access, but not water or air. As located on page C-5000, Transworld construction proposes to install 2 x 4 backing studs attached to the left and right vertical walls of the existing opening. These 2 x 4 backing studs will be adhered with powder actuated nails. Spanning across the backing studs Transworld construction proposes to install two 2 x 4 crossmembers which will be nailed to the 2 x 4 backing studs. This assembly can be seen in the attached pictures pages 1 and 2.

## SUGGESTION:

## ANSWER:

Accept Suggestion: ☐

Contractor shall provide the transformer vault plug based on the Option 4 solution with the following amendments;

1. Provide 2x4 cross members at max. 12" o.c. spacing;
2. Face of all 2x4 members shall be flush with outside face of existing vault wall to facilitate extension of plywood sheet beyond ventilation opening (see number 5 below);
3. Plywood sheet shall be two layers of 5/8" for a total of 1.25" thick, laminate plywood layers with waterproof adhesives;
4. Secure plywood to 2x4 members with galvanized nails or screws at min. 6" spacing;
5. Extend plywood sheet min. 6" beyond edge of ventilation opening (all four sides); and,

The assembly noted above is option 1.





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Option 2- Added additional 2x4 crossmembers which would further restrict air flow to the (e) vault.</p> <p>Option 3- Nail on a plywood sheet that would enclose the entire vault vent opening.</p> <p>Option 4 - Nail on a plywood sheet and waterproof the plywood to prevent water intrusion as well.</p> <p>Note: Transworld Construction is concerned about restricting airflow into a vault that originally was designed to have this open vent. We are not familiar with any impact sealing this vent will have on the existing equipment.</p>						<p>6. Seal perimeter of plywood sheet and existing concrete vault wall with appropriate sealant to ensure weather tightness (all four sides).</p> <p>In addition, Contractor is required to ensure sufficient air flow is provided to existing underground vault/electrical equipment at all times. Existing ventilation openings (one per vault) shall not be plugged until new ventilated manhole covers per C-5000/C-5001 are installed. The new ventilated manhole covers must be protected from damage and/or soiling from concreting activities of the adjacent stem wall. The existing ventilation openings must be plugged prior to start of BSE activities to restrict entry of water and/or construction debris into the existing underground vault/transformer spaces.</p>
T-0044	BSE - Pile Mat Slab Connection	Closed	02/25/2011	03/07/2011	03/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By: Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Sheet S-3003  Reference Detail 2 on S-3003 - "Slip Detail @ Trestle Pile Mat Connection" Please confirm that this detail only applies to the trestle and not the bridge as stated.		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/> TT Reply: The trestle supports the bridge, therefore detail 2/S-3003 does apply to the bridge.			
T-0045	301 Mission Screen Wall - Void Below Existing Embed	Closed	03/02/2011	03/12/2011	03/17/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      David Hungerford		To: Turner Construction Compan   Daphne Faulkner		Answered By: URS Corporation                      David Fye			
Co-Author:							
REQUEST: Reference: Attached pictures  The new 301 Mission screen wall location is to be laid out		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/> Voids below the existing embed plate shall be filled by use of grouting applied by use of low pressure grouting methods to deliver grout into void spaces.			





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

over an existing embed plate. At that plate #8 rebars are to be epoxied per RFI T-0027. Currently in the field the embed has been cut where the dowels are to be installed and holes are being drilled to the required 30" depth. It has been discovered that there are voids below the existing embed plate of up to 1.5". See attached pictures for some locations where this condition occurs. Please advise if this void is to be filled.

The result following grouting shall be that all voids are fully grouted. All grout materials shall be non-shrink grout. Pressure grouting shall be performed by qualified personnel who have experience in low pressure grouting steel plates. Contractor shall submit qualifications in the form of resumes identifying project experience utilizing low pressure grouting for personnel performing the work.

The Contractor shall provide a submittal identifying the non-shrink grout mix proposed for use and a narrative providing a full description of the means and methods proposed to result in grout flow from input point to output point including methods to result in prevention of trapped air (air is to be displaced by grout flow). A narrative describing means and methods shall specifically include identification of proposed equipment and the proposed porting and venting to allow installation of non-shrink grout and displacement of trapped air.

Where the embedded plate is not continuous (where the plate is not provided), the existing concrete surface shall be prepared meeting all requirements of a bonded construction joint.  
- David Fyfe 03/16/2011

=====  
Additional Response=====

Pending approval by the TJPA, a CR will be issued.  
- Kevin Chiu 03/17/2011

T-0046	BSE - CLSM Slump	Closed	03/03/2011	03/13/2011	03/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran		To: Turner Construction Company		Daphne Faulkner	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal		Answered By: Adamson Associates, Inc		George Metzger	
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference Specification Section 03 30 01				03/03/2011 Kevin Clinch			
The CLSM slump range for the Buttress Shoring Excavation Work is listed between 10" to 12". BBII has				ARUP Response - A CLSM mix with a slump range of 7" +/- 1" is acceptable pending our review of the			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

concerns about the CLSM mix segregating during placement with such a high slump. Please confirm if it is acceptable to provide a CLSM mix with a slump range of 7" +/- 1" in lieu of the 10" to 12" called for in the Specification.

Contractor's mix design. Arup will work with the Owner's Testing Agency to refine the Field Quality Control procedures for checking slump and segregation of the CLSM.

T-0047	BSE - Joint Preconstruction Survey		Closed	03/03/2011	03/13/2011	03/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:Transbay PMPC		Alfred Lau	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal						
REQUEST:		SUGGESTION:			ANSWER:			
Reference Specification Section 01 15 40 and attached list					Accept Suggestion: <input type="checkbox"/>			
Attached is the list of buildings that BBI has identified for joint survey, in accordance with specification section 01 15 40. BBI requests confirmation of this list.					Arup has been, and will continue, performing interior preconstruction surveys at the properties listed by BBI. Arup will share the information with contractors as it becomes available. A representative from BBI may accompany Arup at the remaining site surveys. Contact Stephanie Reichin 415.227.9700 for a schedule of the remaining site visits.			
Please provide BBI a contact for coordinating the joint survey effort. BBI would like to do this work on the week of March 14, 2011.								

T-0047.1	BSE - Preconstruction Joint Survey Exteriors of Buildings		Closed	03/21/2011	03/31/2011	03/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By:Transbay PMPC		Alfred Lau		
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:	SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>					
Reference RFI #T-0047 and attached email			Response to RFI T-0047 was specific to the query posed relating to the preconstruction survey of adjacent building interiors (basements) that Arup is conducting and the feasibility for the contractor joining Arup for any future visits.					
Please confirm the exterior of the building, in accordance with item 1.5 D in the specification 01 15 40 Joint Survey, is also covered by the response of RFI T-0047 as well as the interior of the building.								
If not, please contact "property owners within 25 feet of the construction excavation" and arrange the joint survey immediately.			For the pre-construction joint-examination and photographing of adjacent building exteriors per 01 15 40 - 1.5.D, please coordinate with Turner (CMO), who will coordinate with Singer Assoc, TJPA's outreach consultant, to invite and/or coordinate the possible attendance of adjacent property owners. Please					



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 35 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
submit a list of properties and planned schedule of the examination/photography activities ASAP for record and for coordination.							
T-0048	BSE - Building Demolition in Zone 1	Closed	03/03/2011	03/13/2011	03/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference CR-T-005 and Sheet SKGT-0001-R1  CR T-005 appears to require additional building demolition. Please provide a schedule for this demolition work and an estimated completion date as this will potentially impact BBI's schedule and work sequence.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> The "Eminent Domain" legal process is incomplete at this time - estimated completion date is 5/29/11. Therefore the demolition contract for 60 Tehama, 85 Natoma, 564 Howard and 568 Howard has not been issued and a schedule cannot be provided. The estimated demolition completion date is between 7/29/11 and 8/29/11.			
T-0049	BSE - Constructware	Closed	03/03/2011	03/13/2011	03/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Daphne Faulkner			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Specification Section 01 10 40  Specification Section 01 10 40 Article 1.6 B4 states: "TJPA will provide Trade Subcontractors with the necessary training and access to Constructware"  BBI would like to schedule this training and make arrangements for access. Please provide a contact to get this process started.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Trade contractors will be given "View Only" access to Constructware. Contact Turner to schedule access and training. W/O is still responsible for managing the information flow to and from their trade contractors. TJPA will not accept information entered by trade contractors. All trade RFIs and submittals are to be reviewed by W/O prior to submission to TJPA.			
T-0050	BSE - Revised Plans for CR T-005B	Closed	03/07/2011	03/17/2011	03/14/2011	Potentially	<input type="checkbox"/>



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 36 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>From:</b> Webcor Construction LP <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.  <b>REQUEST:</b> Reference CR T-005B  As BBII has explained at the TG03 Trade Subcontractor - Design Team Coordination Meeting No. 3, held on February 23, 2011, in order for BBII to provide meaningful pricing and make preparations to order materials that will be required for the changed work, BBII is respectfully requesting revised contract documents for all work that is impacted by this change, specifically including, but not limited to, geotechnical and demolition drawings.  These drawings will allow BBII to accurately identify the changes and provide pricing that complies with Section 6 of the General Conditions.  In addition, due to increasing steel prices and long lead times, BBII proposes a revision to CR T-005B to allow for the ordering of additional shoring wall beams prior to the rest of the Change Order being negotiated. BBII believes this will reduce the overall cost of this change. Upon receipt of the revised drawings that include the new shoring wall beam table (GT-5101), BBII will be able to receive quotes for this work and finalize an order.	Nhi Tran  Ural Yal	<b>To:</b> Turner Construction Compan  <b>SUGGESTION:</b>	Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> URS will issue a revised D-2200 drawing this week.  ----- 03/10/2011 - George Metzger  Some parts of the question need to be answered by URS/PMPC/TJPA/Turner.  ARUP Response:  Arup's response regarding the request for geotechnical drawings and the soldier pile schedule is as follows: the "CDSM Shoring Wall Schedule" on GT-5101 does not change. The wall segments shown on the plan were simply extended to include the increased wall length. It is possible that the top of wall elevation may change +/- 1 ft once the finish grade is established following demolition of the buildings. The length of the soldier pile and the depth of the drilled hole from the ground surface will not change from that shown on the schedule.  In addition to GT-2101 which was issued as SKGT-0001-R1 in response to RFI-017, the change order will include the following drawings: GT-0000 (the drawing index will be clouded to show the affected drawings); GT-0100, GT-1110, GT-2000 (the shoring wall layout will be revised as shown and detailed on SKGT-0001-R1); and GT-5105 (the sections at 564 and 568 Howard will be deleted as these buildings will be demolished; a section will be added at 580 Howard showing the approximate distance to the building corner). Aside from the changes to GT-2101 which have been issued as SKGT-0001-R1, We consider the above described drawing changes to have no cost impact and therefor have not yet been issued.			
<b>T-0051</b>	<b>Returned Submittal Comments</b>	<b>Closed</b>	<b>02/16/2011</b>	<b>02/26/2011</b>	<b>03/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Daniel Foudy	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp	Daphne Faulkner		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 37 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Ref Spec section 01 13 10

According to the Action and Distribution (section 1.11) of the submittal specifications, Submittals shall be returned indicating one of the following:

No Exceptions Taken

Make Corrections Noted

Revise and Resubmit

Rejected

We have received submittals back as "Not Reviewed" or "For Record Only". Please confirm these responses are acceptable and should be incorporated into the specifications.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

These responses are acceptable and will be incorporated into a revised specification section 01 13 10 to be issued in the future.

<b>T-0052</b>	<b>BSE - P Parcel</b>	<b>Closed</b>	<b>03/09/2011</b>	<b>03/19/2011</b>	<b>03/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp	Jack Adams		

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

#### REQUEST:

Reference Specification Section 01 14 19, 1.4

According to the referenced specification section, Parcel P is available as of November 1, 2010 and will be available until 2013. BBI was informed that this parcel will not be available for this contract.

Please confirm.

If this parcel is not available, are there any alternative parcels that will be available for construction staging?

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Parcel P is available for Webcor-Obayashi use in accord with Spec. 01-14-19 - see attached sketch for shared use with TJPA.

<b>T-0053</b>	<b>BSE - Waler Standoff</b>	<b>Closed</b>	<b>03/09/2011</b>	<b>03/19/2011</b>	<b>03/14/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc	George Metzger		



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc. Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings  Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 lf feet of wall and 4 levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later.  BBI is requesting to please re-evaluate and provide direction.  Attached is a suggested detail as well as examples where it has been used before, for your consideration.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Provided the criteria shown in the Contact Documents is satisfied, the proposal is acceptable.  Additionally:  Provided this proposal is acceptable to the TJPA, the internal bracing design submittal shall include the details and calculations associated with this proposal.  The soldier piles shall be checked for the increased moment due to the eccentric strut reaction. This check shall be reported in the internal bracing submittal.  No increase in torsional loading on the soldier pile is permitted.  End of Comments			

T-0053.1	BSE - Waler Standoff	Closed	03/09/2011	03/19/2011	03/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Transbay PMPC	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Alfred Lau				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings				REVISED RESPONSE TO RFI #T-0053			
Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall verticals (in the next contract) would be used to eliminate the conflict. BBI believes that this seems to be impractical and not cost effective for over 3000 lf feet of wall and 4				TJPA revises response to as follows:			
				The W/O and BBI proposal to increase the spacing between the waler and CDSM wall is acceptable to TJPA since it meets the requirements in 31 55 00 1.5 DESIGN subsections I, J, K, L, and M. This design is for Contractor use. This proposal from the Contractor creates multiple benefits for W/O and BBI including The waler is out of the way of the rebar and this will help W/O with their coordination with the Train Box concrete work subcontractor.			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	<p>levels of walers. Providing a standoff equal to the wall thickness would be an additional cost to the BSE contract, but BBI believes it would be minor compared to dealing with the cost to deal with the conflict later.</p> <p>BBI is requesting to please re-evaluate and provide direction.</p> <p>Attached is a suggested detail as well as examples where it has been used before, for your consideration.</p>			<p>W/O benefits since more rebar can be installed with this increased spacing which saves time to the schedule and costs associated with the waterproofing and rebar installations.</p> <p>BB benefits because it appears that there is a decrease to the number of times that struts and walers must be moved.</p> <p>BB benefits in that strut length remains essentially the same when restrutting after Train Box wall sections are completed.</p> <p>TJPA and the Program Management Team suggest that W/O and BB proceed with a 3' - 6" spacing or whatever dimension is necessary to insure that the walers are not within the Train Box Wall profile. If the walers position requires rework, the Contractor and SubContractor take full responsibility to meet design requirements with no change to contract cost.</p> <p>TJPA agrees to this suggestion from the Contractor to offset the waler from the CDSM wall to allow for the construction of the Train Box wall. TJPA requests that the Contractor proceed on this issue as a no-cost resolution to these RFIs. If W/O finds that this Internal Bracing for Shoring Wall design does have an additional cost to TJPA, the funds will come from the CM/GC Contingency Fund.</p>			
T-0053.2	BSE - Waler Standoff	Closed	03/09/2011	03/19/2011	03/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan    Daphne Faulkner		Answered By:Transbay PMPC		Douglas Jacobson	
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference Sheet GT-1110, RFI #T-0018, and attached photos and drawings				TJPA and Program Management Team expect that the Contractor and Sub-Contractor meet the design requirements for the Design/Build of the Internal Bracing as specified in 31 55 00 INTERNAL BRACING FOR SHORING WALL and per the Contract Drawings. As subsection 1.8 M. states,			
Previous RFI #T-0018 - BSE - Waler to CDSM Wall spacing addressed BBI's concern with only having 6" clear between the face of the CDSM Wall and the Waler. Conversations in the weekly TG03 BSE Design Team Coordination meetings have re-raised the issue and BBI believes it requires additional consideration. The response in RFI #T-0018 said that rebar couplers in the wall				"Walers are to be placed against the shoring wall on spacers to provide a minimum of 6 inches of clearance between the waler and the shoring wall.			





<b>T-0054</b>	<b>BSE - AC Overlay at Temporary Bridges</b>	<b>Closed</b>	<b>03/09/2011</b>	<b>03/19/2011</b>	<b>03/25/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Daphne Faulkner	<b>Answered By:</b> URS Corporation	David Fyfe		
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal						
<b>REQUEST:</b>		<b>SUGGESTION:</b>		<b>ANSWER:</b>	<b>Accept Suggestion:</b>	<input type="checkbox"/>	
Reference Specification Section 01 53 13, 1.3.A.6 and attached material information				2" minimum asphalt concrete (AC) overlay not acceptable. Provide minimum of 4" asphalt concrete (AC) overlay per contract documents (specification section 01 53 13, 1.3.B.3).			
For the temporary bridges, BBII will be using the attached structural bridge deck material from Big R Bridge. The troughs are filled completely with AC to the top of the decking, and an overlay will be applied over the top. BBII would like to use a 2" minimum overlay, resulting in an overall cross section with an average 4" thickness. Bridge geometry requirements specified in section 01 53 13 - 1.3.A.6 will be met without reducing the overlay thickness							







Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 42 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	traffic?  BBII needs to have this information in order to provide accurate pricing for this Change Request T-006. Please advise.						
T-0056.1	BSE - CR T-006	Closed	03/24/2011	04/03/2011	04/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI T-0056 and CR T-006  Please confirm that any necessary repairs of the AC overlay are excluded from CR T-006 scope as discussed at the TG03 BSE - Design Coordination Meeting on 3/23/2011. Also, please provided additional sketches we discussed at the meeting as well. Finally, please provide a complete copy of Demo Contractor's change order related to CR T-006 to fully understand the limits of their responsibility.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> CM/GC is responsible for maintenance of site - including these sidewalks- debris, cleaning, graffiti etc. as specified in contract documents.  The AC overlay was installed by Demolition Contractor per RFI 24.2. The basements were filled per contract using crushed concrete, compaction methods were used by EBi and verified by ISI Special Inspector. The AC overlay was installed per RFI 24.2 with asphalt applied no less than 3" thick.  However, the CM/GC's concern is related to the required repair if there is a failure of this asphalt. If there is a failure of the AC overlay (if caused by pedestrian traffic on this sidewalks- not construction equipment), then this should be brought to the attention of TJPA Rep at that time in accord with contract.  Demo RFI 24.2, EBi Proposal drawings and Change Order attached.			
T-0057	BSE - Verticality and Sonic Testing on Drilled Piers and Shafts	Closed	03/10/2011	03/20/2011	03/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Sheet GT-5202 and Specification Section 31		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:			



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 43 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
63 29	<p>Specification Section 31 63 29, 3.8.I.3 states "The contractor shall perform a test to determine verticality of the steel tubes, or drilled holes, that are going to be used for the sonic tests."</p> <p>BBII has been advised by a number of testing firms that verticality tests cannot be performed on steel tubes or PVC tubes tied to steel cages. Detail 12 on Drawing GT-5202 shows 4 equally spaced PVC or steel tubes tied to reinforcing steel cage. BBII has also been informed that, as of now, there is not a specification in existence that mentions vertical tolerances of CSL tubes.</p> <p>BBII is proposing to do the following in lieu of formally testing the CSL tubes for verticality:</p> <p>1. BBII will make sure that the tubes are parallel and symmetrically placed. The cages and tubes will be properly inspected for positioning, spacing, parallelism prior to placing the cages into the hole. This is the most important inspection to ensure accurate CSL results.</p> <p>2. Since the tubes are tied directly to a vertical cage, and the cages and casings are tested for verticality anyway, BBII will do a visual inspection to ensure that the tubes are sufficiently "vertical" for CSL testing purposes prior to placement of tremie concrete.</p> <p>3. BBII will make sure that the cages are carefully lifted in a manner that limits the deflections of the cage to ensure that the CSL tubes do not fail at the joints.</p> <p>Please confirm if this is acceptable.</p>						<p>The verticality of the holes / tubes must be checked to properly interpret the CSL test results. If verticality tests cannot be performed on steel tubes, consider using PVC tubes. The integrity of the PVC tubes can be maintained by filling them with water and inserting alignment bars into them prior to concrete pouring.</p>
T-0058	BSE - Underground Utilities Removal on Beale Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Sheet D-2230				Beale Street Utilities PGE and ATT. Substructure installation and work is incomplete. Work is scheduled to complete by 5/30/11. Cabling/cutovers & pressurizing gas pipe forecasted to be complete by			
Per Drawing D-2230 Note 2, "Unless specified otherwise all utilities to be removed have already been cut and							



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	<p>capped outside limits of work by Transbay Transit Center Program Relocation of Utilities Project including future utilities installed by the Transbay Transit Center Program Relocation of Utilities Project. Contractor to coordinate removal of utilities with TJPA representative." Please confirm that the work described in Note 2 has been completed for all underground utilities on Beale St. If work has not yet been completed, please provide a list of utilities not yet abandoned and dates when the said utilities are to be cut and capped.</p>						<p>6/30/11. ATT will finish in this window also.</p> <p>***** These dates are subject to change due to weather, operational issues and any conflicts outside the control of PG&amp;E*****</p> <p>Beale St. Webcor-Obayashi: Relocation of Utilities project will provide the completion dates for utilities on Beale St.</p>
T-0059	BSE - Underground Utilities Removal on Fremont Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potentially	<input type="checkbox"/>
	<p><b>From:</b> Webcor Construction LP                      Nhi Tran                      <b>To:</b> Turner Construction Compan   Daphne Faulkner</p> <p><b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal</p> <p><b>REQUEST:</b></p> <p>Reference Sheet D-2230</p> <p>Per Drawing D-2230 Note 2, "Unless specified otherwise all utilities to be removed have already been cut and capped outside limits of work by Transbay Transit Center Program Relocation of Utilities Project including future utilities installed by the Transbay Transit Center Program Relocation of Utilities Project. Contractor to coordinate removal of utilities with TJPA representative." Please confirm that the work described in Note 2 has been completed for all underground utilities on Fremont St. If work has not yet been completed, please provide a list of utilities not yet abandoned and dates when the said utilities are to be cut and capped.</p>					<p><b>Answered By:</b>Turner Construction Comp; Jack Adams</p> <p><b>ANSWER:</b></p> <p><b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>Fremont Street PGE Final conduit installation scheduled to be complete 4/11/11. Cabling and cutovers forecasted to be complete by 6/4/11.</p> <p>***** These dates are subject to change due to weather, operational issues and any conflicts outside the control of PG&amp;E*****</p> <p>Fremont St. Webcor-Obayashi: Relocation of Utilities project will provide the completion dates for utilities on Fremont St.</p>	
T-0060	BSE - Underground Utilities Removal on 1st Street	Closed	03/11/2011	03/21/2011	03/23/2011	Potentially	<input type="checkbox"/>
	<p><b>From:</b> Webcor Construction LP                      Nhi Tran                      <b>To:</b> Turner Construction Compan   Daphne Faulkner</p> <p><b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal</p> <p><b>REQUEST:</b></p> <p>Reference Sheet D-2230</p>					<p><b>Answered By:</b>Turner Construction Comp; Jack Adams</p> <p><b>ANSWER:</b></p> <p><b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>First Street - Substructure installation scheduled to complete by 4/30/11. Cabling and cutovers forecasted</p>	



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Per Drawing D-2230 Note 2, "Unless specified otherwise all utilities to be removed have already been cut and capped outside limits of work by Transbay Transit Center Program Relocation of Utilities Project including future utilities installed by the Transbay Transit Center Program Relocation of Utilities Project. Contractor to coordinate removal of utilities with TJPA representative."  
Please confirm that the work described in Note 2 has been completed for all underground utilities on 1st St.  
If work has not yet been completed, please provide a list of utilities not yet abandoned and dates when the said utilities are to be cut and capped.

to be complete by 6/24/11

\*\*\*\*\* These dates are subject to change due to weather, operational issues and any conflicts outside the control of PG&E\*\*\*\*\*

First St. Webcor-Obayashi: Relocation of Utilities project will provide the completion dates for utilities on First St.

T-0061	BSE - Concerns About Pile To Mat Slab Connection		Closed	03/15/2011	03/25/2011	03/23/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger		
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal						

**REQUEST:**

Reference Sheet S-3003 and attached detail

**SUGGESTION:**

BBII has concerns that the trestle pile to mat slab slip connection as shown in detail 2 on S-3003 will not work as intended. Based on BBII's understanding that this joint is intended to allow the mat slab to deflect upward and our limited knowledge of the permanent structure design, BBII has listed some concerns with this connection below:

1. BBII does not think the sleeve will be able to slide with the bolts and slotted holes completely encased in concrete. (see attached)
2. If the slab does deflect upwards and the lower section of pile is no longer in contact with the bearing plate, then the mat slab is carrying the entire load on the pile.
3. Any upward movements of the slab will affect the trestle supper structure framing. Differential upward deflections could cause damage depending on severity.

BBII does wish to bear the risk of re-designing this joint due to the interaction with the permanent structure, however BBII has attached a suggestion that they feel would eliminate some of their concerns listed above.

Please provide a revised detail or rebut BBII concerns if

**ANSWER:**

**Accept Suggestion:** ☐

Thornton Tomasetti response:

Comments in response to BBII concerns:

1. Bolts/slotted holes could be isolated from the concrete via styrofoam blocks.
2. Anticipated slab movement upward is due to rise of groundwater pressure after the dewatering pumps are turned off - which is after structure is completed and trestle work is completed.

Comments regarding proposed alternate detail:

1. Proposed detail does not address waterproofing at bottom of mat and allows water infiltration into the mat as currently presented.

AAI Response: Alternate detail will not satisfy waterproofing requirements.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 46 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
you still believe the detailed connection is the best suited for this application.							
T-0062	BSE - Concrete Submittals	Closed	03/16/2011	03/26/2011	03/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran		To: Turner Construction Compan		Daphne Faulkner	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal		Answered By: Adamson Associates, Inc		George Metzger	
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference Specification Section 03 30 00				Thornton Tomasetti response:			
BBII believes a number of the submittals listed under the Cast In Place concrete spec section are not applicable to the BSE package.				Confirmed that the submittals listed in the RFI are not applicable for the BSE contract.			
- 03 30 00-1.6.A.5 Joint Locations for Concrete Slabs to receive a terrazzo finish ı None of the concrete work in this package is to receive flooring.							
- 03 30 00-1.6.A.6 Preconstruction Survey - This is intended for locations where concrete interfaces with existing construction. The mud slab does not interface with existing concrete, and BBII is not anticipating using concrete at the temporary bridges.							
- 03 30 00-1.6.A.7 Survey of Flat Plate or Flat Slab Concrete Floors - No flat plates included in the BSE package.							
- 03 30 00-1.6.A.8 Survey of as-built floor conditions - This is applicable to finish floors only, which are not included in the BSE package.							
- 03 30 00-1.6.A.8 Structural Repairs - BBII does not believe there is any structural concrete requiring repair procedures in the BSE package.							
- 03 30 00-1.6.A.10 Patching defective concrete finishes - The concrete work in the BSE package is not finished or exposed concrete, so BBII does not believe patching procedures are necessary.							
Please confirm that the above submittals are not necessary for the BSE contract.							
T-0063	BSE - Request for Final EIS/EIR for Mitigation and Monitoring	Closed	03/16/2011	03/26/2011	03/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran		To: Turner Construction Compan		Daphne Faulkner	
				Answered By: Transbay PMPC		Alfred Lau	



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Specification Section 01 35 65

BBII has been unable to obtain the report titled "Final EIS/EIR" dated November 29, 2007, as described in specification section 01 35 65, 1.1.A. The report requires the contractor to be responsible for mitigation measures and monitoring requirements that are included in the specification section.

Please provide BBII with this report.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

A copy of Final EIS/EIR as referred in 01 35 65 is available in Constructware at the following location:

File Director - Programwide - 5 Program Coord - 10 Environmental - 11 EIS/EIR - EIS/EIS Transit Center - 2004 EIS - Original

A Constructware screenshot is attached for your information.

<b>T-0064</b>	<b>BSE - Demolition Contract Backfill Material</b>	<b>Closed</b>	<b>03/16/2011</b>	<b>03/26/2011</b>	<b>03/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Daphne Faulkner	<b>Answered By:</b> Turner Construction Company Jack Adams			

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference photos (attached)

It appears that the demolition contractor is leaving large unprocessed rubble along the backside of some of the basement walls (See attached photos). Per the demolition drawings included in BBII's contract, all of the material in this area should be crushed/processed concrete at 3" minus. Handling material that does not meet these requirements will be considered a changed condition. Please advise.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

The site Parcel E is in progress. The basement will be filled in accord with the contract drawings with crushed/processed concrete at 3" minus upon completion of work by the demolition contractor - contract completion date 4/7/11.

Please do not use RFI to ask a question of an area not yet completed by the Demolition contractor. Webcor-Obayashi the CM/GC or Turner Construction CMO can easily answer these questions over the telephone or via e-mail.

<b>T-0065</b>	<b>301 Mission Wall - Length of dowels in concrete wall</b>	<b>Closed</b>	<b>03/17/2011</b>	<b>03/27/2011</b>	<b>03/24/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Company	Daphne Faulkner	<b>Answered By:</b> URS Corporation David Fyfe			

**Co-Author:**

**REQUEST:**

Reference: Sheet S-5000, RFI T-0042

The response to RFI T-0042 specifies for the new concrete wall height to be exposed above the existing pavers a minimum 18". To achieve this requirement, the overall concrete wall height must be increased 8",

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Use of fabricated #8 bars with lenton terminator acceptable. #8 embedment bars shall be dowelled 30" into existing concrete vault wall per RFI T-0027.

Resulting distance from top of #8 embedment bars with lenton terminator to top of new concrete wall will





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	therefore also increasing the length of the dowels that are to be installed. The #8 embedment bars have already been purchased and fabricated. To achieve the higher wall height per response to RFI #T-0042, 90% of these fabricated #8 bars will have to be scrapped and new bars with the longer length must be made. As an alternative, would it be acceptable to still use the fabricated #8 embedment bars dowelled 30" into the wall per RFI T-0027, with the lenton terminator which would be set 32" above the (E) steel plate?				vary between approximately 3" - 9", verify in field. If resulting distance from top of #8 embedment bars with lenton terminator to top of new concrete wall is greater than 6", contractor shall install #4 U-bars at 12" on center. #4 U-bars shall be centered between the #4 ties on both sides of the #8 bar(s). #4 U-bar legs shall be 22" long.  See attached coordination sketch.  TJPA Representative to field verify all rebar placement prior to Contractor placing concrete.		
<b>T-0066</b>	<b>BSE - Pile Survey for Buttress Area</b>	<b>Closed</b>	<b>03/21/2011</b>	<b>03/31/2011</b>	<b>04/04/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Turner Construction Comp Jack Adams			
<b>REQUEST:</b> It is BBII's understanding that EBI has completed their survey of the existing timber piles in the buttress area, including the area that was previously missed.  Please provide BBII with the remaining timber pile survey information, as indicated at the TG03 BSE Design Coordination Meeting.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Here is the remaining timber pile survey information.  It is expected that BBII will provide the TJPA a Credit since this survey scope was in contract Spec. 02-41-19 Para 1.4E			
<b>T-0067</b>	<b>BSE - Joint Preconstruction Survey</b>	<b>Closed</b>	<b>03/21/2011</b>	<b>03/31/2011</b>	<b>03/23/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Transbay PMPC      Alfred Lau			
<b>REQUEST:</b> Reference RFI T-0047  Based on recent discussions, BBII is requesting confirmation of their understanding of Specification Section 01 15 40:  1. The inside survey of the adjacent buildings will be performed by ARUP and ARUP is in the process of		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> 1. Correct.  2. The 19 buildings listed by ASC for BBI are all included in the pre-construction survey list prepared by Arup (copy attached).  (note the 101 1st Street address listed by ASC should be corrected to 100 1st & 533 Mission)			





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 49 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

performing these surveys. BBII will attend these surveys to the extent possible. ARUP will also provide monitoring of these buildings, including but not limited to, active crack monitoring. ARUP will make the initial survey and subsequent monitoring information available to BBII. BBII reserves its right to review this information and request to perform its own indoor survey at any of the surveyed buildings. ARUP is solely responsible for the accuracy of the information provided and the continuation of the monitoring effort. ARUP is also responsible for ensuring that the property owners concur with the surveying methods and the results.

2. The list of 19 buildings previously provided by BBII is accurate and is in conformance with ARUP's list.  
3. The TJPA will arrange for a survey of the outside of these buildings with the attendance of the property owners. BBII will attend with its professional photographer as required by the Specifications.

3. Correct.

T-0067.1	BSE - Joint Preconstruction Survey Follow-Up			Closed	02/06/2012	02/16/2012	02/15/2012	Potentially	<input type="checkbox"/>		
From:	Webcor Construction LP	David Fields	To:	Arup	Kevin Clinch	Answered By: Webcor Construction LP   David Fields					
Co-Author:											
REQUEST:			SUGGESTION:			ANSWER:				Accept Suggestion:	<input type="checkbox"/>
Per 01 15 40 and confirmed within RFI #T-067: ARUP is to provide monitoring information from adjacent buildings including but not limited to, active crack monitoring. ARUP will make the initial survey and subsequent monitoring information available to BBII. Please provide this information.						ARUP Response:					
						Arup has provided the pre-construction surveys to the TJPA via the Architect. The Contractor's request will be addressed by the TJPA.					

T-0067.2	BSE - Monitoring Information for 545 Mission			Closed	02/13/2012	02/13/2012	02/16/2012	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Joanne Filipas	To: Turner Construction Compan		Gary Kruttsch	Answered By: Adamson Associates, Inc				George Metzger
Co-Author:										
REQUEST:		SUGGESTION:			ANSWER:		Accept Suggestion:			<input type="checkbox"/>



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 50 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Ref RFI T-0067 and T-0067.1

Please provide the monitoring information from 3/23/2011 through 11/01/2011 as agreed to in response to RFI T-0067.

George Metzger - ARUP Response: Arup has provided the TJPA, via the Architect, the reports and photographs documenting our visits which have been made at the request of the TJPA. The Contractor's request will be addressed by the TJPA.

Per Jack Adams of Turner Construction:

Contractor is directed to fulfill their contractual obligations and perform the work described in Specification Section 01 15 40 PROTECTION OF PROPERTY for all buildings adjacent to the Project.

Contractor will coordinate the Joint Survey to establish authenticity of claims by coordinating access and access dates with TJPA Representatives (Singer Associates).

<b>T-0068</b>	<b>BSE - Soil Encountered During Installation of Pile Removal Instrumentation</b>	<b>Closed</b>	<b>03/22/2011</b>	<b>04/01/2011</b>	<b>03/25/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> When ARUP was installing their pile removal instrumentation, they recorded the depths of the various soil layers they encountered.  Please provide BBII these depths for the pile extraction work.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
					ARUP Response:  Soil log attached.		

<b>T-0069</b>	<b>BSE - Revised Shoring Wall Layout Clarification</b>	<b>Closed</b>	<b>03/23/2011</b>	<b>04/02/2011</b>	<b>03/28/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> BBII believes there is an issue with some of the information provided regarding the revised shoring wall			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
					ARUP Response:		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 51 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>layout.</p> <p>The following information was provided on drawing SKGT-0001-R1:</p> <ul style="list-style-type: none"><li>- The (x, y) distances of the intersection of the LOL's of segments X1-1 and R2-1 (Point P on attached sketch) from the intersection of 1-line and J-line: (x, y) = (73'-2 1/4", 166'-4").</li><li>- The (x, y) distances of the radial center of segment R2-1 (Point C on attached sketch) from the intersection of 1-line and J-line: (x, y) = (490'-7 1/4", 640'-10 1/4").</li></ul> <p>&amp;#61607; The radius of the LOL of segment R2-1 as 633'-6".</p> <p>The distance between the point P and point C can be calculated with the above information:</p> <p>&amp;#61607; &amp;#916;X = 490'-7 1/4" minus 73'-2 1/4" = 417'-5" = 417.417</p> <p>&amp;#61607; &amp;#916;Y = 640'-10 1/4" minus 166'-4" = 474'-6 1/4" = 474.521</p> <p>&amp;#61607; D = (&amp;#916;X2 + &amp;#916;Y2)1/2 = (417.4172 + 474.5212)1/2 = 632.053'</p> <p>Using the distances provided on SKGT-0001-R1 gives a distance of 632.053' between point P and C. This distance must be 633'-6" because it lies along segment R2-1 and the radius of the arc is given. There must be an error in either the radius or one of the other given dimensions. BBII requests an expedited response as this information is critical to our work.</p>						<p>The dimensions to the corner of the LOL where segment X1-1 and R2-1 meet have been revised.</p> <p>See the attached SKGT-0001-R2.</p>
T-0070	BSE - Excavation Permit for Pre-trenching in the Public Right of Way	Closed	03/24/2011	04/04/2011	03/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Daphne Faulkner		Answered By: Transbay PMPC
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal			Alfred Lau		
REQUEST:		SUGGESTION:	ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference Specification Section 01 14 10 and attached sheet					For pre-trenching work, Contractor is expected to acquire excavation permit from DPW. Permit fee is reimbursable by TJPA.		
BBII would like to confirm the following:							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	- BBII is responsible for applying for Excavation Permits from the San Francisco Department of Public Works for all of the pre-trench excavations in the public right-of-way. - Per Specification Section 01 41 10 Appendix (attached), TJPA will compensate BBII for the excavation permit costs.			In addition to the excavation permit, please note the the pre-trenching activity may need to obtain street space permit from DPW for work in Minna, Natoma, Fremont, Beale, and 1st (fee also reimbursed by TJPA), and Special Traffic Permit (as required) from DPT (or Sustainable Streets Division, SFMTA).			
T-0071	RFI T-0071 - 301 Mission Screen Wall - Waterproofing at South face	Closed	03/25/2011	04/04/2011	04/05/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan    Daphne Faulkner		Answered By:URS Corporation      David Fyfe				
	Co-Author:						
	REQUEST: Reference: Attached letter  Please see the attached letter dated March 16, 2011 by Erik Liu of Transworld.	SUGGESTION:	ANSWER:      Accept Suggestion: <input type="checkbox"/> Please clarify this RFI.  It is not clear what information/clarification (if any) is being requested, nor is it clear if a specific recommendation is being proposed/submitted for acceptance.				
T-0072	BSE - Concrete Sidewalk and SD Removal in Zone 4	Closed	03/30/2011	04/09/2011	04/11/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan    Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams				
	Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal						
	REQUEST: Reference attached photos showing concrete sidewalk and sewer manhole in Zone 4, adjacent to 301 Mission building  The sidewalk and sewer manhole (as seen in the photos) is not in the BSE contract work and will need to be removed prior to pre-trenching. BBI is scheduled to start their pre-trenching activities on 04/11/2011.  Please advise.	SUGGESTION:	ANSWER:      Accept Suggestion: <input type="checkbox"/> Demolition Drawings D-1014, D1060, D-1063, D-1072, D1076, D-1202, D-1206 , D-1215 define extent of demolition contract.  Refer to Contract and BSE Drawings D-0001 and D1001 Notes for BSE Demolition scope.				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0073	BSE - Request for Response Spectra	Closed	03/30/2011	04/09/2011	04/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran			<b>To:</b> Turner Construction Compan   Daphne Faulkner				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>REQUEST:</b> Reference Specification Section 01 53 13  During a meeting with the San Francisco DBI & DPW, it was expressed that BBII must use response spectra generated by ARUP in the design of the temporary bridges. It was also noted that if the bridges are going to be in place for over 5 years, the design must be for a permanent structure and the specified ground motion may not be suitable. Therefore, BBII requests response spectra for a ground motion with a 10% probability of exceedence in 50 years as specified, as well as for a ground motion with a 7.5% probability of exceedence in 75 years.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  ARUP Response:  This request needs to be discussed in more detail. We will provide this in time for Tuesday's meeting.  Adamson Comment:  The meeting referenced will be held on April 12, 2011. The purpose of delivering the information in the meeting is to confirm that the Contractor and Arup have a common understanding of the requested information and the data being transmitted.		
<hr/>							
T-0073.1	BSE - Request for Response Spectra	Closed	03/30/2011	04/09/2011	04/14/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran			<b>To:</b> Turner Construction Compan   Daphne Faulkner				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>REQUEST:</b> Reference Response to RFI#T-0073  During a meeting with the San Francisco DBI & DPW, it was expressed that BBII must use response spectra generated by ARUP in the design of the temporary bridges. It was also noted that if the bridges are going to be in place for over 5 years, the design must be for a permanent structure and the specified ground motion may not be suitable. Therefore, BBII requests response spectra for a ground motion with a 10% probability of exceedence in 50 years as specified, as well as for a ground motion with a 7.5% probability of exceedence in 75 years.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  ARUP Response:  Attached are:  1. Arup Amec (2010) report Tables 3-3(bedrock), 3-7a ( base of structure West end of box), 3-7b (base of structure East end of box), 3-9 (ratio vertical to horizontal spectral acceleration ratios) and Table 3-4 giving scale factors for near-fault effects. Note that these spectra exclude structural interaction effects and do not include the progressive softening effects that will occur progressively in the Old Bay Clay.  2. Output from LS Dyna dynamic analyses of the temporary (1 in 100 year return period) condition at 301 Mission, adjacent Fremont Street abutment, using the Kobe bedrock and far-field motions to generate the horizontal acceleration spectrum at the top of the shoring wall. This produces increased spectral accelerations at the fundamental period ( understood to be 0.8s) of the Contractor's bridge structure.  Arup recommends that a meeting be held to review		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 54 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

and discuss these after the Contractor's engineer has examined them.

T-0074	301 Mission Wall - Nelson Stud and Stirrup Locations	Closed	04/01/2011	04/11/2011	04/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation	David Fyfe

Co-Author:

REQUEST:

Reference: RFI T-0027

Per field conversation, please confirm that it is acceptable to install/weld nelson studs at 9" on center at locations in front of the vault intrusions into the concrete stem wall, where the #8 size dowels are also spaced at 9" on center, per RFI T-0027. The Nelson Stud spacing will match dowel embeddment locations. This spacing also facilitates the installation of rebar stirrups and provides two tie points, one being the dowel, and the other the nelson stud.

This work is currently ongoing and immediate confirmation is requested. Please confirm this layout is acceptable.

SUGGESTION:

ANSWER: Accept Suggestion: ☐

Industry standard practice is to use miscellaneous added tie rebar (e.g. #3 or #4 bar) to provide for requirements to tie reinforcement bars as required. This RFI is a request to change spacing of nelson stud bars from 12" o.c. to 9" o.c. (where #8 dowels are spaced at 9" o.c.) in lieu of use of added tie bars.

We note this request is for convenience of the Contractor and on this basis take no exception to reducing the spacing of the nelson stud bars from 12" o.c. to 9" o.c. (where #8 dowels are spaced at 9" o.c.). Accordingly, no change in contract and/or extension in schedule will be provided to accommodate this Contractor request. All impacts including cost and schedule associated with reducing spacing of nelson stud bars shall be borne solely by the Contractor.

David Fyfe, 04/01/2011

No CR will be issued for work associated with the change in nelson stud spacing from 12" o.c. to 9" o.c. (where #8 dowels are spaced at 9" o.c.).

Kevin Chiu, 04/01/2011

T-0075	BSE - Specification Section 32 12 17 and 32 12 18	Closed	04/04/2011	04/14/2011	04/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Transbay PMPC	Alfred Lau

Co-Author:

REQUEST:

SUGGESTION:

ANSWER: Accept Suggestion: ☐



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 55 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>We noticed that the Specification 32 12 17 at the bid has been revised to 32 12 18 in the IFC Document. 1. Please confirm that the content of the specification "STREET EXCAVATION AND RESTORATION" was unchanged between pre-bid and post-bid. 2. Please confirm that the Trade Subcontractor shall continue to use the Specification Number 32 12 18 and TJPA shall revise the Table of Contents and other specification sections referring to "32 12 17."</div> <div>1. Confirmed. Street Excavation and Restoration specification was issued as 32 12 17 in the IFB set, and issued as 32 12 18 to avoid duplication with the Pavement Restoration specification for the Utilities trade packages.  2. Confirmed. As stated above, 32 12 17 is for Pavement Restoration section for the Utilities trade packages, and is not applicable for TG03 Work.</div>							
T-0076	BSE - Footing and Pile Removal at Bent 59 - 61	Closed	04/04/2011	04/14/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST: Reference Sheet D-1072, D-1030, D-1046, and D-5103 and Spec Section 01 35 65  Please advise the following as discussed with BBII on 03-28-2011 have been completed per the Demolition Contract: - Bent 59-61 - Removal of columns, footings and timber piles as required to complete 4'x4' x13' excavation below grade complete and backfilled. (Refer to drawings D-1072, D-1030, D-1046).			SUGGESTION:  ANSWER:      Accept Suggestion: <input type="checkbox"/> Demolition of both Bent 59 and 61 was completed per Demolition Contract Drawing D-1046 Rev.0 Dated 01/04/10 and Drawing CL-17456 Rev.1 dated 8/10/09.  Bent footings were demolished to the minimum 3 feet below grade per drawing D-1046 and applicable notes. Locations of these Utility Pole Foundations were determined by SFMTA (MUNI) and BLHP (Street Lighting).  The three (3) locations total for the new Utility Pole Foundations had the bent footings removed and were excavated to a depth of 13' (+/-). Wood piles were not "pulled." Pile removal consisted of removing the top of pile as required to install the pole foundations to depth.				
T-0077	BSE - Monitoring Plans and Data for Zone 4 and Lot N	Closed	04/04/2011	04/14/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST: Reference Specification Section 01 35 65			SUGGESTION:  ANSWER:      Accept Suggestion: <input type="checkbox"/> Project "110 - Existing Terminal Building & Ramps Project" in Constructware contains the following				



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

As discussed at the site walk through meeting on 03-28-2011 with BBII, BBII requests a copy of the demolition contract monitoring plan and any data in relation to demolition contract mitigation monitoring of Lot N and Zone 4.

submittals with the monitoring data requested-

- 1. 011540-02.0 Pre-Construction Survey - 181 Fremont St
- 2. 011540-04.0 Pre-Construction Survey - 199 Fremont St

Note: 301 Mission did not provide the demo contactor access therefore data is not available for this property.

T-0078	BSE - Timber Piles Not Yet Surveyed by EBI		Closed	04/04/2011	04/14/2011	04/12/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Daphne Faulkner				Answered By: Turner Construction Company Jack Adams
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:					Accept Suggestion: <input type="checkbox"/>
Reference attached photos and sketch				Demolition Contractor exposed tops of wooden piles as part of demolition and was not required to survey wooden piles.					
While BBII was excavating the trial pile extraction area and exposing the timber piles on 03/31/11, piles that were not surveyed by EBI were discovered on the eastern side of the TPE area close to pile 215053. Please advise on how to proceed.				BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation.					
				Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.					

T-0079	BSE - Existing Street Light Footing Locations		Closed	04/04/2011	04/14/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Daphne Faulkner		Answered By: Turner Construction Company Jack Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal						
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference Specification Section 02 41 01						Spec 02-41-00 is the Spec for Demolition Contractor and Demolition Drawing D-1084 scopes the Lighting Removal and Replacement Plan.		
As discussed at the site walk through meeting 03-28-2011 with BBII, the pre-existing street light poles were relocated per demo contract. BBII was told the foundations and timber piles for the pre-existing street lights have not been removed.						All Pre-existing street lights scoped in the Demolition Contract Drawings were demolished and removed. There are no pre-existing lights, street light		





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Please provide BBII with as-built drawings indicating the pre-existing street light locations. Pre-existing streetlight foundations will need to be removed before CDSM wall installation, if a conflict is identified.</p>			<p>foundations or OCS pole foundations remaining installed that were contracted for demolition by Demolition Contractor.</p> <p>The (3) three Light Poles and Light Pole Foundations located at Fremont St. per Demolition Drawing D-1084 are on "Portable Foundations" (versus poured concrete foundations).</p> <p>The (3) three Light Poles and Light Pole Foundations located on First St. per Demolition Drawing D-1084 are on poured underground foundations anchored to basement floor.</p> <p>This is less scope for BSE Contractor who will not have to disconnect and demolish pole foundations that were located in the Frmont St. excavations. Locations of these Portable Light Poles at Fremont and underground foundation Light/OCS Poles on First St. were determined by SFMTA (MUNI) and BLHP (Street Lighting).</p>			
T-0080	BSE - Additional Timber Piles Not Surveyed by EBI	Closed	04/04/2011	04/14/2011	04/12/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP                      Nhi Tran	To: Turner Construction Compan   Daphne Faulkner	Answered By:Turner Construction Comp; Jack Adams				
	Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal						
	REQUEST:	SUGGESTION:	ANSWER:              Accept Suggestion: <input type="checkbox"/>				
	Reference RFI#T-0078 and attached photos and sketch		BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation.				
	While BBII was excavating the trial pile extraction area and exposing the timber piles on 04/01/2011, piles that were not surveyed by EBI were discovered on the southern side of the TPE area close to piles 215044, 215043 and in the centre of the TPE area at 215054, as shown in the attached drawing. The pile next to 215054 was extracted due to its proximity to 215054. A total of 7 additional piles have now been discovered to date. Please advise BBII on how to proceed.		Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.				
T-0081	BSE - Revised Shoring Wall Alignment Dimension	Closed	04/05/2011	04/15/2011	04/11/2011	Potentially	<input type="checkbox"/>



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>From:</b> Webcor Construction LP <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.  <b>REQUEST:</b> Reference attached sheet SKGT-0001-R1  The dimension from gridline J to the intersection of wall segments 1-1 and X1-1 was not updated for the revised shoring wall alignment - see attached drawing for reference. Please provide the correct dimension.	Nhi Tran Ural Yal	<b>To:</b> Turner Construction Compan Daphne Faulkner  <b>SUGGESTION:</b>	<b>Answered By:</b> Adamson Associates, Inc George Metzger  <b>ANSWER:</b> ARUP Response:  The dimensions have been revised. See the attached SKGT-0001-R3.	<b>Accept Suggestion:</b> <input type="checkbox"/>			
<b>T-0082</b>	<b>BSE - Hazardous Material Removed From Site</b>	<b>Closed</b>	<b>04/05/2011</b>	<b>04/15/2011</b>	<b>04/11/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Nhi Tran Ural Yal	<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp Jack Adams				
<b>REQUEST:</b> Reference Specification Section 00 03 35  Please confirm that all hazardous material has been removed from site per the extent of demolition contract drawings for Zone 4 and Lot N.		<b>SUGGESTION:</b>	<b>ANSWER:</b> Above ground structures and foundations were demolished at Parcel N, including footings to minus 3 feet. Demolition contract Hazardous materials scope was completed including 133 Beale st. Bar and Grille.  Refer to Demolition Drawings D-1011, D-1012, D-1013, D-1029, D1030, D1044-1046 and D-1252 for extent of removal of structures and hazardous material.	<b>Accept Suggestion:</b> <input type="checkbox"/>			
<b>T-0083</b>	<b>BSE - Existing Utilities Decommissioning Lot N and Zone 4</b>	<b>Closed</b>	<b>04/05/2011</b>	<b>04/15/2011</b>	<b>04/13/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Nhi Tran Ural Yal	<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp Jack Adams				
<b>REQUEST:</b> Reference Sheet D-2230 and Specification Section 02 41 01  Please provide as built drawings for all decommissioned utilities in Lot N and Zone 4 to BBII.		<b>SUGGESTION:</b>	<b>ANSWER:</b> Parcel N: Existing Utilities were decommissioned (e.g. cut and cap) in accord with Contract Drawings which only is 133 Beale st. Bar and Grille per D-1252.  Parcel D Zone 4 : Existing Utilities were decommissioned (e.g. cut and cap) in accord with Contract Demolition Drawings D-1202, D-1203, D-1206, D-1207, D-1210, D-1215  However: Two (2) locations of Existing Combined Sewer Connections ("SEWER") shown on D-1202 and D-1206 were as left unplugged to assist BBII with	<b>Accept Suggestion:</b> <input type="checkbox"/>			



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 59 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Dewatering discharge pipes. Locations are identified as follows: "3/D-1210 SEWER" on sheets D-1202, D-1206 and "-/- SEWER" on sheets D-1202, D-1206 (NE Corner of Lot D; no detail number provided).

Demolition Contractor has not completed their scope of Contract and therefore has not submitted their final as-built drawings in Constructware. However, they are available in Demolition Contractor's trailer office for your viewing.

T-0083.1	BSE - Existing Utilities Decommissioning Lot N and Zone 4		Closed	04/05/2011	04/15/2011	05/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Company	Daphne Faulkner	Answered By: Turner Construction Company Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal							
REQUEST:	SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>					
Reference Response to RFI#T-0083, Sheet D-2230 and Specification Section 02 41 01			Demolition Contractor has no Utility Demolition scope at Parcel N.					
The following response of RFI T-0083 is not acceptable and will become out of control of the RFI documentation process: "they are available in Demolition Contractor's trailer office for your viewing."			Demolition Contractor has completed Utility Demolition scope at Parcel D (Zone 4) per contract drawings except where agreed by BBII.					
Please provide BBI with as built drawings for all utilities which has been decommissioned to date in Lot N and Zone 4 to BBII.			These as-built Utility Demolition Drawings are currently under review by the Engineer of Record and will be issued to Webcor/Obayashi for their use after this review is complete.					

T-0084	BSE - Existing Storm Drains Decommissioning in Lot N			Closed	04/05/2011	04/15/2011	04/11/2011	Potentially	<input type="checkbox"/>	
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Company	Daphne Faulkner	Answered By: Turner Construction Company				Jack Adams
Co-Author:	Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:			SUGGESTION:			ANSWER:	Accept Suggestion: <input type="checkbox"/>			
Reference Sheet D-2230 and Specification Section 02 41 01						Parcel N: Existing Utilities were decommissioned (e.g. cut and cap) in accord with Contract Drawings which only is 133 Beale St. Bar and Grille per D-1252.				
There are 2 existing storm drain basins in Lot N not yet decommissioned. Please provide BBII the status of						There are two Storm Drain outlets on parcel N and				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 60 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	decommissioning or modification of these lines.						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 61 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0086	BSE - Clean Debris From Adjacent Buildings To Lot N and Zone 4	Closed	04/05/2011	04/15/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:      ANSWER:      Accept Suggestion: <input type="checkbox"/>							
Reference Specification Section 01 15 40			Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBI and Singer Associates.				
Please confirm that demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners, and BBII will only be responsible for cleaning dust and debris generated by BBII during its own operations, after the turnover of these are completed.							
T-0087	BSE - Zone 4 Gate	Closed	04/05/2011	04/15/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:      ANSWER:      Accept Suggestion: <input type="checkbox"/>							
Reference Demo Contract Drawings			Demolition Contractor second 16 foot gate eliminated due to Fremont Shoring wall. Demolition contractor used alternate means and methods for truck traffic to-from parcel D Zone 4.				
Per note 5 on drawing D-1006 of the demolition contract, each discreet fenced area shall have a minimum of two 16ft gates at the conclusion of demolition work. Currently, zone 4 only has one gate in place. BBII requests an additional gate be provided on the Fremont St. side of zone 4. BBII is available to meet and coordinate an ideal location.			That said, Demolition contractor has offered gate credit which could be used to install a 16 wide gate either at SW corner near 181 Fremont St. or on the Beale St. fence line. However- Demolition contractor would not be responsible for curb cut, removal of parking meters or other ancillary scope if Beale St. gate is chosen - that would be the responsibility of BSE Contractor. BBII can use/modify and relocate barrier fence and gates as needed per your contract. A field coordination meeting after the Monday 4/11/11 Street Coordination meeting is recommended.				
T-0088	BSE - Temporary Shoring Wall and Buttress Conflict	Closed	04/06/2011	04/16/2011	04/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Adamson Associates, Inc      George Metzger				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:      ANSWER:      Accept Suggestion: <input type="checkbox"/>							
Reference Sheet GT-2201 and Specification Section 31 63 29			ARUP Response:				
			This issue was discussed at yesterday's (4/6/11) BSE				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 62 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East.

meeting. The information which will be included in the Contractor's drilled shaft work plan is needed by Arup to evaluate the feasibility of the proposed shift and to consider other options.

<b>T-0088.1</b>	<b>BSE - Temporary Shoring Wall and Buttress Conflict</b>	<b>Closed</b>	<b>04/06/2011</b>	<b>04/16/2011</b>	<b>04/20/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner
-------------------------------------	----------	---------------------------------------	-----------------

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

The response for RFI #T-0088 was not an answer to the question  
Please provide an appropriate direction to start preparing the submittal and the work as soon as possible.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.

-----  
Reference Sheet GT-2201 and Specification Section 31  
63 29

The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East.

<b>T-0088.2</b>	<b>BSE - Temporary shoring wall and buttress conflict</b>	<b>Closed</b>	<b>04/06/2011</b>	<b>04/27/2011</b>	<b>04/25/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

<b>From:</b> Webcor/Obayashi Joint Venture	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner
--	----------	---------------------------------------	-----------------

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

The response for RFI #T-0088.1 was not an acceptable

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

ARUP Response:



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 63 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	answer to the question.						
	Please provide exact revised layout as required.						
	The Buttresses have exact Coordinate Locations to define the layout, as shown on GT-2201.						
	The existing coordinates must be changed to reflect the new layout the TJPA desires.						
	History						
	Information from RFI#T-0088.1						
	The response for RFI #T-0088 was not an answer to the question Please provide an appropriate direction to start preparing the submittal and the work as soon as possible. Answered By: George Metzger Answered On: 20-Apr-2011 Answer: The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.						
	Information from RFI#T-0088						
	Reference Sheet GT-2201 and Specification Section 31 63 29						
	The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East. Suggestion Cost Impact Potentially Cost Amount Schedule Impact Potentially Days						
	The Contractor's cover sheet describes this as RFI 0088.2, but the correct number is 0088.3.						
	See attached SKGT-0002.						



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>Answered By George Metzger Date Answered 2011-04-20 Answer The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.</div>							
<hr/>							
T-0088.3	BSE - Temporary shoring wall and buttress conflict	Closed	04/06/2011	04/27/2011	04/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
The response for RFI #T-0088.1 was not an acceptable answer to the question.				ARUP Response:			
Please provide exact revised layout as required.				The Contractor's cover sheet describes this as RFI 0088.2, but the correct number is 0088.3.			
The Buttrresses have exact Coordinate Locations to define the layout, as shown on GT-2201.				See attached SKGT-0002.			
The existing coordinates must be changed to reflect the new layout the TJPA desires.							
History							
Information from RFI#T-0088.1							
The response for RFI #T-0088 was not an answer to the question Please provide an appropriate direction to start preparing the submittal and the work as soon as possible. Answered By: George Metzger Answered On: 20-Apr-2011 Answer: The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.							





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 65 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div>----- ----- Information from RFI#T-0088</div> <div>Reference Sheet GT-2201 and Specification Section 31 63 29</div> <div>The temporary shoring wall installed under the demolition contract was moved East away from Fremont St. to avoid an unknown existing concrete wall. The as-built alignment of the wall now falls along the edge of the third column (C) of buttress shafts. In an effort to avoid conflicts with column C shafts generated by the revised temporary shoring wall alignment, BBII suggests that the buttress formation be moved 12" East.</div> <div>Suggestion Cost Impact Potentially Cost Amount Schedule Impact Potentially Days Answered By George Metzger Date Answered 2011-04-20 Answer The contractor may relocate the entire buttress structure up to 12 inches east of the design location in order to clear any conflict with the Fremont Street shoring wall. Contractor is requested to identify the new layout and any impacts prior to start of buttress construction.</div>						
T-0089	BSE - Existing Asphalt and Concrete Removed Zone 4	Closed	04/06/2011	04/16/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp. Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Sheet D-1001 and Demo Contract Dwgs D-1060, D-1072 and attached photos				The asphalt pavement at the entrance to zone 4 on the northeast corner is not in demolition contract scope. Contract scope included concrete columns, footings and mat slab to be removed as defined in contract drawings. Refer to demolition drawing D-1058 for best depiction of extent of demolition.			
Please see attached photos showing asphalt pavement at the entrance to zone 4 on the northeast corner. The referenced asphalt driveway is not in the BSE contract work and will need to be removed. Please advise.				Refer also to D-1014, D-1030, D-1058, D-1060, D-1063 and D-1072			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 66 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0090	BSE - Timber Piles Not Surveyed By EBI 04/04/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference attached photos and sketch  While BBII were excavating the trial pile extraction area and exposing the timber piles on 04/04/2011, piles that were not surveyed by EBI were discovered on the eastern side of the TPE area close to pile 215053 and in the western side of the TPE area at 215055 as shown in the attached drawing. The pile next to 215055 was extracted due to its proximity to 215055. A total of 10 additional piles have now been discovered to date. Please advise on how to proceed.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation.  Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.		
<hr/>							
T-0091	Reciept of Construction Documents	Closed	04/06/2011	04/16/2011	04/08/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      David Hungerford <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Transbay PMPC                      Alfred Lau				
<b>Co-Author:</b>							
<b>REQUEST:</b> Per the 110325_MSTR_CD_Work_Plan schedule, transmitted to Webcor/Obayashi on March 28, 2011 and discussed in the OAC Meeting on April 6, 2011; confirm the following dates should be implemented in the next monthly schedule update:  1. Webcor/Obayashi will receive the 90% CD documents on August 24, 2011  2. Webcor/Obayashi will receive the 100% CD documents on December 2, 2011			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Confirm. These are the current scheduled dates provided by the Design Team.		
<hr/>							
T-0092	BSE - Timber Piles Not Surveyed By EBI 4/5/11	Closed	04/06/2011	04/16/2011	04/13/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference attached photos and sketch  While BBII was excavating the trial pile extraction area and exposing the timber piles on 4/5/11, two further piles			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 67 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>that were not surveyed by EBI were discovered on the southern side of the TPE area close to piles 215043 and 215044. Following this, four additional piles to the north west of the area adjacent to 215067 and 215068 as shown in the attached drawing were discovered. A total of 16 additional piles have now been discovered to date. Please advise on how to proceed.</div> <div>Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.</div>							
T-0093	BSE - CDSM Wall Segment 35-1 Spacing Confirmation	Closed	04/07/2011	04/17/2011	04/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner	Answered By:Adamson Associates, Inc   George Metzger				
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Sheets GT-2103, GT-5101 and Specification Section 31 56 13  In drawing GT-5101, the spacing of all shoring wall beams is specified as 4'-0". This is reflected in the drawings for all sections of the CDSM shoring wall except the east wall (Wall Segment 35-1). The beam spacing of this Segment (measured in AutoCad) is 3.94728'. This creates a dimension bust of approximately 2.4' over the length of the wall and significant problems based on the auger spacing. Please verify the spacing of beams in Wall Segment 35-1.		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/>  ARUP Response:  The spacing of the soldier piles shall be the stated dimension in the documents (4'-0", unless otherwise noted). The Contractor is reminded to not scale the drawings. Additionally, the AutoCad dwg files are not part of the contract documents and the Contractor is not to obtain dimensions off the electronic files.			
T-0094	BSE - Timber Piles Not Surveyed By EBI 04-06-11	Closed	04/08/2011	04/18/2011	04/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner	Answered By:Turner Construction Comp   Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference attached photo and sketch  While BBII were excavating the trial pile extraction area and exposing the timber piles on 4/6/11, an additional pile was found close to 215068 as shown on the attached drawing and photos. A total of 17 additional piles have now been discovered to date. Please advise on how to proceed.		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/> BBII should follow contract Spec 02-41-19 Pile Removal Para 1.4 and provide existing timber pile documentation.  Each pile over contract quantity will be reimbursed as force account (unless parties can agree on a unit rate) in accord with CCO no. T-001 Rev 2 dated 4/8/11.			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 68 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0095	BSE - Zone 1 CDSM Test Section Relocation	Closed	04/11/2011	04/21/2011	04/14/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-2101, Specification Section 31 56 13 and attached drawing  Per discussion with ARUP at the Wednesday April 06, 2011 Design Coordination Meeting, the Engineer was willing to consider relocating the Zone 1 CDSM test panel as shown on Dwg. GT-2101 from Zone 1 and into Zone 2. BBII and DND Construction are therefore proposing to relocate the Zone 1 CDSM test panel to the location shown on the attached drawing, near gridline 10. Please confirm.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response: This is acceptable.		
T-0096	BSE - Old Existing Footing Along 301 Mission in Zone 4	Closed	04/11/2011	04/21/2011	04/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp; Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 02 41 01  During Pre-Trench BBII found an existing footing along the Low Rise 301 Mission wall. The footing consists of bricks and concrete. It also has a perpendicular footing that come out from footing that is parallel to the 301 Mission building wall. BBII has exposed a 20 to 30ft section of this footing (approximately on Grid Line "A" between 30 and 32).  Please advise BBII as to how to proceed.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Per Contract Spec. 31-56-13 Shoring wall by CDSM Method Para 3.2 Pretrenching and removal of Obstructions, Contractor is to " remove any obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obstructions from the path of the shoring wall."  The Archaeologist was contacted and viewed the exposed section of wall and brick debris on 4/11/11. Further archeological investigation will follow as pre-trenching continues and areas are exposed - Ref: Spec. 00-08-12 for Archaeological conditions in Zone 4.  Demolition of underground obstructions shall be per Spec 02-41-01 and Demolition Debris shall be handled in accord with Spec. 01-74-00.		
T-0096.1	BSE - Old Existing Footing Along 301 Mission in Zone 4	Closed	04/20/2011	04/30/2011	05/02/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp; Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							





## 30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0097	BSE - Protective Material Along 301 Mission St Wall	Closed	04/20/2011	04/30/2011	05/06/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp; Daphne Faulkner				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference attached photos  BBII has encountered a drainage material along the 301 Mission wall while pretrenching. During pretrenching, this drainage material has been removed because it was not affixed to the structure. The wall does not have any exterior waterproofing system.  Upon installation of the CDSM shoring system, the cementious material will be against this wall. The existing wall is a 5' deep cantilevered beam on the backside of the existing garage shaft for 301 Mission. Does TJPA plan to install any waterproofing along this wall that can tolerate the installation of a CDSM shoring system?  Please advise BBII of the TJPA's plan for waterproofing of this building.			<b>SUGGESTION:</b>			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Drainage material encountered is to be removed from the 301 Mission Wall as it was a temporary measure installed at the time of 301 Mission building construction. No waterproofing is required at this location. See attached email response from R. Rothenburger at PMPC.  ----- 04/19/2011 - George Metzger  TJPA to provide direction to GC.	

T-0098	301 Mission Wall - Tube Steel Alignment	Closed	04/12/2011	04/22/2011	04/21/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      David Hungerford <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Transbay PMPC                      Alfred Lau				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference: B/S-5000 and D/A-6000  Detail B on sheet S-5000 shows the 10" tube steel centered on the 14" concrete wall below, however this is in conflict with D/A-6000 which shows the steel tube off set from the center of the wall. Please confirm per the 301 Mission subcontractor meeting conversation yesterday, that the tube steel is to be centered on the center of the wall as dimensioned in B/S-5000.			<b>SUGGESTION:</b>			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> "Confirmed. The 10"x10"x5/8" HSS section shall be erected on the center line of the concrete wall as dimensioned in Section B on S-5000."	

T-0099	BSE - Depth of Fremont Street Shoring Wall in Zone 4	Closed	04/12/2011	04/22/2011	04/14/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> URS Corporation                      David Fyfe				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference Sheet D-2203 and attached as-built, photos,			<b>SUGGESTION:</b>			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> The temporary Fremont St. shoring wall was	



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>and document CPM Activity Impacted - SX-BB42640</p> <p>While excavating adjacent to the existing Fremont street shoring wall as shown on contract drawing D-2203, BBII has found the existing shoring wall's height to be approximately 2' shorter than the 14 feet depth indicated in the as-builts (attached). This wall does not provide adequate shoring height for BBII to excavate and expose the timber piles prior to extraction. (See attached photo for illustration)</p> <p>The contract documents D-2203 and pre-bid Q&amp;A response #182 (also attached) indicate this wall would accommodate the buttress area pile removal, however actual existing field conditions do not provide adequate shored depth</p> <p>Please provide direction.</p>						
		</					





T-0100.1	BSE - Slurry Wall Along 301 Mission St Garage	Closed	04/20/2011	04/30/2011	05/02/2011	Potentially
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Company	Daphne Faulkner	Answered By: Turner Construction Company	Jack Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	<input type="checkbox"/>
Reference response to RFI T-0100 and Specification Section 02 41 01				Construction means and methods are the contractor's responsibility exclusively. RFI response are not authorization of any change in contract sum or contract time.		
BBII interprets the Response to RFI#T-0100 (BBI 0070) as TJPA's approval for the removal of this unforeseen structure. Please confirm.				We take no exception to above method for the removal of structure. This work will be tracked in accord with CR T-0010.		
BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur.						
Pre Trench Obstruction Removal Method						
Location: Parallel along the 301 Mission St. Low Rise (Grid line A, approximately between lines 30 & 34).						
Obstructions: A very large mass of slurry.						
Method: BBII will first expose the obstructions and use an excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for						





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition.

Additional Details:  
As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.

<b>T-0101</b>	<b>BSE - Pile Extraction Procedure Modification</b>	<b>Closed</b>	<b>04/14/2011</b>	<b>04/24/2011</b>	<b>04/15/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger					
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 02 41 19 and attached response for TG0300-310 Production Extraction Plan  BBII proposes to eliminate the "stroking" of the steel casing right before the CLSM is placed. Upon removal of the steel casing, BBII proposes to "stroke" the steel casing after the CLSM is placed. BBII believes the same effect of filling the void will be achieved, and this procedure will help to expedite the Project schedule. Please kindly review our proposal. Your prompt response is appreciated.		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  ARUP Response: This is not acceptable. The proposed procedure does not allow the volume of placed CLSM to be measured after the stroking of the casing.				

<b>T-0102</b>	<b>BSE - Confirm Project Coordinates</b>	<b>Closed</b>	<b>04/15/2011</b>	<b>04/25/2011</b>	<b>04/19/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger					
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Drawings U-0100 and GT-0100  BBII's surveyor, KCA Engineers, has noticed some slight variations in bearings between the Utility drawings and the BSE drawings. Please see the following of KCA's		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  ARUP Response: The Building Grid and bearing has been established to best-fit the numerous constraints on the project. It is coincidental that the street control lines (note, these are not necessarily in the center of the Right-of-Way and should not be construed as				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 74 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	observations and confirm coordinates provided on drawing GT-0100.  Drawings U-0100 has coordinates along the center lines of various streets. The result of those coordinates put a bearing on the center line of Mission Street and Minna Street at North 46° 18 ' 19.6" East and the center line of First Street at North 43° 41 ' 39.0" West. This results in those streets not being at right angles to each other.  Drawings GT-0100 has coordinates on Column Line E. The result of those coordinates puts a bearing of North 46° 18' 09.7" East on the terminal Tills is 00° 00' 10" off from being parallel with Mission and Minna Streets. Is this correct or should Column Line E be parallel with Mission and Minna Streets?  The numerical column lines are shown at right angles to Column Line E, which gives them a bearing of North 43° 41 ' 50.3" West. It was observed that Column Line 18 appeared to be in almost the same location as the center line of First Street, but First Street has a bearing of North 43° 41 ' 39.0" West which is 00° 00' 11" different than Column Line 18. Is it just a coincidence that the center line and column line are almost exactly in the same location or should something be adjusted to make the two lines identical?  Please advise if the bearings of the terminal should remain or be changed.						
	Center Lines) are very close, but at slightly different bearings. The building elements are constructed based on the building grid, whereas the utilities and subsequent street level improvements will be constructed based on the street control lines. The Numerical Bearings of the North South Grid lines appear to be correct. A follow-up survey control meeting should take place to ensure the shoring wall layout is performed as intended.						

T-0103	BSE - Existing Concrete Footing Gridline J between Gridline 26.5-30		Closed	04/15/2011	04/25/2011	04/25/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Masashi Kojima	To: Turner Construction Company	Daphne Faulkner	Answered By: Turner Construction Company				Jack Adams
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:					Accept Suggestion: <input type="checkbox"/>
Reference Drawings D-5103, D-2203 and GT-5104				Per Contract Spec. 31-56-13 Shoring wall by CDSM Method Para 3.2 Pretrenching and removal of Obstructions, Contractor is to " remove any obstructions that might be encountered along the alignment of the walls. The depth and width of trench shall be that required to remove the obstructions from					
Please see attached photos showing an unknown concrete structure discovered on the south side of zone 4. This structure is located between gridline 26.5-30 along gridline J. BBII is not aware of the purpose for this									



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0103.1	BSE - Existing Concrete Footing Gridline J Between Gridline 26.5-30	Closed	04/27/2011	05/07/2011	05/02/2011	Potentially	<input type="checkbox"/>
<p><b>From:</b> Webcor Construction LP      Nhi Tran      <b>To:</b> Turner Construction Company Daphne Faulkner</p> <p><b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>REQUEST:</b></p> <p>Reference RFI#T-0103 and Specification Section 02 41 01</p> <p>BBII interprets the Response to RFI T-0103 (BBI 0074) as TJPA's approval for the removal of this unforeseen structure. Please confirm.</p> <p>BBII proposes to follow the method outlined below for the removal of this unforeseen structure. Please confirm in writing that the removal of this unforeseen structure is approved and that provided that it is performed with the method outlined below, no damage to adjacent buildings will occur.</p> <p>Pre Trench Obstruction Removal Method</p> <p>Location: Parallel along the 177/181 Fremont Street (Grid line J, approximately between lines 26.5-30).</p> <p>Obstructions: A large concrete structure.</p> <p>Method: BBII will first expose the obstructions and use an</p> </div> <div style="width: 45%;"> <p>the path of the shoring wall."</p> <p>The Archaeologist was contacted and viewed the exposed section of wall and brick debris on 4/11/11. Further archeological investigation will follow as pretrenching continues and areas are exposed - Ref: Spec. 00-08-12 for Archaeological conditions in Zone 4.</p> <p>Demolition of underground obstructions shall be per Spec 02-41-01 and Demolition Debris shall be handled in accord with Spec. 01-74-00.</p> <p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>Construction means and methods are the contractor's responsibility exclusively. RFI response are not authorization of any change in contract sum or contract time.</p> <p>We take no exception to above method for the removal of structure. This work will be tracked in accord with CR T-0010.</p> </div> </div> <p><b>Answered By:</b> Turner Construction Company Jack Adams</p>							



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>excavator mounted and hand held jackhammer to demolish the large masses into smaller more manageable sizes. An excavator with a bucket will then clear the debris, until the debris is removed from the area of the CDSM Wall location. BBII will chase the obstruction as deep as it goes in order to remove all debris necessary for a clean location to construct the CDSM Wall. Due to the unknown depth of the obstruction, at BBII discretion Sheet Piles or trench boxes may be used to support trench walls. All OSHA approved, safe practices will be used by BBII employees during the Demolition.</p> <p>Additional Details: As noted in the RFI response, the Archeologist has already examined the site. BBII (W/O) will notify the TJPA if additional structures or items are encountered.</p>						
T-0104	BSE - Request for Report (PSI for Caltrans)	Closed	04/18/2011	04/28/2011	04/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Compan	Daphne Faulkner		Answered By: Transbay PMPC		Alfred Lau
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Specification 01 13 50 and 00 03 35							
<p>The Site Mitigation Plan in Spec section 01 13 50 of Volume 1, References the report "PSI for Caltrans, 1999." After looking through the contract documents for the Analytical back-up, BBII, Treadwell &amp; Rollo, and Republic Services, have not been able to find it. It is necessary to have this information to properly dispose of the Hazardous Materials.</p> <p>To Complete the Profile of the work site, the Disposal facility, Republic Services, BBII need the Lab Data/Analytical Data from the report.</p> <p>At this time, the lack of information is halting the process of Material Off-Haul.</p> <p>Please Advise, or supply the Needed Report Information.</p>		<p>Caltrans' Site Investigation Report for SFOBB West Approach, prepared by PSI in 1999 can be assessed from Constructware or from ftp site as below:</p> <p>ftp://ftp.tjpa.org/Document%20Control/1104168/</p> <p>Log In Instructions</p> <p>1. Enter case-sensitive Username (public) and Password (PublicFTP1)</p> <p>2. Select View\Open FTP Site in Windows Explorer</p> <p>3. Drag file(s) to your desktop</p> <p>Please contact PMPC Document Control should there is problem of accessing the information.</p>					



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 77 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0105	BSE - Train Box Beam Sizes	Closed	04/20/2011	05/02/2011	04/22/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>REQUEST:</b> Reference attached sketches and Sheet S1-3201  Drawing S1-3201 provides information on beam sizing in the permanent concrete structure. BBII was recently provided additional structure sections in response to T-0035.1, and a number of the beams appear to have changed in size. Beams at gridlines 18, 26, 34, & 35 should be 5' wide according to schedule A on drawing S1-3201. However, from the section provided at gridline A, these all appear to be sized at 7' wide. The sizes of these beams are critical in determining the final geometry and location of our temporary bridges. BBII acknowledges that the structural drawings are not to be scaled, so please advise if these beams are to be 60" wide as indicated in schedule A, or if they have increased in size to 84" wide.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Thornton Tomasetti Reply:  The concrete beams at gridlines 18, 26, 34, & 35 at Ground Level have increased to 84" wide. The design is "in-progress".				
T-0106	301 Mission Wall - Connection from Metal Stud to Tube Steel	Closed	04/20/2011	04/30/2011	04/27/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      David Hungerford <b>To:</b> Turner Construction Compan   Daphne Faulkner <b>Co-Author:</b>			<b>Answered By:</b> URS Corporation      David Fyfe				
<b>REQUEST:</b> Reference: E & C/S-5000  Please see E & C/S-5000. Transworld has attempted in their shop to set #10 SMS through the structural tube steel, as per plan. The attempt was unsuccessful, therefore Transworld tried the use of a Hilti X-U fastener into the structural steel. Attached are Hilti spec sheets for the X-U Universal Knurled Shank Fastener as well as a photo showing the X-U fastener through the structural steel. Welding is another option for connection to the tube steel. Please advise how Transworld is to fasten the metal stud to the structural tube steel.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> The proposed Hilti X-U fasteners are for interior use only and are not acceptable for use on the 301 Mission exterior screen wall. Welding will damage the structural steel paint and light gauge steel galvanized coating and is not an acceptable means of connection.  To fasten metal stud to structural tube steel contractor may: 1) Use shot pins rated for exterior use (i.e. Hilti X-CR fastener - ESR 1663); or 2) Pre-drill holes and tap stainless steel machine screws.				
T-0107	BSE - Visual Test in Lieu of Formally Testing for Verticality in CSL Tubes	Closed	04/20/2011	04/30/2011	04/22/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>REQUEST:</b>			<b>SUGGESTION:</b> <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Reference RFI#T-0057, Sheet GT-5202, Specification Section 31 63 29, and attached documents CPM Activity Impacted - Buttress Wall						
	Below are three cases (A, B, and C) in which formally testing for verticality on CSL tubes, BBII argues would prove to be highly unusual and counter-productive:						
	A. Specification Section 31.63.29.1.3 states "The contractor shall perform a test to determine verticality of the steel tubes, or drilled holes, that are going to be used for the sonic tests." Balfour Beatty has been advised by a number of testing firms that verticality tests cannot be performed on steel access tubes as well as piles reinforced with steel. Magnetic interference from steel reinforcement and steel tubes will cause the instrument to not function properly. BBII has also been advised by Terracon (please see attached email from Dextra), a reputable CSL testing firm that there are currently no known cases in the US where verticality of CSL tubes in steel reinforced piles have been formally tested.						
	B. Attached is a case study that details the investigation of debonding that occurs when using PVC as CSL access tubes. The results of this study clearly show the use of steel tubes (BBII is proposing to use Sonitec tubes) should be preferred over PVC.						
	C. After doing some research, the closest we came to find any mention of verticality in CSL tubes was this excerpt from EPA's website which states, "If the CSL access tubes are not installed in a near-vertical position and/or the distance between them varies significantly along the length of the shaft, errors in velocity calculations may occur." Judging by this approach to verticality in CSL tubes in most specs, BBII concludes that parallelism and symmetry between tubes are more important factors in ensuring accurate CSL test readings.						
	In summary, BBII in lieu of formally testing the CSL tubes for verticality will perform a visual test making sure that the tubes are symmetrical (equally spaced) in a circle and parallel. This is the most important inspection to ensure accurate pulse readings.						
	ARUP Response:  This is acceptable.						



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 79 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please confirm that this is acceptable.

T-0108	BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demoli Closed			04/20/2011	04/30/2011	04/29/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By: Turner Construction Comp				Jack Adams
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:			SUGGESTION:			ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Specification Section 01 15 40									
Please confirm that the demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners, and BBII will only be responsible for cleaning dust and debris generated by BBII during its own operations, after the turnover of these are completed.			Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBi and Singer Associates.						

T-0108.1	BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demoli Closed			05/04/2011	05/14/2011	05/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner		Answered By: Turner Construction Comp; Jack Adams	
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		
Reference response to RFI#T-0108 and Specification Section 01 15 40						Accept Suggestion: <input type="checkbox"/>		
W/O requests information on the measures used to clean the adjacent structures						Demolition Contractor ceased dust generating activities and turned over Zone 3 for BBli use on 4-13-11.		
-----						BBli did occupy the site and did commence work activities, and is responsible for dust control in accord with Mitigation and Monitoring Specifications from 4-13-11 until completion of BBii work activities.		
RFI#T-0108 - BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demolition Work						BBII is only responsible for cleaning dust and debris generated from Zone 3 during BBII operations from 4-13-11 going forward.		
Question - Reference Specification Section 01 15 40 Please confirm that the demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners, and BBII will only be responsible for cleaning								



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 80 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

dust and debris generated by BBII during its own operations, after the turnover of these are completed.

Response -  
Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBi and Singer Associates.

T-0108.2	BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demoli Closed				05/04/2011	05/14/2011	05/27/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner				
				Answered By: Turner Construction Comp; Jack Adams					

**REQUEST:**

Reference response to RFI#T-0108, RFI#T-0108.1 and Specification Section 01 15 40

The response to RFI#T-0108.1 did not provide the requested information.

W/O requests information on the measures used to clean the adjacent structures

-----  
RFI#T-0108.1 - BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demolition Work

W/O requests information on the measures used to clean the adjacent structures

-----  
RFI#T-0108 - BSE - Building Adjacent Zone 3 Clean From Dust and Debris Generated By Demolition Work

Question -  
Reference Specification Section 01 15 40  
Please confirm that the demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent

**SUGGESTION:**

**ANSWER:**

Accept Suggestion: ☐

There are no prescribed measures. The cleanliness of the adjacent buildings is subjective. Cleanliness is discussed with building owners requesting cleaning of their property upon completion of demolition work and initiated by the adjacent property owner/manager. Discussion with adjacent property owners is coordinated through TJPAs Representative and Singer Associates.





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 81 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	building owners, and BBII will only be responsible for cleaning dust and debris generated by BBII during its own operations, after the turnover of these are completed.						
	Response - Confirmed. Demolition contractor has satisfied the requirement to clean all dust and debris generated by demolition contract to the satisfaction of the adjacent building owners to date. This was confirmed through conversation with both EBI and Singer Associates.						
T-0109	BSE - Existing Drains & SD Basin Clear Of Debris Generated By Demo Contract W/	Closed	04/21/2011	05/01/2011	05/03/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP                      Nhi Tran                      To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams				
	Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal						
	REQUEST:                      SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/>				
	Reference Specification Section 01 15 40		Demolition Contractor has continuously covered the Catch Basins and inlets to storm sewers and occasionally has cleared debris generated by others outside of the demolition contract work. Demolition contractor will provide per Demolition Spec. 02-41-13 at conclusion of their work which is scheduled for June 2011.				
	Please confirm per the site walkthrough on 04-18-2011 that all active SD and sewer have been cleared of all debris generated by the demolition contract work. BBII is requesting as-builts to confirm the above.						
T-0110	BSE - Existing Utility Decommissioning Zone 4	Closed	04/22/2011	05/02/2011	05/02/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP                      Nhi Tran                      To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams				
	Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal						
	REQUEST:                      SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/>				
	Reference RFI#T-0083, Drawing Sheet D-2230, and Specification Section 02 41 01		Parcel D Zone 4 : Demolition of the Zone 4 sewer/storm drain piping after dewatering work has been completed is BBII contract scope. The best examples are BSE Drawings D-2230, D-2231, D-5100 through D-5103. Beale St. Zone 4 sewer/storm drain piping decommissioning/abandoning scope is defined in the Webcor-Obayashi RUP Relocation of Utilities				
	RFI response to RFI#T-0083 issued on 4-15-2011 has not provided direction for decommissioning or abandoning these utilities per BBII drawing # D-2230 Note 2						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 82 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please advise on decommissioning the utilities after dewatering work has been completed.

Project . Coordinate Beale St. Zone 4 sewer/storm drain piping decommissioning/abandonment with the Webcor-Obayashi RUP Relocation of Utilities Project Manager.

Parcel N Zone 4 :Refer to RFI 84.1 for Parcel N: The decommissioning or abandoning these Parcel N utilities which is outside the scope of the Demolition, BSE contract and the RUP contract. Webcor-Obayashi RUP Relocation of Utilities Project Manager will be contacted for reroute decommissioning, or abandonment of these Parcel N parking lot storm drain lines.

T-0111	301 Mission Wall - Torque Spec	Closed	04/22/2011	05/02/2011	04/28/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation		David Fyfe
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		
Reference: S-5000						Accept Suggestion: <input type="checkbox"/>		
In regards to the structural steel bolts at the 301 Mission Wall, please confirm that the torque spec is 150 ft-lbs, per attached email.						Confirmed, structural steel anchor bolts shall be installed snug tight to a torque of 150 ft-lbs.		

T-0112	BSE - Project Control	Closed	04/22/2011	05/02/2011	05/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Turner Construction Comç Daphne Faulkner	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Sheet GT-0100 and Specification Section 01 10 50				Response provided by PMPC.			
Drawing GT-0100 shows four control points. BBII's surveyor, KCA Engineers, have surveyed their locations and found the following: 1) Survey Control Point #101: This point has been damaged - the brass disk is missing, though the rivet remains in the concrete sidewalk. There are score lines in				RFI T-0112 is a Survey and Control issue. Webcor/Obayashi is responsible for coordination with their subcontractors and this RFI lies within their domain of responsibility. Please ask W/O to coordinate their Survey Subcontractor (Contract T05.1 Chaudhary & Associates) provide a response to their BSE Subcontractor (Contract TG03 - Balfour Beatty).			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 83 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>the concrete BBII assumes would intersect on the brass disk.</p> <p>2) Project Benchmark Point #54: KCA was able to locate this point. Please confirm that it is acceptable to use the coordinates of this point for horizontal control, even though it is listed as a benchmark.</p> <p>3) Survey Control Point #106: KCA was unable to locate this point.</p> <p>4) Survey Control Point #105: KCA was able to locate this point.</p> <p>With the current condition of the provided control points, KCA is not able to do a hard check on their survey work.</p> <p>Please confirm that all the control points above may be used for the TG03 BSE Trade Package. Please reset the damaged or missing points for KCA's use.</p>						

T-0112.1	BSE - Project Control	Closed	05/20/2011	05/30/2011	05/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By: Transbay PMPC	Alfred Lau		
Co-Author:							
REQUEST:	SUGGESTION:		ANSWER:	Accept Suggestion: <input type="checkbox"/>			
Reference RFI#T-0112, Transmittal No. 140-01593, Sheet			Adopting Chaudhary's survey grid control document is				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 84 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	GT-0100, Specification Section 01 10 50, and attached document						acceptable.
	Chaudhary's Transbay "Survey Grid Control Document" was transmitted to Ed Sum (TJPA) and Agnes Katanics (URS) on 5/18/11 (transmittal #140-01593, attached) following a meeting which took place on 5/17/11 with URS, F3, DPA and TJPA. In an effort to confirm the four survey control points shown on GT-0100, Chaudhary discovered that Point #101 and Point #106 were missing.						
	Due to the missing points, W/O requests TJPA to either approve Chaudhary's Survey Grid Control Document included as part of transmittal #140-01593, or have the monuments missing from GT-0100 replaced.						
<b>T-0112.2</b>	<b>BSE - Project Control</b>	<b>Closed</b>	<b>07/14/2011</b>	<b>07/24/2011</b>			<b>Potentially</b> <input type="checkbox"/>
<b>From:</b> Webcor Construction LP Tim Maxwell		<b>To:</b> Turner Construction Company Daphne Faulkner		<b>Answered By:</b>			
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>		<b>ANSWER:</b>		<b>Accept Suggestion:</b> <input type="checkbox"/>	
Reference RFI #T-0112.1 and attached drawing							
Last month Webcor/Obayashi was requested to mark an alleged property line @ 199 Fremont between Beale and Fremont streets per the 12-10-2008 CAD file data provided by the Bruce Storrs of DPW. Chaudhary & Associates completed the task and the results were forwarded for TJPA review on June 20, 2011 via Transmittal # 140-01864. In that transmittal it was recommended that alleged Property Line (PL) data points as indicated within the attached (coordinates added) be presented to Bruce Storrs of DPW for verification of PL data accuracy. Has this been accomplished and, if so, what was the outcome?							
Be advised that as previously confirmed in RFI #T- 112.1 Webcor/Obayashi is ONLY using Grid Control for construction reference, layout and staking.							



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 85 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
T-0113	BSE - Unforeseen Object - Metal Casing In Production Pile Extraction Area	Closed	04/22/2011	05/02/2011	04/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:			ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Reference attached sketch and photo			This metal casing is to be removed per Spec. 02-41-01 "Demolition - Existing Underground Structures". If the casing is over an existing wood pile - notify the TJPA Rep/Geotech Engineer prior to removal - refer to Spec. 02-41-19..				
While BBII was excavating the production pile extraction area and exposing the timber piles on 4/19/11, a metal casing was discovered close to pile 302050. Please advise on how to proceed.			Demolition of underground obstructions shall be per Spec 02-41-01 and Demolition Debris shall be handled in accord with Spec. 01-74-00.				
T-0114	BSE - Monitoring Plans and Data for Zone 3	Closed	04/27/2011	05/07/2011	05/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Daphne Faulkner				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:			ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Reference Specification Section 01 35 65			Please clarify specifically what mitigation monitoring data you are requesting. Specification Section 01 35 65 is comprised of many different required submittals so we need a clarification on which one you are requesting				
As discussed at the site walk through meeting 4-18-2011; BBII requests a copy of the demolition contract monitoring plan and any data in relation to demolition contract mitigation monitoring of Zone 3.							
T-0115	BSE - Hazardous Material Removed From Site in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Daphne Faulkner			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:      SUGGESTION:			ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Reference Specification Section 00 03 35			Hazardous material has been removed from site per the extent of demolition contract drawings for zones 3. Zone 3 above ground structures and foundations were demolished to extent shown on Demolition contract drawings and Demolition Spec. 02-41-00. Hazardous materials abatement scope was completed within the scope of demolition only. Refer to Demolition Drawings D-1050, D-1051 and D-1073 and D-1074 for representation of limits of structures demolished and hazardous material abatement. Utilities were cut/capped and were demolished to extent shown on Demolition contract drawings and Demolition Spec.				
Please confirm that all hazardous material has been removed from site per the extent of demolition contract drawings for zones 3.							





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 87 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>-----</div> <div>Please supply BBII with an electronic copy (PDF), of the 'issued for construction' drawings for the demolition contract (EBI).</div>							
T-0117	BSE - As-built Drawings for Utility Decommissioning in Zone 3	Closed	04/27/2011	05/07/2011	05/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner	Answered By:Turner Construction Comp Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Demo Contract Drawing Sheets D-1202,D-1203, D-1204, D1205, D1206 and Specification Section 02 41 01				Demolition as-built drawings for Zone 3 utilities that have been decommissioned, or cut and capped per the demolition contract are attached. Drawing D-1202-1207 and D1210 through D1215 inclusive.			
Please provide as-built drawings for all utilities that have been decommissioned, or cut and capped per the demolition contract for Zone 3.				NOTE: Demolition contractor is not contractually responsible for submitting their As-Built drawings until completion of their contract which is June 2011 ref. Spec. 01-17-00 for Demolition Contractor.			
T-0118	BSE - Crash Cushion Modules on Natoma & Minna Street	Closed	04/27/2011	05/07/2011	05/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner	Answered By:Turner Construction Comp Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Demo Contract Drawing Sheet D-1007 - Note 5				Confirmed. Demolition Contractor will install Crash Cushion modules at K -Rails installed on Fremont St (east), Natoma St. and Minna St. in accord with Demolition Drawing D-1007.			
Currently the crash cushion or k-rail as specified in the Demo Drawing D-1007 note 5 has not been installed. Please confirm the above will be installed by the demo contractor.							
T-0119	301 Mission Wall - Metal Stud Layout Alignment	Closed	04/28/2011	05/08/2011	05/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      David Hungerford		To: Turner Construction Compan   Daphne Faulkner	Answered By:URS Corporation                      David Fyfe				



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Co-Author:

REQUEST:

Reference: RFI T-0098, Sheet A-6000

Per response to RFI T-0098, the 10" x 10" tube steel columns are to be set in the center of the 14" concrete wall. The architectural drawings (sheet A-6000 dated 11/04/10) show 10" metal studs aligning with the 10" tube steel, however, per response to RFI T-0098, the tube steel is to shift in the architectural drawings 1/2" and align in the center of the concrete wall. Please confirm that the metal studs will remain per plan, and not shift as the steel tube has.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

The light gauge steel studs will remain per plan as shown in Section B on S-5000. The light gauge steel studs shall be placed on both sides of the tube steel as shown on the contract documents.

Per direction provided at 5/2 weekly coordination meeting, 1 - 5/8" light gauge studs shown on Detail A, Sheet A-6000 shall be in line with 10" light gauge steel stud (i.e. both sides of tube steel).

T-0120	301 Mission Wall - Stone Panel Layout	Closed	04/27/2011	05/07/2011	05/20/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation	
						David Fyfe	

Co-Author:

REQUEST:

Reference: RFI T-0042

Per RFI T-0042, the concrete wall height increased to achieve a min 18" above the finished paver surface. Please clarify if the exposed concrete areas shown on A-5000 are to to be min 18" above the pavers. If so, the 1st stone above the exposed concrete would have to be trimmed. Please clarify.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

Per contract documents, at exposed concrete wall sections, full height of concrete wall above finished top of paver (and finished concrete walks at east and west ends) shall be exposed.

Cutting of stone panel(s) to a height of approximately 6.84" and cutting of stone panels in an "L" shape as shown in attached sketches, "Attachment for RFI T-0120" and "Part of Sheet A-5000" transmitted/emailed to URS from Webcor-Obayashi on 5/19/2011 is acceptable.

Per contract documents, at east end of wall (east of east most section of exposed concrete wall) stone panels shall extend down to finished top of paver/concrete walk. See annotation by URS on attached sketch, "Part of Sheet A-5000\_Annotated by URS."

(Answered by: David Fyfe on 05/20/11)  
(Response forwarded to Webcor-Obayashi on 05/22/11)





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 89 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0121	301 Mission Wall - Aluminum Panel Layout	Closed	04/27/2011	05/07/2011	05/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford		To: Turner Construction Compan	Daphne Faulkner		Answered By:URS Corporation		David Fye
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference: A-5000						Per contract documents aluminum panels shall match original aluminum panels. Existing bottom aluminum panel(s), as shown in photos on sheet C-5010, have an approximate 1" gap between the bottom of panel and top of existing grade.	
Regarding the aluminum panels on the 301 Mission wall, bottom panel at each end of the wall will need to be trimmed. The standard panel is 2-11 1/2" tall, but the bottom panel measures out to be 2'-1"+/- on the west end and 2'-9"+/- on the east. Please confirm that this is acceptable. If not, please advise.						Contractor shall place bottom aluminum panel(s) to provide an approximate 1" gap between bottom of panel and top of finished/existing grade. It is acceptable to provide bottom panel(s) that are less than 2' - 11-1/2" tall to provide an approximate 1" gap between bottom of panel(s) and top of finished/existing grade.	
<hr/>							
T-0122	BSE - Hazardous Material Removed From Zone 3 (Potential Contaminated Material Closed		04/29/2011	05/09/2011	05/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran		To: Turner Construction Compan		Daphne Faulkner		Answered By:Turner Construction Comp. Jack Adams	
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference Specification Section 00 03 35, 1.2						Hazardous material has been removed from site per the extent of demolition contract drawings for zones 3 - this does not include the "pedestals" in Zone 3. The building and above ground structures were demolished to the extent shown on Demolition contract drawings. Hazardous materials abatement scope was completed within the scope of demolition only. Refer to Demolition Drawings D-1050, D-1051 and D-1073 for representation of limits of structures (specifically the referenced pedestals) demolished and hazardous material abatement.	
During Investigation of Zone 3, BBII discovered potential lead based material existing on site. The specific area of concern is the pedestals on Fremont Street.						BSE Contractor to handle remaining demolition and abatement in accord with BSE Spec 00-08-14 Health and Safety Criteria Para 1.2 and 1.3 Lead hazards, BSE Spec. 02-41-01 "Demolition" and BSE Spec. 01-13-50 "Hazardous Materials Procedures".	
Please confirm that all contaminated material (specifically the referenced pedestals) as specified in the specification section 00 03 35, Article 1.2 has been removed and abated by the Demolition Contractor.							
BBII is scheduled to remove these pedestals next week and cannot proceed with this critical work until it is confirmed that the site is cleared of lead based materials as required by the Specifications.							
The TJPA's attention is directed to the following Section of the Specifications:							
SECTION 00 03 35 ı EXISTING CONDITIONS: HAZARDOUS MATERIALS							
"1.2 HAZARDOUS MATERIALS REPORTS							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

A. The TJPA's environmental consultants have surveyed the facility for the presence of various hazardous materials. Materials investigated may include asbestos, lead, PCB ballasts, mercury containing lamps, contaminated soils, underground storage tanks, and other hazardous materials. The demolition contractor for the Demolition project (Evans Brothers Inc.) is responsible for removing and abating products containing asbestos, lead, or PCB ballast, and mercury-containing lamps."

<b>T-0123</b>	<b>301 Mission Wall - SASM and Insulation Tape Materials</b>	<b>Closed</b>	<b>04/29/2011</b>	<b>05/09/2011</b>	<b>05/05/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      David Hungerford		<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> URS Corporation		David Fyfe	

**Co-Author:****REQUEST:**

Reference: S-0002, A-6000

Clarification is requested regarding the notes and details on Sheet S-0002, and A-6000 (see attached marked up sheets). Note 1 within the "WALL FINISH" section of the notes on page S-0002 says to use insulation separation tape between treated wood surfaces and steel framing. In note 2 on page S-0002, SASM is specified as a different material, but on the details of page A-6000 SASM is shown to be used in the same areas as is described for the insulation tape. It is the interpretation of Transworld that the insulation tape is to be used at all locations referenced on sheet A-6000 as "SASM". Please clarify if these two different materials are to be applied in the same areas.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Insulation tape shall be used between all treated wood and metal surfaces. SASM shall be used as a waterproofing barrier around the entire wall as shown on the contract documents.

These two materials (SASM and insulation tape) may overlap in certain locations where insulation tape is provided between treated wood and metal surfaces and where waterproofing is also required.

<b>T-0123.1</b>	<b>301 Mission Wall - SASM and Insulation Tape Materials</b>	<b>Closed</b>	<b>05/06/2011</b>	<b>05/16/2011</b>	<b>05/09/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      David Hungerford		<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> URS Corporation		David Fyfe	

**Co-Author:****REQUEST:**

Reference: RFI T-0123, A-6000, S-0002

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

This is not a new contract requirement. SASM is referred to on A-6000 in two different instances. It is



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 91 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>The response provided to RFI T-0123 is in conflict with the contract documents. The response requires the contractor to create a waterproofing barrier for the entire length of the wall; however, the contract documents do not indicate a complete waterproofing barrier. References to SASM on page A-6000 instructs the application of SASM at all points where pressure-treated or moisture resistant wood comes in contact with metal. This application instruction, therefore, would not result in a waterproof barrier along the entire length of the wall. Please clarify if on the details "SASM" was intended to read "insulation tape", because the application locations of the SASM, as per A-6000, are called out and described to be at all locations of the insulation tape defined on S-0002.</p> <p>In the alternative, is it the intention of the design team to apply additional waterproofing not shown on the contract documents?</p>						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 92 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
<b>REQUEST:</b> Reference: RFI T- 0124, URS response to RFI T- 0124  Per recent Change Order negotiations for the required 301 Mission Wall end panel per RFI # T-0124, the panel detail is now being revised to a two-piece, glued enclosure panel. Please confirm the method of two-piece panel attachment to the existing wall is the same as that indicated in RFI # T-0124.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Material substitution (two 1/8" thick aluminum panels glued together in lieu of a single 3/16" thick aluminum panel), "Proposed gap closure per RFI #T-0124-Option3" provided in attached Change Request No. 10C from Transworld Construction Inc. to Webcor/Obayashi dated 7/26/2011 is acceptable, provided aluminum panels are fastened to metal stud with rivets or sheet metal screws at 24" o.c.			
<hr/>							
<b>T-0125</b>	<b>BSE - CDSM Corner Overlap</b>	<b>Closed</b>	<b>05/02/2011</b>	<b>05/12/2011</b>	<b>05/06/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran		<b>To:</b> Turner Construction Compan    Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc    George Metzger			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference Sheets GT-2101-2103, GT-5101 and Specification Section 31 56 13  In the Owner's preferred method of soil mixing, the triple auger method, a continuous wall is formed by drilling adjacent sets of columns with a 100% overlap of the outer columns (see 2/GT-5101). A CDSM wall's strength, permeability, and homogeneity is largely contingent upon this remixing action. This overlap also helps ensure the verticality and alignment, as the augers in the secondary panels tend to follow the path of the outer columns of the primary panels. Based upon the beam and column layout shown in GT-2101-2013, the corners formed by Wall Segment A/33.5-35 & 35-1 and R2-1 & X1-1 do not receive the complete remixing obtained by the typical 100% outer column overlap. These corner details are atypical compared to industry standards, and will lead to permeability issues. Is it acceptable to move a small number of beams slightly closer together (~0.1') near those corners, such that the panel layout is shifted enough to have a 100% column overlap at the corners?		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Arup received from DND the two sketches attached to this response at the BSE meeting on May 4, 2011 as further clarification of the Contractor's proposal. The Contractor's proposal is acceptable.			
<hr/>							
<b>T-0126</b>	<b>BSE - Confirmation of Utility Abandonment on Fremont St, East side of Phase 1 El</b>	<b>Closed</b>	<b>05/02/2011</b>	<b>05/12/2011</b>	<b>05/12/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran		<b>To:</b> Turner Construction Compan    Daphne Faulkner		<b>Answered By:</b> Transbay PMPC                      Douglas Jacobson			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 93 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div>REQUEST: In order to drive sheet piles for the hammer head wall location along Fremont St and the North West Corner of Zone 4, BBII requests confirmation of the abandonment of all utilities east of the PG&amp;E electrical duct bank. BBII also will need the As-Build drawing of the PG&amp;E duct bank location.  BBII needs this information to proceed on the extra unforeseen concrete wall in the hammer head area of the buttress wall.</div>	<div>SUGGESTION:</div>			<div>ANSWER: Accept Suggestion: <input type="checkbox"/></div> <div>Today, 5/11, BBI has sawcut AC and removed one lane-width and two laborers have exposed the utility lines in the street east of the PG&amp;E duct bank. Verizon came and cut two of their 4" ducts. The remaining lines will be identified by the utility subcontractors in the next day or two. Please contact Jason Dunne (W/O) for the field conditions of abandoned utilities.</div>		
T-0127	BSE - Openings Below Screen Wall at 301 Mission Building	Closed	05/04/2011	05/14/2011	05/16/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran		To: Turner Construction Compan	Daphne Faulkner		Answered By:URS Corporation		David Fyfe
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
	<div>REQUEST: Reference Sheets GT-2201, GT-5102 Sec. 10, and attached photos  In the northwest corner of Zone 4, BBII has exposed 2 openings below the screen wall in the 301 Mission structure. The first opening is located approximately 6 feet east of gridline 27 and the second opening is located approximately 8 feet east of gridline 29. These openings are approximately 18" x 36" in size. (See attached pictures).  These openings are not shown on construction documents. Please advise how to proceed. BBII requests an expedited response prior to the end of this week, as this matter is pertinent to backfill operation.</div>	<div>SUGGESTION:</div>			<div>ANSWER: Accept Suggestion: <input type="checkbox"/></div> <div>Plugging of existing ventilation shafts/openings below screen wall is specified in the 301 Mission Interim Screen Wall contract documents. Webcor-Obayashi to coordinate all work amongst tradegroup packages/subcontractors.</div>		
T-0128	BSE - Old Existing Concrete Floor Along 301 Mission in Zone 4	Closed	05/05/2011	05/15/2011	05/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran		To: Turner Construction Compan	Daphne Faulkner		Answered By:Transbay PMPC		Douglas Jacobson
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
	<div>REQUEST: Reference Specification Section 02 41 01</div>	<div>SUGGESTION:</div>			<div>ANSWER: Accept Suggestion: <input type="checkbox"/></div> <div>The obstruction was removed by BBI. Remove pre-trench obstructions per contract requirements and</div>		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 94 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>During pre-trenching, BBII found an existing concrete floor along the 301 Mission St garage wall. It is located between the 301 Mission building wall and the buttress area between Grid Line 29 and 30. BBII has exposed a 20ft-30ft section of this floor (approximately on Grid Line A between Grid Lines 29 and 30), and have demolished the slab within the pre-trench area that has been exposed. It appears to BBI that this unforeseen obstruction continues further into the buttress area. If this unforeseen obstruction continues further into the buttress area, it would have to be removed so the buttress construction can continue.</div> <div>Force Account agreement with TJPA.</div> <div>Please advise on how to proceed.</div>							
T-0129	BSE - Unforeseen Timber Pile in Pre-Trench Along 301 Mission in Zone 4	Closed	05/05/2011	05/15/2011	05/06/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Adamson Associates, Inc George Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference Specification Section 02 41 01 and attached photo				Arup Response:			
During pre-trenching, BBI discovered existing timber piles along the 301 Mission St garage wall between Grid Lines 29 and 30. These piles are less than 1foot away from the 301 Mission St garage wall and within the CDSM shoring wall limits. These unforeseen piles need to be removed as soon as possible. Please advise on how to proceed.				1. For the westernmost 3 timber piles along the line of piles 16 to 18" from the face of the 301 Mission wall: in order to minimize ground loss at 20 to 30 ft depth beneath the PG+E vault and adjacent corridor, BBI needs to use best endeavors to carry out the pile removal using the method agreed following the initial trials. This means vibrating in the casing in advance of removing any of those piles.			
W/O requests that the Engineer Of Record (Arup) review this on site with BBII prior to responding.				2. For the remaining timber piles along this line, the piles are anticipated to be 30' long and will thus lie within the influence of the c. 70' deep shoring wall for the 301 Mission Low-rise parking garage. Each pile can be removed without casing, working from east to west. Concrete to be placed in the remnant pile hole as rapidly as possible after pile removal and before removal of the adjacent pile.			
T-0130	301 Mission Wall - FCR 043 Concrete Wall Crack	Closed	05/06/2011	05/16/2011	05/09/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:URS Corporation David Fyfe	



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 95 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Reference: Field Condition Report No. 043

See attached FCR No. 043. The east end of the 301 Mission concrete wall has cracks and also spalled in one corner. This had been discussed on 05/02/11, in Transworld's subcontractor meeting with Turner, URS, TJPA, Webcor-Obayashi, and Transworld. Please advise as to how Transworld is to repair the spalled corner and cracks.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Defective concrete shall be removed and concrete shall be restored in accordance with ACI 301 Section 5.3.7.3. An epoxy bonding agent shall be used in lieu of bonding grout where new concrete and existing concrete interface. After removal of the defective concrete and prior to restoration, contractor shall contact engineer to inspect the removal areas in field.

If crack(s) go beyond/into the anchor bolts and reinforcement, the concrete shall be removed minimum of 1" around the reinforcement and anchor bolts. Contractor shall shore/support the existing structural steel as necessary in order to prevent damage to other areas of existing concrete.

<b>T-0130.1</b>	<b>301 Mission Wall - FCR 043 Concrete Wall Patch Material</b>	<b>Closed</b>	<b>06/09/2011</b>	<b>06/19/2011</b>	<b>06/13/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> URS Corporation	David Fyfe		

#### Co-Author:

#### REQUEST:

Reference: FCR #043, RFI T-0130, and attached product data

Response to RFI T-0130 directs Transworld to repair the damaged concrete at the 301 Mission Wall, as described in Field Condition Report 043. Attached are product data sheets which satisfy the requirements noted in response to RFI T-0130. Please review and confirm that the attached materials are acceptable to patch the damaged concrete.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

The submitted materials are acceptable to patch the damaged concrete. All materials shall be prepared, mixed and placed in accordance with manufacturers' recommendations.

<b>T-0131</b>	<b>301 Mission Wall - Framing Modifications and Base Plate Conflict</b>	<b>Closed</b>	<b>05/06/2011</b>	<b>05/16/2011</b>	<b>05/20/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> URS Corporation	David Fyfe		

#### Co-Author:

#### REQUEST:

Reference: C/S-5000, B/A-6000, attached sketches, and referenced RFI's

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Item/Issue 1) Contractor shall cut base plate neat, flush with stucco slot/face of concrete. Extent of cut(s) shall not exceed dimension(s) shown in attached



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Field verified measurements and layout for the location of the structural steel does not coordinate with the stucco inset locations as shown on detail C/S-5000. In addition framing around the perimeter of the wall (aluminum panel locations) had to be modified due to assembly and installation methods. (See attached pictures and sketches. This RFI addresses three framing issues. All issues have been discussed in the weekly 301 Mission Wall subcontractor meeting with URS, Turner, Transworld, TJPA and Webcor-Obayashi.</p> <p>1.) In two of the four stucco slot locations, field conditions show that a portion of the base plate conflicts with the stucco slot. This base plate encroaches into the stucco panel per dimensions shown on the attached sketch. Please advise.</p> <p>2.) The structural steel had been relocated to CL of the wall (per RFI T-0098) and therefore studs around the steel per B/A-6000 could not be set per plan. Transworld has installed hat channel metal framing to the face of the structural steel tube using fasteners into the structural steel as per RFI T-0106 as well as modified the boxed framing per attached sketches around the perimeter of the wall. Sizes of metal framing were used to align with adjacent framing per plan. This work is currently installed, please confirm framing modifications per attached marked up details are acceptable.</p> <p>3.) Blocking a the top of the wall at the north side (between the framing and 8"x 8" tube steel) was not installed, as there was no room between the framing and steel. Framing was attached directly to the tube steel. See attached.</p> <p>Please confirm that the framing modifications in item 2 and 3 are acceptable and provide direction at the base plate conflict per item 1.</p>						
						<p>sketch, "RFI T-0131: (Item 1) Base Plate conflict with slot locations" provided by WO/Transworld. Contractor shall field apply complete paint system as stated in contract documents following cutting procedures. Any damage to non-shink grout and/or concrete below shall be repaired. All architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) shall be installed as shown on contract documents.</p> <p>Item/Issue 2) We note this request is for convenience of the Contractor and on this basis take no exception to the framing modifications as shown in attached sketches, "RFI T-0131: (Item 2) Metal Stud Framing Modification at Perimeter of Wall (Aluminum Panel locations)" and "RFI T-0131: (Item 2) Metal Stud Framing Modification Surrounding Structural Steel (Slot locations)" provided by WO/Transworld. Accordingly, no change in contract and/or extension in schedule will be provided to accommodate this Contractor request. All impacts associated with proposed framing modifications, including installation of all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) as shown on contracts documents, cost and schedule shall be borne solely by the Contractor.</p> <p>Item/Issue 3) Intention of wood blocking is to provide spacing and allow fastening of aluminum panels. If there is not sufficient space to provide wood blocking, it is acceptable to fasten aluminum panels directly to tube steel members and omit wood blocking on north side of wall as shown in attached sketch, "RFI T-0131: (Item 3) Omission of Blocking Between 8" x 8" Tube Steel and Framing (North Side Only). Accordingly, prior to deletion of wood blocking Contractor shall ensure all architectural wall finishes (SASM, cement board, stone panels, aluminum panels, 3-coat stucco, etc.) can and will be installed as shown on contract documents.</p>	





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0132	BSE - Lead Based Paint On Bent Pedestals	Closed	05/06/2011	05/16/2011	05/09/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture      Masashi Kojima <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Balfour Beatty Infrastructu      Ural Yal				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Please see information attached regarding the paint on the old bent Pedestals existing along Fremont Street. The information provided indicates the level of lead is above the permissible level. This area is now considered part of the lead abatement program; this work will be commencing on Saturday 5/7/2011. Cost of this Lead abatement will be charged to the owner.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Voided. See the attached email on 05/09/2011.		
<hr/>							
T-0133	BSE - CDSM Test Section & Start of Work	Closed	05/09/2011	05/19/2011	05/10/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc      George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 31 56 13, 1.6. F. 1-2  Please confirm that the acceptance of Zone 4 Test Section strength and permeability results is the prerequisite to begin Zone 4 & 3 shoring work, and acceptance of the Zone 1/2 Test Section results is the prerequisite to begin work Zones 1 & 2.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The acceptance of Zone 4 Test Section strength and permeability results is the prerequisite to begin Zone 4 & 3 shoring work, and acceptance of the Zone 1/2 Test Section results is the prerequisite to begin work Zones 1 & 2.		
<hr/>							
T-0134	BSE - 301 Mission Guide Wall	Closed	05/09/2011	05/19/2011	05/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Transbay PMPC      Douglas Jacobson				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-2103, Specification Section 31 56 13, and attached sketch  Typically in CDSM shoring, a guide frame constructed from steel beams is used, which straddles the CDSM wall. The guide frame is used to align the augers, align and place beams, and expand/collapse the drill rods. The existing 301 Mission building wall is approximately 5-6" away from the outside of the CDSM shoring wall. As such it will not permit placement of a standard steel beam guide frame. Is it acceptable to construct a temporary concrete/rebar guide wall on the outside of the CDSM wall and adjacent to the existing 301 Mission footing wall? See			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> This guide wall proposal is for Contractor convenience.  Please submit more information for this proposal, e.g., spacing, depth, and diameter of anchors/studs, discuss means and methods, and describe condition that contractor will leave the CMU wall when finished.  Once the above information is returned, TJPA will meet with 301 Mission to negotiate authorization for this proposal.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 98 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

attached sketch details of the proposed guide wall.

T-0135	BSE - Unforeseen Timber Piles in Pre-Trench Along 301 Mission St. in Zone 4			Closed	05/10/2011	05/20/2011	05/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran		To: Turner Construction Compan		Daphne Faulkner		Answered By:Adamson Associates, Inc George Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:				SUGGESTION:				ANSWER:	
Reference RFI#T-0129 and Specification Section 02 41 01								Accept Suggestion: <input type="checkbox"/>	
The response to BBII RFI 094 [RFI #T-0129] regarding the unforeseen timber piles along 301 Mission Street, "Concrete to be placed in the remnant pile hole as rapidly as possible after pile removal of the adjacent pile."								ARUP Response:	
Per DND Construction, concrete backfill is incompatible with soil mixing methods. Please provide clarification on what material will be placed within the CDSM wall limits that will not conflict with the mixing of the CDSM wall.								The material for filling the void left by the extracted timber pile needs to be filled by a material which can be drilled by the CDSM shoring equipment.	
								Kevin Clinch	
								12 May 2011	

T-0136	301 Mission Wall - Manhole Vents	Closed	05/10/2011	05/20/2011	05/20/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Daphne Faulkner	Answered By:Turner Construction Comp Kevin Chiu	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference: A/C-5000,				5/23/11 UPDATED RESPONSE from Kevin Chiu: Pending approval by TJPA, a CR may be issued. =====			
Per Justin Burke of Turner Construction, the 3' tall sleeves on the north side of the 301 Mission Screen Wall are per PG&E preference. At Turner's request, please review the design for the sleeves as shown on C-5000 and consider a grated cover over the manholes at grade, as opposed to the 3' tall sleeves per the documents.				5/20/11 Response per Kevin Chiu: Contractor is to eliminate the referenced "(N) 3'-0" HIGH CIP CONCRETE SLEEVE OVER MANHOLE WITH (N) KADEE S.S. CIRCULAR GRATE SATIN FINISH (TWO LOCATIONS)" per C-5000. Elimination of sleeves was agreed upon by TJPA (Brian Dykes), PG&E (Mike Balmy) and Mission Street Development (Steve Hood).			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0137	BSE - Unforeseen Obstruction - Concrete Lip Off 301 Mission St Garage Footing	Closed	05/10/2011	05/20/2011	05/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan    Daphne Faulkner			Answered By:Transbay PMPC      Roger Rothenburger				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:			ANSWER:				
Reference Specification Section 02 41 01 and attached photo			Accept Suggestion: <input type="checkbox"/>				
During Pre-Trench, BBII found an existing concrete lip/shelf footing along the low-rise 301 Mission St. garage wall. The footing consists of reinforced concrete, and is a part of the 301 Mission St. garage structure. It is not a separate structure, and it protrudes into the CDSM wall location in multiple places and does not allow enough room for the drill rig to construct the CDSM wall. The lip/shelf protrudes out at the western corner of the 301 Mission St. garage and goes to the east 81-feet. The footing is then flush with the 301 Mission St garage wall for 67-feet.			Previously a much larger section of concete footing within the TJP A limits was removed with a breaker.				
This is a potential delay in pre-trenching and the installation of the CDSM wall. It is a part of the 301 Mission St garage, and will need to be removed flush with the 301 Mission St. wall.			The BSE Contractor BBII should determine the property line and the extent that this protrusion from 301 Mission is within the TJP A limits.				
Please see photo attached.			If the 3" protrusion is within the TJP A construction limits beyond the property line of 301 Mission the "3-inch lip" should be removed with smaller breaking tools and concrete chipping tools back to the property line limits.				
Please advise BBII as to how to proceed.							

T-0138	BSE - Unforeseen Timber Pile in Pre Trench Along 301 Mission St. in Zone 4 - Con	Closed	05/10/2011	05/20/2011	05/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan    Daphne Faulkner			Answered By:Adamson Associates, Inc    George Metzger				

(1) At a date and time (Friday May 13, 2011 mentioned





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 102 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

BBII proposed and furnished Central Concrete Sand Slurry Mix FOA100CX under the direction of the Engineer. The Engineer of Record's field engineer reviewed, approved and observed the installation of this mix in the pile voids along 301 Mission Street. The mix was recommended by ARUP Field Engineer prior to placement in the field, please confirm that this mix design meets the field engineer's requirements.

Attachments: Mix as requested is being submitted for record.

T-0139	BSE - Unforeseen Timber Pile in Pre Trench Along 301 Mission St. in Zone 4 - CR 1 Closed			05/10/2011	05/20/2011	05/11/2011	Potentially <input type="checkbox"/>
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan	Daphne Faulkner	Answered By: Transbay PMPC		Roger Rothenburger	
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal						
REQUEST:	SUGGESTION:			ANSWER:	Accept Suggestion: <input type="checkbox"/>		
Reference Response to RFI #T-0129 [BBI RFI 094] and Specification Section 02 41 01				As discussed in the BSE meeting of Wednesday, May 11, 2011 the removal of the unforeseen piles in the CDSM shoring wall pre-trenching along 301 Mission is paid under CRT-010.			
Please clarify if the removal of the unforeseen timber piles along 301 Mission Street will be reimbursed by CR T-010.							

T-0140	BSE - Bridges Submittals	Closed	05/12/2011	05/22/2011	05/27/2011	Potentially	<input type="checkbox"/>	
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By:	URS Corporation	David Fyfe
Co-Author:	Balfour Beatty Infrastructure, Inc.	Ural Yal						
REQUEST:	Reference Specification Section 01 53 13		SUGGESTION:			ANSWER:	Accept Suggestion:	<input type="checkbox"/>
	BBII proposes breaking up the bridge submittals to allow submittal fundamental structural drawings and calculations for the bridge, independent of accessories and specialized components necessary for a complete bridge package.					The approval to split the temporary bridge submittal into two submissions is provided subject to the following conditions:		
	Specifically, the first set of submittals would include Structural drawings and calculations for the bridge structure from the pavement and decking down - piers, cap beams, girders, abutments, and associated					1. Items which are provided in the initial submission shall be designed for all loading to support all features which are deferred. This includes loading attributable to but not limited to the following: operable gates; vehicle barriers; required thickness of pavement for all purposes, added thickness of paving for pedestrian areas, curbs and provisions for slope inducement for		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 103 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>connections. Additionally, it will include standard edge railing/barriers.</p> <p>Follow on coordination submittals will include traffic coordination components, gates, hardware, locking mechanisms, fences, Muni OCS components, utility support details, surface grading and drainage.</p> <p>BBII believes that it will take some time to finalize a complete bridge package that satisfies all interested parties. Isolating the core bridge structure into it's own submittals will ensure that detailing and fabrication of the main components of the bridge will not be held up while working out the details.</p> <p>Please confirm this is acceptable</p>						
<b>T-0141</b>	<b>BSE - Inclinometers IW-5 to IW-8 Install Locations</b>	<b>Closed</b>	<b>05/12/2011</b>	<b>05/22/2011</b>	<b>05/16/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger					
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheets GT-1301, GT-1302, GT-2201 & 13/GT-5101 and Specification Section 31 56 13  Please clarify if locations IW-5 to IW-8 exist. They are not shown on GT-1301 and GT-1302.		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Inclinometers IW-5 to IW-8 do not exist.				
<b>T-0142</b>	<b>BSE - Instruments I-104 to I-107</b>	<b>Closed</b>	<b>05/13/2011</b>	<b>05/23/2011</b>	<b>05/16/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger					
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheets GT-1301, GT-1302, GT-2201, & 13/GT-5101 and Specification Section 31 56 13		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Instruments I-104 to I-107 require detail 13/GT-5101.				





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 104 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

On Sheet GT-2201, please confirm that Instrument I-104 to I-107 is detail 13/GT-5101.

T-0143	BSE - Confirmation of Utility Decommissioning and As-Builts for Fremont Street			Closed	05/16/2011	05/26/2011	05/20/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Daphne Faulkner	Answered By: Turner Construction Company				Kevin Chiu
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal								
REQUEST:			SUGGESTION:			ANSWER:				Accept Suggestion: <input type="checkbox"/>
Reference Sheet D-2230 and attached sketch						Removal of existing duct bank is in RUP scope, see U-1123. Coordinate BSE work activities with RUP scope. Target date given by PG&E to have duct bank decommissioned is 6/24/11. If RUP's removal of duck bank is not complete prior to drill pad installation, BBI is to protect the existing utilities.				
During BBII potholing work on the Fremont street hammer head, BBII exposed the existing live PG&E concrete duct bank. The duct bank is located under BBII Buttress drill pad (see attached sketch), the drill pad is scheduled to be poured 5-26-2011/5-27-2011. BBII has concerns that the duct bank will not be able to support the load for the drilling equipment. The concrete duct bank will need to be removed prior to drill pad installation. Please advise.										

T-0144	BSE - Unknown Concrete Structure along 199 Fremont St in Zone 4			Closed	05/18/2011	05/28/2011	05/24/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Masashi Kojima	To: Turner Construction Company		Daphne Faulkner	Answered By: Turner Construction Company				Kevin Chiu
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal								
REQUEST:			SUGGESTION:			ANSWER:				Accept Suggestion: <input type="checkbox"/>
Reference Specification Section 31 56 13										
<p>BBII discovered the unforeseen concrete structure in the attached photo. Tills concrete mass is unknown and is in direct conflict with the BSE CDSM wall.</p> <p>The concrete mass is approx 2ft wide and extends 8ft depth the entire between GL J 30-33.5 adjacent 199 Fremont Street building. During the excavation at 8ft there was water egress into the excavation from underneath the concrete structure see photos attached.</p> <p>BBII requests immediate direction from the TJPA on this issue.</p>										
			<p>Demolition of underground obstructions shall be per Spec 02-41-01 and Demolition Debris shall be handled in accord with Spec 01-74-00.</p> <p>-----</p> <p>5/20/2011 - George Metzger</p> <p>ARUP Response:</p> <p>If the CDSM shoring wall is to be installed in the location shown, then the material which is in the way, including any rubble which will interfere with the soil mixing for the CDSM wall, will need to be removed.</p>							







Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 106 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div><div>REQUEST:</div><div>Reference RFI#T-0103 and attached photo</div><div>During BBII demolition of the unknown concrete structure along South side of Zone 4 adjacent 177/181 Fremont building (Refer to [RFI#T-0103] BBII RFI# 74), BBII discovered timber piles beneath the unknown concrete structure - see photos attached.</div><div>The location timber piles are in conflict with the alignment of the CDSM wall. Please advise on the method of removal of the obstruction.</div><div>Note: BBII has concerns regarding the stability of the adjacent 177/181 Fremont Building (old brick structure).</div></div>	<div>SUGGESTION:</div>			<div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>ARUP Response:</div><div>1. We suggest that the timber piles be exposed no more than 3 at a time, and that they are removed and the remnant void is infilled immediately with a material that can be drilled by the shoring wall equipment of DND. A suitable material was proposed for the similar situation adjacent to the parking garage/low rise portion of 301 Mission.</div><div>2. If more timber piles are revealed along this part of the pre-trenching, then the process in 2 above should continue along the northern flank of 181 Fremont and for a distance of 20 ft east of the northeast corner of the building.</div><div>3. 181 Fremont building is equipped with crack width gauges, and Arup staff will take readings of the gauges before and after removal of the timber piles along this length of pre-trenching provided the building owner grants us access.</div><div>4. Inclinometers to monitor the effects of the installation of the shoring wall and the subsequent train box excavation will be installed in due course.</div><div>5. The Contractor shall take appropriate measures to retain the material under 181 Fremont and keep it from sloughing into the excavation.</div><div>-----</div><div>Adamson Associates, Inc. Comment:</div><div>CM (Turner) is to confirm that TJPA approves in writing the approach and work the Contractor proposes at this location as the Field Activates and Contractor actions may impact the adjacent property.</div></div>		
<hr/>							
T-0146.1	BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4	Closed	05/20/2011	05/30/2011	05/20/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner		
Co-Author:		Answered By: Transbay PMPC		Roger Rothenburger			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 107 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference RFI#T-0146

Please provide the TJPA's specific written direction and procedure on how to remove the unforeseen piles along North face of 181 Fremont Street according to the response for RFI T-0146.

The contractor cannot proceed on this extra and critical work without the specific direction and procedure provided in writing by the TJPA.

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

The Sheet pile method using sheet piles either interlocked or not interlocked for 20 feet or so, removing the piles (3ft of exposed pile required to remove) described to TJPA and its representatives this morning (May 20, 2011) on site is compliant with the Contract Specifications Section 02 41 19 (Pile Removal and Section 31 56 13 (CDSM Shoring Wall) Part 3.2 (Execution - Pre-trenching)

<b>T-0146.2</b>	<b>BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4</b>	<b>Closed</b>	<b>05/23/2011</b>	<b>06/02/2011</b>	<b>05/24/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP

Nhi Tran

**To:** Turner Construction Company Daphne Faulkner

**Answered By:** Turner Construction Company Kevin Chiu

**Co-Author:** Balfour Beatty Infrastructure, Inc.

Ural Yal

**REQUEST:**

Reference RFI#T-0146.1

Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011, BBII would like to confirm the following:

181 Fremont Street Pile Extraction:

1. BBII will install additional survey control to establish the back of the shoring wall limit.
2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.
3. BBII will expose, in the presence of the engineer, 3 piles at one time.
4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.
5. BBII will install flat sheet piles between the building and the wood piles to prevent caving of soils under the building.
6. BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.
7. BBII will backfill the void with low strength material

**SUGGESTION:****ANSWER:**

**Accept Suggestion:** ☐

Per Brian Dykes, this work is authorized to proceed. Allowable work hours will be established after 199 Fremont pile extraction begins.

-----  
5/24/2011 - George Metzger

ARUP Response:

The procedure described is consistent with that discussed and agreed to at yesterday's meeting with the following exceptions:

Item 4 shall read: BBI and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall. Arup will be on site to assist the TJPA.

The Contractor may wish to consider placing the steel sheet prior to excavating to retain the material under 181 Fremont and keep it from sloughing into the excavation.

Items 10 and 11 will be reviewed by others.



Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.

The row of timber piles closest to 199 Fremont are only 6"-9" clear of the 36-inch theoretical CDSM wall thickness. TJPA in order to avoid the potential risk of these timber piles some of whom are canted and not straight pulled if any part of the pile is within 12" of the theoretical CDSM wall line. Since this work has previously been classified as an "unknown obstruction" paid on force account; if there is damage to the 199 Masonry wall that the cost of repair is considered part of the force account work. BBII is to exert efforts to avoid damage and use the method of pulling the piles that gives least amount of risk for damage to the masonry wall. This response is only for 199 Fremont. Discussions must be held when starting pile removal along 181 Fremont.



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 109 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.</p> <p>3. BBII will expose, in the presence of the engineer, 3 piles at one time.</p> <p>4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.</p> <p>5. BBII will install flat sheet piles between the building and the wood piles to prevent caving of soils under the building.</p> <p>6. BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.</p> <p>7. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).</p> <p>8. BBII will backfill the piles.</p> <p>9. BBII will remove the sheet piles and start over with Step 3.</p> <p>10. All of this work will be tracked and compensated on force account under CR T-010.</p> <p>11. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.</p> <p>Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.</p>						

T-0146.4	BSE - Additional Timber Piles Adjacent 177/181 Fremont Building South Zone 4			Closed	05/27/2011	06/06/2011	05/31/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By: Turner Construction Comp Kevin Chiu			
Co-Author:	Balfour Beatty Infrastructure, Inc.		Ural Yal						
REQUEST:			SUGGESTION:			ANSWER:	Accept Suggestion:	<input type="checkbox"/>	
Per Turner's request on 5/27/2011 this RFI is being asked, to modify the 177/181 Fremont pile extraction procedure						Item 8 - BBI shall make every attempt to ensure voids are completely filled but is not required to test/verify			



T-0147	301 Mission Wall - Stone Application Detail	Closed	05/19/2011	05/29/2011	05/27/2011	Potentially	
--------	---	--------	------------	------------	------------	-------------	--



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**From:** Webcor Construction LP

David Hungerford

**To:** Turner Construction Company Daphne Faulkner

**Answered By:**URS Corporation

David Fyfe

**Co-Author:**

**REQUEST:**

Reference: Attached Sketch

Please review the attached sketch showing the thinset manufacturer's recommendations for the tile installation at this wall. In reference to the approved submittal detail (attached) an additional layer of cement board will be installed to fur out the substrate so that the materials can be applied to their recommended thickness. In addition, the manufacturer recommends to use Laticrete 254 Platinum thinset material. The stone tiles finished surface will align with the aluminum panel above. Please expedite the review of this RFI.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

2nd layer of cement board is not as specified in contract documents.

An adhesive shall be used between the layers of cement board in order to ensure the 2 layers act as a single composite layer. 2nd layer of cement board shall be attached to studs at 6" o.c. with stainless steel flat head screws to metal stud framing. All screws shall extend through both layers of cement board for full engagement to framing. There shall be no gaps or voids between the two layers of cement board.

Use of Laticrete 254 Platinum thinset material is acceptable.

**T-0148** **BSE - Additional Timber Piles Adjacent 199 Fremont Building Zone 4**

**Closed**

**05/23/2011 06/02/2011 05/24/2011 Potentially** ☐

**From:** Webcor Construction LP

Nhi Tran

**To:** Turner Construction Company Daphne Faulkner

**Answered By:**Turner Construction Company Kevin Chiu

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI#T-0146.2

Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011, BBII would like to confirm the following:

199 Fremont Street Pile Extraction:

1. BBII will install additional survey control to establish the back of the shoring wall limit.
2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.
3. BBII will excavate, in the presence of the engineer, 8 piles at one time.
4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.
5. BBII will extract the piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Per Brian Dykes, this work is authorized to proceed. 199 Fremont has been notified and work may commence.

5/24/2011 - George Metzger  
ARUP Response:

The procedure described is consistent with that discussed and agreed to at yesterday's meeting with the following exceptions:

Item 4 shall read: "BBI and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall." Arup will be on site to assist the TJPA.

Items 8 and 9 will be reviewed by others.





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 112 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>6. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).</p> <p>7. BBII will backfill the piles and start over with Step 3.</p> <p>8. All of this work will be tracked and compensated on force account under CR T-010.</p> <p>9. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.</p> <p>Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.</p>						
T-0148.1	BSE - Additional Timber Piles Adjacent 199 Fremont Building Zone 4	Closed	05/23/2011	06/02/2011	06/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:			
Reference RFI#T-0148				Accept Suggestion: <input type="checkbox"/>			
The response RFI T-0148 did not answer for Item 8 and 9. Please respond for Item 8 and Item 9.				Confirmed-In regards to item #8 and 9 in the response to RFI T-0148; All of this work will be tracked on force account under CR T-010. If BBII takes every precaution to avoid damaging the adjacent wall, BBII will be compensated for repairs under CR T-010 as well.			
-----							
RFI#T-0148 Question: Reference RFI#T-0146.2							
Based on the joint meeting between W/O, BBII and the TJPA on 5/23/2011, BBII would like to confirm the following:				There is no Noise moratorium for 199 Fremont. This includes demolition, pile pulling, excavation, backfill, equipment set-up etc. is allowed at all times adjacent to 199.			
199 Fremont Street Pile Extraction:							
1. BBII will install additional survey control to establish the back of the shoring wall limit.							
2. BBII will contact DND Construction to confirm the allowable distance between an existing pile and the back of the shoring wall.				Good neighbor notification policy is in effect - WO/BBli will notify Singer Assoc. whenever work will encroach on 199 Fremont property or when work activity will disrupt the tenants of 199 Fremont - both inside lot and on sidewalk/street.			





<i><b>Number</b></i>	<i><b>Subject</b></i>	<i><b>Status</b></i>	<i><b>Date Created</b></i>	<i><b>Date Required</b></i>	<i><b>Date Answered</b></i>	<i><b>Cost Impact</b></i>	<i><b>Proceed</b></i>
	<p>3. BBII will excavate, in the presence of the engineer, 8 piles at one time.</p> <p>4. BBII and the Engineer will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.</p> <p>5. BBII will extract the piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.</p> <p>6. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).</p> <p>7. BBII will backfill the piles and start over with Step 3.</p> <p>8. All of this work will be tracked and compensated on force account under CR T-010.</p> <p>9. Similar to the extraction in front of the 301 Mission garage wall, BBII will take every precaution to avoid damaging the adjacent wall; however, due to the proximity of the hammer to the wall, BBII will not guarantee not damaging the wall. If damage to the adjacent wall occurs in any phase of the pile extraction operation described above, BBII will be compensated for repairs under CR T-010 as well.</p> <p>Please confirm the above as soon as possible. In addition, BBII requests immediate confirmation of allowable work hours for the work described above.</p>						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 114 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0149	BSE - Revised Contract Drawing GT-2201	Closed	05/24/2011	06/03/2011	05/26/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-2201, RFI#T-0088.2, and attached sketch SKGT-0002  BBII agreed with the TJPA's proposal in the response of RFI T-0088.2. Therefore, please issue the revised contract drawing of GT-2201. Also, please note that attached Sketch SKGT-0002 includes an error in the CDSM wall alignment at gridline J/34-35.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Based on the 5/26/2011 meeting between TJPA, PMPC, Turner and AAI, and as directed by TJPA a revised contract drawing of GT-2201 will not be issued at this time. However, the attached sketch has been revised to correctly show the CDSM shoring wall outline. See attached SKGT-0002-R1.		
T-0150	BSE - CDSM Top of Pile Elevations At Zone 4	Closed	05/25/2011	06/04/2011	05/31/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-5101 and attached sketch  Please reference table 16/GT-5101. To facilitate construction on the streets and the Buttress area, at no additional cost to the owner BBII plans to install the CDSM piles on Fremont St., Beale St., and Zone 4 per the table below:  # - (a) Location / Description;   (b) Per 16/GT-5101 Top of Pile Elevation;   (c) Proposed Top of Pile Elevation  1 - (a) Piles at Fremont St. and Beale St.; (b) EL 13.0 and EL 15.0; (c) Flush to street elevation 2 - (a) Piles in the Buttress Work Pad area along 301 Mission; (b) EL 14.0; (c) Approx. EL 14.0 w/c flush to Top of Pad 3 - (a) Along 301 Mission, piles between the Buttress Work Pad and Beale St.; (b) EL 13.0; (c) Approx. EL 15.0 w/c is 1' above grade 4 - (a) Piles along the 181 Fremont side of Zone 4; (b) EL 14.0; (c) Approx. EL 15.0 w/c is 1' above grade  Please confirm.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The proposed top of pile elevations are acceptable provided the elevation at the bottom of the pile is not less than that shown in 16/GT-5101.		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 115 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0151	BSE - Buttress Footprint Increase Due to Oversized Casing	Closed	05/26/2011	06/05/2011	05/31/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan    Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc    George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference attached sketch  Becho will be utilizing a 2200mm OD temporary casing for the Buttress Pile Installation. Becho requests that the spacing between tangent piles remain at 4" minimum and the secant piles overlap remain 1'-6". This will approximately increase the Buttress footprint by approximately 4'-4" to the east and 1'-9" to the south.  Please confirm this is acceptable.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  This is acceptable provided no portion of the overall buttress shifts north-south. In particular, the Contractor shall verify that row R, once shifted east as proposed, can be installed in the same northsouth location, given the corner projection of the 301 Mission low-rise. Contractor to verify that the existing timber piles within the larger footprint have been removed and that the equipment pad is enlarged as necessary.				
T-0152	BSE - Additional Timber Piles Adjacent 199 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan    Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp    Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-2103 and RFI#T-0148  In regards to item #4 in the response to RFI T-0148; field investigations of the curvature in first few piles removed along 199 Freemont, BBII feels that at a minimum it is necessary to remove all piles that's top is within 12" of the "neat line" 36" wide CDSM wall.  Please confirm that removal of these piles to the limits described above, in addition to any associated damage to adjacent structures caused by the extraction will be reimbursed under CR T-010.  Item 4: 4. BBII and TJPA will jointly determine the piles that can be left in place with reasonable assurance that they will not impact the shoring wall.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Confirmed-In regards to item #4 in the response to RFI T-0148; All of this work will be tracked on force account under CR T-010. If BBII takes every precaution to avoid damaging the adjacent wall, BBII will be compensated for repairs under CR T-010 as well.				
T-0153	BSE - Additional Timber Piles Adjacent 177/181 Fremont Building	Closed	05/26/2011	06/05/2011	06/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan    Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp    Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b>			<b>SUGGESTION:</b> <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>				



T-0154	BSE - Becho Tremie Placement Process	Closed	05/26/2011	05/26/2011	05/31/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.		<b>To:</b> Turner Construction Company Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc. George Metzger			
<b>REQUEST:</b> Reference Specification Section 31 63 29, 3.5.G.4.K  SS31.63.29.3.5.G.4.k states "The tremie discharge end shall be immersed at least 25' in concrete at all times after starting the flow of concrete."  Becho requests concrete tremie embedment to be reduced to 10ft minimum for all piles and 5ft minimum tremie embedment at the secondary pile transition zones between structural and CLSM mix pushing the minimum contaminated structural/CLSM concrete zone at sub grade to +5 foot above sub grade elevation.  Please confirm this is acceptable.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  This is acceptable. Note that the procedure described pertains to both the primary and the secondary piles, not just the secondary piles as described in the RFI.			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0155	BSE - Primary Concrete Mix Tolerance	Closed	05/31/2011	06/10/2011	06/03/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 03 30 01, 1.5.F  BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches. During this meeting, Central Concrete expressed concern about variability in the Buttress Primary Concrete mix due to slight variations in material and batching. The Buttress Primary Concrete Mix is a very high performance mix and even small variations in the mix constituents can result in significant changes in strength. Please advise how much of a working tolerance is acceptable for the primary buttress concrete mix.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The strength of concrete which has been placed in the primary shafts will be considered satisfactory if both of the following requirements are met:  1. Every arithmetic average of any three consecutive strength tests (each test consisting of at least two 6 by 12 in. cylinders or at least three 4 by 8 in. cylinders made from the same sample of concrete) equals or exceeds 2,000 psi.  2. No individual strength test (average of two 6 by 12 in. cylinders or at least three 4 by 8 in. cylinders) falls below 1,800 psi.			
<hr/>							
T-0156	BSE - Primary Concrete Mix 90-Day Compressive Strength	Closed	05/31/2011	06/10/2011	06/03/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      Nhi Tran		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.                      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 03 30 01, 1.5.F  Per Specification Section 03 30 01 - 1.5F Trial Batches: "The mixes shall be proportioned to develop a compressive strength of 2,000 psi at 28 days." Per the response to Question TG0300-0262, "The rate of strength gain can be reduced so that the design strength is reached after 28 days but less than 91 days".  Please confirm that the Buttress Primary Shaft Concrete may take up to 90 days to achieve 2,000 psi.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The rate of strength gain can be reduced so that the design strength is reached after 28 days but ess than 91 days, provided the Contractor submits test data demonstrating that the mix will reach 2,000 psi at or before 90 days. At a minimum, compressive strength tests of the mix shall be taken at 7, 14, 28, 56 and 90 days. Each test shall consist of a minimum three cast cylinders and a minimum three cores taken from trial batch cubes placed in accordance with submittal TG0300-385.  At shafts C/2, C/4 and C/6 (refer to GT-2201), the mixes shall be proportioned to develop a compressive strength of 2,000 psi at 28 days.  Contractor to submit proposed mixes and corresponding test results for approval prior to their use.			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0157	BSE - Primary Concrete Mix 500 PSI At 7-Days	Closed	05/31/2011	06/10/2011	06/03/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc      George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 03 30 01, 2.2.E  BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches. One of the concerns for the Buttress Primary Concrete is to provide a mix that is able to consistently achieve both 500 psi at 7 days and 2,000 psi at 28 days. The Buttress Primary Concrete Mix is a very high performance mix and even small variations in the mix constituents can result in significant changes in strength. Please advise if it acceptable to allow a working tolerance for the 500 psi requirement at 7 days.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The 7 day compressive strength of primary shaft concrete (Type "A" concrete in spec section 03 30 01) shall be 500 psi +/- 200 psi.		
T-0157.1	BSE - PSI Schedule for Buttress Shaft Primary Mix	Closed	01/13/2012	01/23/2012	01/18/2012	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture      Kirk Nielsen <b>To:</b> Turner Construction Compan      Gary Kruttsch			<b>Answered By:</b> Webcor Construction LP      David Fields				
<b>Co-Author:</b>							
<b>REQUEST:</b> To date there are multiple RFI responses that address the scheduled PSI requirements for the primary shaft mix which is resulting in confusion and unnecessary Vela issues. For clarification sake please confirm the following schedule is correct: 1. 300 psi at 7 days pursuant to RFI response T-0157. 2. 2000 psi based on an arithmetic average of tests on or before 90 days pursuant to RFI response T-0155 and T-0156.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> RFI is void and answered in RFI T-0157.2		
T-0157.2	BSE - PSI Schedule for Buttress Shaft Primary Mix	Closed	01/18/2012	01/28/2012	01/18/2012	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture      Kirk Nielsen <b>To:</b> Turner Construction Compan      Gary Kruttsch			<b>Answered By:</b> Adamson Associates, Inc      George Metzger				
<b>Co-Author:</b>							
<b>REQUEST:</b> To date there are multiple RFI responses that address the scheduled PSI requirements for the primary shaft mix which is resulting in confusion and unnecessary Vela			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> The cylinder test results will be tracked in Vela as follows:		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	issues. For clarification sake please confirm the following schedule is correct: 1. 300 psi at 7 days pursuant to RFI response T-0157. 2. 2000 psi based on an arithmetic average of tests on or before 90 days pursuant to RFI response T-0155 and T-0156.			7 day report: below 300psi: Failure. Add an issue in Vela  28 day report:  below 300 psi: Failure. Keep the issue in Vela open below 2,000 psi: below specification but within RFI T-0156 guidelines; monitor; if the 7 day break for the same report was less than 300 psi, then the Vela issue stays open; if the 7 day break for the same report was greater than 300 psi, no Vela issue  90 day report:  below 2,000 psi: Failure. Add an issue in Vela  above 3,000 psi: Failure. Add an issue in Vela  Regarding the question of averaging, see response to RFI 155.			
<hr/>							
T-0157.3	BSE - PSI Schedule for Buttress Shaft Primary Mix	Closed	01/19/2012	01/29/2012	01/23/2012	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture      Kirk Nielsen		To: Turner Construction Compan	Gary Krutsch		Answered By: Arup		Kevin Clinch
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
To date there are multiple RFI responses that address the scheduled PSI requirements for the primary shaft mix which is resulting in confusion and unnecessary Vela issues. For clarification sake please confirm the following schedule is correct:  1. 300 psi at 7 days pursuant to RFI response T-0157.  2. 2000 psi based on an arithmetic average of tests on or before 90 days pursuant to RFI response T-0155 and T-0156.				The cylinder test results will be tracked in Vela as follows: Below 300 psi at 7 days: fail Above 300 psi at 7 days: pass Below 2,000 psi at 90 days: fail Above 2,000 psi at 90 days: pass Above 3000 @ 28 days does not conform with the specifications, but this will not be tracked in Vela. Regarding the question of averaging, see response to RFI 155			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 120 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0158	301 Mission Wall - Architect of Record	Closed	06/01/2011	06/11/2011	06/06/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: URS Corporation		David Fyfe	Answered By: Transbay PMPC	
		Alfred Lau					
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Please clarify who is the registered Architect of Record, for the 301 Mission Interim Screen Wall Project.				URS is the Architect/Engineer of Record per signature and seal affixed to the drawings.			

T-0159	BSE - Unforeseen Obstruction - Timber Piles Within Pre-Trench Limits Zone 3			Closed	06/02/2011	06/12/2011	06/06/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By: Webcor Construction LP				Nhi Tran
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal								
REQUEST:			SUGGESTION:							
Reference Sheet D-2212, Specification Section 02 41 01, attached sketch and photo										
During Pre-trench, BBII found additional unforeseen timber piles within the pre-trench limits along gridline A, between gridlines 24 & 25. Per Contract Drawing D-2212 (attached), there should only be a single row of timber piles in conflict with the CDSM wall, although when the area was exposed there are three rows within the CDSM wall limits (see attached photo). These will have to be removed and will be considered extra work.										
Please advise.										





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 121 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>Since Section 31 56 13 discusses both pre-trenching and the removal of timber piles and Bid Item #6 is for the removal of timber piles before the CDSM shoring wall is installed TJPA believes that this work was indicated and will provid payment for it under Bid Item #2, #4, #6, and #7.</div> <div>There will be no additional payment for the removal of timber piles for the CDSM wall.</div>							
T-0159.1	BSE - Unforeseen Obstruction - Timber Piles Within Pre-Trench Limits Zone 3	Closed	06/08/2011	06/18/2011	06/27/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner		
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By:Turner Construction Comp Kevin Chiu				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference RFI#T-0159, Sheet D-2212, Specification Section 02 41 19, and attached photos		The response to RFI T-0159 applies. The contractor shall remove all piles encountered during pre-trench activities.					
The Response to RFI#T-0159, appears to have misunderstood the question. Therefore BBII is providing additional information.		Per note 7 on D-2212, it was made clear at the time of bid that the actual existing conditions may differ from the information shown on the drawings.					
BBII contends that the lower and smaller diameter piles as indicated in the attached sketch were not shown in either the contract drawings or the reference documents, therefore BBII was un-able to account for the removal of these piles in their bid item prices. These piles meet the general conditions article 3.05A.2 definition of an unforeseen condition, because that quantity of piles encountered exceeds that shown in the bid docs.		Note 7 on D-2212 states, "Location and depth/thickness of (E) basement slabs, walls and pile caps and location and depth/grouping of (E) piles shown on drawings based on best available information and may vary. [...] These quantities may not represent the actual extents of the entire building and/or ramp structure foundation elements (piles/footings)."					
Please confirm the removal of the "unforeseen" timber piles in excess of those shown in the drawings, will be tracked and paid under a Force account contract change order similarly as done for Zone 4 pre-trench obstructions.							

T-0160	BSE - Timber Piles Not Extracted In Zone 4			Closed	06/03/2011	06/13/2011	06/16/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner				
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By: Turner Construction Comp. Jack Adams						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 122 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div><div><b>REQUEST:</b><p>Reference CR T-010 and attached summary and sketch</p><p>BBII continues to remove unforeseen timber piles along 199 Fremont Street in Zone 4 and soon will commence extraction along 181 Fremont Street.</p><p>As of May 31, 2011, BBII has left 7 piles in place as they were estimated to be more than 12" away from the limits of the CDSM shoring wall. In addition, 5 piles were broken during extraction a portion of which were left in place due to their proximity to the adjacent building walls. While these piles also appear to be more than 12" outside the limits of the CDSM shoring wall, due to possible undulations and alignment changes underground, the possibility of these piles encroaching into the CDSM shoring wall area exist.</p><p>These piles are not shown on the contract plans and are extracted with extreme caution under the TJPA's direction and prescribed methods, taking the integrity of the adjacent buildings in consideration. Please confirm that it is the TJPA's intention to leave these piles in place.</p></div><div><b>SUGGESTION:</b></div><div><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/><p>Contractor is to remove the wood piles adjacent to 199 and 181 Fremont using alternate means and methods. Wood pile can remain along this line if it will not interfere with installation of CDSM wall.</p></div></div>							
<b>T-0161</b>	<b>BSE - CDSM Wall Soldier Pile Installation</b>	<b>Closed</b>	<b>06/03/2011</b>	<b>06/13/2011</b>	<b>06/06/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Webcor Construction LP   Nhi Tran			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<div><div><b>REQUEST:</b><p>Reference Specification Section 31 56 13, 3.13 and attached detail sketch</p><p>Is it acceptable to cut a 1.5" diameter hole, 16" from the bottom tip, in the web of the soldier beam pile beams? The purpose of the hole is to aid in securing the tail of the beam to the "dolly" that DND will use to raise the beams into a vertical position.</p></div><div><b>SUGGESTION:</b></div><div><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/><p>06/03/2011 - George Metzger</p><p>ARUP Response:</p><p>This is acceptable.</p></div></div>							
<b>T-0162</b>	<b>BSE - Buttress Concrete Test Cylinders</b>	<b>Closed</b>	<b>06/03/2011</b>	<b>06/13/2011</b>	<b>06/08/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan   Daphne Faulkner		<b>Answered By:</b> Adamson Associates, Inc   George Metzger			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Specification Section 03 30 01 and attached summary of test results

BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches (please refer to the attachment for a summary of the test results). The 28-day test results for the 4x8 test cylinders were on average 57% of the core 4" diameter core test results. The 28-day test results for the 6x12 test cylinders were on average 88% of the 4" diameter core test results. The test samples were extracted from the same concrete batches, at the same time and cured in the same manner. BBII believes the difference in compressive strength between the test results may be attributed to the sample size & the resultant heat of hydration which drives the concrete cure rate. BBII also believes that the concrete cores may be more indicative of the actual in-situ concrete strength than the concrete test cylinders.

The Specification Section 03 30 01 - 1.5 F Trial Batches references "concrete cylinders", however it does not specify 4x8 or 6x12 test cylinders.

During the course of the meeting, it was generally agreed upon that 6x12 test cylinders appeared to be a more representative and consistent measure of the Primary Buttress Concrete strength relative to the core samples. BBII has confirmed through CTS that there should be no additional cost in sampling and testing a 4x8 cylinder relative to a 6x12 cylinder.

Therefore, BBII proposes that the 6x12 test cylinders should be used as the basis of acceptance testing both for the Trial Batches and also for future Field Quality Control and Testing for the Primary Buttress Concrete; 4x8 test cylinders should only be used for informational purposes only. Please confirm.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

ARUP Response:

Arup believes that there is insufficient information available at this time for the Contractor to draw the conclusions stated in the RFI.

Regarding the question posed in the RFI: Arup's understanding is that there should be little difference between 4x8 and 6x12 cylinders cast, cured and tested under identical conditions and, therefore, it is not essential to limit the TJPA's Testing Agency to one particular cylinder size.

**T-0163** **BSE - Hazardous Material Removed From Site Zone 2**

**Closed****06/03/2011 06/13/2011 06/06/2011 Potentially** ☐**From:** Webcor Construction LP

Nhi Tran

**To:** Turner Construction Compan Daphne Faulkner**Answered By:** Webcor Construction LP Nhi Tran

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 124 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p><b>REQUEST:</b></p> <p>Reference Specification Section 00 03 35, 1.2</p> <p>During Investigation of Zone 2, BBII discovered potential lead based material existing on site. The specific area of concern is the pedestals on First Street.</p> <p>Please confirm that all contaminated material (specifically the referenced pedestals) as specified in the specification section 00 03 35 Article 1.2 has been removed and abated by the Demolition Contractor.</p> <p>BBII is scheduled to remove these pedestals next week and cannot proceed with this critical work until it is confirmed that the site is cleared of lead based materials as required by the Specifications.</p> <p>The TJPA's attention is directed to the following Section of the Specifications:</p> <p>SECTION 00 03 35 - EXISTING CONDITIONS: HAZARDOUS MATERIALS</p> <p>"1.2 HAZARDOUS MATERIALS REPORTS A. The TJPA's environmental consultants have surveyed the facility for the presence of various hazardous materials. Materials investigated may include asbestos, lead, PCB ballasts, mercury containing lamps, contaminated soils, underground storage tanks, and other hazardous materials. The demolition contractor for the Demolition project (Evans Brothers Inc.) is responsible for removing and abating products containing asbestos, lead, or PCB ballast, and mercury-containing lamps."</p>	<p><b>SUGGESTION:</b></p>			<p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>06/06/2011 - Kevin Chiu Hazardous material has been removed from site per the extent of demolition contract drawings for zone 2 - this does not include the "pedestals" in Zone 2. The building and above ground structures were demolished to the extent shown on Demolition contract drawings. Hazardous materials abatement scope was completed within the scope of demolition only. Refer to Demolition Drawings D-1050, D-1051 and D-1073 for representation of limits of structures (specifically the referenced pedestals) demolished and hazardous material abatement.</p> <p>BSE Contractor to handle remaining demolition and abatement in accord with BSE Spec 00-08-14 Health and Safety Criteria Para 1.2 and 1.3 Lead hazards, BSE Spec. 02-41-01 "Demolition" and BSE Spec. 01-13-50 "Hazardous Materials Procedures."</p>		
<b>T-0164</b>	<b>BSE - Timber Piles Adjacent 177/181 Fremont Building South Zone 4</b>	<b>Closed</b>	<b>06/06/2011</b>	<b>06/16/2011</b>	<b>06/06/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan    Daphne Faulkner		<b>Answered By:</b> Webcor Construction LP    Nhi Tran			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
	<p><b>REQUEST:</b></p> <p>Reference RFI@T-0146.1 [BBI 0104] and attached photo</p> <p>Per [RFI #T-0146.1] RFI 104 Response, BBII inserted a</p>	<p><b>SUGGESTION:</b></p>			<p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>06/06/2011 - Roger Rothenburger</p> <p>The practice of removing the sheet pile was approved</p>		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 125 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>metal sheet behind the timber piles required to be removed, in the location between 199 and 181 Fremont. The sheet is to hold back the soil in the alley. Due to the close proximity of the timber piles, the sheet location is too close to the timber piles required to be removed from the CDSM Wall Location. The sheet is too close for the pile extractor to attach to the tops of the pile. See Attached Photo.</p> <p>Please Advise in detail.</p>						<p>by TJPA in the "181 Fremont test" done on Friday June 3rd. The Contractor can remove the metal sheet and expose the piles as necessary with as steeply a sloped excavation that allows the vibrator pile puller to be attached. The work should be done in as reasonably a short duration as possible. All equipment, manpower, materials should be at hand when the metal sheet is pulled and the piles are exposed for extraction.</p>
<b>T-0165</b>	<b>BSE - High pH Water Found In Zone 3 Pre-Trenching</b>	<b>Closed</b>	<b>06/07/2011</b>	<b>06/17/2011</b>	<b>06/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Turner Construction Comp; Daphne Faulkner				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 00 08 13, 1.9.C  BBI found high pH water while digging an exploratory hole in the Fremont St. side of Zone 3. This was confirmed by Peter Cusack from Treadwell & Rollo. Specification Section 00.08.13.1.9.C states that "Should the existing wastewater be contaminated, or should it be uncontaminated but subsequently become contaminated as a result of conditions other than the Contractor's operations, a Change Order will be issued..".  Please consider this as a Notice of Existing Contaminated Wastewater as defined by SS00.08.13.1.9.C. Please advise on how to proceed.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  Pending approval by the TJPA, a CR will be issued for the chemicals to treat the water per specification section 00 08 13 (1.9.B).		
<b>T-0166</b>	<b>BSE - Unknown Concrete Structure at 199 Fremont Zone 4 (Gridline 33-30)</b>	<b>Closed</b>	<b>06/07/2011</b>	<b>06/17/2011</b>	<b>06/22/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan      Daphne Faulkner			<b>Answered By:</b> Transbay PMPC      Roger Rothenburger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0144 (BBI RFI 0103), Specification Section 31 56 13, and attached Turner Field Condition Report 056 and photos			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>  Instructions for this were orally transmitted in the field and complied with by the BSE Contractor. The fence between the buildings 199 Fremont and 181 Fremont		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 126 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>BBII demolished the Unforeseen Concrete Structure along 199 Fremont St., and associated curb per RFI #103 [RFI#T-0144] response. During the process, due to the previous contractor's construction means, the curb inadvertently damaged the metal flashing, and possibly the waterproofing beside it.</p> <p>Along with the curb, the fence panel was built on top of the Unforeseen Concrete Structure, so when the structure was removed, the fence came down too.</p> <p>See attached pictures and Turner Field Condition Report (5/24/11)</p> <p>BBII requests immediate direction from the TJPA on this issue.</p>						
<hr/>							
T-0166.1	BSE - Unknown Concrete Structure at 199 Fremont Zone 4 (Gridline 33-30)	Closed	07/20/2011	07/30/2011	07/26/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Gary Kruttsch	Answered By:Transbay PMPC		Roger Rothenburger		
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference RFI #T-0144, RFI #T-0166 and Specification 31 56 13				No action is required by the contractor at this time.			
Per the response to RFI#T-0166 (BBI RFI 103.1), please provide an acceptable repair procedure for the 199 Fremont building. Also, please confirm that the repair work will be included in CR T-010.				The specific damage to 199 Fremont Street has not been listed in the RFI. TJPA is aware of minor damage to the metal flashing along the curb at the bottom of 199 Fremont St and the removal of the unreinforced "curb" that ran along the base of the cinder block wall. As stated previously repairs to 199 Fremont will be made at a much later date. The damage that occurred to the flashing and unreinforced concrete curb resulted from using breaker on the unreinforced foundation wall and pulling the sections out and repairs will not be done until the project is further along in progress where no more likely damage will occur.			
<hr/>							
T-0167	Survey Grid Control Documents	Closed	06/08/2011	06/10/2011		Potentially	<input type="checkbox"/>



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 127 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

<b>From:</b> Webcor Construction LP	Tim Maxwell	<b>To:</b> Transbay Joint Powers Author Edmond Sum	<b>Answered By:</b>	
<b>Co-Author:</b>				
<b>REQUEST:</b> Reference RFI T-0112.1 and drawing GT-0100  As requested by Ed Sum in today's (6/8/11) OAC meeting we submit the following question:  Please confirm that gridlines as established from the GT-0100 and as confirmed on Chaudhary & Associates Survey Grid Control Documents (Ref: RFI T-0112.1) can be used for all future construction elements (i.e., CDSM wall, etc). Please confirm by 6/10/11.		<b>SUGGESTION:</b>		
		<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>	

T-0167.1		Survey Grid Control Documents		Closed		07/01/2011	07/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Daniel Foudy		To: Turner Construction Compan		Daphne Faulkner		Answered By:	
Co-Author:									
REQUEST:				SUGGESTION:			ANSWER:		Accept Suggestion: <input type="checkbox"/>
Please provide City Survey of property lines with a translation to grid for our use.									

T-0168	BSE - Soil Classification Data		Closed	06/08/2011	06/18/2011	06/22/2011	Potentially <input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By: Transbay PMPC Roger Rothenburger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Specification Section 01 13 50				Contract Specification Section 01 13 50 Part 1.1.C (General Summary - Soils Management) requires that the Contractor use "Site Mitigation Plan, Transbay Transit Center" by Treadwell and Rollo March 24, 2010 for "...the management of existing soils in a manner consistent with the reuirements of the Contract." This report is attached as Appendix A in Specification Section 01 13 50.			
The Class 1 and Class 2 Disposal site does not want to use the old "PSI for Caltrans" Reports in the Soil Profile, due to the lack of necessary tests, missing pages in the report, and age.				Section 01 13 50 Par 1.1.C for soils management also references a 2nd Treadwell and Rollo Report, "Environmental Site Characterization, Transbay Terminal, San Francisco California April 2009" that is referenced in Specification Section 00 03 35 (Existing			
The Disposal site recommends the use of the Treadwell & Rollo reports from 2008 and 2009, and to dismiss the "PSI for Caltrans" reports.							
Please Advise.							





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 128 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Conditions Hazardous Materials Reports). This report is not a part of the Contract as stated in Section 00 03 35 is not part of the Contract except for the technical data incorporated by reference into the Contract.

A partial review of this document shows that there is nothing to require that the Contractor use "PSI for Caltrans" reports. The April 2009 Treadwell and Rollo report is basically a detailed data report which predates the March 2010 report "Site Mitigation plan, Transbay Transit Center".

The March 2010 Treadwell and Rollo document modified by any additional data in the 600page April 2009 Treadwell and Roll report should be used to manage the soils being excavated and coordination with the Class 1 and Class 2 Disposal Sites.

<b>T-0169</b>	<b>BSE - Disposal of Drilling Spoils</b>	<b>Closed</b>	<b>06/09/2011</b>	<b>06/19/2011</b>	<b>07/07/2011</b>	<b>Potentially</b> <input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Roger Rothenburger	
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal					

**REQUEST:**

Reference Specification Section 01 13 50

BBII is concerned of the close proximity of the differently classified layers within the Buttress Area of Zone 4. The concern is during Drilling & Shaft Excavation, cross contamination of the material could potentially lead to Class 1 Material inadvertently going to a Class 2 Disposal site, or even a clean waist site. The class 1, the class 2, and the clean material layers are described below:

Surface to GL-11 ft --- Land fill (clean material except for Equipment Pad Concrete)  
GL-11 ft to GL-13 ft --- Class II (based on Spec 01 13 50/APA)  
GL-13 ft to GL-16 ft --- Class I (based on Spec 01 13 50/APA )  
GL-16 ft to bottom ---Clean Material

BBII is concerned that due to the process of excavating

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Contract Specification 01 13 50 Part 1.1.C (General Summary - Sil Management) requires the Contractor to use the Treadwell and Rollo March 24, 2010 "Site Mitigation Plan, Transbay Tranit Center" and April 2009 "Environmental Site Characterization, Transbay Terminal" reports for managing existing soil disposal.

Only the March 24, 2010 Treadwell and Rollo report is a Contract Document in Appendix A of Section 01 13 50 and only data from April 2009 Treadwell and Rollo Report is included as Contract information even though both reports contain much of the same language. The April 2009 report is 600 pages and the March 2010 report is considerably shorter and condensed.

Section 01 13 50 requires the Contractor to submit a material handling plan for each type of excavation operation on the site and includes the buttress piles as





<b><i>Number</i></b>	<b><i>Subject</i></b>	<b><i>Status</i></b>	<b><i>Date Created</i></b>	<b><i>Date Required</i></b>	<b><i>Date Answered</i></b>	<b><i>Cost Impact</i></b>	<b><i>Proceed</i></b>
	<p>the soil out of the Buttress Shaft with large amount of water and the use of a clam shell digging attachment, that the soil layers have a high opportunity of mixing within the casing. Presumably the mixed the soil layers will make it difficult to distinguish between the class 1, the class 2, and the clean materials.</p> <p>BBII requests the engineer to provide a revised stratum classification that is better for the actual shaft excavation methods being used, that will prevent cross contamination.</p> <p>Please Advise.</p>						<p>well as CDSM overflow materials, pre-trench excavation material, bulk excavation material, etc.</p> <p>Both the April 2009 and March 2010 Treadwell and Rollo report give the expected ground condition classifications as:</p> <p>5~16 feet (below grade) fill material composed of loose to medium dense silty sand with varying amounts of brick, wood, tar, and glass fragments. 15~18 feet (below grade) fill material composed of medium dense to very dense sand with variable amutns of silt 18~55 feet (below grade) Bay Mud Under Section 01 13 50 Part 1.5.G the Contractor is resonsible for develeoping a plan that reduces the amount of hazardous waste generated. This plan also includes (Part 1.4.C Submittals - Excavation Handling) methods, means, equipment, sequences that segreegates the material to reduce cost of hazardous material disposal.</p> <p>Since the buttress pile area was excavated to remove piles and backfilled with a combination of existing clean material (fine sand with silt) and crusced concrete debris and poured concrete (top 2 feet buttress pile working pad) the Contractor needs to devise and submit the methods to handle the segregation of those materials for disposal in the appropriate Class land fills.</p> <p>The Contractor will need to test materials for suitability and work out a plan with the Disposal Landfill Operators. TJPA will assist with the TJPA environmental consultant, Treadwell and Rollo but it is the Contractor's responsibility to mke the plan and handle the material. Classification of excavated materials by TJPA will not always govern how the disposal operators deal with the material. The actual conditon of the material must be determined prior to disposal.</p> <p>The materials listed by elvation in the RFI are presumably the levles of CLSM, crushed concrete debris and the material below. The buttress area was</p>





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 131 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Zones 1-3 for pre-trenching. At the time of these discussions EBI indicated they were short approximately 7000 cy of balancing the site and that they would not be able to get that remaining 7000 cy until the existing ramps were demolished. As a result of the short term shortage and in exchange for access to zone 1-3 BBII agreed to:</p> <ul style="list-style-type: none"><li>- Allow EBI to leave Zone 3 low of the Existing elevations</li><li>- Allow EBI to set up Crusher in Zone 2 for ramp demolition</li><li>- Allow EBI to leave the 7000 cy shortage in a stockpile in Zone 2, for our later use.</li></ul> <p>BBII appreciated the partnering agreement however the current size of the stockpile is far greater than BBII ever expected. BBII surveyed the stockpile and the Zone 3 depression on 6/7/11 after they completed their export to zone 4 and BBII estimates the size of the concrete stockpile to be in excess of 11,000 cy (this does not include the asphalt stockpile that was created after the survey).</p> <p>Based on BBII's calculations (see attached topo) Zone 3 was left approximately 2000 cy short of existing grade and 5000 cy were taken from the stockpile to Zone 4. As a result BBII requests the current stockpile be removed in its entirety from the site, as it is in excess of the contractual amount to be removed by the BSE contract.</p> <p>However, If acceptable to TJPA, BBII would be interested in taking 2000 cy of the crushed concrete if it could be delivered and stockpiled in an mutually agreeable staging area. BBII suggests Lot S. This material would then be used as need for excavation stabilization throughout the BSE contract.</p>						

T-0171	BSE - Concrete Section Protruding Into CDSM Shoring Wall Area Zone 4			Closed	06/13/2011	06/23/2011	06/17/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By:Transbay PMPC		Roger Rothenburger	
Co-Author:	Balfour Beatty Infrastructure, Inc.		Ural Yal						
REQUEST:			SUGGESTION:			ANSWER:	Accept Suggestion: <input type="checkbox"/>		
Reference attached photo						The void should be filled with 2000 psi concrete after			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 132 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	While excavating a pile next to 181 Fremont Street, a section of concrete that was protruding into the CDSM shoring wall area fell from the foundation wall of 181 Fremont. Please advise on how to proceed.					surfaces of the opening are cleaned. In addition grouted anchorage of #3 rebar hooks at 12" c.c around the opening in the existing concrete basement wall and mesh is required before placing repair concrete through a "bird's mouth" form for a complete filling. A sketch is attached showing the desired configuration of the repair patch.	
						Cost to be tracked under CRT#10.	
<b>T-0172</b>	<b>LEED Submittal Requirements</b>	<b>Closed</b>	<b>06/13/2011</b>	<b>06/23/2011</b>	<b>06/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Joanne Filipas	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc	George Metzger		
<b>Co-Author:</b>							
<b>REQUEST:</b>	Ref Spec Section 01 81 13 Section 1.5:  According to spec section 018113.1.5, LEED submittals shall be submitted in addition to other submittal requirements specified elsewhere. If a submitted item is identical to an item submitted to comply with other requirements, a duplicate copy is to be submitted. In effort to minimize duplicate submittals, please confirm it is acceptable to issue one submittal package to cover both the technical spec. and LEED spec section requirements.	<b>SUGGESTION:</b>		<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>	We agree with your proposal to combine the data.	
<b>T-0173</b>	<b>BSE - Enhanced Trial Batch Testing</b>	<b>Closed</b>	<b>06/13/2011</b>	<b>06/23/2011</b>	<b>06/15/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Adamson Associates, Inc	George Metzger		
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal						
<b>REQUEST:</b>	Reference Specification Section 03 30 01, 2.2.E and attached mix designs  BBII, Becho, Central Concrete, W/O, ARUP and Adamson Associates met on Tuesday 5/24/2011 to discuss the results of Buttress Primary Concrete Mix Trial Batches. Based upon the preliminary results of the 2nd Trial Batch,	<b>SUGGESTION:</b>		<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>	ARUP Response:  This is acceptable.	



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 133 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>BBII proposes to submit the following three mixes for approval for use on the Buttress Primary Shaft Concrete:</p> <ol style="list-style-type: none"><li>1. Mix 1: 85AEC3B6</li><li>2. Mix 5: 86AEC3A6</li><li>3. Mix 7: 87AEC3A6</li></ol> <p>BBII believes that having additional mixes available for use as the Buttress Primary Concrete would be of great benefit to the Project. BBII proposes "enhanced testing" of these three mixes as well as three additional hybrids of each mix for a total of nine mixes (please see attached for mix designs). The intent of the enhanced testing is to further refine the information we currently have on all three of the above three mixes, as well develop additional mixes for future use as Primary Shaft Concrete.</p> <p>One of the concerns of 1st and 2nd Trial Batches was potentially accelerated curing due to the Styrofoam insulated boxes in which the trial batch "cubes" were cast. BBII proposes a 3rd trial batch using all of the same methodology of the approved trial batch method placing, the only exception being that the concrete will be cast into +/- 5'x5'x4' deep excavations in lieu of the Styrofoam insulated forms. Each mix would be placed in an individual excavation, lined with plastic to retain moisture. All other aspects of the proposed trial batch methodology would be as previously submitted &amp; approved.</p> <p>The results of the "enhanced testing" would be evaluated and possibly submitted for approval as additional Buttress Primary Shaft Concrete Mixes.</p> <p>Please confirm that this is acceptable.</p>						

T-0174	301 Mission Wall - New Curb Detail		Closed	06/14/2011	06/24/2011	06/20/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	David Hungerford	To:	Turner Construction Compan	Daphne Faulkner	Answered By:	URS Corporation	David Fyfe
Co-Author:								
REQUEST:	SUGGESTION:		ANSWER:					
Reference: Attached sheet C-5000				Accept Suggestion: <input type="checkbox"/>				
The required curb details are not clearly defined. Is new				New concrete curb shall be placed on top of topping slab and shall extend 9 inches above top of pavers. See attached detail for reinforcement. Concrete mix				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 134 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>																					
<hr/>																												
	curb set atop finish pavers, onto topping slab, or set all the way down to structural slab. Additionally, provide all applicable rebar details to match condition.					used for new concrete curbs shall be according to RFI T-0176.																						
<hr/>																												
T-0175	301 Mission Wall - Concrete Mix for Curb Around Existing Manhole Covers	Closed	06/15/2011	06/25/2011	06/20/2011	Potentially	<input type="checkbox"/>																					
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Daphne Faulkner			Answered By:URS Corporation      David Fyfe																									
Co-Author:																												
REQUEST:		SUGGESTION:	ANSWER:																									
Reference drawing C-2000			Accept Suggestion: <input type="checkbox"/>																									
The existing curb around the manholes at the east and west ends of the 301 Mission Wall is unknown. Design documents do not provide information as to the specs of this concrete mixture. The existing concrete appears to have a color added to the mix design. Please provide a mix design and color specification (if necessary) to use at these locations.			New concrete finish shall match existing concrete finish. Contractor shall provide concrete mix designs for curb(s) and walkway(s) based on specification as follows;																									
			Concrete Mix, Design and Testing: Design the mix to produce standard weight concrete consisting of Portland cement, aggregate, air-entraining admixture and water to produce the following properties:																									
			Compressive Strength: except as noted below, four thousand five hundred (4500) psi, minimum at twenty-eight (28) days, with a water cement ratio not to exceed 0.45 by weight.																									
			Slump Range: Two (2) inches to Four (4) inches.																									
			Air Content: Five (5) to seven (7) percent.																									
			Mixed shall be design to provide concrete with the following properties:																									
			<table><tr><td>Location</td><td colspan="2">Maximum Size of Aggregate</td></tr><tr><td>Min. 28 Day Strength (psi)</td><td colspan="2">Min Sacks of</td></tr><tr><td>Cement/cu. Yd.</td><td colspan="2"></td></tr><tr><td>Concrete Curb</td><td>¾"</td><td></td></tr><tr><td>3000</td><td></td><td>6</td></tr><tr><td>Concrete Walkways</td><td>¾"</td><td></td></tr><tr><td>2500</td><td></td><td>5-1/2</td></tr></table>					Location	Maximum Size of Aggregate		Min. 28 Day Strength (psi)	Min Sacks of		Cement/cu. Yd.			Concrete Curb	¾"		3000		6	Concrete Walkways	¾"		2500		5-1/2
Location	Maximum Size of Aggregate																											
Min. 28 Day Strength (psi)	Min Sacks of																											
Cement/cu. Yd.																												
Concrete Curb	¾"																											
3000		6																										
Concrete Walkways	¾"																											
2500		5-1/2																										
			Integral Color: Sidewalk shall be constructed of a dark grey, Hi-Con at 5 lbs. per cubic yard carbon black																									



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 135 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 136 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>broke and are now too deep to extract under using the current extraction method. During the attempted extraction of pile 151, the pile continued to break. The top of this pile is approximately 9' below the base of the foundation wall. Considering the length of the adjacent removed piles, there is approximately 6' left to be removed. Pile 105 is approximately 6' below the base of the foundation wall leaving approximately 12'-14' to be removed. Further excavation to expose these piles is not reasonable. BBII proposes to drill the remainder of each pile out. See below the proposed procedure as per committee meeting and consultation with Viking Drillers Inc. on 6-15-11. It was agreed that this work will be charged to CR T-010. Also attached are photos and a drawing indicating the location of both broken piles (105 and 151).</p> <p>Please provide direction.</p>						
T-0178	BSE - Connector Wall Layout	Closed	06/16/2011	06/26/2011	06/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI#T-0151 and Sheets GT-2103 and GT-2201  Per the Engineer's response to RFI#T-0151, it is acceptable to expand the overall Buttress 4'-4" to the east. Please advise if the CDSM connector columns can still be installed per contract drawings GT-2103 and GT-2201.		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/> ARUP Response:  This is not acceptable. If the Contractor wishes to increase the spacing of the drilled shafts, then the connector columns will need to shift and / or be supplemented with additional columns to provide CDSM material for the full width of the buttress.			
T-0179	301 Mission Wall - Detail at Steel Baseplates on South Side	Closed	06/21/2011	07/01/2011	07/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      David Hungerford		To: Turner Construction Compan   Daphne Faulkner		Answered By:URS Corporation                      David Fyfe			
Co-Author:							
REQUEST: "Reference drawing D/A-6000 and attached sketch  Detail D/A-6000 does not provide a plywood panel		SUGGESTION:		ANSWER:                      Accept Suggestion: <input type="checkbox"/> It is noted that the contractor has already installed flashing to protect steel base plate prior to this RFI response. Although installation of flashing is not			





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 137 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

termination detail at the steel baseplate locations along the south side of the 301 Mission wall. At the locations of the steel baseplates, use of sealant and backer rod would leave the steel baseplate exposed (see attached sketch). Please advise."

specified in contract documents this means of protecting the steel base plate is acceptable.

<b>T-0180</b>	<b>BSE - CDSM Wall Tolerance</b>	<b>Closed</b>	<b>06/22/2011</b>	<b>07/02/2011</b>	<b>06/22/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC		Roger Rothenburger	
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal						

#### REQUEST:

Reference Specification Section 31 56 13

As requested by the TJPA, DND submits this request to modify the horizontal tolerance for the CDSM shoring wall. The new goal is to set the wall 2" outside of the original planned centerline of shoring wall. This solution has been proposed by the TJPA in order to not encroach into the structure at the bottom of the train box.

DND respectfully requests the maximum soldier pile & CDSM wall tolerances be revised to 0 inches into the trainbox & up to 5 inches outside the trainbox.

There will be no additional excavation and/or bracing costs associated with this increase in tolerance from BBI. However; there may be future additional cost impacts to the Structural Concrete & Waterproofing that are to be handled in future trade packages.

Please confirm, if this is acceptable.

#### SUGGESTION:

**ANSWER:** **Accept Suggestion:** ☐

TJPA did not request this RFI. TJPA stated that if the Contractor was concerned about meeting the tolerances for top horizontal position of the CDSM shoring wall that the Contractor should submit an RFI and TJPA would support such a request in order to avoid any encroachment of the CDSM shoring wall with the Transit Box concrete structure which would be difficult to remediate.

TJPA has no objection in the horizontal setting of the CDSM shoring wall if the horizontal tolerance is 0" towards the TTC box structure and 4" away from the box structure. The verticality tolerances of 1/150 (CDSM wall) and 1/200 (steel beam) remain in place.

The 4" top horizontal tolerance away from the wall will allow at 1/150 in 55 feet a near 0" clearance at the invert level with the CDSM wall and will allow at 1/200 the steel beam to be clear of the structural outline by 0.70".

It is understood that there is no cost or time associated with this change for the BSE Contractor work and that TJPA accepts the additional overbreak concrete generated by this small adjustment in the top horizontal placement in exchange for a better chance of avoiding structural encroachment issues at the final invert level.

It is also understood that the use of the increased top



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 138 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
horizontal tolerance is contingent on actual field physical property line clearances for the CDSM shoring wall.							
T-0180.1	BSE - CDSM Wall Tolerance	Closed	06/24/2011	07/04/2011	07/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran		To: Turner Construction Compan		Daphne Faulkner	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal		Answered By: Transbay PMPC		Roger Rothenburger	
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Reference Response to RFI#T-0180							
Please delete the first sentence "TJPA did not request this RFI" of the response for RFI T-0180, because it is the wrong statement.							
Emilio Cruz, PMPC, requested to submit this RFI at the Schedule Review Meeting on 6/14/2011 at W-O JV Office Conference Room, 183 Fremont St.							
						It depends on how "request" is defined. TJPA did "request" the RFI for expanded tolerances but only if the CDSM shoring wall subcontractor felt that they needed more tolerances and wished to have TJPA confirm that it would accept a larger set back (4") than allowed in the Specifications (2"). This is the same undertanding held my Emilio Cruz.	
						TJPA has allowed a 4" set back while maintaining the verticality specifications for the steel soldier piles (1/200) and the CDSM (1/150). The CDSM shoring wall subcontractor has initially selected a 2" setback for placing the steel soldier beams. At 1/200 for a depth of 55ft there could be as much as 1.3" of encroachment (1/200x55x12 - 2" = 1.33").	
						At the very least it would seem that a 3" setback would minimize further the posibility for encroachment since the 1/200 is still a difficult specification to achieve as TJPA understands it from the CDSM subcontractor.	
						Since encroachment can be very problematic with the concrete structural wall TJPA supports the larger setback to avoid difficult encroachment problems while maintaining the specifications on verticality. The issue of who requested what and when is immaterial. TJPA has accepted the potential for additional concrete from allowing a larger setback and the BSE Contractor has accepted any impact to the bracing system from a larger impact.	



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 139 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
T-0181	BSE - CDSM Pile Tolerance Measurement Location	Closed	06/22/2011	07/02/2011	07/01/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 31 56 13  BBII's subcontractor DND would like to confirm the exact location of the soldier pile, where the pile tolerance is to be measured. Please find below DND's question:  "It is our understanding that the tolerance of the soldier pile beams is to be measured at the plan top of pile elevation. Is this correct?"  Please confirm that DND's interpretation of the pile tolerance measurement is correct.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  We confirm that the tolerance refers specifically to the location of the CDSM wall and soldier pile centerlines.  Section 31 56 13 3.3 A. states: "The location of the CDSM wall centerline relative to that shown on the Drawings is 0" toward the excavation and 2" away from the excavation." This refers to the location at the ground surface ("original grade") at the start of drilling.  Section 31 56 13 3.13 B. 8. states: "Acceptable construction tolerance for the location of the soldier pile centerline relative to that shown on the Drawings is 0" toward the excavation and 3" maximum away from the excavation." This refers to the location at ground surface ("original grade") at the start of pile installation.  Please also refer to 31 56 13 3.4 A and 31 56 13 3.13 B 2 which stipulates respectively the vertical alignment of the CDSM wall and soldier piles.				

T-0181.1	BSE - CDSM Tolerances	Closed	07/21/2011	07/31/2011	07/26/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFIs #T-180, #T-0180.1, #T-0181 and Specification Section 31 56 13  Previous RFIs T-180, T-180.1, and T-181 have all addressed CDSM shoring wall tolerances. Below is BBII's interpretation of the responses:  1. Horizontal Tolerance: a) CDSM Columns: 0" in towards the train box, 2" maximum away from the train box - measured relative to the "plan" CDSM shoring wall centerline located at the ground surface (original grade) at the start of drilling (W/O comment - Reference Specification Section 31 56 13, 3.3.A)			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Using the numbering in the RFI:  1 a. 0" in towards the train box, 4" maximum away from the train box is acceptable everywhere along the alignment except at wall segments A/26-30 and A/30-33.5. 0" in towards the train box, 2" maximum away from the train box is acceptable at wall segments A/26-30 and A/30-33.5.  1 b. 0" in towards the train box, 4" maximum away from the trainbox is acceptable everywhere along the alignment.				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 140 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>b) Steel Soldier Pile: 0" in towards the train box, 4" maximum away from the trainbox - measured relative to the "plan" CDSM shoring wall centerline located at the ground surface (original grade) at the start of drilling (W/O comment - Reference Specification Section 31 56 13, 3.13.B.8)</p> <p>2. Vertical Tolerance: a) CDSM Columns: Inclination deviation no more than 1:150 (horizontal to vertical) (W/O comment - Same as stated in Specification Section 31 56 13, 3.4.A)</p> <p>b) Steel Soldier Pile: Inclination no more than 1:200 (horizontal to vertical) (W/O comment - Same as stated in Specification Section 31 56 13, 3.13.B.9)</p> <p>Please confirm this is acceptable</p>			2 a. Confirmed 2 b. Confirmed			
T-0182	BSE - Inclinometer Locations Within The CDSM Wall	Closed	06/23/2011	07/03/2011	06/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Sheets GT-1301, GT-1302, Specification Section 31 56 13, and Transmittal No. 140-01802 (attached)  Please refer to the Instrumentation Plan within the contract drawings GT-1301 & GT-1302, which depicts the rough locations of the 15 inclinometers (IW-1 through IW-15) that are to be installed through the CDSM shoring wall. Please notify BBII of the exact locations of those inclinometers by utilizing the soldier pile numbers 1 through 681, sent in Transmittal No. 140-01802 (attached).		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:  Provide pipes at the piles (beams) in accordance with detail 13/GT-5101 in the following fourteen beam numbers: 46, 97, 138, 226, 306, 325, 340, 443, 458, 478, 497, 556, 641, 730. Refer to the plan submitted with the RFI for the beam numbers.  As noted in 13/GT-5101, wood block shall be used at the bottom of the pipe. The top of the pipe shall be covered with duct tape to prevent filling with soil cement.			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 141 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0182.1	BSE - Connector Wall Inclinometer Locations	Closed	06/30/2011	07/10/2011	07/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI#T-0182, Transmittal No. 140-01802, and Specification Section 31 56 13  BBII is in receipt of the Engineer's response to RFI T-0182, which lists the fourteen pile numbers where the inclinometers will be installed. Please note that pile # 443 was already installed on 06/18/2011, as part of the CDSM test panel.  Can the inclinometer casing be installed at pile # 446, instead of pile # 443?		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:  The inclinometer casing shall be installed in pile number 440 rather than number 443.			
<hr/>							
T-0183	BSE - Connector Wall Shift	Closed	06/23/2011	07/03/2011	06/27/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI#T-0178, Sheets GT-2201, GT-5101, and attached sketch  Per the Engineer's response to RFI T-0178, it is acceptable to shift the CDSM Connector Columns to the east and to add additional columns to provide CDSM material for the full width of the Buttress. Please confirm that it is acceptable to shift the lower three rows of the CDSM Connector Columns approximately 3'-6" to the east and add two more columns to the top row. Additionally, please confirm that the CDSM Shoring Wall between Gridlines 26 and 30 can still be installed per GT-2201 and Table 16/GT-5101.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:  Provided there is no additional cost to the TJPA, it is acceptable to shift the connector columns and add columns as proposed and shown on the sketch.  The CDSM Shoring Wall between Gridlines 26 and 30 shall be installed per GT-2201 and Table 16/GT-5101.			
<hr/>							
T-0183.1	BSE - Connector Wall Shift	Closed	06/30/2011	07/10/2011	07/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI#T-0151, RFI#T-0178, RFI#T-0183, Specification Sections 31 63 29 and 31 56 13, and attached drawing		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:  The locations of the CDSM connector columns shown			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 142 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Please refer to the Engineer's response to RFI # T-0151, which accepted the expansion of the Buttruss 4'-4" to the east. Please also refer to the Engineer's response to RFI No. T-#0178, where the designer required the connector columns be shifted and/or supplemented with additional columns to provide CDSM material for the full width of the buttruss. BBII suggests to revise the connector column layout per the attached drawing and install two additional connector columns at Grid "A" and "30" intersection.</p> <p>Please confirm, if the proposed revision of the CDSM connector columns according to the attached drawing fulfills the design requirement.</p> <p>Also, please issue revised construction drawings that would reflect the changes made to the Buttruss and the CDSM connector walls.</p>						<p>on the sketch accompanying the RFI are acceptable. The locations of the buttruss shafts shown on the sketch accompanying the RFI have been revised. Please see the marked-up sketch attached to this response.</p> <p>A revised GT-2201 will not be issued.</p>

T-0184	BSE - CIDH Pile Rebar Cage Hoop Size		Closed	06/27/2011	07/07/2011	06/28/2011	Potentially	<input type="checkbox"/>
From:		Webcor Construction LP	Nhi Tran	To:		Turner Construction Compan		Daphne Faulkner
Co-Author:		Balfour Beatty Infrastructure, Inc.		Ural Yal		Answered By:Adamson Associates, Inc George Metzger		
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference Sheet GT-5202, Specification Section 03 20 01, attached sketch, and approved Shop Drawings from Package TA2010-032001A05				ARUP Response:				
Drawing 12/GT-5202 shows 5" clearance between the hoop OD and the inside diameter of a 7' +/- 2" shaft. Per discussions with Becho, at least 3" of clearance is needed between the rebar spacers and the ID of the casing to facilitate proper installation of the rebar cages inside the casing.				Changing the clearance from face of reinforcing steel to the soil face from 5" to 7 1/4" is acceptable.				
BBII would like to propose 7 1/4" minimum clearance in lieu of the 5" clearance (shown on 12/GT-5202) between the hoops and the inside diameter of the hole. Changing the clearance from 5" to 7 1/4" would give Becho the 3" of clearance that they need between the spacers and casing ID.								



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 143 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Note that the approved rebar shop drawings show 5" clearance to the hoops as per 12/GT-5202. BBII will submit for your records only revised shop drawings showing the proposed 7 1/4" minimum clearance.

<b>T-0185</b>	<b>Division 01 specifications issued for the TG08.1 package</b>	<b>Closed</b>	<b>06/29/2011</b>	<b>07/09/2011</b>		<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Tim Maxwell		<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b>				

**Co-Author:**

**REQUEST:**

Confirm if any of all of the Specification Sections 00 01 10, 00 01 15, 00 01 16, 00 03 50, 01 10 20 / APH, 01 10 30, 01 10 30 / APA, and 01 80 50 issued for the TG08.1 bid documents are to be incorporated into the overall project specifications. If so, the specifications should be issued to W/O by Field Order or Change Order.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

<b>T-0186</b>	<b>BSE - Hazardous Materials Removed From 564 &amp; 568 Howard Street</b>	<b>Closed</b>	<b>06/30/2011</b>	<b>07/10/2011</b>	<b>07/07/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Nhi Tran		<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp Jack Adams				

**Co-Author:**

**REQUEST:**

Reference Final Pre-Demolition Hazardous Materials Assessment: Asbestos & Lead Survey (564 & 568 Howard St) - June 2011, prepared for ERM-West by Millennium Consulting Associates

Please confirm that all the hazardous materials identified in the Final Pre-Demolition Hazardous Materials Assessment: Asbestos & Lead Survey (564 & 568 Howard St) - June 2011, will be removed by the demolition contractor.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Haz Mat abatement will include the materials identified in this report, however removal will be to the extent of demolition drawings issued for Demolition.

<b>T-0187</b>	<b>BSE - Connector Wall Inclinator Locations - SEE RFI 182.1</b>	<b>Closed</b>	<b>06/30/2011</b>	<b>07/10/2011</b>	<b>08/23/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Nhi Tran		<b>To:</b> Turner Construction Compan Daphne Faulkner	<b>Answered By:</b> Webcor Construction LP Joanne Filipas				

**Co-Author:**



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 144 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI#T-0182, Transmittal No. 140-01802, and Specification Section 31 56 13

BBII is in receipt of the Engineer's response to RFI T-0182, which lists the fourteen pile numbers where the inclinometers will be installed. Please note that pile # 443 was already installed on 06/18/2011, as part of the CDSM test panel.

Can the inclinometer casing be installed at pile # 446, instead of pile # 443?

**SUGGESTION:**

**ANSWER:**

Accept Suggestion: ☐

SEE RFI T-0182.1.

T-0188

BSE - Timber Piles Minna Street

Closed

07/01/2011

07/11/2011

07/05/2011

Potentially ☐

**From:** Webcor Construction LP

Masashi Kojima

**To:** Turner Construction Company Daphne Faulkner

**Answered By:** Turner Construction Company Jack Adams

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference D-2211 and D-5101.  
During the pre-trenching operation on Minna Street between Gridlines 9-17, BBII discovered unknown timber piles. The timber piles are not shown on the BSE drawings. See attached BSE drawing D-2211, D-5101. The attached pictures indicate timber piles to be approx 2ft from the centerline of the CDSM wall. These piles meet the general conditions set out in article 3.05A.2. The piles encountered were not outlined in the bid documents. Please confirm the removal of the "unforeseen" timber piles, tracking and paid under a Force account contract change order similarly as done for Zone 4 pre-trench obstructions.

**SUGGESTION:**

**ANSWER:**

Accept Suggestion: ☐

Please refer to note on Drawing D-2212 which states,

"In areas where (N)CDSM wall conflicts with the existing pile caps and piles, remove (E) pile caps and/or piles prior to construction of (N) Transit Center Building CDSM perimeter shoring wall (see Note 3 and 6)."

Please refer to note on Drawing GT-5103 which states,

"Width and Depth as required to remove obstacles"

This includes all piles within the CDSM wall footprint.

"Unforeseen Conditions" are covered in Section 00 07 00 (General Conditions) Article 3.05.A.2 and 3.05.A.3 (Unforeseen or Changed Conditions).

Article 3.05.C states,

C. Differing Site Conditions shall not include:

1. All that is indicated in or reasonably interpreted from the Contract Documents or Reference





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>Documents;</div> <div>2. All that could be seen on Site</div> <div>3. Conditions that are materially similar or characteristically the same as those indicated or described in the Contract Documents or Reference Documents.</div> <div>Since Section 31 56 13 discusses both pre-trenching and the removal of timber piles and Bid Item #6 is for the removal of timber piles before the CDSM shoring wall is installed TJPA believes that this work was indicated and will provide payment for it under Bid Item #2, #4, #6, and #7.</div> <div>There will be no additional payment for the removal of timber piles for the CDSM wall.</div>							
T-0188.1	BSE - Timber Piles Minna Street	Closed	07/07/2011	07/17/2011	07/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Compan Daphne Faulkner		Answered By:Adamson Associates, Inc George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference RFI T-0188, Drawing D-2211 and D-5101.  Further to the TJP A response RFI # 188, this response did not address the mentioned timber pile removal method. Please see the attached cross section showing timber pile location in relationship to the existing utilities and structures. Due to the pile location, in relation to the shoring box BBII proposes direct extraction as done on A line in Zone 3. Please confirm this removal method is acceptable for the entire length of Minna Street.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> ARUP Response:  Arup recommends that the procedure for removing these piles follow the procedure described in Arup's response to RFI T-0146.4.			
T-0188.2	BSE - Timber Piles Minna Street	Closed	07/13/2011	07/23/2011	07/14/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Nhi Tran		To: Turner Construction Compan Daphne Faulkner		Answered By:Transbay PMPC Roger Rothenburger			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 146 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference response to RFI#T-0188.1 and RFI#T-0146.4

As discussed at the TG03 BSE Design Team meeting on 7/13/2011, sand shall be used for back fillings instead of the low strength material described in RFI#T-0146.4. Also, TJPAs representative shall observe the extraction and instruct the extraction method in the field, if necessary.

Please confirm.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

TJPA Representatives and Arup will observe the method in practice Thursday July 14, 2011 at 10am to observe the method using sand described above for final verification that this method will be acceptable and suggest any changes to the method at that time.

**T-0188.3** **BSE - Timber Piles Minna Street**

**Closed**

**From:** Webcor Construction LP Nhi Tran

**To:** Turner Construction Company Daphne Faulkner

**07/18/2011 07/28/2011 07/26/2011 Potentially** ☐

**Answered By:** Transbay PMPC Roger Rothenburger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI#T-0188.2 and attached photos

BBII has concerns for the integrity of the adjacent street and utilities, as a result of the pile extraction being performed on Minna Street in accordance with the response to RFI#T-0188.2. BBII has observed undermining and adjacent settlement during the extraction process (see attached photos).

Please advise an acceptable method of pile extraction that will allow this work to continue

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Contractor's concern for the integrity of the adjacent street and utilities is as a result of the shoring method used - not the result of the pile extraction being performed on Minna Street in accordance with the response to RFI#T-0188.2.

The observed undermining and adjacent settlement during the extraction process is to be restored to prevent damage to Utilities installed in Minna Street. The methods allowed in RFI T-0188.2 are to be followed by the Contractor.

Section 31-56-13 Part 3.2.C (CDSM Wall - Pre-trenching) also references Section 32-12-17 (Street Excavation & Restoration) for pre-trenching "...within and or adjacent to the public right of way." In addition Section 31-56-13 Part 3.2.D requires the Contractor to "Comply with all regulatory requirements regarding trench shoring." Both Section the Street Excavation and Restoration Specification 32-12-17 and the regulatory requirements for trench shoring require a shoring system designed by a Professional Engineer and submitted to TJPAs as well as the SFDPW. OSHA requires for all trenches deeper than 5 feet and not sloped according to OSHA standards be designed by a Professional Engineer.





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 148 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
access the piles, this is the Contractor's means and methods.							
T-0189	BSE - CDSM Spoils - Initial Off Haul	Closed	07/01/2011	07/11/2011	07/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Compan Daphne Faulkner		Answered By:Transbay PMPC Roger Rothenburger			
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Per our meeting on 6-23-11 with the TJPA, PMPC, T&R, TCCO and W/O, this RFI is to confirm the initial off haul of the CDSM spoils to be classified as Class 2 non-hazardous waste and will be paid under bid item #38 due to lack of soil testing data required by the landfill and risk of cross contamination. BBII is currently in talks with various local landfills and their Consultant with the advice of Treadwell Rollo for the acceptance of the spoil to be classified under "clean soil" (not Class 2). Please confirm.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> "Initial CDSM overflow "spoils" is considered only the overflow spoils from the CDSM test panels in Zone 4. For the single purpose of removing the CDSM test panel overflow now on the surface in Zone 4 and without prejudice for the classification of future CDSM overflow materials the "iniital" CDSM overflow materials (30 loads+/-) from Zone 4 may be hauled to a Class 2 land fill site. Payment will be in accordance with the Contract for disposal of Class 2 hazardous waste material for this one time until a future classification for CDSM overflow materials can be agreed with the land fill operator.			
T-0190	BSE - Connector Wall Daily As Built Requirement	Closed	07/01/2011	07/11/2011	07/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Compan Daphne Faulkner		Answered By:Turner Construction Comp Jack Adams			
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference Specification Section 31 56 13 1.4F.  To satisfy the Section 31 56 13 1.4F requirement, BBII will continue to submit the "DND Daily Construction Report" on a daily basis along with the attached as-built drawing within 24 hours of column installation.  Please confirm that this will satisfy the Section 1.4F requirement: "submit as-built drawings within 24 hours of column installation."		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> The attached daily report lacks required information (i.e. surveyed as-builts, column diameter, etc.) and therefore does not satisfy the documentation requirements of spec 31 56 13 (1.4, 3.5, 3.11, 3.13, etc.).			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 149 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0191	BSE - Connector Wall Final As Built Requirement	Closed	07/01/2011	07/11/2011	07/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Daphne Faulkner			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 31 56 13 3.3B.  To satisfy the Section 31 56 13 3.3B requirement, BBII proposes to submit as built drawings prepared by a California licensed surveyor at the approximate completion of each Zone.  Please confirm that this will satisfy the Section 3.3B requirement: "Following CDSM wall construction, the Contractor shall submit as-built drawings prepared by a California licensed surveyor indicating the location of the CDSM walls relative to the excavation alignment."			<b>SUGGESTION:</b>          <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Contractor to submit as-built drawings within 24 hours of column installation. The drawings shall be prepared by a licensed surveyor and shall indicate the CDSM wall relative to excavation alignment.				
T-0191.1	BSE - CDSM Connector Wall Final As Built Requirement	Closed	07/27/2011	08/06/2011	08/03/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0191 and Specification Section 31 56 13  BBII disagrees with TJPA's interpretation of the requirements of the Specifications in its Response to RFI T-0191.  Article 1.4F, Section 31 56 13 of the Specifications state: Record Documents 1. Submit as-built drawings within 24 hours of column installation. 2. Note and submit immediately to the TJPA's Representative unusual conditions encountered, including amounts of cement grout overpours during construction.  Article 3.11D2, Section 31 56 13 of the Specifications state: The Daily Quality Control Report shall include as a minimum the results of the following QC parameter monitoring for each column: a. Rig number b. Type of mixing tool c. Date and time (start and finish) of column construction d. Column diameter			<b>SUGGESTION:</b>          <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  Submitting as-built drawings prepared by BBII/DND's project staff within 24 hours of installation is acceptable.  As-built drawings prepared by a licensed surveyor shall be submitted as each of the following sections of wall are completed:  1. A-line inside Zone 4  2. J-line inside Zone 4  3. Beale and N-lot  4. Fremont Street  5. First Street  6. A-line inside Zone 3  7. J-line inside Zone 3				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 150 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>e. Column top and bottom elevations f. Grout mix design designation g. Slurry specific gravity measurements (obtained from the Testing Agency) h. Description of obstructions, interruptions, or other difficulties during installation and how they were resolved i. Surveyed as-built of previous day's work in relation to grid</p> <p>Article 3.3B, Section 31 56 13 of the Specifications state: (emphasis added) Following CDSM wall construction, the Contractor shall submit as-built drawings prepared by a California licensed surveyor indicating the location of the CDSM walls relative to the excavation alignment.</p> <p>Article 3.3B of the above provides the only requirement for a survey performed by California licensed surveyor. BBII's proposal in RFI T-0191 exceeded the requirements of Article 3.3B by proposing to submit as-built drawings prepared by a California licensed surveyor at the completion of the CDSM wall at each Zone, rather than at the completion of the entire CDSM scope as the Specifications require.</p> <p>Please confirm that submitting as-built drawings prepared by BBII/DND's project staff within 24 hours of installation and as-builts of each zone at the completion of the zone by a licensed surveyor is acceptable. BBII will perform additional survey by a licensed surveyor if necessary at areas of concern, to ensure conformance with the project requirements.</p>						
				8. A-line inside Zones 2 and 1 9. J-line inside Zone 2 to Grid 10 10. J-line inside Zone 1 from Grid 10 to Grid 1 and gridline 1  The drawings for a given section shall be submitted within 14 calendar days of completing that section.			

<b>T-0192</b>	<b>BSE - Unforeseen Tank on Gridline 35</b>	<b>Closed</b>	<b>07/06/2011</b>	<b>07/16/2011</b>	<b>07/08/2011</b>	<b>Potentially</b> <input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Masashi Kojima	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Roger Rothenburger	
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal					
<b>REQUEST:</b> BBII discovered an unforeseen tank structure during the pre-trenching operation along Gridline 35 between Gridline A-J that is not shown on the contract plans. The	<b>SUGGESTION:</b>		<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>		TJPA environmental consultant has contacted Golden Gate Tank Removal Co and removal is being scheduled. The TJPA has not yet received the



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 151 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

tank contains liquid substance; the odor from the excavation around the tank, it is assumed this is a fuel liquid. This tank needs to be removed to allow the continuation of the pre-trenching operation. Please advise as soon as possible.

paperwork from the Golden Gate Tank Removal Co. to schedule the date. TJPA will discuss further with W/O - BBI regarding handling.

<b>T-0192.1</b>	<b>BSE - Unforeseen Tank on Gridline 35</b>	<b>Closed</b>	<b>07/11/2011</b>	<b>07/21/2011</b>	<b>08/01/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Turner Construction Comp Kevin Chiu			

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI#T-0192 and attached photo

The unforeseen tank discovered during the pre-trench operation on Beale Street contains liquid. The liquid has spilled and is present in the surrounding soil, visible from the surface. The response to RFI#T-0192 does not address the soil surrounding the tank. BBII suspects this soil is contaminated with hydrocarbons in excess of the current approved Class 1 profile.

Please advise on the classification, limits and disposal methods for the contaminated soil surrounding the tank.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

See attached test reports

Report Completed By - Title - Date - Work Order -  
Number of Pages

McC Campbell Analytical, Inc. - Analytical Report - July 20, 2011 - 1107352 - 8  
McC Campbell Analytical, Inc. - Analytical Report - July 25, 2011 - 1107352 A - 8

-----  
07/15/2011 Roger Rothenburger

TJPA has had their environmental consultant, Treadwell & Rollo (Peter Cusack) arrange for the underground storage tank (UST) and its contents to be removed, test samples of the material, determine the extent of the contamination, and the proper disposal of the soil around the tank. The following response has been reviewed by Mr. Cusack.

1. Soils in the area of the UST were originally classified as Class I from 0~6ft below grade and Class II from 6~22 feet below grade (Soils Management Plan figure 4 & 7.
2. Remove and stockpile contaminated soils in the immediate area of UST including 2 feet along the sides of the UST and 2 feet below the UST.
3. If soils beyond this area still have a strong gasoline or petroleum odor then remove those soils as well.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 152 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>4. The samples taken by TJPA environmental consultant Peter Cusack on Thursday July 14, 2011 will be chemically tested for different contaminants. 5. The results of these tests will not be available for approximately 2 weeks (July 28, 2011). 6. Maintain the contaminated stockpiles covered until classification is complete and further directions are given by TJPA at that time. 7. Backfill the open trench/hole from which the contaminated material described above has been removed with clean suitable material as defined in the Specifications.</div>							
T-0192.2	BSE - Unforeseen Tank on Gridline 35	Closed	08/02/2011	08/12/2011	08/15/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Gary Krutsch		Answered By:Turner Construction Comp Kevin Chiu			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference RFI#T-0192.1  The Analytical Report for the sample taken from the soil around the Underground Storage Tank (UST) has been sent to BBII. The soil classification that has been determined was not listed in the response, nor the Analytical Report. Please advise on the classification of the soil.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Treadwell and Rollo Response -  Based on the attached analytical results, the soil excavated from the tank removal activities is considered Class II material and should be disposed of as Class II material using the established soil handling procedures.			
T-0193	BSE - CDSM Buttress Connector Wall	Closed	07/07/2011	07/17/2011	07/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST: Reference Specification Section 31 56 13  DND is refining the CDSM Shoring Wall mix design based upon the initial results of the Zone 4 Test Section in order to meet the specified compressive strength and permeability. DND is currently planning on trying 2 new		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> ARUP Response:  Arup will review the strength tests from the connector columns and make a determination of acceptable in-situ strength based on these.			





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

mixes / methods in the CDSM Buttress Connector Wall:

- 1) Single Phase (down and up with grout only) - 275 kg/m3  
cement treatment, 220% water/cement, specific gravity  
~1.4  
a. Based on Japanese experience  
2) Two Phase (down with water, up with grout) - 265  
kg/m3 cement treatment, 70% water/cement, specific  
gravity ~1.7  
a. Based on US experience

DND is currently proceeding with the installation of the  
CDSM Buttress Connector Wall. Per BBII's July 5, 2011  
meeting with the Engineer, BBII believes that this  
approach is acceptable for the CDSM Connector Wall and  
the CDSM Buttress Connector Wall will not have to be re-  
mixed in the event that it does not achieve the specified  
compressive strength of 90 psi at 28 days and 120 psi at  
90 days. Please confirm.

<b>T-0194</b>	<b>BSE - Unforeseen Buried Obstructions at CDSM Connector Wall in Zone 4</b>	<b>Closed</b>	<b>07/12/2011</b>	<b>07/22/2011</b>	<b>07/19/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Daphne Faulkner	<b>Answered By:</b> Transbay PMPC	Roger Rothenburger		

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Specification Section 31 56 13, attached  
sketches, and photo

During the installation of the CDSM Connector Wall at  
Zone 4, DND's drill rig hit unidentified buried obstructions  
at approx. 14' - 15' below the original grade (El. 0 ~ -1).  
Please see DND's attached sketch for further details. The  
exact location and composition of the obstructions are yet  
to be determined but BBII's preliminary findings indicate  
that they are timber piles that were neither shown on the  
original contract plans nor found during buttress area pile  
extraction. Find attached the as-built drawing that depicts  
the locations and the top elevations of the timber piles that  
BBII extracted at that location. Please note that the top  
elevations of the extracted piles range between 2.40 to  
3.11 feet.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

TJPA and its Representative agreed that the  
reasonable approach for removal of the obstructions  
as encountered was to mobilize an auger drill rig  
similar to the Viking drill rig used for the dewatering  
wells and removal of broken off piles along 181  
Fremont sreet to drill out the area. A 36" diameter  
casing was used in this application. This meeting was  
held on Monday July 11, 2011 at approximately  
12:30pm.

The drill rig arrived on site mid Thursday morning July  
14, 2011 (3 work days after the site meeting) and  
drilled until 7pm exploring the CDSM connector piles  
in the remaining rows. The material removed was  
some wood (volume less that a 5 gallon bucket -  
photos attached) and a number (approximately 15



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 154 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

BBII has just been informed by DND Construction that the other rows of the connector wall cannot be installed while these obstructions are being removed per the committee meeting on 07/11/2011, due to the proximity of the obstruction removal trench to the next two rows. The CDSM connector wall installation has currently ceased until further notice. BBII is currently seeking drill rigs capable of removing these obstructions also as discussed at the committee meeting.

Please direct BBII on how to proceed.

pieces)of chunks of unreinforced concrete 3" to 10" in size.

At this time without more evidence TJPA believes that this material was inadvertently left behind in the backfilling of the timber pile removal zone. BBI should prepare a formal claim as to why TJPA should pay for this work or delay. TJPA will give it fair consideration but needs to have this filed as a claim outside the RFI process. BBI did perform the work in accordance with specifications and site agreements made as to means and methods for the way forward. The drill rig requiring 3 work days to mobilize was at the choice of BBI to use their subcontractor Malcolm-DND.

T-0195	BSE - Unknown Utility on Beale Street West Side		Closed	07/13/2011	07/23/2011	07/14/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Daphne Faulkner	Answered By:	Transbay PMPC	Roger Rothenburger
Co-Author:	Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:			SUGGESTION:					
Reference attached photos and drawing								
BBI discovered an 8" utility line during the installation of the wheel wash on the west side of Beale Street. The utility indicated in the attached pictures is not shown on the BSE contract drawings. The alignment (North to South direction) of this utility appears in conflict with the CDSM wall. On 7/12/2011, BBI was able to confirm that this utility is not active. This utility will need to be removed during the pre-trenching operation, to avoid conflict with the CDSM.								
Please advise on the method for removal of this utility line.								
		ANSWER: Accept Suggestion: <input type="checkbox"/>						
		Remove the obstruction in accordance with the best means and methods. Maintain records of labor, equipment, materials for removal. Inform TJPA Representative of the methods chosen before starting work.						

T-0196	BSE - CDSM Shoring Wall Installation Sequence Zone 4 North of A-Line			Closed	07/20/2011	07/30/2011	07/26/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Daphne Faulkner	Answered By:Adamson Associates, Inc				George Metzger
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal								
REQUEST:		SUGGESTION:			ANSWER:		Accept Suggestion:			<input type="checkbox"/>
Reference Sheet GT-2201 and Specification Section 31					ARUP Response:					



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 155 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
56 13	<p>See Note 1 on Sheet GT-2201. DND is concerned that if the row of buttress connector columns (A/26.5 - A/30) immediately adjacent to the shoring wall is installed prior to the shoring wall, the shoring wall will not meet verticality and tolerance specifications due to a difference in strength of the soil on one side and the CDSM on the other side. BBII believes that it will be possible to install the buttress connector columns after the shoring wall without hitting the shoring wall beams.</p> <p>Is it acceptable to install the shoring wall prior to the immediately adjacent buttress connector columns?</p>						<p>This is acceptable. Contractor to exercise care to prevent the auger from hitting the soldier pile while achieving the column overlap shown on 9/GT-5101.</p>
T-0197	BSE - Maximum Allowable Vibration	Closed	07/20/2011	07/30/2011	08/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Daphne Faulkner		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Specification Sections 31 09 13 and 01 35 65		The table reportedly from the FEIS/EIR included in the RFI appears to be in error. This shall be addressed by others.					
According to the Final FEIS/EIR, specified in the Specification 01 35 65 as the reference document, the Vibration Impact Criteria, which is the base criteria for the analysis, is shown in the table 5.21-8 (refer to BBI RFI for table).		The Action Trigger Level and Maximum Allowable peak particle velocities listed in Table 1 in specification section 31 09 13 are for separate, transient vibration events rather than continuous construction vibration. It is not known if the values shown in the FEIS/EIR table are intended for transient or continuous events.					
The vibration impact criteria used in the Final FEIS/EIR contradicts the Maximum Allowable Movement for the vibration (PPV) specified in Specification 31 09 13. In this specification section, the maximum allowable movement for vibration and the action trigger level is described in Table 1 (refer to BBI RFI for table).		The Action Trigger Level and Maximum Allowable peak particle velocities listed in Table 1 in specification section 31 09 13 apply to all structures around the site where vibration monitoring will occur. In drawing up these values we have taken into account the types of plant likely to be employed in construction and the very low probability that the natural frequency of the input vibrations will approach those of the surrounding buildings and utilities.					
Please clarify where within the project site the vibration impact criteria for fragile structures are applicable (according to Specification 01 35 65), and where the maximum allowable movement for vibration of 1 inch per second is applicable (according to Specification 31 09 13).							

Page: 156 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>wooden ceilings and walls in masonry, 0.2 PPV in/sec.</p> <p>Class IV: construction very sensitive to vibration; objects of historic interest , 0.12 PPV in/sec.</p> <p>We are not sure where the maximum allowable value of 1 in/sec (presumably PPV) came from prior to it being put in the spec. This value seems too high relative to the FTA criteria presented in FTA Table 12-3 (which range from 0.12 to 0.5 in/sec PPV for various building categories). Ideally, the vibration values should be measured as close as possible to the edge of the building footprint, preferably in the internal envelop of the building, such as a basement or first floor slab floor within about a foot of the exterior wall nearest to the vibration generating activity. Locations away from the walls and on upper floors should be avoided since these areas could show elevated values due to building amplification. If interior areas are not available, an exterior location close to the edge of the building structure nearest to the construction activity can be used. In either case, care should be taken that the transducer is adequately coupled with the surface being measured and that PPV vector sum values are being reported.</p>						
T-0197.1	BSE - Maximum Allowable Vibration	Closed	07/20/2011	07/30/2011	09/12/2011	Potentially	<input type="checkbox"/>
<p><b>From:</b> Turner Construction Company      Gary Krutsch</p> <p><b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal</p> <p><b>REQUEST:</b> Refer to RFI #T-0197</p>		<p><b>To:</b> Webcor/Obayashi Joint Ventu Nhi Tran</p> <p><b>SUGGESTION:</b></p>		<p><b>Answered By:</b> Turner Construction Comp Kevin Chiu</p> <p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>Table 5.21-8: Construction Vibration Impact Criteria in the Project EIS / EIR has a number of typos. Refer to Table 12-3: Construction Vibration Damage Criteria in Transit Noise and Vibration Impact Assessment (FTA document # FTA-VA-90-1003-06) for the corrected version. For the avoidance of doubt, these values shall be considered Action Trigger Levels as defined in Section 31 09 13 of the Specification. All the buildings within 25 ft of the site boundary shall be considered to be Category I with the exception of the following buildings that are to be considered Category III:</p>			

[illegible]



BBI should carry out vibration monitoring inside buildings when (PPV equip) is calculated to lie within 90% of the values given in Table 12-3: Construction Vibration Damage Criteria in Transit Noise and Vibration Impact Assessment in FTA-VA-90-1003-06. The Action Trigger and Maximum Allowable movement level for vibration given in Table 1 of Section 31 09 13 is for Category I buildings only.

T-0197.2	BSE - Maximum Allowable Vibration - VOID	Closed	09/12/2011	09/22/2011	Potentially <input type="checkbox"/>
From: Webcor Construction LP	Nhi Tran	To: Turner Construction Compan Gary Krutsch	Answered By:		
Co-Author: Balfour Beatty Infrastructure, Inc.	Ural Yal				
REQUEST:	SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>	
Reference RFI #T-0197, Specification Section 01 35 65 &					
31 09 13, and attached map					
BBII recognizes and agrees Table 5.12-8 is in error, and					
BBII will refer to FTA Table 12-3 as the correct table.					
However, BBII believes the TJPA's response provides					
information that is in conflict with the specifications as well					
as between the two separate responses provided. BBII					
requests the following clarifications and confirmations:					
1. BBII has applied FTA Table 12-3 per [RFI #T-0197]					
(BBI RFI 147) to the attached map. The attached map					
indicates PPV values for continuous construction events,					
based on the surrounding buildings. Please review and					
verify this interpretation. Please note that this table, as					
also indicated in ARUP's response, applies to "continuous					
construction events".					
2. As also stated in ARUP's response, BBII's interpretation					
of Section 31 09 13 is that the limits provided in this					
section apply to "transient construction events". Therefore,					
contrary to URS' response, the values provided in this					
section are applicable to transient construction events.					



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<p>In addition, BBII will apply Table 1 in Specification Section 31 09 13 for transient construction events to all structures around the site. Table 1 indicates the Action Trigger Level for vibration (PPV) is 1/2 inch per second and Maximum Allowable Movement for vibration (PPV) is 1 inch per second.</p> <p>Please confirm the vibration Peak Particle Velocity (PPV) values indicated above are acceptable for continuous and transient construction events.</p>							
T-0198	BSE - Demolition Drawings in South-West Corner of Zone 1	Closed	07/28/2011	08/08/2011	08/25/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture      Nhi Tran		<b>To:</b> Turner Construction Compan   Gary Krutsch		<b>Answered By:</b> Turner Construction Comp; Kevin Chiu			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 02 41 01		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> See attached Transmittal 140-02181, sent to W/O on 8/25/2011.			
BBII is requesting a copy of the added scope demolition drawings issued to EBI, for the South-West corner of Zone 1.							
T-0199	BSE - Pile Extraction Method For Grid Line 35.2	Closed	08/01/2011	08/11/2011	08/15/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan   Gary Krutsch		<b>Answered By:</b> Adamson Associates, Inc   George Metzger			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0188.2		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:			
After exposing piles at grid line 35.2 east of Beale Street, BBII intends on extracting these piles as per the method described in RFI#T-0188.2 (BBI 0139.2). This involves backfilling any voids with sand. Please confirm this method is acceptable.		Arup did not respond to RFI T-0188.2. As noted in our response to RFI T-0188.1, we recommend that the procedure for removing the piles east of Beale Street follow the procedure described in our response to RFI T-0146.4 with the exception that backfilling with sand is acceptable.					







<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Per response to RFI T-0151, the Buttress can expand to the east as long as it doesn't shift to the south. Per discussions with Arup in last week's TG03 BSE Design Team Coordination Meeting (7/27/2011), it is acceptable for the Buttress to shift to the south per the attached sketch. Please confirm.							
The shift shown on the sketch is acceptable.							
T-0202	BSE - Pile Extraction Method For Grid Line 33.5	Closed	08/04/2011	08/14/2011	08/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Gary Krutsch		
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By: Turner Construction Company Jack Adams				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference RFI#T-0146.2				Contractor may wish to consider placing the steel sheet prior to excavating to retain the material under Beale Street to keep it from sloughing into the excavation.			
After exposing 5 piles at gridline 33.5 west of Beale Street, BBII intends on extracting these piles as per the accepted method described in RFI # T-0146.2,				Extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.			
"6. BBII will extract the wood piles with vibratory hammer, with the same stroking procedure without steel casing. BBII will perform dewatering enough to be able to connect the hammer to the pile.				Option: Backfill the void with CLSM low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).			
7. BBII will backfill the void with low strength material Central Concrete Mix FOA100CX (RFI #T-0138.1).				Option: Back fill the pile voids using a tremie pipe of minimum length 20ft attached to the concrete bucket. The tremie shall be inserted as far into the pile hole as possible prior to pouring the concrete, and the concrete shall be placed using normal tremie techniques. BBII will make efforts to pour the material into the void as possible, but BBII is not responsible to eliminate void completely."(RFI 146.4)			
8. BBII will backfill the piles.				Recommends that the procedure for removing these piles follow the procedure described in Arup's response to RFI T-0146.4. Optional is to use method from RFI 188.2. Sand can used for back fillings instead of the low strength material described in RFI#T-0146.4.			
Answer:							
Per Brian Dykes, this work is authorized to proceed. Allowable work hours will be established after 199 Fremont pile extraction begins."							
This involves backfilling any voids with 1 sack sand. The attached drawing indicates the location and quantity of piles to be extracted. Please confirm that this method is acceptable.							
Also, please advise if any work hour restrictions apply.							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 163 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0203	BSE - Clearance From Verticals For CSL Tubes	Closed	08/04/2011	08/14/2011	08/09/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Sheet GT-5202, Specification Section 31 63 29, and attached photo  In the Phase 1 DFOV Buttress Rebar QC Meeting at Harris-Salinas Rebar's yard in Livermore on 8/01/2011, ARUP suggested moving the adjacent vertical bars away from the CSL tubes to allow for approximately 4" of concrete cover along the entire length of the shaft. Please confirm.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response: The longitudinal bars on each side of each CLS tube shall be shifted so that the clear distance between a given bar and the CSL tube is 3" minimum, 4" maximum. The total number of bars which will be shifted is 8.		
T-0204	BSE - Tie Backs Along 535 Mission Street - Vacant Lot	Closed	08/04/2011	08/14/2011	08/10/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Turner Construction Comp; Jack Adams				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference GT-2102 & Detail 8 - GT-5103  BBII cannot locate the tie backs in the area of the vacant lot on Minna St. described in the Detail 8 on Contract Drawing GT-5103. The BBII crew went to a depth of 17 feet along the Pre-Trench and was unable to locate the tie backs. This was an additional foot more than the specified 15'-0" +/- 1'-0" depth. BBII believes the tie backs do not extend into the Pre-Trench limits and plans to move forward. Please advise if there is information to the contrary.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> BBII is to continue plans and specs (Ref: Dwg. Detail 8 GT-5103). Subsequent to this RFI BBII did locate and sever a tie back in Minna Street trench from the 535 Mission St. Project .  BBII was directed to be cautious when installing sheetpile shoring to ensure the Tie Backs are cut back sufficiently to prevent interference with CDSM Drill/Wall installation.  ----- ----- 2011-08-09 George Metzger ARUP Response: No additional information is available. Turner or PMPC to provide answer to this RFI.		
T-0205	BSE - Testing Weld On Hoops	Closed	08/05/2011	08/15/2011	08/09/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b>			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Reference Sheet GT-5202 and Specification Section 31 63 29</p> <p>Per SS03.20.01.3.3.B.4, "Inspect welding as required by Code for compliance with AWS D1.4."</p> <p>Per AWS D1.4.2, "Other welding processes may be used when approved by the Engineer, provided that any special qualification test requirements not covered here are met to ensure that welds are satisfactory for the intended application will be obtained."</p> <p>As of this writing, the AWS does not cover Resistance Welding which is the type of welding that Harris-Salinas Rebar is using for the hoops. Caltrans has a written specification for Resistance Welding. Per Caltrans Standard Specifications Section 52, four (4) samples out of a lot of one hundred fifty (150) are taken to the lab for testing. If three (3) or more samples comply with the requirements, the whole lot is accepted. If only two (2) samples comply, one (1) additional test of four (4) samples out of the same lot is allowed. If any of the four (4) fail, the whole lot is rejected.</p> <p>It was agreed upon in the DFOW meeting this week (8/1/2011) that it is acceptable to test the lots per Caltrans Standard Specifications. Please confirm.</p>						This is acceptable.
<hr/>							
T-0206	BSE - Smart Hoops For CSL Tubes	Closed	08/05/2011	08/15/2011	08/09/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan Gary Krutsch		Answered By:Adamson Associates, Inc George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Sheet GT-5202, Specification Section 31 63 29, attached photo and sketch				The 23 degree CSL spacing is required. The added "smart hoop" CSL alignment bars are acceptable.			
Drawing GT-5202 shows four (4ea) 4" CSL tubes equally spaced around the perimeter of the shaft tied to reinforced steel.							
Approved rebar shop drawing shows a square spider							



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 165 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>designed to serve two purposes:</p> <p>1. To allow the tremie pipe to pass through.</p> <p>2. To keep the CSL tubes equally spaced around the perimeter per Drawing GT-5202.</p> <p>In subsequent discussions the engineer suggested orientating the CSL tubes at a 23 degree angle from the longitudinal center of pile. In the Phase 1 DFOW Buttress Rebar QC Meeting on 8/1/2011 Harris-Salinas Rebar suggested using "smart hoops" to keep the CSL tubes in place and symmetrical around the perimeter at 23 degrees since the square spider could no longer be utilized for CSL tube alignment. This suggestion was well received by meeting attendees. Please confirm that the 23 degree CSL spacing is required. If so, please advise if the added "smart hoop" CSL alignment bars are acceptable?</p>						
T-0207	BSE - Unknown Fiber Optic on Fremont Street	Closed	08/09/2011	08/19/2011	08/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Gary Krutsch	Answered By:Turner Construction Comp Gary Krutsch				
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:	ANSWER:                      Accept Suggestion: <input type="checkbox"/>				
Reference Specification Section 02 41 01		Fiber was confirmed de-energized on 8/12/11.					
<p>PG&amp;E was scheduled to have all the utilities and structures confirmed dead on the East side of Fremont Street 8/07/2011 as part of the phase 1 PG&amp;E relocation work. On 8/08/2011, W/O and PG&amp;E conducted a USAR walk-through on Fremont Street to sign off and confirm that all PG&amp;E utilities and structures have been confirmed de-energized and abandoned. PG&amp;E discovered a live fiber optic cable between vaults 1675-1670. This fiber optic cable is in conflict with and causing delays to the CDSM wall and Buttress work commencement.</p> <p>Please provide a date this fiber will be confirmed de-energized.</p>							
T-0208	BSE - Long Term Seismic Loading	Closed	08/09/2011	08/19/2011	08/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Gary Krutsch	Answered By:Adamson Associates, Inc   George Metzger				





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 167 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0209.2	BSE - Abutment Bearing On CDSM Wall - Follow-Up	Closed	09/13/2011	09/23/2011	09/16/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI #T-0209.2, Specification Section 01 53 13, and attached sheets  As requested by ARUP, please see the attached loads placed on each individual CDSM soldier beam beneath the proposed temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridges.  BBII requests confirmation from the CDSM shoring wall EOR that these imposed loads do not exceed the assumed vertical loads used during original design analysis.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response: The results of the analysis reported in the table "SUMMARY OF LOADS ON CDSM SOLDIER PILES AT BRIDGE ABUTMENTS" indicates that, for a number of locations, the load per soldier pile is too great and that the pile spacing will need to decrease from 4'-0" o.c. to 2'-0" o.c. to reduce the load per pile. Subsequent analysis by the Contractor shall demonstrate the structural adequacy of the pile shape and the adequacy of the pile embedment.				
T-0209.3	BSE - Abutment Bearing On CDSM Wall - Follow-Up	Closed	09/13/2011	09/23/2011	09/28/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI #T-0209.2, Specification Section 01 53 13, and attached sheets  As requested by ARUP, please see the attached loads placed on each individual CDSM soldier beam beneath the proposed temporary bridge abutment. The loads include both the bracing self weight and the combined dead and live loads of the temporary bridges.  BBII requests confirmation from the CDSM shoring wall EOR that these imposed loads do not exceed the assumed vertical loads used during original design analysis.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  1. The CDSM wall cannot accept the widely varying point loads as implied by the submitted tables of imposed loads from the cross-lot bridges. We recommend that a spreader beam arrangement is provided for each bridge abutment and is connected to the all the affected W21x201 soldier piles in the CDSM wall. A vertical spring constant of 1150 kips/inch can be used to calculate the pile reactions under such a spreader beam arrangement for the range of loads given.  2. The allowable loads from the bridge deck for the soldier piles on the basis of 1 above is 90 kips/pile at an excavation of 10 feet below grade and can be taken to fall linearly to 60 kips/pile at 60 ft elevation depth.  3. It follows from 2 above that the ability of the CDSM wall to carry the maximum load, the construction crane condition, will reduce as excavation proceeds. This may require disassembly of the construction crane				





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 168 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

into smaller components in order to remove it from site at the later stages of excavation.

4. The load pathway, from the bridge deck at the abutment into the ground, is in direct shear transfer across 2 interfaces: steel/soil mix and soil mix/in-situ ground. The shear transfer across the steel/soil mix interface cannot be estimated with accuracy, in the absence of an embedded soldier pile test in compression or tension. If the early excavations, down to 10 feet below grade at the bridge abutment, show that soil mix falls away easily from the face of the W21 steel soldier pile, the bond/interface shear is likely to be very low indeed and the allowable capacity of the soldier piles will need to be re-evaluated.

T-0209.4	BSE - Abutment Bearing On CDSM Wall - Follow-Up			Closed	01/09/2012	01/19/2012	01/16/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Kirk Nielsen	To: Turner Construction Compan	Gary Krutsch	Answered By:	Arup	Kevin Clinch			
Co-Author:									
REQUEST:		SUGGESTION:			ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Reference T-0209.3, Specification Section 01 53 13					Arup cannot provide a response to this RFI without seeing the revised design of the bridge bearing on the soldier piles and the revised calculations.				
Contrary to RFI response T-0209.3, subsequent to the test pile loading CR T-025 during which there was little to no movement please confirm the revised direction to install the bridge abutment atop the CDSM wall at all streets pursuant to specification section 01 53 13.1.2.A.									

T-0210	BSE - Pile #498 Top Of Pile Elevation Issue		Closed	08/16/2011	08/26/2011	08/19/2011	Potentially	<input type="checkbox"/>		
From:	Webcor Construction LP	Nhi Tran	To:	Turner Construction Compan	Gary Krutsch	Answered By:			Adamson Associates, Inc	George Metzger
Co-Author:	Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:			SUGGESTION:							
Reference W/O NOTICE0010 (attached), Sheet GT-5101, and Specification Section 31 56 13										
Please address the following information request from BBII's subcontractor DND:										
		ANSWER:			Accept Suggestion:				<input type="checkbox"/>	
		ARUP Response:								
		The acceptable variation in bottom of pile elevation (shown on 16/GT-5101) is +/- 1'-6". In order to verify this using the top of pile elevation as the measure, the								





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 169 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>"The specifications do not specify an allowable tolerance with regard to the vertical position of the beam tip relative to the plan drawings (GT-5101, Note 16). Please clarify the allowable tolerance for the beam tip elevation.</p> <p>For example, beam 498 (BBII ID #287) was set slightly high. The beam was measured prior to setting to be 97'-5 1/2" long. It was set to a top elevation of approximately +16'-11" which calculates a tip elevation of approximately - 80.63'. Specified tip elevation is -81'-0" in this wall section (J/27-33.5)."</p>					Contractor shall provide Turner with the length of the piles.	
T-0211	<b>Easement Information</b>	Closed	08/11/2011	08/21/2011	08/23/2011	Potentially	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran	<b>To:</b> Turner Construction Compan   Gary Krutcs	<b>Answered By:</b> Turner Construction Comp Jack Adams				
	<b>Co-Author:</b>						
	<b>REQUEST:</b> Reference Email "Fencing Plan at CDSM Wall Radius R2-1 and X1-1" from Turner on 8/10/2011 and attached documents  W/O received the enclosed email "Fencing Plan at CDSM Wall Radius R2-1 and X1-1" and it's attachments from Turner on 8/10/2011, listed below: - 3192 OR 151 easement.pdf - Parcel F BNDY-ALTA_AB3721_15A_Rev 1.pdf - CASFRA_2007 00369409.pdf - Eminent Domain Fencing Plan .pdf  The information contained in the above documents differs from and/or does not exist in the current contract documents. Please provide a direction on what W/O and our Trade Subcontractors are to do with this easement information. In addition please indicate what requirements the TJPA expects Webcor Obayashi to now comply with.	<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> The information contained in the above documents is provided for information. WO and our Trade Subcontractors are to ensure the 540 Howard has 24 hour access to their easement. The current location of the CDSM wall and protection fencing will accomodate this access.				
T-0212	<b>BSE - Unforeseen Timber Piles At Grid Line 33.5 J</b>	Closed	08/15/2011	08/25/2011	08/16/2011	Potentially	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran	<b>To:</b> Turner Construction Compan   Gary Krutcs	<b>Answered By:</b> Turner Construction Comp Kevin Chiu				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI#T-0148.1, Sheet D-2213, attached photos and sketch

BBII exposed 24 piles at gridline 33.5 J close to Beale Street in Zone 4, as shown in the attached photographs. However, drawing D-2213 indicates five piles inside the CDSM wall limits. BBII intends to extract these piles using the method approved in RFI # T-0148 1. Please confirm that it is acceptable to continue tracking this unforeseen work as CR-T-010, as was practiced in this area previously.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

RFIs shall be used for interpretation or clarification of the Contract Documents (01 10 40) and a change request (CR) is not a Contract Document as defined by the General Conditions. Questions related to construction means, methods, techniques, sequences, procedures and non Contract Documents will not be replied to by the TJPA and will be rejected (01 10 40).

Refer to the procedures of previously issued CR T-010 for further direction.

**T-0213** **BSE - Pile Extraction Method For Concrete Piles Between GL 5-10 at Natoma St** **Closed**

**From:** Webcor Construction LP Nhi Tran

**To:** Turner Construction Compan Gary Krutsch

**08/15/2011 08/25/2011 08/19/2011 Potentially** ☐

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI #T-0188.1, Specification Section 02 41 19, and attached sketch

BBII intends on extracting the existing concrete piles located between gridlines 5 and 10 on the south side, using the method approved in RFI#T-0188.1. This involves extracting piles using the vibratory hammer without a steel casing and backfilling the void with structural pre-trench sand. Attached is a drawing indicating the locations of the piles obstructing the CDSM wall. Please confirm that this is acceptable.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

This is acceptable for concrete piles which are 16" x 16" square or less and which are located 16 ft or greater from the nearest face of an adjacent building.

**T-0214** **BSE - Instrumentation Protection Slab Zone 4** **Closed**

**From:** Webcor Construction LP Nhi Tran

**To:** Turner Construction Compan Gary Krutsch

**08/16/2011 08/26/2011 08/23/2011 Potentially** ☐

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Sheet GT-5102 and attached shop drawing and BBI sketches

BBII is proposing to pour a 2' thick instrument slab per the attached BBII drawings in lieu of the 1' thick concrete slab

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

ARUP Response:

Pouring a 2' thick instrument protection slab in lieu of the 1' thick concrete slab shown on Drawing GT-5102 is acceptable.



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

shown on Drawing GT-5102 to match the overall thickness of the Buttress Temporary Work Platform Concrete Cap. Approved 6000 psi Central Mix #960PC3Z3 (Submittal Item #TZ1010-033001A10) will be used for the instrument protection slab. Please confirm that this is acceptable.

Central Mix #960PC3Z3 is acceptable for use in the instrument protection slab.

The reinforcing steel configuration shown on Section A is acceptable. The bars may be shifted to clear the soldier piles and the instrument locations.

Block-outs shall be placed in the slab for the instruments as noted on GT-5102. Contractor to coordinate locations of block-outs with Arup field staff.

The protection slab shall be extended as noted on the attached sketch.

T-0215	BSE - Diagonally Cut Unforeseen Piles at Grid Line 33.5 J	Closed	08/17/2011	08/27/2011	08/17/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Company      Gary Krutsch			Answered By: Turner Construction Company      Jack Adams				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:			SUGGESTION:		ANSWER:		
Reference Sheet GT-2103, Specification Section 02 41 19, and attached photos					Accept Suggestion: <input type="checkbox"/>		
BBII has extracted four (4) unforeseen piles at GL 33.5 J. Three (3) piles had an average length of 45' long. However, one (1) of these piles appeared to have 20' diagonally cut out of it at the bottom (see attached Photo 3). Another pile was only 23' long and appeared to have broken off underground (see attached Photo 1). BBII has concerns that lengths of pile may still remain in ground and will be an obstruction to the CDSM shoring wall installation. Please advise on how to proceed.					Refer to specification 31 56 13, 3.2, A, which states, "The Contractor shall construct a trench along the entire alignment of the shoring wall and the cut-off walls and remove any obstructions that might be encountered along the alignment of the walls. The depth and width of the trench shall be that required to remove the obstructions from the path of the shoring wall."		

T-0215.1	BSE - Diagonally Cut Unforeseen Piles at GL 33.5 J		Closed	08/23/2011	09/02/2011	08/30/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:Adamson Associates, Inc				George Metzger
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>			
Reference RFI #T-0215 and RFI #T-0177, Sheet GT-2103 and Specification Section 02 41 19				ARUP Response:					



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	<p>As the top of the broken pile is 33' below ground, further trenching to remove this pile is not practical. BBII proposes following the procedure approved by RFI T-0177 (BBII 0126) to extract this pile. In the future, BBII proposes this to be the standard procedure when a broken or lost pile presents an obstruction to the CDSM Shoring Wall installation and needs to be extracted.</p> <p>Please confirm.</p>						Arup takes no exception to the use of the method described in RFI T-0177 for this pile.
T-0216	<b>BSE - Revised Buttress Shop Drawings For Record Only</b>	Closed	08/18/2011	08/28/2011	08/19/2011	Potentially	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch		<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
	<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal						
	<b>REQUEST:</b> Reference attached revised CIDH Rebar Shop Drawings, RFI#T-0184, T-0203, T-0205 and T-0206  Per discussions at the TG03 BSE Design Team meeting on 8/17/2011, it was agreed by Adamson and ARUP to confirm the finalized buttress rebar cage shop drawings via RFI because the shop drawings have already been approved in a previous submittal TG0300-320 / TA1020-032001A05.  Attached are the revised shop drawings that incorporate all the changes that were agreed upon in the referenced RFIs. Please confirm that these shop drawings accurately reflects all changes made.	<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Arup takes no exception to the shop drawings included with the RFI.  Note that review is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Contractor is responsible for quantities and dimensions which shall be confirmed and correlated at the job site; checking for deviations between the field, submittal and the contract documents alerting Arup of same; fabrication processes and techniques; the means and methods of construction; coordination of its work with that of all other trades; and performing all work in a safe and satisfactory manner. This review does not modify contractor's duty to comply with the contract documents and any action shown is subject to requirements of plans and specifications. This review does not increase Arup's standard of care or scope of services and contractor shall immediately notify Arup of any intent to make a claim based on this submittal.				
T-0217	<b>BSE - Buttress Shift To The East</b>	Closed	08/24/2011	09/03/2011	08/30/2011	Potentially	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch		<b>Answered By:</b> Adamson Associates, Inc   George Metzger				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 173 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI #T-0183.1, Sheet GT-2201, Specification Section 31 63 29, and attached sketch

The sketch that was included in the Engineer's response to RFI T-0183.1 shows Buttress rows S, T, U, V, and W, shifting 4" to the west. Per discussions with the Engineer in the 8/17/2011 TG03 BSE Design Team Meeting, all parties agreed that the 4" shift is not needed. Please confirm that the 4" shift is not necessary and that it is acceptable to install the Buttress shafts per the attached drawing.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

ARUP Response: The proposed northings and eastings shown are acceptable.

**T-0218** **BSE - Timber Lagging Underneath Instrument Protection Slab** **Closed**  
**From:** Webcor Construction LP Nhi Tran **To:** Turner Construction Company Gary Krutsch

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference RFI #T-0214, Sheet GT-5102, and Specification Section 31 56 13

Contract drawing GT-5102 indicates timber lagging being installed underneath the 2' section of the concrete instrumentation protection slab between grids 27 and 30. The original construction sequence foresaw the instrumentation protection slab being installed prior to the adjacent buttress work platform. BBII is planning on pouring the instrumentation slab and the adjacent buttress work platform monolithically on Wednesday 8/31/2011, which makes the timber lagging support redundant.

Please confirm that the timber lagging shown on contract drawing GT-5102 is not required to be installed. Your prompt response is highly appreciated.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

ARUP Response: It is acceptable to omit the lagging below the protection slab as proposed. Contractor to take appropriate measures to keep any loose material below the slab from falling into the excavation.

**08/29/2011** **09/08/2011** **08/31/2011** **Potentially** ☐  
**Answered By:** Adamson Associates, Inc George Metzger

**T-0219** **BSE - Abutments At Temporary Bridges** **Closed**  
**From:** Webcor Construction LP Nhi Tran **To:** Turner Construction Company Gary Krutsch

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**08/29/2011** **09/08/2011** **09/15/2011** **Potentially** ☐  
**Answered By:** Turner Construction Company Kevin Chiu



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 174 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Reference Specification Section 01 53 13 and Submittal TG0300-201 Item TZ1030-015313A09 response comments (attached)

DPW review comment #40 on the temporary bridge submittal (TZ1030-015313A09, package TG0300-201) calls for BBI to "provide concrete approach slabs similar to Caltrans." URS comment #32 on the submittal states that "Approach slabs are recommended. After seismic event, it is important that emergency vehicles still have access to these temporary bridges." Concrete approach slabs are not included as a requirement in the temporary bridge specifications. Please advise if approach slabs must be added to the scope of the temporary bridges.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Per spec 01 53 13 and David Fyfe's response included herein, approach slabs are necessary items required to provide a coordinated design and a completely functional temporary bridge.

-----  
2011-09-14 - David Fyfe

SF DPW requires approach slabs.

<b>T-0219.1</b>	<b>BSE - Approach Slabs At Temporary Bridges</b>	<b>Closed</b>	<b>11/04/2011</b>	<b>11/14/2011</b>	<b>11/16/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
-----------------	--	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor/Obayashi Joint Venture      Nhi Tran

**To:** Turner Construction Company      Gary Krutsch

**Answered By:** URS Corporation      David Fyfe

**Co-Author:**

**REQUEST:**

Reference RFI#T-0219 and Specification Section 01 53 13

On 11/3/11 W/O was informed by PMPC during a temporary bridge coordination meeting that contrary to RFI response T-0219 approach slabs were not required at the (3) temporary bridges.

Please confirm.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Comments made by PMPC in across the table discussions shall not be considered as modifying the response to RFI# T-0219. As an added clarification to RFI# T-0219, please note that the permitting agency, SF DPW, has expressed the potential need for use of approach slabs to achieve a package which can be approved by the agency. It is recommended that requirements concerning approach slabs be addressed between the contractor and the permitting agency during the building permit submission of the Temporary Bridges Package.

<b>T-0220</b>	<b>BSE - Pile Extraction Method For The Remaining Timber Piles At GL 33.5 J</b>	<b>Closed</b>	<b>08/29/2011</b>	<b>09/08/2011</b>	<b>09/02/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP      Nhi Tran

**To:** Turner Construction Company      Gary Krutsch

**Answered By:** Turner Construction Company      Jack Adams

**Co-Author:** Balfour Beatty Infrastructure, Inc.      Ural Yal

**REQUEST:**

Reference RFI#T-0188.1, Specification Section 02 41 19,

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

We recommend that the procedure for removing the



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 175 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

and attached sketch

BBII intends on extracting the remainder of the existing timber piles located at gridline 33.5J/Beale St., using the method approved in T-0188.1, as the piles are located a considerable distance from the 199 Fremont building. This involves extracting piles using the vibratory hammer without a steel casing and backfilling the void with structural pre trench sand. Attached is a drawing indicating the locations of the piles obstructing the CDSM wall. Please confirm that this is acceptable.

piles east of Beale Street follow the procedure described in our response to RFI T-0146.4 with the exception that backfilling with sand is acceptable. See also answer to RFI T-199.

<b>T-0221</b>	<b>BSE - Salvage Steel At Temporary Bridges</b>	<b>Closed</b>	<b>08/29/2011</b>	<b>09/08/2011</b>	<b>09/30/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> URS Corporation	Carolina Aguilar		
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal						

#### REQUEST:

Reference Specification Section 01 53 13 and Submittal TG0300-201 Item TZ1030-015313A09 response comments (attached)

DPW review of the temporary bridges submittal (TZ1030-015313A09, package TG0300-201) includes comment #8 that states "salvage materials are not acceptable to be used as structural members for the bridges. The temporary bridge specifications do allow for the use of salvage material as follows:

"2. Steel, Salvage Material: Submit coupon tests for mechanical properties and chemical tests for determination of weldability. For steel materials which are recycled from prior Projects (salvaged materials) and are to be incorporated into temporary works, testing shall be performed on a random sampling basis as follows:

a. Where material properties relied upon for design corresponding to minimum yield strength  $f_y=30,000$  psi, sampling shall be performed on 5% of each major series of structure element type.

b. Where material properties corresponding to minimum yield strength  $f_y=36,000$  psi, sampling shall be performed on 10% of each major series of structure element type.

#### SUGGESTION:

#### ANSWER:

**Accept Suggestion:** ☐

In order to evaluate compliance, additional information is required. Please submit list of all structural steel members that will be used on each of the three temporary bridges. For each structural steel member listed:

- 1). Indicate whether the structural steel member consists of new or salvaged material
- 2). Provide the exact location along the bridge that the steel member is located
- 3). Provide information on the salvaged material, such as its current condition, when and where it may be inspected by a TJPA Representative, and what its prior use was
- 4). For each complete temporary bridge, provide the total weight of salvage steel, summarized by element type and usage.

Finally, please provide the weight of total salvaged steel material that will be used at each temporary bridge.





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 176 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>c. Where material properties corresponding to minimum yield strength fy=42,000 psi or 50,000 psi is used, sampling shall be performed on 20% of each major series of structure element type.</p> <p>d. Testing performed per subparagraphs above at sampling rates of 5%, 10%, and 20%, respectively, shall be reported to the Owner's Representative in writing. Testing results must satisfy all samples meeting 100% of materials strength requirements for acceptance of salvage materials. If less than 100% of materials tested meet this requirement, then the sampling rate shall be increased. In this event, the sampling rate for retesting shall be subject to review and approval by the Owner's Representative."</p> <p>Please advise if salvage material is still acceptable per the project specifications.</p>						
T-0222	BSE - Temporary Bridge Pier Locations	Closed	08/29/2011	09/08/2011	09/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran		To: Turner Construction Compan   Gary Krutsch		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:			
Reference Specification Section 01 53 13 and Submittal TG0300-201 Item TZ1030-015313A09 response comments (attached)				Accept Suggestion: <input type="checkbox"/>			
Temporary bridge review comments (Submittal TZ1030-015313A09, package TG0300-201) call for the end piers on all three bridges to be relocated to avoid interrupting chamfer rebar (see attached markups). With the information provided to BBII in the plans and specifications, there was no indication that this reinforcement must be avoided, nor was there a required clear zone from the shoring wall to the first pier. Please advise if these piers absolutely need to move, or if their current locations can be accommodated. Increasing the span between the abutments and the first pier will have commercial impacts.				Thornton Tomasetti Response: The piers shall not be in conflict with the mat foundation chamfer (chamfer shown in plan and section S1-3201). Minimum clear distance from face of pier to bottom edge of chamfer shall be 2'-0." ----- ----- 8/31/2011 George Metzger ARUP Response: Arup takes no exception to the referenced pier locations that are shown in the submittal.			
T-0223	BSE - Temporary Bridge Pedestrian Barrier Height	Closed	08/30/2011	09/09/2011	09/27/2011	Potentially	<input type="checkbox"/>





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div><div><div><div><div>From: Webcor Construction LP</div><div>Nhi Tran</div></div><div><div>Co-Author: Balfour Beatty Infrastructure, Inc.</div><div>Ural Yal</div></div></div><div><div>SUGGESTION:</div><div>Reference Specification Section 01 53 13 and Submittal TG0300-201 response comments (attached)</div><div>DPW review of the temporary bridges includes comment #42 that calls for the pedestrian barrier to be designed as a combination railing with a minimum height of 4'-6" while the specifications only call for a 3'-6" barrier. Please advise if the minimum height must be increased to 4'-6".</div></div></div><div><div><div>To: Turner Construction Compan</div><div>Gary Krutsch</div></div><div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Response to RFI No.T-0223 is provided herein and on attached sketch titled, "Sketch - RFI Nos.T-0223 and T-0228." This attached sketch is a mark-up of BBII's traffic plan figure, "Non-Working Hours, Temporary Bridge Traffic Plan" (submittal package TG0300-204, submittal item TZ1030-015313, page 3 of 6) because this is the latest presentation of the Contractor proposed product.</div><div>This attached sketch shows an installation in conformance with current coordination comments completed between the Project and CCSF DPW and SFMTA. Where the handrail/guardrail system occurs separating pedestrian and vehicle traffic, required height equals 3'-6" measured from the top of pedestrian walking surface.</div><div>Note, these comments provided on this attached sketch pertain only to RFI Nos.T-0223 and T-0228, a full review and response of Traffic Plan Submittal Package TG0300-204 will be finalized and transmitted at a later date.</div></div></div><div><div>Answered By:URS Corporation</div><div>David Fyfe</div></div></div>							
T-0224	BSE - Temporary Bridge Deflection and Suspended Utilities	Closed	08/30/2011	09/09/2011	09/09/2011	Potentially	<input type="checkbox"/>
<div><div><div><div><div>From: Webcor Construction LP</div><div>Nhi Tran</div></div><div><div>Co-Author: Balfour Beatty Infrastructure, Inc.</div><div>Ural Yal</div></div></div><div><div>SUGGESTION:</div><div>Reference Specification Section 01 53 13 and attached cut sheets</div><div>Where utilities transition from direct bury to hanging under the temporary bridges, BBII believes there must be some allowance for deflection to prevent damage to the conduits during a seismic event. Attached are cut sheets for an expansion fitting and deflection fitting that BBII has seen used in combination at bridge transitions. Watertight flexible steel conduit may be an option as well. Please confirm that all Phase 2 utilities to be suspended below the temporary bridges will include some means of handling bridge deflection.</div></div></div><div><div><div>To: Turner Construction Compan</div><div>Gary Krutsch</div></div><div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Please provide information on the predicted movement and hanger support system such that the condition can be assessed. Movement direction; lateral or longitudinal? How much movement is being predicted and at what location? Are the steel conduits rigidly connected to the hanger supports? Please provide the hanger support design for review.</div></div></div><div><div>Answered By:AECOM Technical Service</div><div>Eric Zagol</div></div></div>							



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 178 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0224.1	BSE - Temporary Bridge Deflection and Suspended Utilities	Closed	09/23/2011	10/03/2011	09/27/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI #T-0224, Specification Section 01 53 30, and attached e-mails  The response to RFI T-0224 requested additional information about bridge movements. This information was provided by email to AECOM on 9/9/11. Follow on questions were answered on 9/15/11. Please see the attached email string.  Please provide the make, model, location and quantity per conduit run for all the utilities supported by the bridge			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> In reference to the request in RFI T-0224, it has been confirmed that all Phase 2 utilities (Verizon and PG&E) to be suspended below the temporary bridges will include means of handling bridge deflection.  Verizon has indicated the use of O-Z/GEDNEY expansion fittings for rigid steel conduit type EX, or equal. One fitting is proposed on each conduit located along the supported section staggered such that no two are aligned. This design element will be incorporated into construction documents being prepared by Verizon.  PG&E has indicated the use of O-Z/GEDNEY Expansion fittings for rigid steel conduit type EX, or equal. One fitting is proposed on each conduit located along the supported section staggered such that no two are aligned. This design element will be incorporated into construction documents being prepared by PG&E.				
T-0224.2	BSE - Temporary Bridge Deflection and Suspended Utilities	Closed	10/05/2011	10/15/2011	10/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI T-224, 224.1, CR T-017 and Specification Section 01 53 30  The response to RFI T-0224.1 The 4" EX model is not readily available (8 week lead time), however the very similar AX is. Please see the attached data sheets for each model and advise if this revised material is acceptable.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Response from PG&E (attached) is as follows:  The type AX expansion fitting for 4" steel conduits is an acceptable substitute for the type EX expansion fitting. Type BJ external bonding jumper will still be required.				
T-0224.3	BSE - Temporary Bridge Deflection and Suspended Utilities	Closed	10/24/2011	11/03/2011	11/08/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div><div>REQUEST:</div><div>Reference CR T-017R1 and Response to RFI#T-0224.2</div><div>BBII have been advise that only 1 deflection fitting is required on per rigid conduit run, between gridline A and J.</div><div>The PG&amp;E construction drawings attached, indicate (highlighted in yellow) 2 locations A and J line; request expansion fitting to be used.</div><div>It is not clear from the drawings attached if PG&amp;E require 1 deflection fitting per conduit run as previous stated in RFI # T-0224.2. Please confirm only 1 deflection fitting per conduit run between GL A-J is required by PG&amp;E.</div><div>Please provide a drawing showing, the deflection fitting configuration for individual conduit runs.</div></div>	<div>SUGGESTION:</div>			<div>ANSWER:      Accept Suggestion: <input type="checkbox"/></div> <div>1 deflection fitting per conduit run as described in RFI # T-0224.2 is required.</div> <div>Submit proposed configuration of deflection fittings coordinated with temp bridge supports and other bridge elements for review.</div>		
T-0225	BSE - CDSM Alignment Conflict With Existing Utilities GL 1-J	Closed	08/31/2011	09/10/2011	08/31/2011	Potentially	<input type="checkbox"/>
<div><div>From: Webcor Construction LP</div><div>Nhi Tran</div><div>To: Turner Construction Compan</div><div>Gary Krutsch</div><div>Co-Author: Balfour Beatty Infrastructure, Inc.</div><div>Ural Yal</div></div>			<div>Answered By:AECOM Technical ServiceEric Zagol</div>				
	<div><div>REQUEST:</div><div>Reference Sheet D-2231, Specification Section 31 56 13, and attached photo</div><div>BBII laid out centerline of the CDSM on Gridline 1 and Gridline J. The centerline of the shoring indicates that the existing utilities PG&amp;E/Water is in direct conflict with the location of the CDSM shoring wall. These utilities appear to be capped east of the centerline.</div><div>Drawing D-2231 BSE contract states "Unless specified otherwise all utilities have been cut and capped outside the limits of the work by Transbay Transit Centre program relocation of utilities"... Please see photos attached.</div><div>Please confirm the status on the relocation of these utilities.</div></div>	<div>SUGGESTION:</div>			<div>ANSWER:      Accept Suggestion: <input type="checkbox"/></div> <div>Shoring wall changed per the response to BSE RFI-0017. Basis of the AECOM Plans is the pre RFI-0017 shoring wall. We are planning to issue revisions to TJPA early next week to address the shoring wall change.</div>		



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0225.1	BSE - CDSM Alignment Conflict With Existing Utilities GL 1-J	Closed	08/31/2011	09/10/2011	09/09/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b>			<b>ANSWER:</b>				
Reference RFI#T-0225			<b>Accept Suggestion:</b> <input type="checkbox"/>				
The response received for RFI #T-0225 does not provide the requested information.			Status is as follows, RUP ASI-015 has been created to address the relocation of utilities impacted by the change to the CDSM shoring wall resulting from BSE RFI-0017. ASI-015 was issued for pricing and implementation on 9/8/11.				
----- Question from RFI#T-0225							
Reference Sheet D-2231, Specification Section 31 56 13, and attached photo							
BBII laid out centerline of the CDSM on Gridline 1 and Gridline J. The centerline of the shoring indicates that the existing utilities PG&E/Water is in direct conflict with the location of the CDSM shoring wall. These utilities appear to be capped east of the centerline.							
Drawing D-2231 BSE contract states "Unless specified otherwise all utilities have been cut and capped outside the limits of the work by Transbay Transit Centre program relocation of utilities"... Please see photos attached.							
Please confirm the status on the relocation of these utilities.							

T-0225.2	BSE - CDSM Alignment Conflict GL 1-J - PG&E Vault Utility Conflict on Natoma	Closed	09/12/2011	09/22/2011	09/14/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b>			<b>ANSWER:</b>				
Reference RFI #T-0017, #T-0225.1, Sheet U-1110, and Specification Section 31 56 13			<b>Accept Suggestion:</b> <input type="checkbox"/>				
Please refer to RFI No. T-0017, which revised the southwest corner of the CDSM shoring wall alignment. Your attention is also directed to the utility drawing U-1110, which depicts the utilities to be abandoned and the ones to be protected in place with respect to the old CDSM wall alignment. According to U-1110, the PG&E vault on Natoma Street shall be protected in place. However, based on the field layout, the PG&E vault on Natoma St. is in conflict with the southwest corner of the			Based on provided field information, the existing PG&E MH is located 11" clear of the CDSM shoring wall revised per resonse to RFI T-0017, please clarify what/where the conflict is.				
			If safety is of concern while working in close proximity to a live PG&E MH, coordinate with PG&E through TJPA's Representative to de energize the existing MH prior to and during CDSM wall construction. Existing PG&E MH 1348 exists to provide power to 90 Natoma. 90 Natoma is owned by the TJPA and is currently vacant.				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 181 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	<p>CDSM wall alignment, which was revised per RFI No. T-0017.</p> <p>Based on BBII's field measurements, the clearance between the PG&amp;E vault on Natoma St. and the centerline of the CDSM wall is 29", which is less than the 36" typical distance required by the contract plans as the minimum clearance between the demarcation lines and the CDSM wall alignment.</p> <p>BBII requests the PG&amp;E vault on Natoma St. to be relocated to a safe distance outside the work limits of the revised CDSM wall alignment.</p>						





T-0229	BSE - Concrete Time of Discharge Requirement			Closed	09/06/2011	09/16/2011	09/08/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan	Gary Krutsch	Answered By:Adamson Associates, Inc					George Metzger
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal								
REQUEST:		SUGGESTION:			ANSWER:					
Reference Specification 03 30 01					Accept Suggestion: <input type="checkbox"/>					
Per SS 03 30 00, 3.3.D, "Discharge of concrete shall be completed within 1½ hours or before the drum has revolved 300 revolutions, whichever comes first, after the introduction of the mixing water to the cement and aggregates or the introduction of the cement to the aggregates."					ARUP Response: This is acceptable.					





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 184 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Per ACI 301 (Section 4.1.2.9), "Time of discharge - When it is desired to exceed the maximum time for discharge of concrete permitted by ASTM C 94C/ 94M, submit a request along with a description of the precautions to be taken."</p> <p>BBII is planning for discharging concrete with the following precautions: As concrete hydration can be controlled for a maximum of 10 hours, BBII suggests discharge of concrete shall not be restricted to 1½ hours. In order to sustain the requirements of Becho, BBII purposes to replace the 1½ hour time restriction to 3 hours with an 80° F maximum temperature requirement.</p> <p>Please confirm that this discharging plan is acceptable for Buttress Concrete per ACI 301.</p>						
T-0230	BSE - Concrete Sampling Location	Closed	09/12/2011	09/22/2011	09/16/2011	Potentially	<input type="checkbox"/>
<p><b>From:</b> Webcor Construction LP      Nhi Tran</p> <p><b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal</p>		<p><b>To:</b> Turner Construction Company      Gary Krutsch</p>		<p><b>Answered By:</b> Turner Construction Company Kevin Chiu</p>			
<p><b>REQUEST:</b></p> <p>Reference Specification Section 03 30 01</p> <p>Per the Pre-Construction Buttress Shoring Phase 1 DFOV Meeting on 8/30/2011, BBII proposes to conduct concrete sampling of Central Concrete Trucks in Lot P in lieu of Zone 4 due to site congestion and safety concerns. In order to sustain the requirements of Becho and to provide safe disposal of concrete for sampling, BBII purposes Lot P for all concrete sample inspections.</p> <p>Please confirm that this is acceptable.</p>		<p><b>SUGGESTION:</b></p>		<p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>The Contractor shall bear all additional costs associated with changing the concrete sampling location from Zone 4 to Lot P (including, but not limited to, additional inspectors)</p> <p>-----</p> <p>2011-09-15 George Metzger</p> <p>ARUP Response:</p> <p>Arup takes no exception to sampling the trucks in Lot P provided the concrete is sampled and tested in accordance with the ASTM Standards. For example, in accordance with the Standards, sampling of the concrete shall be obtained after 10 % and before 90 % of the batch has been discharged from the truck.</p>			





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 185 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0231	BSE - 24-Hour Inspection of Buttress Shoring Shaft	Closed	09/12/2011	09/22/2011	09/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Company Gary Krutsch			<b>Answered By:</b> Turner Construction Company Kevin Chiu				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 03 30 01  Per the Pre-Construction Buttress Shoring Phase 1 DFOW Meeting on 8/30/2011, Becho requests that a TJPA representative be available to observe the 24 hour Buttress Shoring drilling operation and to perform any/all specified inspections. This includes: verticality of shaft, shaft cleanliness, verification of bed rock, concrete and rebar. In addition, Becho requests that a TJPA representative be available 24 hours of the day to provide Becho/BBII with full support and contact information of all available representatives.  Please confirm that this is acceptable.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> TJPA Representatives will be available to inspect the work as specified in 31 63 29 (referenced in 03 30 01).		
<hr/>							
T-0232	BSE - Buttress Red Color Concrete	Closed	09/15/2011	09/25/2011	09/16/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Company Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 03 30 01 and Sheet GT-2201  Per discussion with the Engineer, it is acceptable to place red color concrete in Secondary Buttress Shafts C3 and C5 in lieu of Primary Buttress Shafts C2, C4, and C6.  Please confirm this is acceptable.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  This is acceptable.		
<hr/>							
T-0233	BSE - Internal Bracing Design Coordination with Structural Design	Closed	09/20/2011	09/30/2011	09/23/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture      Masashi Kojima <b>To:</b> Turner Construction Company Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc George Metzger				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference Specification Section 31 55 00  The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 186 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

<b>T-0233.1</b>	<b>BSE - Internal Bracing Design Coordination with Structural Design</b>	<b>Closed</b>	<b>09/23/2011</b>	<b>10/03/2011</b>	<b>10/03/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Adamson Associates, Inc   George Metzger			

**Co-Author:**

**REQUEST:**

Reference RFI #T-0233 and TJPA Transmittal No. 140-02321

The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.

RFI #T-0233 Question:

The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City.

Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011.

TT's comments to this document will be marked up on the Internal Bracing Design Document.

<b>T-0233.2</b>	<b>BSE - Internal Bracing Design Coordination with Structural Design</b>	<b>Closed</b>	<b>10/05/2011</b>	<b>10/15/2011</b>	<b>10/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima		<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Adamson Associates, Inc   George Metzger			

**Co-Author:**

**REQUEST:**

Reference RFI #T-0233, T-0233.1, Submittal TG0300-542 and TJPA Transmittal No.140-02321.

W/O is in receipt of TJPA Submittal Package #TG0300-

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Thornton Tomasetti will be issuing comments to Transmittal #140-02321.





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 188 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>This RFI shall not be closed until the information / confirmation received from the Design team.</p> <p>----- RFI #T-0233.2 Response ----- Thornton Tomasetti will be issuing comments to Transmittal #140-02321.</p> <p>----- RFI #T-0233.2 Question ----- W/O is in receipt of TJPA Submittal Package #TG0300-542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542. Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.</p> <p>----- RFI #T-0233.1 Response ----- TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.</p> <p>----- RFI #T-0233.1 Question ----- The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.</p> <p>----- RFI #T-0233 Response ----- Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.</p> <p>----- RFI #T-0233 Question ----- The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.</p>						





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 190 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.

----- RFI #T-0233 Question -----

The BSE submittal TG0300-542.1 Internal Bracing Design was approved by TJPA and the fabrication will start as soon as permission is issued by the City. Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

<b>T-0233.5</b>	<b>BSE - Internal Bracing Design Coordination with Structural Design</b>	<b>Closed</b>	<b>10/17/2011</b>	<b>10/27/2011</b>	<b>10/18/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Company      Gary Krutsch	<b>Answered By:</b> Turner Construction Company Gary Krutsch				

**Co-Author:**

**REQUEST:**

Reference RFI #T-0233, T-0233.1, T-0233.2, T-0233.3, T-0233.4, Submittal TG0300-542 and TJPA Transmittal No.140-02321.

Per response to RFI#T-0233.4, comments from the design team were to be received by October 14, 2011.

Please provide the design team comments and confirmation for RFI #T-0233.

----- RFI #T-0233.4 Response -----

Comments will be returned by 14 October 2011.

----- RFI #T-0233.4 Question -----

Reference RFI #T-0233, T-0233.1, T-0233.2, Submittal TG0300-542 and TJPA Transmittal No.140-02321.

When will the Design team provide the information / confirmation for RFI #T-0233?

----- RFI #T-0233.3 Response -----

This RFI contains a statement, not a question and is inappropriate for the RFI process. RFI T-0233.2 will remain closed but unresolved until the requested

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Comments have been sent to W/O previously, see attached transmittal.



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 191 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	information is provided.						
	----- RFI #T-0233.3 Question ----- This RFI shall not be closed until the information / confirmation received from the Design team.						
	----- RFI #T-0233.2 Response ----- Thornton Tomasetti will be issuing comments to Transmittal #140-02321.						
	----- RFI #T-0233.2 Question ----- W/O is in receipt of TJPA Submittal Package #TG0300- 542 for the internal bracing from which W/O is proceeding per specification section 01 13 00. W/O is aware the design team did not review and comment on Transmittal #140-02321 (DBI's comments) to Submittal Package #TG0300-542.						
	Please confirm no design team changes or comments will be made to Submittal Package #TG0300-542 rather future trade packages.						
	----- RFI #T-0233.1 Response ----- TT is currently reviewing the Internal Bracing Design Documents, which was received by TT on 09/29/2011. TT's comments to this document will be marked up on the Internal Bracing Design Document.						
	----- RFI #T-0233.1 Question ----- The SFDBI-approved Internal Bracing drawings and related calculations was sent to W/O on 9/22/2011 as TJPA Transmittal No. 140-02321 - Approved Internal Bracing for Shoring Wall Permit Drawings, and available in Constructware.						
	----- RFI #T-0233.0 Response ----- Thornton Tomasetti's response is pending receipt and review of revised internal bracing submittal.						
	----- RFI #T-0233.0 Question ----- Reference Specification Section 31 55 00 The BSE submittal TG0300-542.1 Internal Bracing Design						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 192 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

was approved by TJPA and the fabrication will start as soon as permission is issued by the City.

Please confirm the design was acceptable to permanent structural designer (Thornton Tomasetti) and incorporated into their design for future trade packages.

<b>T-0234</b>	<b>BSE - Buttress Shaft Post Pour Settlement</b>	<b>Closed</b>	<b>09/20/2011</b>	<b>09/30/2011</b>	<b>09/22/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	--	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Gary Krutsch
-------------------------------------	----------	--	--------------

**Answered By:** Adamson Associates, Inc George Metzger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Sheet GT-2201 and Specification Section 31 63 29

Please be informed that an uncontrolled settlement was observed at Buttress shaft C2, which was poured on Sunday 9/18/2011. The settlement led to the formation of a 13' deep unstable hole on the buttress working pad. After consulting with ARUP representative and W/O's field personnel, BBII/Becho Inc. decided to fill the newly formed hole with concrete to mitigate the settlement risk of the working pad. Additional concrete was poured into the 13' deep hole on Monday 9/19/2011.

Please confirm that pouring additional concrete/CLSM will be considered as an acceptable method, if such settlements will occur during the future installation of the upcoming buttress shafts.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

ARUP Response:

The Contractor shall place concrete (or CLSM, where specified) up to the ground surface as specified in the Contract Documents. The Contractor shall employ the means and methods necessary to properly measure the level of concrete before concrete placement is terminated, and to verify that the material at the ground surface is quality concrete rather than the concrete / water / concrete plug mixture that rises to the surface in advance of the quality concrete due to the tremie method. If some consolidation of the concrete occurs over time, then the top of the shaft shall be filled to the ground surface with concrete (or CLSM, where specified).

<b>T-0235</b>	<b>BSE - Unforeseen Reinforced Concrete Slab at GL 7.5 J</b>	<b>Closed</b>	<b>09/20/2011</b>	<b>09/30/2011</b>	<b>09/27/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	--	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Gary Krutsch
-------------------------------------	----------	--	--------------

**Answered By:** Transbay PMPC Roger Rothenburger

**Co-Author:** Balfour Beatty Infrastructure, Inc. Ural Yal

**REQUEST:**

Reference Sheet D-2210, Specification Section 31 56 13, attached photos and sketch

While excavating a pre trench at gridline 7.5J close to

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

This slab is a Cal Trans slab and is located within TJPA property limits. The slab is not unknown and is shown in the set of Drawings listed in Section 00-03-31 Part 1.2.D.6 (Existing Condition: Buildings and







Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 194 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>		
	<p><b>REQUEST:</b></p> <p>Reference Specification 01 53 30</p> <p>Temporary Bridge Specification 01 53 13 (1.6H) requires the welding qualifications for the bridges to be in accordance with AWS D1.5 "Bridge Welding Code", however BBII's design was based on AWS D1.1 "Structural Welding Code" as specified in General note 3.2-A4.2 of Sheet SH-0100. BBII and their designer felt AWS D1.1 is more applicable for the temporary bridge structure for the following reasons:</p> <p>- The members that make up BBII's temporary bridge consists of readily available standard grade mill rolled shapes, comprised of a variety of base metals (A36, A53, A572, A992, A500, and A252) which are joined by simple prequalified joints (fillets). D1.1 provides the flexibility to weld all of these base metals in any combination utilizing prequalified procedures, since they are all in the same base metal group. D1.5 only allows prequalified welding of A709 plate material only.</p> <p>- BBII's temporary bridge structure contains structural tubing (piers and rails), which D1.5 does not cover tubing</p> <p>- The bridge as designed has short spans and very simple welded connections. All welds shown are fillet welds (mostly single pass). Additionally there are no complete penetration welds as are typically seen on steel plate girder bridges.</p> <p>- The life span of these temporary bridges are less than 5 years</p> <p>- The temporary bridge's intended use and the site specific geometry restraints led to a steel framing design much more similar to a structural steel building than to a typical Highway bridge. The steel columns with angle cross-bracing, and the girders and cap beams as detailed are similar to building with columns and floor beams.</p> <p>The submittal review did not take exception to the general note specifying D1.1. therefore please confirm it is acceptable to submit weld procedures and welder qualifications per AWS D1.1 as specified by the bridge's Engineer of Record.</p>	<p><b>SUGGESTION:</b></p>							
					<p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>ISI Commentary:</p> <p>"We have been requested to provide a commentary/discussion regarding AWS D1.5-2002 Bridge Welding Code in reference to RFI #T-0237. The scope of our discussion is limited to an interpretation of D1.5 and not to the design/use of welded temporary steel bridges. The RFI's request by BBII is to accept WPSs/WQTRs to AWS D1.1 rather than to AWS D1.5.</p> <p>Base Materials: Although D1.5 specifies A709 as the approved steel, it also states that other steels may be approved by the Engineer [D1.5 Section 1.2.2].</p> <p>Fillet Welding: The RFI states all welding to be fillet welds (mostly single pass). D1.5 state fillet welding may be performed, within given limitations, without performing WPS qualification tests [D1.5 Section 2.8.1].</p> <p>Welder Qualifications: We note that the qualification requirements for both groove and fillet welds are similar between AWS D1.1 and D1.5 with exception of base metal restrictions.</p> <p>Engineer's Discretions: See Commentary Sections C1.1.2, C1.2.1 and the "Forward" section of D1.5 Pgs. vii and viii."</p> <p>-----</p> <p>9/26/2011 - David Fyfe</p> <p>See Specification Section 01 53 13, 1.6H;</p> <p>Welding Qualifications: Qualify procedures and personnel according to the following:</p> <p>1. AWS D1.5/D1.5M, "Bridge Welding Code - Steel."</p> <p>2. AWS D1.4/D1.4M, "Structural Welding Code - Reinforcing Steel."</p>				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 195 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

This does not allow use of AWS D1.1. Comply with paragraph 1.6H requirements.

T-0237.1	BSE - Bridge Welding Code	Closed	10/03/2011	10/13/2011	10/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Company		Gary Krutsch	Answered By: Turner Construction Company Kevin Chiu	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference RFI #T-0237 and Specification Section 01 53 30				Response provided in RFI T-0237 by David Fyfe, dated 9/26/2011, is the governing response.			
RFI #T-0237 was returned to W/O with two responses regarding the temporary bridge welding. Please clarify which is the governing response or provide one coordinated response.							

T-0238	BSE - Zone 1 CDSM Crossing Over Existing Wall	Closed	09/26/2011	10/06/2011	09/29/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Gary Krutsch	Answered By: Adamson Associates, Inc George Metzger	
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal					
REQUEST:		SUGGESTION:		ANSWER:			Accept Suggestion: <input type="checkbox"/>
Reference Sheet GT-5101, Specification Section 31 56 13, attached photos and sketch		ARUP Response:					
Please address the following information request from BBII's sub contractor DND:		This is acceptable provided there is no additional cost to the TJPA.					
"The new CDSM shoring wall crosses an existing CDSM wall at 2 locations. Following CR T-005B, both of these crossings are perpendicular to the existing CDSM wall, as shown in Note 1 on GT-5101. Note 1 shows the new wall making a jog to avoid hitting the beams of the existing CDSM wall. The detail shown on contract plan GT-5101 is constructible only if the existing CDSM wall was built exactly as shown, without any room for construction tolerances for both the new and existing wall. Instead of trying to install this section of the CDSM wall according to the detail shown on GT-5101, which would potentially cause damage to the CDSM equipment, DND proposes to							



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 196 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	<p>remove the existing CDSM beams that are in conflict. The contract plan GT-5101 shows two CDSM panels to jog around the existing beam and one offset panel parallel to the new wall.</p> <p>DND's proposed solution would eliminate the 2 panels in the jog but still maintain the additional offset panel parallel to the wall line. This additional offset panel would act as insurance so a seal is maintained through any deflection caused by the hard in-situ soil mix. This would present a potential cost savings to the project (due to 2 less panels being installed), providing the conflicting beams can be successfully removed.</p> <p>DND has mobilized a drill rig with an auger to this area to pre-drill the wall prior to the removal of beams. This will substantially reduce the amount of vibration that will be required to remove the beams. DND proposes to utilize the same method at the other wall crossing near Natoma Street. Is this proposed method of removing the existing beams and soil mixing through the existing CDSM wall acceptable?"</p>						
<hr/>							
T-0239	BSE - Rebar Cages for Deeper Buttress Shafts	Closed	09/28/2011	10/08/2011	10/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Gary Krutsch		Answered By:Adamson Associates, Inc   George Metzger			
Co-Author: Balfour Beatty Infrastructure, Inc.                      Ural Yal							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Sheet GT-5202 Detail 12, RFI T-0216, and Approved Rebar Shop Drawings		ARUP Response:					
The approved rebar cages per RFI T-0216 are sized for 241' deep shafts. Rebar cages for shafts C-1 and M-1 have already been released and fabricated. Note that the depth after airlifting of shafts C-2 and M-2 have been 247' and 252.7' respectively. Please advise on how to proceed with the installation of the cages for shafts C-1 and M-1 and with the fabrication of the rest of the cages assuming these shafts extend beyond planned depth.		Detail 12/GT-5201 requires the reinforcing steel to be placed up to 1'-0" below the top of the concrete. The top of concrete is shown on GT-5201. Longitudinal bar extensions shall be spliced as needed to achieve this. If the top of the fabricated cage is within 3'-0" of the top of the concrete, no bar extensions are required.					
		The 24" tie spacing shown on the shop drawings at the setting cage (Drawing SC1) is acceptable at the bar extensions.					

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
T-0240	BSE - Demo AT&T Duct on Natoma at Second	Closed	09/29/2011	10/09/2011	10/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Company Gary Krutsch <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> AECOM Technical Services Eric Zagol				
<b>REQUEST:</b> Reference Sheets U-1110, D-2231, ASI-015, Specification Section 31 56 13, attached email and BBI RFI 222  It was discovered on 9/27/2011 while performing the utility demo for the revised shoring wall alignment (TG03 BSE CR T-005B) issued in ASI 15 that the abandoned AT&T line servicing the demolished buildings on Natoma was never fully abandoned by AT&T. According to the attached email from Huan Huynh of AT&T, AT&T was never notified that these lines needed to be abandoned due to the revised shoring wall alignment of the Transbay Project.  Please confirm when CDSM Shoring Wall can be installed in the area. Currently, BBII is installing the CDSM Shoring Wall on line 1 and the confirmation of the line abandonment is required as quickly as possible to avoid any project delay.  Please also refer to the attached BBI RFI 0222 for this issue			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> AT&T has de-energized the abandon telecommunications lines referenced in the RFI. Proceed with CDSM wall installation at this location following demolition of existing utilities per RUP contract documents and execution of a USARs.		
T-0241	BSE - Brick Wall at GL 2, J Line In Conflict With The CDSM Wall	Closed	09/29/2011	10/09/2011	10/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Company Gary Krutsch <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> Turner Construction Company Jack Adams				
<b>REQUEST:</b> Reference Specification Section 31 56 13 and attached meeting minutes and photos  The brick wall remaining from the 580 Howard building, at grid line 2 J, is protruding into the CDSM wall limits, as noted in BBII's previous RFI #203 (The question was responded by TCCO at the job site meeting on 9/6/2011. Refer to the attached meeting minutes). While attempting to remove, BBII has discovered that the fence and patio pavement are founded on this remaining portion of brick wall. This condition does not allow for the removal of the wall without damage to the fence and patio.  Please provide direction on how to proceed.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> 1. The 580 Howard courtyard fencing can be removed from the corner because it is owned by TJPA and located on TJPA property. 2. After removal of this corner section of fence, a section of temp fence and signage shall be placed on TJPA property. 3. During demolition of this corner section the temp fence and signage will likely have to move in towards the 580 Property as a safety precaution. 4. The demolition and backfill shall be expedited so that the courtyard can be restored (preferably same day). 5. The temp fence section and signage shall be moved back on to TJPA property until CDSM wall is complete.		





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 199 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Zone 4 Buttress drilling operations which include rock classification, strength and location."							
T-0243	BSE - Emergency Exit at 530 Howard GL 10 J	Closed	09/29/2011	10/09/2011	10/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Gary Krutsch		
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By:Turner Construction Comp Kevin Chiu				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Specification Section 31 56 13 and attached sketch		Coordination with 530 Howard property management cannot be obtained without specific dates. Once the dates are known, coordinate through Jason Padavich (jpadavich@tcco.com 510-453-8598).					
Pre-trenching and CDSM wall installation at the rear of the 530 Howard building will have an impact on the accessibility to the emergency exit at that location. In order for the pre trench and the CDSM wall installation to safely proceed past this location, the rear exit must be closed for 1-2 days for each operation. The attached drawing indicates the location of the emergency exit and its proximity to the CDSM wall.							
Please confirm if this is acceptable. BBII is available to meet with the property owner to coordinate this work.							
T-0244	BSE - Request for Additional Geotechnical Data Pertaining To Zone 4	Closed	09/29/2011	10/09/2011	10/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Gary Krutsch		
Co-Author: Balfour Beatty Infrastructure, Inc.		Ural Yal	Answered By:Adamson Associates, Inc George Metzger				
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference Sheet GT-2201 and Specification Section 31 63 29		ARUP Response:					
Please address the following information request from BBII's sub contractor Becho Inc.:							
"... for each of the shafts completed and under construction, Becho has excavated deeper than the elevations shown for boring logs. Becho is requesting soil samples, boring logs, torque requirements, skin friction values, and rock strengths be provided for these depths.		The elevation of the bedrock is highly variable as indicated by the contour plan in the Geotechnical Data Report. It is for this reason that the specifications include the requirement: "Excavation and drilling equipment: shall have adequate capacity, including power, torque, and down thrust to advance the temporary casing to the depths shown on the drawings, excavate a hole of both the maximum diameter and to a depth of 20 percent beyond the					





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 200 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
	(Currently 254 ft below elevation +14.00).  The requested information is similar to what was provided up to the depths of 234 and 237.5 feet in the "Final Geotechnical Data Report" prepared by Arup dated February 2010, and "Prototype Test Program and Monitoring During Construction of Drilled Shafts" prepared by Arup dated May 2010. Becho requests this information for drilling beyond the depths specified in the Geotechnical Report."						depths shown on the plans."
T-0245	<b>BSE - Ground Conduits detail for PG&amp;E phase 2 works on First Street</b>  <b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Gary Krutsch <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal  <b>REQUEST:</b> Reference: CR No. T-017 - BSE - First Street Phase 2 Utility Relocation  For the installation of the PGE 6" and PGE 4" GRS conduit between the CDSM walls, is grounding of the PGE conduits required? If so, please provide grounding details/requirements.	Closed	10/05/2011	10/15/2011	10/12/2011	Potentially	<input type="checkbox"/>
			<b>ANSWERED By:</b> AECOM Technical Service Eric Zagol  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Response from PG&E (attached) is as follows:  Yes and at both ends of the conduits. As a suggestion, we would propose to tie into the bonding jumpers of the AX and EX expansion fittings with a bare copper solid stand #6 copper wire. The #6 wire can be either soldered or crimped to the bonding jumper. All the #6 ground wires would then be brought together and connected to a single bare #2/0 copper wire. The 2/0 copper ground wire would then be routed and cadwelded to the nearest I-beam that support the traffic bridge.  If it is not possible to attached the #6 copper wire to the AX and EX grounding jumpers, we will require a separated bonding clamp that can be used in a wet or dry location.  One grounding point is usually sufficient but I am asking for grounding at both ends of the steel conduits in case one ground is accidentally cut.				
T-0246	<b>BSE - PG&amp;E Sweep Radius Requirements</b>  <b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Compan   Gary Krutsch	Closed	10/10/2011	10/20/2011	10/11/2011	Potentially	<input type="checkbox"/>
			<b>ANSWERED By:</b> Turner Construction Comp Kevin Chiu				





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference CR T-017.  (The attached drawings provided at the PG&E / BBII / Verizon Coordination Meeting on 9/29/2011) refer to 10ft radius elbows and bends. PG&E standards refer require 6ft radius elbows and bends. Please confirm radius requirements for 6" conduit installation for the Phase 2 utility on First Street.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Per PG&E (see attached), the requirement is 10ft radius.			
<hr/>							
<b>T-0247</b>	<b>BSE - Proposed Corrective Action Plan for Sunken CDSM Soldier Piles</b>	<b>Closed</b>	<b>10/10/2011</b>	<b>10/10/2011</b>	<b>10/12/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima		<b>To:</b> Turner Construction Compan   Gary Kruttsch		<b>Answered By:</b> Adamson Associates, Inc   George Metzger			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference Specification Section 31 56 13  Please address the following information request from BBII's sub contractor DND: "As of to date, the following three soldier piles have sunk below grade during their placement into the CDSM wall. - Beam # 154 installed on 09.08.11 - Beam # 631, installed on 09.29.11 - Beam # 602, installed on 10.01.11  DND was unable to recover those piles and set them to their plan elevations without disturbing the adjacent beams that were already in place. To mitigate this issue, DND proposes to conduct the below course of remedial action: 1) Wait until mass excavation commences. Excavate with caution the locations, and determine the top elevation of the sunken beams. 2) Provide this information to the Engineer for evaluation. 3) Implement corrective action based on Engineer's evaluation. Possible corrective measures are: a. No action necessary. The strength of the CDSM material may be sufficient to support the unreinforced depth. b. Install lagging between the adjacent beams above the top of the sunken beam. c. Splice a beam on the top of the sunken beam and backfill with low strength concrete.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The proposed sequence is not acceptable. The Contractor shall submit a corrective action plan at least four weeks prior to the start of excavation for evaluation by the TJPA's Representative. The plan shall assume a range of depths to the top of the sunken beam and shall describe the impact on the waling and strutting plan. The plan shall be location-specific and shall include a drawing indicating the location of the sunken beam.			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 202 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Please advise, if the proposed course of remedial action and/or any of the three possible corrective measures are acceptable."							
T-0247.1	BSE - Proposed Corrective Plan for the following Sunken Solider Piles	Closed	01/10/2012	01/20/2012	01/12/2012	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture Kirk Nielsen		To: Turner Construction Compan Gary Krutsch	Answered By:Adamson Associates, Inc George Metzger				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference: Attached Corrective Action Plan							
Message:							
Please find attached BBII's proposed corrective plan for the following sunken solider piles:							
1. Pile #59, Notice #47, Vela Issue #J-00007.							
2. Pile #154, Vela Issue #J-00001.							
3. Pile #602, Vela Issue #J-00008.							
Please approve and or comment.							

The written RFI above is not a clear question and is not acceptable. The content in the attached document should be provided in a submittal, not an RFI. GC to conform to comments in RFI 247.



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0248	BSE - First St. Verizon Utilities Relocation	Closed	10/10/2011	10/20/2011	01/04/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Company Gary Krutsch	Answered By: Transbay PMPC Roger Rothenburger				
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference Specification Section 01 53 13  Attached is an as-built sketch of Verizon utilities potholed and located along First St. on 10/4/10. These utilities were originally scheduled to be relocated during phase two to allow for CDSM installation and subsequently temporary bridge construction. BBII has learned that in an effort to save time, the TJPA is considering leaving the utilities in their current locations and working around them. As shown on the attached section of the First St. temporary bridge, the Verizon utilities will be in direct conflict with the temporary bridge structure. Please confirm these utilities will be relocated as planned to allow for installation of the CDSM shoring wall and temporary bridge.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> "Yes, they will be relocated. This RFI was related to the lateness of Verizon relocation and the idea of installing CDSM wall with Verizon still in place. Due to delays in starting PGE is now taking longer than Verizon so that PGE work governs duration and we no longer have to install last CDSM wall with Verizon in place to save time on bridge installation on First Street."  Solcom has a start date of 1.03.2012 and a finish date of 2.29.2012.			
<hr/>							
T-0249	BSE - Pavement lights at the rear of 580 Howard	Closed	10/10/2011	10/20/2011	10/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Masashi Kojima		To: Turner Construction Company Gary Krutsch	Answered By: Turner Construction Company Kevin Chiu				
Co-Author:							
REQUEST: Reference Specification Section 31 56 13 and CR T-005B.  There are two lights located on the ground inside the boundary fence at the rear of 580 Howard. The lights are located 4ft away from the brick wall (which is due to be demolished) as shown the attached photos. A preliminary investigation indicates that the lights are de-energized. Please confirm that access to the property's electrical system will be available to confirm that the lights are de-energized.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Access to 580 Howard cannot be obtained at this time.  See attached, "RFI T-0249 Field Photos 11 Oct 2011," which shows that as of 2PM on 11 OCT 2011 the lights have been removed and wires capped by an unknown entity.  Contractor to verify status of electrical lines by alternate means.			
<hr/>							
T-0250	BSE - Soil Classification of South West Area of the Work Site	Closed	10/13/2011	10/23/2011	11/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Nhi Tran		To: Turner Construction Company Gary Krutsch	Answered By: Turner Construction Company Kevin Chiu				
Co-Author: Balfour Beatty Infrastructure, Inc. Ural Yal							
REQUEST: Reference Specification Section 01 13 50 and Treadwell & Rollo site maps (attached)		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Treadwell and Rollo response-			



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 204 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
	BBII needs the soil classification listed and mapped for the lot between Natoma Street and Howard Street, and between Gridline A to Gridline 10. Please see the attached Treadwell & Rollo's Site Mitigation Map of the Soil Classification for the area in question.				"See attached site plan, figure 1. Where encountered, up to 4' of State of California hazardous waste exists."		
<hr/>							
T-0251	BSE - Drawings To Coordinate Trestle Pile Locations	Closed	10/13/2011	10/23/2011	10/14/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture Masashi Kojima To: Turner Construction Compan Gary Krutsch			Answered By:Turner Construction Comp Kevin Chiu				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
During the 10/12/11 trestle submittal review meeting, statements were repeatedly made with regard to incrementally complete underground drawings in which to coordinate trestle pile locations. As of 10/13/11, W/O has not received any future package documents accompanied with the direction to coordinate with the TG03 documents. If such documents are available please make available the entire series to include, however not limited to, A, S, M, E, & P.				The question being asked is unclear. Please rephrase the question and resubmit the RFI.			
<hr/>							
T-0251.1	BSE - Drawings To Coordinate Trestle Pile Locations	Closed	10/14/2011	10/24/2011	11/03/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture Nhi Tran To: Turner Construction Compan Gary Krutsch			Answered By:Adamson Associates, Inc George Metzger				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
RFI T-0251 original inquiry: During the 10/12/11 trestle submittal review meeting, statements were repeatedly made with regard to incrementally complete underground drawings in which to coordinate trestle pile locations. As of 10/13/11, W/O has not received any future package documents accompanied with the direction to coordinate with the TG03 documents. If such documents are available please make available the entire series to include, however not limited to, A, S, M, E, & P.				Thornton Tomasetti Reply: "See attached PDF files SKS-0130 through SKS-0137 for exclusion zones for trestle and pin pile locations, per requested additional TT review. W/O to review for constructability. Submit updated pile locations for review. Note:			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 205 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>	
	<p>RFI T-0251.1 Clarification to RFI T-0251: The TG03 package was executed with limited documents in which to coordinate future packages with. Please provide all documents the TJPA requests BBII coordinate the TG03 package with and to.</p> <p>As it pertains to structural columns (round/pill/rectangle/ect.) please provide the minimum clear distance to trestle pile penetrations in the mat slab so BBII may coordinate.</p> <p>Should there remain any ambiguity in the inquiry above please indicate the nature of misunderstanding.</p>			<p>Penetrations through the Mat slab shall not intersect the hatched zones in the attached sketches. Note hatched zones at and near columns and at side walls.</p> <p>Any Lower Concourse level penetrations within 3'-0" on either side of primary column lines (e.g. 1.4, 2, ..., 35, V, W, X) will impact construction of primary concrete moment frame beam elements; coordinate with W/O. Block outs in moment frame beams shall not encroach into the hatched zones in the attached sketches.</p> <p>Coordinate interruptions of lower concourse slabs and secondary framing beam elements with W/O.</p> <p>24" Diameter columns located 21'-3" west of GL 23 and 21'-3" east of GL 23 along GL D.8 and E.2, extending between mat level and lower concourse level.</p> <p>Verify construction sequence of Light Column at GL 23 in relation to cross lot bracing and re-bracing; coordinate with W/O.</p> <p>Penetrations that interrupt Mat reinforcement shall not be placed closer than 3xDia clear spacing between penetrations, with Dia = larger diameter of two adjacent penetrations. Penetrations are those causing interruptions of mat reinforcement in the structure in its final condition. Note especially conflict between pin pile 22 and trestle pile 107 (GL 9), trestle piles 18 and 103 (GL 10), and temporary bridge piers close to pin piles 13 and 14 (GL 34)."</p> <p>Adamson Associates Note: "The additional A, S, and MEP documents you requested are currently in design progress and the information is not available at this time."</p>				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 206 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Turner Construction Compan Gary Krutsch

Adamson Associates, Inc George Metzger

Co-Author:

#### REQUEST:

On 11/3/11 W/O was informed by PMPC during an Access Trestle Criteria Discussion meeting with URS and W/O that PMPC will request Thornton Tomasetti to provide "no pine pile zone" sketches for the Lower Concourse Level similar to the Sketches provided through RFI T- 251.1 response. Also, PMPC is requesting Thornton Tomasetti to provide criteria of concrete connection details around pin piles/trestle piles for the future Below Grade Concrete Package.

Please confirm.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

TT Response:

The response to RFI T-0251.1 and the associated sketches included criteria for Lower Concourse. As stated in the response, BBII is to coordinate the Lower Concourse framing elements with Webcor. Although the block out at the lower concourse level is a means and methods issue, TT further clarifies the implication of the block out if it affects the primary moment frames along the column grids as noted below:

The primary moment frame girders at the Lower Concourse level are to act as a brace when the Second level braces are removed as shown in the GT drawings. If a complete moment frame girder is not poured due to conflict with the trestle piles, those bracing elements immediately adjacent to that girder will need to remain in place until the blocked-out beam is re-cast and reaches its design strength. Alternatively, BBII shall establish another method of temporary bracing and submit for review.

Concrete connection details around pin piles/trestle piles are included in the Below Grade Package.

T-0251.3	BSE - Drawings To Coordinate Trestle Pile Locations - "No Pin Pile Zone" at Lower Concourse	Closed	11/28/2011	12/08/2011	12/13/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Nhi Tran	To:	Adamson Associates, Inc.	George Metzger	Answered By:	Webcor Construction LP David Fields

Co-Author:

#### REQUEST:

Reference RFI #T-0251.2

So W/O may coordinate as requested in RFI response T-0251.2 please provide a drawing that depicts the column configurations, dimensions, and minimum clearance requirements, for both the platform and concourse levels. This information is required to locate trestle piles and internal bracing struts.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

See attached SKS-0138 through SKS-0178 (41 total) for requested information. Note that these sketches are in progress, for reference only, and subject to change. Refer to RFI T-0263 response regarding minimum clearance requirements.

T-0252	BSE - Buttress Rebar Cage Length Adjustment	Closed	10/19/2011	10/29/2011	10/24/2011	Potentially	<input type="checkbox"/>
--------	---	--------	------------	------------	------------	-------------	--------------------------



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>To:</b> Turner Construction Company      Gary Krutsch		<b>Answered By:</b> Adamson Associates, Inc      George Metzger		
<b>REQUEST:</b> Reference RFI #T-0216, #T-0239, Sheet GT-2201, Specification Section 31 63 29, and attached sketch  Per the response to RFI T-0239, BBII needs to extend the length of rebar cages to accommodate buttress shafts that are deeper than 240'. The exact length of the rebar cage cannot be known until the drilling of the adjacent shaft. Due to this uncertainty, and the long lead time required to fabricate cages with varying lengths, BBII proposes to fabricate all rebar cages to a pre-extended length of 260'.  Once the depth of the adjacent shaft is known, the final length of the rebar cage will be adjusted by cutting the top of the rebar cage and the CSL tubes to the desired length. The length of the bottom "structural cage" section that consists of 24 Ea. vertical rebars will remain unchanged at 186'. The length of the top "setting cage" section that consists of 8 Ea. vertical rebars will be adjusted as described above. Please refer to the attached documents and the original shop drawings for the "structural cage" and the "setting cage" details.  BBII proposes to accommodate this change at no additional cost to TJPA beyond the bid item quantity payment per drilled shaft lengths.  Please advise, if it is acceptable.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> ARUP Response:  The proposal is acceptable with the following notes. Detail 12/GT-5201 requires the reinforcing steel to be placed up to 1'-0" below the top of the concrete. The top of concrete is shown on GT-5201. Longitudinal bar extensions shall be spliced as needed to achieve this (as noted on the sketch; attached). If the top of the fabricated cage is within 3'-0" of the top of the concrete, no bar extensions are required.  The 24" tie spacing shown on the shop drawings at the setting cage (Drawing SC1) is acceptable at the bar extensions.		

<b>T-0253</b>	<b>BSE - Trestle Design Criteria Confirmation</b>	<b>Closed</b>	<b>10/19/2011</b>	<b>10/29/2011</b>	<b>11/01/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>To:</b> Turner Construction Company      Gary Krutsch		<b>Answered By:</b> Turner Construction Company      Kevin Chiu		
<b>REQUEST:</b> Reference Attachment 3 of Exhibit A of the TG03 Bid Package and attached memo from PB&A  Pursuant to the trestle design meeting held on October 12, 2011, Balfour Beatty Infrastructure Inc.' (BBII) requests clarification regarding their interpreted design criteria of the Temporary Access Trestle  As the only Contract document regarding the Trestle,			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> PMPC response per Roger Rothenburger, 11/01/11:  "1. The RFI process is not the appropriate venue to "review the provided information and confirm whether or not BBII's design criteria is appropriate." The RFI requested at the October 12, 2011 meeting was to request clarifying instructions to specific perceptions of conflict between Exhibit A - Attachment 3 and Specification Section 01-53-13 (Temporary Bridges)		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
 30100 - Transbay Transit Center Project





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

compatible with the allowable strut deflections (approximately 2"). As a result the "push over" analysis as required by the AASHTO Seismic Design Criteria "SDC" (requirement of bridge spec 01 53 13) is not applicable. This was discussed in detail during the 11/16 meeting and it was concurred that due to unique structural configuration and deflection requirements, an alternate analysis method other than the SDC would be required. Discussions were had that a site specific elastic analysis using the 475 year seismic loads that is controlled by the deflection limits of the cross lot bracing would be necessary. Please confirm that a "push over" type analysis of SDC will not be required for the trestle and that the attached detailed Design Criteria (and analysis method) is acceptable.

(W/O added clarification)  
BBII believes the site specific analysis would demonstrate the trestle substructure will not deform greater than 2" however the trestle superstructure will deform greater than 2".

corresponding to a ductility demand requiring R=2), then a pushover analysis is not necessary to verify performance. If there are questions raised regarding if this is sufficient, then the response could be demonstration that the system remains fully stable without connection or member failures at a load level corresponding to the deterministic earthquake load corresponding to the maximum event capable of being delivered by the earthquake fault system at the project location. If the design presented is in accordance with the above, then URS would be able to assist with technical engineering discussions to validate this design approach to the City of San Francisco during the building permitting process.

Further clarification: The procurement specification requires an integrated model capturing interaction between the Cross Lot Bracing and the Access Trestle, note the Cross Lot Bracing is not a component against which the trestle reacts but the Cross Slot Bracing delivers load to the Access Trestle. This behavior must be captured with sufficient accuracy and within all project criteria.

If another alternative is proposed that meets all required design criteria at all structure elements, including contractor teams identified maximum allowable deflection of 2 at the Cross Lot Bracing, URS takes no objection to the contractor pursuing this potential design alternative.

<b>T-0254</b>	<b>BSE - Modified CDSM Installation Plan for Verizon Lines at First St.</b>	<b>Closed</b>	<b>10/20/2011</b>	<b>10/30/2011</b>	<b>11/01/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Gary Kruttsch	<b>Answered By:</b> Adamson Associates, Inc George Metzger			

**Co-Author:****REQUEST:**

Reference Specification Section 31 56 13 and attached sketches from PMPC

W/O received the modified CDSM Installation plan for

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

ARUP Response:

The minimum overlap of columns and panels defined in specification section 31 56 13 shall be satisfied full



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 210 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Verizon lines at First St. without the relocation of the lines from PMPC as the attached. Please confirm the plan is acceptable for CDSM Shoring Wall Designer (ARUP).			depth on each side of the obstruction.  The Contractor's means and methods, e.g., rig type, lowering the Verizon lines and protecting the Verizon lines, have not been reviewed as this is the Contractor's responsibility.  Since the RFI was submitted by the Contractor, we assume that the subcontractor doing the work, DND, has reviewed and approved the proposed methodology, including the "Plate Sealing Detail".  The efficacy the "Plate Sealing Detail" will need to be demonstrated in the field. If used, the plate should be applied to the excavation - face of the steel beam flange rather than behind the flange and removed when it is time to apply the permanent waterproofing.			
T-0255	BSE - Verizon Spacing Requirement on First Street (Phase 2 Utility Installation)	Closed	10/21/2011	10/31/2011	10/31/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Gary Krutsch			Answered By: AECOM Technical Service Eric Zagol				
Co-Author: Balfour Beatty Infrastructure, Inc.      Ural Yal							
REQUEST:		SUGGESTION:	ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Reference			Verizon has prepared preliminary design drawings for their Phase II work and is in the process of coordinating with PG&E.				
BBII have commenced the PG&E Phase 2 installation on First Street, in order to co-ordinate the PG&E utility locations and the future Verizon phase 2 utility indicated on the attached drawing. The attached drawing was issue to BBII in the field, please confirm this drawing has been co-ordinated with the PG&E construction drawings.			As indicated on RUP Sheet U-4005, the intent of the Phase II utility relocations is such that utilities of different proprietor are to be separated by 1' min.				
BBII require the following: - Provide a profile/section drawing indicating accurate clearances between PG&E and Verizon, - Include (Verizon) Trench dimensions, on First Street for the phase 2 installation. - Site meeting with Verizon representative to discuss Verizon configuration.			Coordinate with TJPA's Field Representative (Turner) to arrange a site meeting with Verizon to discuss Verizon's configuration.				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 211 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0256	BSE - CR T-018 Design Omissions	Closed	10/21/2011	10/31/2011	11/03/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Masashi Kojima <b>To:</b> Turner Construction Company      Gary Krutsch			<b>Answered By:</b> Turner Construction Company      Jack Adams				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference CR T-018  Neither the original albeit incomplete CR T-018 dated 9/21/11 or the flurry of subsequent email clarifications furnished the following design omissions required to complete the CR T-018: 1. Emergency egress signage requirements? 2. Lighting: Location, lumen, schedule, and if emergency lighting is required? 3. Gates & crash bar requirements? 4. Although the driveway design was not provided until 10/20/11, no dimensions were provided and there are proximity conflict(s) with the fire hydrant relative to the vent & DI.  Please provide and or remove from scope so the contractor may complete the work.			<b>SUGGESTION:</b>				
			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> 1. Emergency egress signage is not required by Contractor.  2. Lighting: Relocate the two portable street lights installed under EBI contract and connected overhead to the Streetlight circuit on Natoma as shown on EBI demolition drawing D-1084 (NOTE This circuiting was approved by BLHP (Robert Kawano and Roman Muros BLHP 415 - 554-1688. Light #1 install midway along the north south K Rail fence @ 540 Howard. Light #2 install midway of K Rail fence at 580 Howard. Owners of both properties have installed lighting at their exit doors.  3. Gates and Crashbars are no required at this time - install 10 foot saw horse barricade with signage Private Property - No Trespassing.  4. Driveway curb cut for 540 Howard will be 12 feet wide, with the centerline placed midpoint between the Fire Hydrant and sidewalk fresh air vent. Curb cut per DPW standard.				

T-0257	BSE - Request to Sonic Caliper 20 feet from Projected Bottom of Rock Socket	Closed	10/24/2011	11/03/2011	10/31/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Company      Gary Krutsch			<b>Answered By:</b> Turner Construction Company      Kevin Chiu				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Please address the following information request from BBII's sub contractor Becho Inc.:  "... Becho would like to start performing Sonic Caliper analyses within 20 feet of the projected final bottom elevation of the shaft(s) to expedite the "Drill, Place, Pour" process. In order to continue the Buttress Drilling Operation without interruptions, Becho would like to utilize the hours between 1am - 6am to perform the Sonic Caliper test. For example, if Becho anticipates the completion of shaft at 10am, it would be beneficial to perform the Sonic Caliper test during the hours of 1am - 6am. This allows crews to prep, setup and perform the airlift process without having to wait for Becho engineers			<b>SUGGESTION:</b>				
			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> George Metzger's response is limited to the first sentence of this RFI which states, "... Becho would like to start performing Sonic Caliper analyses within 20 feet of the projected final bottom elevation of the shaft(s) to expedite the "Drill, Place, Pour" process." Acceptance of permissible work activities between 1am-6am will come in the form of a TJPA Night Noise Permit. Please be sure to include the proposed work activity on the Night Noise Permit application.  ----- ----- 10/27/2011 - George Metzger				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>to test the shaft(s) during normal hours of operation, thus expediting the "Drill, Place, Pour" process.</p> <p>Please advise, if it is acceptable.</p>						
			Arup Response:				
			This is acceptable.				
<b>T-0258</b>	<b>BSE - Demolition Status of Pile Cap at GL 33.5</b>	<b>Closed</b>	<b>10/27/2011</b>	<b>11/06/2011</b>	<b>12/09/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Nhi Tran	<b>To:</b> Turner Construction Compan	<b>Answered By:</b> Turner Construction Comp Kevin Chiu				
	<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal						
	<b>REQUEST:</b> Reference Sheet D-2213 (attached) and Specification Section 02 41 19	<b>SUGGESTION:</b>	<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>			
	<p>The underlined sections of Notes A and B state that pile caps have already been removed. This area clearly includes the pile cap at GL 33.5.</p> <p>However, Note C implies that the pile cap at GL 33.5 was not removed.</p> <p>Please confirm that the existing pile caps have already been removed within the "triangle" line boundary shown on drawing D-2213.</p>		<p>Existing pile caps at GL 33.5 have not been removed. CR to follow</p>				
<b>T-0259</b>	<b>BSE - Request for approval of alternate backfill compaction inspection method</b>	<b>Closed</b>	<b>10/31/2011</b>	<b>11/08/2011</b>	<b>12/01/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Masashi Kojima	<b>To:</b> Turner Construction Compan	<b>Answered By:</b> Turner Construction Comp Kevin Chiu				
	<b>Co-Author:</b>						
	<b>REQUEST:</b> Reference Specification Section 32 12 17	<b>SUGGESTION:</b>	<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>			
	<p>With regard to the areas of non-conforming backfill compaction inspection i.e. FCR #TCB-00246: In lieu of contemporaneous compaction inspection by ISI, BBII has proposed the methodology described in attached letter #4225-000-00238. Please confirm the alternate methodology, assuming acceptable results, would suffice to meet the contract requirements.</p>		<p>The proposed methodology will be evaluated pending receipt of the test results.</p> <p>Submit test results for review and evaluation.</p>				

<b>T-0260.1</b>	<b>BSE - D.I. Installation at Natoma Street and First Street</b>	<b>Closed</b>	<b>11/28/2011</b>	<b>12/08/2011</b>	<b>12/02/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Gary Krutsch	<b>Answered By:</b> Turner Construction Company Kevin Chiu			
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.	Ural Yal						
<b>REQUEST:</b>	<b>SUGGESTION:</b>		<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>			
Reference RFI #T-0260 and Sheet U-3012 (attached)			The contractor shall control storm water in accordance with specification 01 15 61 and approved submittals.				
RFI response T-0260 does not address the issue request							



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 214 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>information, to resolve the surface water from outside the BSE project. BBII recommend a catch basin should be installed at the corner of Natoma and First Street, as part of BBII storm water control. The catch basin will need to be installed at the low point of Natoma Street, across from CB #305.</p> <p>BBII request confirmation and approval to install a catch basin at the above location. Also confirm the lateral from the new catch basin can discharge directly into SSMH#305.</p>						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 215 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>T-0262</b>	<b>BSE - CAD File for trestle/pin pile exclusion zones</b>	<b>Closed</b>	<b>11/09/2011</b>	<b>11/19/2011</b>	<b>11/17/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0251.1 and Specification Section 01 53 13  The response to RFI T-0251.1 included a set of sketches showing hatched "exclusion zones" where trestle/pin pile placement is not allowed. Please provide the CAD file for these sketches for BBII use in coordinating pile locations.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
			TT Reply:		See attached for requested CAD file for RFI No. T-0262.		
<b>T-0263</b>	<b>BSE - Strut Conflicts to Thornton Tomasetti's comments on the approved Internal</b>	<b>Closed</b>	<b>11/09/2011</b>	<b>11/19/2011</b>	<b>11/17/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference RFI #T-0251.1 and Transmittal No. 140-02329  Subsequent to W/O's receipt of an approved 100% internal bracing submittal and procurement, Thornton Tomasetti's comments in the plans transmitted via Transmittal #140-02329 added both columns & dimensions and revised column configurations relative to the location of the internal bracing struts not otherwise included in the base contract BSE documents. So as W/O may accurately coordinate strut locations in order to mitigate conflicts, please provide the minimum allowable dimension from column to strut.			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
					TT's response to RFI No. T-0263:  This is a means and methods topic. GC to coordinate clearance requirements.		
<b>T-0264</b>	<b>BSE - Bridge / Trestle Piles in Exclusion Zones</b>	<b>Closed</b>	<b>11/09/2011</b>	<b>11/19/2011</b>	<b>11/18/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch			<b>Answered By:</b> Adamson Associates, Inc   George Metzger				
<b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal							
<b>REQUEST:</b> Reference RFI#T-0251.1 and Specification Section 01 53 13  BBII is in receipt of the drawings included in RFI T-251.1 that illustrate trestle pile "exclusion zones" where piles cannot penetrate the mat slab. Of the 24 piles that are			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
					See the attached TT response.		









# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 217 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

the pile in the current location was unacceptable.  
Please confirm that the pile must be moved and provide a detailed location of where the pile placement would be accepted.  
Upon receipt of this information BBII can accurately determine the load to placed on the Wall for Arup's review.

<b>T-0265</b>	<b>BSE - TG03 BSE CDSM Cut-off Wall</b>	<b>Closed</b>	<b>11/09/2011</b>	<b>11/19/2011</b>	<b>11/17/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Adamson Associates, Inc George Metzger			

**Co-Author:**

**REQUEST:**

Reference Drawings GT-2102, GT-2103, QBD TG0300-0098

Balfour Beatty Infrastructure, Inc. (BBII) is planning to start dewatering and excavation without installing cut-off walls and sectionalized dewatering. According to the response for QBD TG0300-0098, BBII can eliminate cut-off walls as their means and methods although contract drawings/specifications indicate cut-off walls. Please confirm.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

ARUP Response:

These cut-off walls were shown on the drawings at the request of the Contractor during preconstruction review. The installation of these, or not, is at the discretion of the Contractor.

Arup has not yet received the dewatering submittal for the mass excavation.

<b>T-0266</b>	<b>BSE - Moratorium Conflict With Phase 2 Utilities In 1st Street</b>	<b>Closed</b>	<b>11/23/2011</b>	<b>11/23/2011</b>	<b>12/06/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Manuel Saldana	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Turner Construction Comp Jack Adams			

**Co-Author:** Balfour Beatty Infrastructure, Inc. Jeff Molloy

**REQUEST:**

BBII is in receipt of the moratorium waiver expire date of 12-09-2011. BBII/PEC will not be able to complete the Phase II utility work by 12/9/11 without accelerating the schedule. Our original request for extension was December 19, 2011. A 12/9/11 completion date may be achievable if PEC is allowed to work 10 hr shifts during the day beginning 11/28 through 12/2 as well as working on 12/3 and 12/4. In addition, we propose to have a separate night crew to work near / around the Minna Street

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Holiday Moratorium waiver is extended to 12/21/11 by SFMTA. BBII/PEC work can continue on day shift Monday-Friday in accord with SFMTA Special Traffic Permit 11-7786 issued on 12/2/11.



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 218 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

intersection to alleviate impacts to heavy demand of day traffic. The majority, if not all, of the demolition can occur during the dday to mitigate noise at night. The night work would need to begin on 11/28 and run through 12/2. Please keep in mind that implenting an accelerated schedule may also impact PG&E. We have no control over their work and the completion of the utility tie-ins and Mandral testing is contingent on PG&E's availability per the new adjusted completion date.

In summary we are requesting direction for the following items to meet the 12/9/11 moratorium deadline:

- 1) W/O to permit BBII / PEC to work the extended hours, and night shift i.e. 10 Hours Days and Night work operations,
- 2) Permit from MTA to extend working hours (closure times) during the day
- 3) Permit from MTA and DPW to work at night within lane closures
- 4) Permit from TJPA to work in Zones 1 & 2 at night
- 5) Agreement / Approval for compensation of additional cost (premium time and or shift rate) BBII will have magnitude of cost for the Monday morning discussion

We respectively request a meeting with W/O on Monday morning (11-28-2011) to discuss direction regarding the above items.

<b>T-0269</b>	<b>BSE - Mass Excavation Pile Extraction Clarification</b>	<b>Closed</b>	<b>12/13/2011</b>	<b>12/23/2011</b>	<b>12/27/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Fields	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Adamson Associates, Inc George Metzger			

**Co-Author:** Balfour Beatty Infrastructure, Inc. Dean Wallahan

**REQUEST:**

Reference: 31 00 00 1.4 C.2 and Attached Sketch

31 00 00 1.4.C.2 Pile Extraction - To occur in two (2) stages per Zone.

Stage 1 extraction will remove the piles within the footprint of the trestle the middle 60' of the work zone, dewatering wells and piles that are in conflict with the bracing pin pile locations. Piles will be removed using a non ground deformation control method

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

ARUP Response:

The method described is not in accordance with the Contract Documents which require the existing piles to be removed using Ground Deformation Control Methods (as defined in 02 41 19) except where Non-Ground Deformation Control Methods are allowed and



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	<p>and be removed full length to be utilized for offsite LEED projects and to help achieve sustainability for this material.</p> <p>Trestle piles will be installed after Stage 1 pile extraction and concurrently with Stage 2 pile extraction.</p> <p>Stage 2 extraction will remove the piles within the 50' +/- area adjacent to the CDSM walls along A and J lines. Piles will be extracted using a ground deformation control method as per Section 02 41 19 - 3.1.B of the specifications utilizing both casing and backfilling of the void or removal by means of cutting the pile off at the grade of each level of excavation as the work proceeds. Please reference the attached drawing for details of the above procedure.</p> <p>The 80 Natoma shoring wall will be removed in stages coinciding with the stages of excavation.</p> <p>Please confirm this method of pile extraction during mass excavation is acceptable.</p>						<p>noted as such on the drawings.</p> <p>The method described is acceptable with the following notes: this is acceptable for timber piles only, and if they are longer than 30 feet, Arup may re-evaluate the methods used. If the density of existing piles exceeds 30 piles per 1000 square feet, Arup may re-evaluate the methods used. If excessive ground movements are observed, the Contractor shall switch to using a Ground Deformation Control Method.</p>
T-0269.1	BSE - Zone 2 Free Pull Pile Extraction Test Section	Closed	01/25/2012	02/04/2012	02/07/2012	Potentially	<input type="checkbox"/>
From: Balfour Beatty Infrastructure, Inc. Shad Gardner		To: Turner Construction Company Gary Krutsch		Answered By: Adamson Associates, Inc. George Metzger			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
<p>BBII are proposing to perform "free pull" pile extraction on a 'test section' in Zone 2. The proposed piles will be extracted near GL14, close to CDSM wall on the south side using a 'non ground deformation control method' by free pulling each pile without using steel casing. Any movement that may occur in the CDSM wall will be monitored by the inclinometer located close to GL 14. This test section will give us give us the information we need to determine:</p> <p>1) If free pulling the piles using a non ground deformation control method affects the CDSM wall by causing movement.</p>				<p>ARUP Response:</p> <p>Contractor to provide details of the instrumentation that will be installed by the Contractor to demonstrate compliance with Minimal Ground Loss defined in 02 41 19 3.2 G.</p> <p>Arup's response to RFI 269 continues to be our position regarding pile removal during mass</p>			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 220 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Reference: DD-2211  W/O Note: W/O understands this RFI is the result of ongoing conversations between BBII, ARUP, & PMPC. W/O remains concerned that should the CDSM wall experience movement, the use of the 'Free Pull' method beneath or outside the trestle area, would significantly increase the difficulty in determining the cause of the CDSM wall movement. 2) If it is a suitable method to adopt for removing the remainder of the piles in Zone 2 located outside the trestle area. The attached drawing (D-2211) conveys the test section in red. Please advise on the suitability of this test to determine if free pulling can be used outside the trestle zone.		excavation				
T-0270	<b>BSE - Clarification for Existing Ground Water Elevation</b>  <b>From:</b> Webcor Construction LP      David Fields <b>To:</b> Arup  <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Jeff Molloy	<b>Closed</b>  Kevin Clinch	<b>12/28/2011</b>	<b>01/07/2012</b>	<b>12/30/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
	<b>REQUEST:</b> Reference: 31-23-29 and Attached Document  As discussed during the meeting on 12/22/11, to help obtain an accurate dewatering model, BBII is requesting the recent piezometer data for Zones 1 and 2. In addition, BBII has reviewed the data for piezometers 1182, 1229 and 1255 located adjacent to 301 Mission St (see attachment) and would like to clarify the initial ground water level to use in the model for Zone 4. Based on our review, the existing natural groundwater condition fluctuates between 1.6 E.L and -8.1 E.L in this area. BBII would like to agree upon a starting groundwater elevation of -5.0 E.L for Zone 4. Also, BBII would like clarification as to the base groundwater level to use for Zones 1, 2 and 3 based on the project data.	<b>SUGGESTION:</b>	<b>ANSWER:</b> ARUP Response:  Available piezometer data for zone 1 and 2 has been recently transmitted through an email to Turner dated 12/28/2011.  The baseline water level for piezo P-06F (aka 1262) is +1.6 ft NAVD88.  The baseline water level for piezo P-06MS (aka 1182) is +1.1 ft NAVD88.  The baseline water level for piezo P-07MS (aka 1229) is +1.0 ft NAVD88.  Additional baseline data will need to be collected in the piezometers in Zone 1 and 2 prior to establishing a baseline datum.	<b>Answered By:</b> Adamson Associates, Inc      George Metzger	<b>Accept Suggestion:</b> <input type="checkbox"/>		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 221 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
T-0271	BSE - CRT-021 Gate Fence Clarifications	Closed	01/05/2012	01/05/2012	01/10/2012	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP                      David Fields		<b>To:</b> Turner Construction Compan   Gwynne Powell		<b>Answered By:</b> Turner Construction Comp Jack Adams			
<b>Co-Author:</b> Turner Construction Company                      Jack Adams							
<b>REQUEST:</b> In regards to the Proposed Driveway shown on the CRT#021 drawing and outlined in Bullets #1 and #2 in the Scope of Work, please clarify the following:  -Per the location of the 18ft Gate, a 10ft fence would need to be constructed to connect the existing 9ft tall fence to the Proposed Driveway gate location (see 1/4/12 Photo attached). Please confirm the 10ft fence should be included in this CRT-021. -Should the 24'-10" section of the existing 6ft tall fence (see 1/4/12 Photo attached) be replaced?  Confirm Howard St shown on the CRT#021 attached drawing should read "Folsom St"  Confirm that Bullet #3 under the "Scope of Work" refers to Gate #1 in the CRT#021 attached drawing.		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Proposed Driveway, Gate and Fence shown on the CRT#021 drawing:  -Not Confirmed. The location of new gate and curb cut is where the Contractor is currently driving trucks and equipment over city sidewalk and curb north of this light pole. Contractor has misinterpreted the locations of curb cut and gate provided by TJPA. The location of proposed driveway curb cut and new gate is to be north of existing light pole as shown - dimensions were provided only as guidance.  - Confirmed the added fence cost should be included in this CR T-021. Contractor to add small section of fence as required to install new gate (fence added both north and south side of gate). Fence can be nine foot and align with top of existing Parcel P'-P" fence and/or step down to align with existing 6 foot fence. Note: green slats are to be eliminated at both gate and fence in this area to assist Truck Drivers and pedestrian vision.  -Not Confirmed. Section of the existing 6ft tall fence up to AC Transit Fence corner is acceptable as is.  - Confirmed. "Howard St" shown on the CRT#021 attached drawing should read "Folsom St" .  - Confirmed. Bullet #3 under the "Scope of Work" refers to "Current Driveway" Gate #1 in the CRT#021 attached drawing			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 222 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-0272	BSE - D1 Casing Recovery Inquiries	Closed	01/27/2012	02/02/2012	01/27/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Joanne Filipas	To: Turner Construction Compan		Gary Krutsch	Answered By:Arup	
Kevin Clinch							
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
BBII is requesting the following to complete its D1 casing retrieval plan:				NOTE: Void. Answered in RFI T-0272.1			
1. Condition specific engineering calculations to mitigate earth and water heave from the bottom of the casing.				ARUP Response:			
2. Condition specific engineering calculations to substantiate no casing buckling.				Arup is in receipt of the Contractor's Buttress Shaft D1 Casing Retrieval Plan (Constructware Transmittal item 140-03134). Designing and executing the plan to retrieve the casing is the Contractor's responsibility. The Contractor shall provide calculations for Arup to review which demonstrate that the method does not lead to ground loss beneath and around the casing. Arup will not provide calculations in support of the Contractor's plan.			
3. Condition specific plan engineering calculations for dewatering, specifically expected water quantity.				1. Arup cannot comment without a more complete plan that includes the methodology by which they intend to retrieve the casing. The plan should include, but not be limited to, the current height and composition of the soil plug in the shaft, the planned height and composition of the soil plug during the retrieval process, the depth of maximum dewatering, the method by which the shaft will be backfilled upon retrieval of the casing, and the measures they will take to monitor heave at the plug.			
Note - This RFI is high priority and an expedited review/response is necessary.				2. Arup will not perform these calculations. The Plan (Constructware Transmittal item 140-03134) states that calculations are being prepared.			
				3. Refer to response to question 1.			
				Answered by Kevin Clinch (ARUP) 01/27/2012			

T-0272.1	BSE - D1 Casing Recovery Inquiries		Closed	01/27/2012	02/06/2012	01/27/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Kirk Nielsen	To: Arup	Kevin Clinch		Answered By:Arup		Kevin Clinch
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		
BBII is requesting the following to complete its D1 casing retrieval plan:						Accept Suggestion: <input type="checkbox"/>		
1. Condition specific engineering calculations to mitigate						ARUP Response:		
						Arup is in receipt of the Contractor's Buttress Shaft D1		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 223 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	earth and water heave from the bottom of the casing. 2. Condition specific engineering calculations to substantiate no casing buckling. 3. Condition specific plan engineering calculations for dewatering, specifically expected water quantity.  Note - This RFI is high priority and an expedited review/response is necessary.						
					Casing Retrieval Plan (Constructware Transmittal item 140-03134). Designing and executing the plan to retrieve the casing is the Contractor's responsibility. The Contractor shall provide calculations for Arup to review which demonstrate that the method does not lead to ground loss beneath and around the casing. Arup will not provide calculations in support of the Contractor's plan.  1. Arup cannot comment without a more complete plan that includes the methodology by which they intend to retrieve the casing. The plan should include, but not be limited to, the current height and composition of the soil plug in the shaft, the planned height and composition of the soil plug during the retrieval process, the depth of maximum dewatering, the method by which the shaft will be backfilled upon retrieval of the casing, and the measures they will take to monitor heave at the plug.  2. Arup will not perform these calculations. The Plan (Constructware Transmittal item 140-03134) states that calculations are being prepared.  3. Refer to response to question 1.  Answered by Kevin Clinch (ARUP) 01/27/2012		

T-0273	BSE - Clarification for Driveway Desgin at 540 Howard CR -018R2			Closed	01/30/2012	02/09/2012	02/06/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Fields	To: Turner Construction Compan		Gary Krutsch				
Co-Author:			Answered By:Turner Construction Comp Gary Krutsch						
REQUEST:		SUGGESTION:			ANSWER: Accept Suggestion: <input type="checkbox"/>				
Reference: Attached BBI Sketch CRT-018RI directs BBII to complete a 12ft driveway at the 540 Howard Street. The existing conditions/location of the curb, USPS facilities and water fire hydrant prevents the driveway from being installed within compliance with the DPW and ADA standards. DPW/Tumer/W/0 and BBII discussed various solutions to					Per Alberto Herrera of DPW, Mike Pavich of BSM, and Pete Arnautoff of BFP, the proposed modification is acceptable. See (2) linked documents for the full breadth of their responses.				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 224 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>bring the driveway into confrmance with ADA and DPW standards at the field meeting held on January 17th 2012 and again 01/24//2012. Pursuant to the field meeting and direction of CRT-018R2, BBII is requesting detailed plans to allow for construction of a compliant driveway at 540 Howard Street. BBII has been directed in the field by W /O/Tumer, to complete modification to the driveway at 540 Howard Street. Per our field meeting please refer to the attached drawing, indicating BBII understanding on the modifications required. Please confirm the modification per the attached drawing is compliant with City and ADA driveway standards.</div>							
T-0274	BSE - Conflict between CDSM & Dewatering specification	Closed	02/10/2012	02/20/2012	02/16/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Kirk Nielsen		To: Turner Construction Compan   Gary Krutsch	Answered By:Arup		Kevin Clinch		
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Section 31 56 13.3.12.F.1 states "The performance of the shoring wall shall be such that the groundwater levels around the excavation are maintained within (3.0) feet from the pre-excavation levels." The section further states "In the event the water levels begin to drop below the specified limit, the Contractor shall be responsible to implement appropriate measures to control groundwater levels within the specified limits."			ARUP Response:				
Section 31 23 19.1.5.B.10 states "Include description of emergency procedures to follow when system failure or other problems arise."			Recharging wells may be used at the Contractor's discretion pending Arup's review of the well details.				
In the event the CDSM wall fails to mitigate the effects of the dewatering within the excavation should not previously drilled recharge wells be ready to recharge the affected area outside the excavation?			These wells shall be at no additional cost to the TJPA				
T-0275	BSE - Request for relief from 1" deep dimension of CDSM cavities	Closed	02/15/2012	02/25/2012	02/16/2012	Potentially	<input type="checkbox"/>







Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 226 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>superplasticizer are intended for slump ranges between 9" and 12," however, project specifications require an 8" +/- 1" slump. Unfortunately, the addition of the superplasticizer has made it difficult to achieve slump as specified. BBII and Central Concrete are requesting an 8" + 1" - 2" slump (giving a range of 6" to 9") in lieu of the specified 8" +/- 1". There will be no adverse effect to the strength as slump is achieved through chemical admixtures and not by adding water. Please advise.</div>							
T-0277	BSE - Request for Buttress Shaft Design Documentation	Closed	02/16/2012	02/26/2012	02/23/2012	Potentially	<input type="checkbox"/>
From: Balfour Beatty Infrastructure, Inc. Emre Erzen		To: Turner Construction Company Gary Krutsch	Answered By: Turner Construction Company Gary Krutsch				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/>				
Please address the following information request from BBII's sub contractor Becho Inc.: " ... Becho requests to obtain all and any documentation used in the design of the Buttress Shafts. Documentation should include, but is not limited to, submitted and approved calculations, sketches, preliminary designs and calculations, conceptual drawings, all site investigation, and all other work documents and work papers that were utilized to develop the buttress shaft design in addition to what's provided in the contract documents and specifications. "  Please advise, if it is acceptable.			The request for documents contained in this RFI is rejected as overly broad, burdensome and seemingly unrelated to any legitimate enquiry relating to the contract or the required work. This is not the proper use of an RFI.				
T-0278	BSE - Access Trestle Bump Out Coordination	Closed	02/16/2012	02/26/2012	02/24/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Fields		To: Turner Construction Company Gary Krutsch	Answered By: Arup Kevin Clinch				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/>				
Reference: Attached BII Sketch Due to the deletion of the "Natoma Finger" portion of the access trustle BBII is proposing to install additional "bump outs" (per the attached sketch). For coordination purposes, please provide "no fly" zone information for			Arup understands that the design team's response to RFI-251.1 shows the "no-fly-zones". Contractor shall refer to the RFI-251.1 response for this information. Regarding the addition of the "bumpouts", Arup will review the geotechnical aspects of the revised design				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 227 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	these locations.						when they are submitted.
<b>T-0279</b>	<b>BSE - Trestle Welding Code Compatibility</b>	<b>Closed</b>	<b>02/27/2012</b>	<b>03/08/2012</b>	<b>03/20/2012</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Balfour Beatty Infrastructure, Inc. Shad Gardner		<b>To:</b> Turner Construction Compan Gary Krutsch	<b>Answered By:</b> URS Corporation		David Fyfe		
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>	<b>ANSWER:</b>		<b>Accept Suggestion:</b> <input type="checkbox"/>		
Reference: ASHTO/AWSS D1.5M/D1.5:2008 SH-0200					URS Response to RFI No. T-0279 Trestle Welding Code Compatibility:		
The Temporary Access Trestle Design submitted in December specified AWS 01.1 as the required welding code. During the review process the reviewers requested that the welding code be changed to AWS 01.5- Bridge Welding Code. This request was complied with by revising general note A5.2 on the conformed trestle drawings.					A series of typographic errors occur within the RFI, referencing the AWS documents D1.1 and D1.5 as 01.1 or 01.5. References to AWS documents should be correctly identified by the correct AWS document numbers to avoid any future confusion within the project documentation. This RFI should be corrected or annotated to reflect these typographic errors.		
Since issuing these documents, BBII has been informed by both our shop and field welding inspectors that a compatibility discrepancy exists between the 01.5 welding code and base metals/ member shapes originally specified in the trestle design.					No exception has been taken to use tubular steel elements as components within the trestle structures.		
D1.5 is specifically intended for use on bridges and it is not intended for use on "structures composed of structural tubing" as noted in section 1.1.1 attached. This causes a discrepancy because unlike most bridges, our trestle contains a substructure completely comprised of structural steel tubing. (ie Pipe pile, lateral and longitudinal X-bracing).					Note AWS D1.5 section 1.2.2 Approved Base Metals: This AWS section provides a list of approved base metals, and prefaces this with Unless otherwise specified, and furthermore specifically states Other steels may be approved by the Engineer. We understand other steels have been recommended for approval by the Engineer (EOR = Pirooz Barar of PB&A) as they are included for use in the set of contract drawings for the Access Trestle. With the recommendation by the EOR and concurrence by the Peer Reviewer that the base metals proposed for use are suitable for the intended usage including an assessment of fatigue and potential for cracking of welding for the required service loading an service life, URS takes no exception to the use of the alternate base metals.		
In addition to the pipe incompatibility, there is also an incompatibility between the specified base metals. 01.5 requires base metals to be ASTM A709 and the trestle design specified a variety of different base metals depending on their structural shape as shown in general note 2.28 also attached Since Article 1.1.1 of 01.5 permits the Engineer to choose to reference an alternate applicable welding standard when fabrication or structure components are not					Use of AWS D1.5 is a requirement of the procurement specification, not simply a request made by technical reviewers. Reference 01 53 13 Rev 1.		



T-0280	BSE - Request to shorten depth on shaft D/1		Closed	02/29/2012	03/10/2012	03/02/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Joanne Filipas	To: Turner Construction Company	Gary Krutsch	Answered By: Adamson Associates, Inc. George Metzger			
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		
Ref - Attached RFI from BBI/Becho						Accept Suggestion: <input type="checkbox"/>		
Due to the blowout conditions previously encountered on Buttress Shaft D1, BECHO requests to install Shaft D1 to a depth of 180 feet as previously proposed by ARUP. BECHO believes the blowout condition still exists						ARUP Response: Earlier discussions regarding the consideration of shortening shaft D-1 was based on having E-1 and E-2 in place to depth and abandoning the casing at D-1 beneath the sheared break. Shafts E-1 and E-2 are not complete and the casing has been painstakingly		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 229 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>and thus would like to proceed with caution to prevent another occurrence. Alternatively, if ARUP feels this is no longer an option, BECHO requests that ARUP increase the maximum spacing allowed between the tangent shafts, in event to mitigate possible schedule delay, and/or re-break of casing while advancing D1. By allowing such changes will help mitigate Buttress shaft schedule.</p> <p>W/O acknowledges that BBII has yet to demonstrate that a "blowout" condition has in fact occurred. W/O would request the design team consider short pouring D-1 due to drilling difficulties encountered. Alternatively, W/O would request the spacing revision described above.</p>						<p>removed, therefore shaft D-1 shall be installed in accordance with the Contract Documents.</p> <p>The Contractor shall submit a proposal for achieving the increased spacing that acknowledges the fixed distance between shaft rows C and M which were established based on RFI 151.</p>
T-0281	<b>BSE - Survey Site Drawing and Certificate Submittal</b>	Closed	03/06/2012	03/16/2012	03/09/2012	Potentially	<input type="checkbox"/>
	<b>From:</b> Balfour Beatty Infrastructure, Inc. Danny Walsh	<b>To:</b> Turner Construction Company Gary Krutsch	<b>Answered By:</b> Adamson Associates, Inc George Metzger				
	<b>Co-Author:</b>						
	<b>REQUEST:</b> <p>BBIII is unclear on what is required for the "site drawing and certificate" submittal listed in section 01 10 50 1.3B. As the first contractor working on the construction of the terminal, no previous work is in place. Please confirm that the requirement is intended for future trade packages (to verify the work already completed by previous trade subcontractors), or provide additional clarification on what is required of BBII to complete this submittal requirement.</p>	<b>SUGGESTION:</b>	<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>	<p>The Contractor with certification of the GC's surveyor is to provide items specified in Division 01 10 50 1.3B for the purpose noted in the specification: to certify "the elevations and locations of the Work are in conformance with Contract Documents".</p>		
T-0282	<b>BSE - News/Advertisement Stand Removal</b>	Closed	03/16/2012	03/26/2012	03/19/2012	Potentially	<input type="checkbox"/>
	<b>From:</b> Balfour Beatty Infrastructure, Inc. Ural Yal	<b>To:</b> Turner Construction Company Gary Krutsch	<b>Answered By:</b> Turner Construction Company Jack Adams				
	<b>Co-Author:</b>						
	<b>REQUEST:</b> <p>The unused news/advertisement stand on the Westside of Fremont Street needs to be removed to accommodate the Buttress drilling on shafts A &amp; B. BBII intends to modify the sidewalk at this current location to provide 3 - 11ft lanes on Fremont Street per specification section 01-15-70. (see attached sketch)</p>	<b>SUGGESTION:</b>	<b>ANSWER:</b>	<b>Accept Suggestion:</b> <input type="checkbox"/>	<p>Per Jack Adams of Turner, at no cost to the owner the Contractor may remove the news/advertisement stand and store in Parcel M</p>		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 230 of 232  
Date: 03/22/2012  
Time: 05:12 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please provide direction to relocate or remove these stands.

<b>T-0283</b>	<b>BSE - Backfill Material For Pre-Trench</b>	<b>Closed</b>	<b>03/15/2012</b>	<b>03/25/2012</b>	<b>03/20/2012</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Balfour Beatty Infrastructure, Inc. Jeff Molloy		<b>To:</b> Turner Construction Company Gary Krutsch	<b>Answered By:</b> Turner Construction Company Jack Adams				

**Co-Author:**

**REQUEST:**

Reference:  
Proposed 1 sack sand mix design

BBII is not able to achieve the required compaction per SFDPW requirements due to inclement weather conditions. We have been advised from suppliers that the sand backfill material is saturated, and from past experience will not achieve the required compaction.

If the weather persists as forecasted BBII is proposing to backfill with 1 sack sand as a substitute to dry material. This will allow us to maintain the scheduled CDSM wall installation on 3/23/2012, and maintain the DPW compaction standards. Note sand slurry is only required in the street or public right of way.

Note: According to BBII this will not impact DND/Malcolm in the installation of the CDSM wall.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

BBII has requested use of sack sand slurry mix design FOA100CX. This use of sand/slurry is specified in Section 31 23 10, 2.2, H of the utility relocation spec. See also RFI U-0156.

This use is acceptable per SFDPW requirements due to inclement weather conditions. Also, this use of slurry is important for the upcoming CDSM wall at the pretrench locations. Per correspondence attached from Webcor-Obayashi the CM/GC, they state that their Trade Subcontractor "BBII has considered and coordinated with DND/Malcolm in this regard." (see uploaded document under 'Supporting Documents')

Substituting this slurry versus soils compaction and testing is acceptable. However this sand slurry use is a Contractor scheduling decision and will be at no additional cost to the TJPA from WOJV, BBII, and/or Malcolm-DND.

<b>T-0284</b>	<b>BSE - Request to Borehole Coordinates TTB-07 TTB-09</b>	<b>Open</b>	<b>03/21/2012</b>	<b>03/31/2012</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Balfour Beatty Infrastructure, Inc. Ural Yal		<b>To:</b> Turner Construction Company Gary Krutsch	<b>Answered By:</b>			

**Co-Author:**

**REQUEST:**

After further review of the Geotechnical Report produced by ARUP it has come to BECHO's attention that Boreholes TTB-07 and TTB-09 were not surveyed.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐



Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
<p>BECHO respectfully requests to obtain Northing and Easting coordinates for TTB-07 and TTB-09.</p>							
T-0285	BSE - Buttress Rebar Cage Length Adjustment	Open	03/21/2012	03/31/2012		Potentially	<input type="checkbox"/>
<p><b>From:</b> Balfour Beatty Infrastructure, Inc. Ural Yal</p> <p><b>To:</b> Turner Construction Compan Gary Krutsch</p> <p><b>Co-Author:</b></p>		<p><b>ANSWERED BY:</b></p>					
<p><b>REQUEST:</b></p> <p>Please refer to RFI T-0252, where the Engineer accepted BBII's proposal of fabricating the buttress rebar cages to a pre-extended length of 260' in order to accommodate the buttress shafts that are deeper than 241'. In RFI T-0252, BBII had suggested to extend the overall length of all rebar cage assemblies to 260' by increasing the length of the top "setting cage" 19 feet more. In this proposal, the lengths of structural cage segments were to remain unchanged.</p> <p>BBII's proposal of extending the length of the setting cage by 19' got accepted with the added requirement of splicing vertical rebar extensions on the job site. BBII takes exception to the added requirement of splicing vertical rebar extensions on the job site, which would lead to an increase in durations of the rebar cage installations.</p> <p>In order to eliminate splicing, BBII now proposes to fabricate the setting cage segments up to 9 feet longer than shown on the plans. The structural rebar cage segment lengths will remain unchanged. The top of the structural cage sections will be within up to 9 feet proximity from the top of concrete. This proposal will accommodate the rebar cages with a maximum total length of 250' (241'+9'=250').</p> <p>If the rebar cage assembly needs to be longer than 250 feet, BBII will direct the rebar cage manufacturer to also extend the bottom structural cage segment by an added distance equal to the required total length of the rebar cage assembly less 250 feet.</p>		<p><b>SUGGESTION:</b></p>		<p><b>ANSWER:</b> Accept Suggestion: <input type="checkbox"/></p>			





## 30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
T-267	BSE - DI Installation at First Street	Closed	11/29/2011	12/09/2011	12/13/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Gary Krutsch <b>Co-Author:</b> Balfour Beatty Infrastructure, Inc.      Ural Yal			<b>Answered By:</b> AECOM Technical ServiceEric Zagol				
<b>REQUEST:</b> Reference RFI U-101, Sheet U-3021  The RFI response U-101 dated 02-28-2011 eliminates the CB #501 from the RUP contractor's scope of work. However there has been no replacement or adequate surface water control system neither suggested nor installed to replace the CB # 501.  BBII recommends that this catch basin # 501, be installed per the original design to control surface water. Please confirm it will installed.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> CB#501 was deleted from RUP due to unforeseen field conditions. For RUP, runoff from adjacent area to drain south to existing CB at STA 4+20. Existing CB at STA 4+20 to remain in place and active at completion of RUP.  BSE Contractor to provide stormwater control on site accordance with BSE documents.				
T-268	BSE - Rebar in Secondary Shafts	Closed	12/08/2011	12/18/2011	12/12/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Joanne Filipas <b>To:</b> Turner Construction Compan   Gary Krutsch <b>Co-Author:</b>			<b>Answered By:</b> Arup      Kevin Clinch				
<b>REQUEST:</b> Reference GT-2201, Installation Sequence Note 5  Please confirm the reinforcement in the secondary shafts should be installed in the last buttress shaft of each row.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> As described in Note 5 on sheet GT-2201, since the cost-add option has been excercised, the reinforcement shall be installed in the secondary shafts along rows 15 and 16.5.				

## END OF REPORT

## Report Parameters

Project:	30100	Status Class:	
Sent To:		Run Date:	03/22/2012
Restrict Value of:	C	Run Time:	05:12 PM
From Date:		Operator:	NT
To Date:		Report Code:	PM3012
Status:			





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 1 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0001	First Street Electrical or Telecom Trench	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST: Ref U-2016, U-2020 and Attached  Sheet U-2016 calls out a 9-6", 1-4" E by PG&E. Sheet U-2020 calls out the same trench as AT&T's. The section shows it as a AT&T's. Please confirm this trench is AT&T's.			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Sheet U-2020 call out for the subject trench is correct, the trench is AT&T's.		
U-0002	Conflict with Electrical and Water Pipe Station 5.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner			Answered By: Webcor Construction LP Jeffrey Negley				
Co-Author:							
REQUEST: Ref U-3408 and attached.  During the review of the model, we have found that a conflict exists between the joint trench electrical conduits and water pipes. Please advise.			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Adjust Joint Trench per U-3400 General Notes 2, 3, 5 and 6.  Construct hydrant lateral to maintain a minimum 28-inch cover (18-inch below street concrete base) and adjust joint trench at lateral crossing to maintain a minimum 6-inch separation at crossing per U-3400 General Note 6.		
U-0003	Conflict Between Electrical trench and telecom conduit near station 1.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST: Ref U-2007, and attached  During our review of the model, we have found a conflict between the electrical joint trench and telecom conduit near station 1.50 on Minna Street. Please advise.			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> 4-6" Electric ductbank is to cross under the 6-4" Telecommunications ductbank, see U-3407 and U-3410 Section E.		
U-0004	Telecom and Water Conflict Station 3.25	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Joanne Filipas To: Turner Construction Compan Daphne Faulkner			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<b>REQUEST:</b> Ref U-2007 and attached.  During our review of the model, we have found that the water latereal running north on Minna street is in conflict with telecom conduits in the joint trench. Please advise.	<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Adjust Joint Trench per U-3400 General Notes 2, 3, 5 and 6.  Construct hydrant lateral to maintain a minimum 28-inch cover (18-inch below street concrete base) and adjust Joint Trench at lateral crossing.				
<b>U-0005</b>	<b>Water, Telecom and Electrical Conflict at Station 5.50</b>	<b>Closed</b>	<b>10/25/2010</b>	<b>11/08/2010</b>	<b>11/05/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Joanne Filipas		<b>To:</b> Turner Construction Compan      Daphne Faulkner	<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b> Ref U-2008, U-2030 and attached.  During our review of the model, we have found that the water system running in the east/west direction along Minna Street at station 5.50 is in conflict at three locations with the Electrical/Telecom joint trench. Please advise.	<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> At water laterals crossing Joint Trench: - Adjust Joint Trench per U-3400 General Notes 2, 3, 5 and 6. - Construct hydrant lateral to maintain a minimum 28-inch cover (18-inch below street concrete base) and adjust Joint Trench at lateral crossing.  At water main crossing with 6-4-inch conduit constructed by AT&T in Phase II (Sheet U-2030): - Construct water main as shown. - AT&T to design and construct Phase II AT&T conduit to avoid water main constructed under TG04.5.1.				
<b>U-0006</b>	<b>Gas and Electrical Conduit Conflict</b>	<b>Closed</b>	<b>10/25/2010</b>	<b>11/08/2010</b>	<b>11/05/2010</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Joanne Filipas		<b>To:</b> Turner Construction Compan      Daphne Faulkner	<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b> Ref U-2008, U-2030 and attached.  A conflict exists between the 4" HPG and electrical conduits near station 6.45. Please advise.	<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Electrical trenches at STA 6+42 +/- and at STA 6+85 +/- as shown on Sheet U-2030 are Relocation of Utilities Project Phase II work Not Included in Package TG04.5.1. The FINAL alignment and elevation of these trenches will be coordinated and designed by				



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 3 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0007	Water and Electrical Conduit Conflict at Station 6.50	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Joanne Filipas <b>To:</b> Turner Construction Compan      Daphne Faulkner		<b>Answered By:</b> AECOM Technical Service Eric Zagol					
<b>Co-Author:</b>							
<b>REQUEST:</b> Ref U-2030 and attached.  The water line running east/west along Minna street is in conflict with an Electrical trench at station 6.45. Please advise.		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Electrical trenches at STA 6+42 +/- and at STA 6+85 +/- as shown on Sheet U-2030 are Relocation of Utilities Project Phase II work Not Included in Package TG04.5.1. The FINAL alignment and elevation of these trenches will be coordinated and designed by others pending the conduit penetration elevations through the Transit Center perimeter shoring wall and into the Transit Center West Center Electric Vault. U-2030 elevation shows the ductbancks crossing under the 8-inch water in Minna Street.				
U-0008	Gas and Water Conflict at Station 7.30	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Joanne Filipas <b>To:</b> Turner Construction Compan      Daphne Faulkner		<b>Answered By:</b> AECOM Technical Service Eric Zagol					
<b>Co-Author:</b>							
<b>REQUEST:</b> Ref U-2009 and attached.  A conflict exists between the HPG and water line at station 7.30 along Minna Street. Please advise.		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Adjust Joint Trench per U-3400 General Notes 2, 3, 5 and 6.  Construct hydrant lateral to maintain a minimum 28-inch cover (18-inch below street concrete base) and adjust joint trench at lateral crossing to maintain a minimum 6-inch separation at crossing per U-3400 Note 6 with approval from PG&E on-site inspector.				



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
U-0009	Joint Trench and Sewer Conflict on First Street at Station 9.25	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan   Daphne Faulkner			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Ref U-2009 and attached					Accept Suggestion: <input type="checkbox"/>		
The sewer line running in the north south direction at station 9.25 along First street is in conflict with the electrical joint trench. Please advise.					Adjust Joint Trench per U-3400 General Notes 2, 3, 5 and 6.		
					Joint Trench crossing 10-inch SD at STA 9+29 +/- is shown in U-3409 and U-3031 Profile D.		
U-0010	Electrical Line Transition In Joint Trench from Minna to Shaw Alley	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan   Daphne Faulkner			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Ref U-3408, Q/U-3410, P/U-3410 attached.					Accept Suggestion: <input type="checkbox"/>		
Section Q/U-3410 shows a 5" and 2" electrical line on the north side of the joint trench. Section P/U-3410 shows the same 5" and 2" electrical lines on the west side of the joint trench as it turns north on Shaw Alley. Is the intent for these electrical lines to cross within the joint trench? Please advise.					No. The 5-inch and 2-inch electric conduits in Section Q/U-3410 should be located on the south side of the Joint Trench		
U-0011	Manhole #203 Elevation Conflict	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan   Daphne Faulkner			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Ref U3031, U3007 and attached.					Accept Suggestion: <input type="checkbox"/>		
					Construct sewer MH#203 rim to match existing grade		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 5 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>Detail B/U-3031 shows the elavtion of manhole #203 at 21.75 however U-3007 calls out an elevation of 22.0. Please confirm what the elavation of Manhole #203 is.</div> <div>at EL 22.0 +/- as shown on Sheet U-3007.</div>							
U-0012	Electrical/Telecom Conflicts between Plan and Section	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
<div>From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan      Daphne Faulkner</div> <div>Co-Author:</div>			<div>Answered By:AECOM Technical Service Eric Zagol</div>				
<div>REQUEST:</div> <div>Ref U-1108. U4000, H/4001 and attached.</div> <div>1. Section H/U-4001 shows the (E)(6)4"E(D) just north of the (E)T(NR) however the plans show it north of the (E) SS. Please advise.</div>			<div>SUGGESTION:</div>		<div>ANSWER:</div> <div>Accept Suggestion: <input type="checkbox"/></div> <div>Existing Topographic and Utility Survey Sheets and Sheet U-1108 show the horizontal location north of the (E) sewer. Section H on Sheet U-4001 shows the subject (E)(6)4"(D) at two locations, one is incorrectly shown. The horizontal location of the subject duct in Section H on Sheet U-4001 should be consistent with location shown in the Existing Topographic and Utility Survey Sheets and Sheet U-1108.</div>		
U-0013	Water Connections at Howard	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
<div>From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan      Daphne Faulkner</div> <div>Co-Author:</div>			<div>Answered By:AECOM Technical Service Eric Zagol</div>				
<div>REQUEST:</div> <div>Ref I-3120, U-3116, U-3112</div> <div>There is a discrepancy in the elevations called out for the 12" water line connections at Howard. The First and Howard connection shows the elevation at 13 on U-3120 and no elevation is provided on Howard. If we were to scale, the elevation should be at 14. Please provide the connection elevation.</div>			<div>SUGGESTION:</div>		<div>ANSWER:</div> <div>Accept Suggestion: <input type="checkbox"/></div> <div>Construct the 12"x12"x12" TEE at center line EL 13.0 as shown on Sheet U-3120.</div>		
U-0014	Size of Gas Line on First Street	Closed	10/25/2010	11/08/2010	11/05/2010	Potentially	<input type="checkbox"/>
<div>From: Webcor Construction LP      Joanne Filipas      To: Turner Construction Compan      Daphne Faulkner</div>			<div>Answered By:AECOM Technical Service Eric Zagol</div>				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 6 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Co-Author:							
REQUEST: Ref U-2003, U-2021 and attached.  The HPG line on U-2003 is 4". The same gas line on U-2021 is shown as 2". What size is the gas line?		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/> HPG by PG&E on First St. is 4" as shown on Sheet U-2003.			
U-0015	LEED Requirements for RUP work	Closed	10/26/2010	11/09/2010	11/05/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Joanne Filipas		To: Turner Construction Compan   Daphne Faulkner		Answered By:Transbay PMPC      Guy Hollins			
Co-Author:							
REQUEST: RE: Specification 01-81-13 1.1.3B  The specification section referenced provides a drawing which outlines the "LEED Project Limit". On this drawing, the limit line is drawn on Minna Street and Natoma Street and incorporates First Street, Fremont Street and Beale Street where they cross the new building. Is it the intent of this specification section that the RUP work in the areas enclosed are to be incorporated into the LEED program?		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/> It is not the intent of this specification section apply LEED requirements to the RUP work.			
U-0016	Street Light Relocation	Closed	11/02/2010	11/16/2010	11/17/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Jeffrey Negley		To: Turner Construction Compan   Michelle Smith		Answered By:AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST: Plan/Drawing Reference: U-3201  Please identify the PG&E manhole on Second St & Minna, where we are to connect the new conduit for the relocated street light on the west end of Minna St. The connection manhole depicted on the plans does not appear to be owned by PG&E - the cover is marked "Steam". Please review and advise.		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/> 11/8/2010 Eric Zagol Alignment of conduit shall be south of existing NRG Energy steam manhole, adjacent to existing street light conduit as shown, connecting to and intercepting existing street light conduit in PG&E MH E-1319 immediately west of the existing steam manhole. Coordinate connection with PG&E through BLHP and TJPA's representative.			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
U-0017	JT Conflict with Basement @ Rickenbacker Rest.	Closed	11/09/2010	11/23/2010	01/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jeffrey Negley To: Turner Construction Compan Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			ANSWER:				
Reference sheet U-3407. PG&E has been potholing on the south east corner of Minna @ 2nd St. for a new gas line over the past number of days. We have observed in their potholes that a basement structure for the Rickenbacker Restaurant (123 2nd St.) extends out beyond the property line and under the sidewalk, along both Minna and 2nd Street. The basement appears to extend almost up to the roadway curb on 2nd Street and to face of curb or beyond on Minna. The joint trench at its current alignment (on Plan Sheet U-3407) along the south east corner of 2nd & Minna will be in conflict with this basement structure. Please review and advise.			Accept Suggestion: <input type="checkbox"/> E. Zagol 1/11/11  See revised Joint Trench Plan and Elevation Phase I Plans titled "Revisions - Minna Street 12/27/10" for realignment of Joint Trench.  *****  E. Zagol 12/17/10  The Joint Trench as currently shown in Sheet U-3407 is in conflict with the 123 Second Street sidewalk basement between Minna Street stations 0+75 and 0+90.  Separate from the conflict mentioned above, PG&E has requested TJPA to add additional conduits to the Joint Trench.  Revised drawings will be provided that address the following:  Realignment of Joint Trench west of station 2+00, realignment of the sewer west of station 2+25, and revisions to the water line (vertical and hydrant lateral) west of station 1+02 to address the conflict with 123 Second Street sidewalk basement. Modifications to Joint Trench sections from First Street to Second Street to accommodate PG&E's additional conduits. Modifications at the future Transit Center stubouts to accommodate PG&E's Joint Trench configuration revisions. RFI-U0050. *****  E. Zagol 11/18/10  AECOM will attend the planned site visit to 123 Second Street on 11/19/10 to evaluate conflict. We are actively working with PG&E to identify options for the Joint Trench alignment west of STA 1+12 if 123 Second Street basement is confirmed in conflict.				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 8 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

On 11/17/10 PG&E reported at TJPA's weekly PG&E coordination meeting that the preferred realignment option, north of the proposed sewer utilizing existing PG&E MH 1319, was electrically feasible. PG&E has scheduled field crews for the week of 11/29/10 to confirm that there is adequate space in their existing manholes to facilitate the preferred option.

Proceed with Joint Trench subsurface investigations and Joint Trench shop drawing preparation in accordance with plans and specifications for the Joint Trench east of STA 1+12 to STA 9+31.32 at First Street.

U-0018	AWSS caps requirement	Closed	11/10/2010	11/10/2010	11/24/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Jeffrey Negley	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service	
Co-Author:				Eric Zagol			
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
Please refer to sheets MA-5, MA-8, U-1120, U-1121, see attached.				RFI U-0018 to be closed as RFI U-0018.1 was created to address a two part question that arose. RFI U-0018.1 was answered on 11/24/10 and the RFI is marked closed.			
Please confirm that the AWSS caps shown on sheets MA-5 and MA-8 are required prior to the installation of the new PG&E ductbank (sheet U-2021) on the East side of First St.							

U-0018.1	AWSS Removal Work on First Street - Scope Clarification		Closed	11/22/2010	11/24/2010	11/24/2010	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		Jeffrey Negley	To: Turner Construction Compan		Michelle Smith	Answered By: Webcor Construction LP			Jeffrey Negley
Co-Author:									
REQUEST:			SUGGESTION:			ANSWER:			
The First Street AWSS cap issue has created a two part question. RFI #U-0018 will remain open to track the sequence of installation regarding installation of the AWSS cap and PG&E trench.						Accept Suggestion: <input type="checkbox"/>			
						11/23/2010 Eric Zagol See attached sketch from Michael Smith (SFDPW BOE) indicating work required to abandon existing 10"			





Per conversations between Guy Hollins, Eric Zagol and Michael Smith (mechanical engineer with DPW Bureau of Engineering), please clarify the work involved to install the two AWSS caps on First & Howard and First & Mission St. Also produce a list of material required to complete the work. Provide drawing/ sketch if necessary to clarify scope of work.

U-0019	Street Light Location	Closed	11/10/2010	11/12/2010	12/02/2010	Potentially
	<b>From:</b> Webcor Construction LP	Jeffrey Negley	<b>To:</b> Turner Construction Company	Michelle Smith	<b>Answered By:</b> AECOM Technical Service	Eric Zagol
	<b>Co-Author:</b>					
	<b>REQUEST:</b> Please provide layout for the Street Lights shown to be relocated on sheets U-3201 and U-3202.	<b>SUGGESTION:</b>		<b>ANSWER:</b> Rev. 12/1/10  As discussed during the site visit on 11/24/10 with Turner, Webcor, Trinet and AECOM to review SFPUC BLHP proposed street light markings, the proposed locations by SFPUC BLHP required a final review by BLHP due to conflicts with the Joint Trench and a FDC. SFPUC BHLP provided additional clarification on street light locations on 12/1/10.  Relocate existing street lights as shown to be relocated on U-3201 to the north side of Minna St. at STA 2+89.25 (center of pole) and at STA 4+12.03 (center of pole). Locate foundation, street light per SFDPW Standard Plans A-33,308 File No. 87,210. Provide guard post in accordance with SFDPW Standard Plan A-33,308 File No. 87,210 for the street light relocated to STA 2+89.25.  *****  U-3201 shows two street lights to be relocated from	<b>Accept Suggestion:</b> <input type="checkbox"/>	



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 10 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0019.1	Light Pole at Station 4+12.03: Reroute existing conduit	Closed	12/21/2010	12/31/2010	02/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu			Answered By:Turner Construction Comp Michelle Smith				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: RFI #U-0019, attached picture and sheet U-3201					Accept Suggestion: <input type="checkbox"/>		
The streetlight at station 4+12.03 was laid out per the response to RFI #U-0019. When the new location was potholed, a number of existing utilities were discovered. Per inspection with BLHP on 12/20/2010, inspector Robert Kawano requests to re-route existing conduits in the new light pole ftg. location at STN. 4+12.03. Utilities seem to be privately owned by 555 Mission St.. Please advise.					See RFI Response #U-0019.2		
					----- - 12/27/2010 E. Zagol		
					Unforeseen condition requiring improvements by property owner to relocate privately owned utilities in the City right of way. T.JPA Representative to coordinate with property owner to relocate utilities.		
U-0019.2	Light Pole at Station 4+12.03: Reroute existing conduit	Closed	12/21/2010	12/31/2010	02/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Nhi Tran To: Turner Construction Compan Michelle Smith			Answered By:Turner Construction Comp Michelle Smith				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Question from RFI #U-0019.1					Accept Suggestion: <input type="checkbox"/>		
					Electrical conduit has been relocated by 555 Mission		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 11 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>-----</p> <p>Reference: RFI #U-0019, attached picture and sheet U-3201</p> <p>The streetlight at station 4+12.03 was laid out per the response to RFI #U-0019. When the new location was potholed, a number of existing utilities were discovered. Per inspection with BLHP on 12/20/2010, inspector Robert Kawano requests to re-route existing conduits in the new light pole ftg. location at STN. 4+12.03. Utilities seem to be privately owned by 555 Mission St.. Please advise.</p>				<p>St. property management. Webcor/Obayashi to relocate irrigation conduit to be out of the way of the light pole base location. Coordinate with 555 Mission (Julian Marsh 415-546-6036 or Rob Edlenbos 415-546-6037) to have the irrigation controllers shut off for the work.</p> <p>-----</p> <p>RFI U-0019.1 Response - Eric Zagol - 12/27/2010</p> <p>Unforeseen condition requiring improvements by property owner to relocate privately owned utilities in the City right of way. TJPA Representative to coordinate with property owner to relocate utilities.</p>		
U-0020	Street Lighting Relocation Plan for Minna	Closed	11/15/2010	11/29/2010	11/18/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Jeffrey Negley                      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:            Accept Suggestion: <input type="checkbox"/>				
Reference: Plan/Drawing Reference: U-3201							
We have been informally advised that the Design Engineer and BLHP are considering a revised installation plan for the street lights on Minna. This would include the installation of temporary overhead power lines to feed the relocated street light poles, until such time as the new lights are powered from underground by Trinet.		11/18/2010, per Eric Zagol; At the request of the TJPA, SFPUC BLHP provided temporary overhead power for four street lights on Minna St. The temporary overhead power is shown in the attached sketch RFI-U0020 SKU-01. The temporary overhead street light power allows PG&E to de-activate existing underground electric ductbanks in Minna St. while maintaining power to the existing street lights.					
Here is a sequence as Trinet understands it. Trinet would install the new light pole foundations on the north side of Minna and then relocate the light poles from the south side, per plans. BLHP would then install overhead cable, extending from a pole on 2nd St., to provide power for the lights. During installation of the new foundations, Trinet would install underground conduit from the pole to an adjacent splice box, and then later extend the underground conduit from the splice box to the PG&E power source, as depicted on the plans.		The temporary overhead power to existing street lights can remain active until the two street light relocations in Minna Street are constructed, new underground street light duct, bull boxes and cables are constructed, and new underground power connections have been coordinated with SFPUC BLHP and PG&E.					
Please clarify the street lighting relocation plan currently under consideration. Also, if the BLHP plan to feed the		Since SFPUC BLHP provided temporary power to the existing street lights, the construction sequence of the new street lights with respect to the other works on Minna St. now has more flexibility and is not required prior to performing other works in Minna St.					



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 12 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

lights temporarily from overhead, will any changes be required to the foundation and light pole installation plan to accommodate an overhead power feed?

Please review and advise.

U-0021	M.H. #501 and existing utilities	Closed	11/17/2010	11/22/2010	12/02/2010	Potentially	<input type="checkbox"/>
--------	----------------------------------	--------	------------	------------	------------	-------------	--------------------------

From: Webcor Construction LP Jeffrey Negley

To: Turner Construction Company Michelle Smith

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

**REQUEST:**

Reference Plan/Drawing: U-3021

During potholing activities in 1st St. where Manhole #501 is to be installed Trinet has encountered a number of existing utilities which occupy the same intended space for Manhole #501. Please see the attached sketch for locations and clarifications of these utilities.

Some of these utilities, particularly UT Group #2 and UT Group #5 (reference sketch) are intended to be disconnected by PG&E by November 24th. Please confirm.

UT Group #1, which appears to be owned by ATT is noted on the drawings as to be disconnected and demolished. Please advise as to when this utility is scheduled to be disconnected.

UT Groups #3 and #4 are unidentified and were not included in the USA markings for this area. In order to construct M.H. #501 per the contract drawings these utilities must be removed or relocated. Please advise as to the ownership of these utilities and provide direction on how to proceed.

Note: due to construction, we are requesting that this RFI be answered by 11/22/10 if possible.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Please provide a mark up of U-3021 indicating the horizontal location of the utilities discovered that correlate to the section sketch provided. Also, please clearly indicate those utilities that were not marked in the field in response to the USA ticket for this excavation work.

\*\*\*\*\*

E. Zagol 11/24/10

In response to items listed above:

1. As of 11/17/10 PG&E has stated that the de-energization of Minna St. will be complete by 11/24/10. In accordance with Specification 024100 1.3 B and 024100 3.5 B obtain in writing a Utility Severance Certificate (or equal) that all connections have been disconnected and the utility is not active.

2. As of 11/17/10 AT&T has stated that contents in AT&T existing ducts along First St. have been terminated with the exception of the new duct from Howard St. to 400 Howard St. property. Confirm that the existing AT&T duct subject of discussion is the existing duct from TMH-1887 to Existing Transbay Terminal as shown to be demolished on U-1121. In accordance with Specification 024100 1.3 B and 024100 3.5 B obtain in writing a Utility Severance Certificate (or equal) that all connections have been



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 13 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

disconnected and the utility is not active.

3. Groups #3 and #4 utilities are not shown on AECOM's existing utility plans and as noted in the RFI are not included in the USA markings. Pending direction from TJPA's representative in accordance with Specification Section 00 08 10 the suggested first course of action is to notify USA and request a "No Response Follow Up Message". Other suggested actions have been provided to TJPA PMPC for consideration and direction further direction provided by the TJPA's Representative.

\*\*\*\*\*

E. Zagol 11/26/10

RE item #1, See attached email and email attachment from Antonio Chan (PG&E) dated 11/24/10 confirming de-energization of electric ducts in Minna St. and First St.

U-0022	SFWD crossings at Minna St. and 1st	Closed	11/17/2010	12/01/2010	12/03/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jeffrey Negley		To: Turner Construction Compan Michelle Smith	Answered By:AECOM Technical Service Eric Zagol				

Co-Author:

REQUEST:

Reference Plan/Drawing: U-1002 and attached PDF.

Current USA markings have identified (2) SFWD laterals which are not indicated on the drawings. These are located at approximately STA 8+59 and 9+06 and extend from the main in Minna St., North toward the building of 100 1st. ST. These laterals need to be identified and recorded in order to properly document and construct both the new water line and the new joint trench.

Any additional work associated with these utilities may result in a cost or schedule impact. Please review and provide direction on how we should proceed.

SUGGESTION:

ANSWER: Accept Suggestion: ☐

100 First St. Building Engineer confirmed existing laterals do not provide service to 100 First St.

After new water in Minna Street is constructed, water services and hydrant laterals are connected; main to main connections are made by CDD , and pipes are secure; and the existing water main is abandoned, demolish existing laterals identified at approx. STA 8+59 and 9+06.

DO NOT provide a connection from new water main to existng laterals at approx. STA 8+59 and 9+06.



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 14 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

\*\*\*\*\*

Tap record and meter information provided by SFPUC Customer Service Bureau indicates two water laterals to the 100 First St. property entering the building from First Street approximately 50 feet south of Mission St. Meter boxes located along First St. west sidewalk.

Coordinate with the 100 First St. Building Maintenance, Bradford J. Collins (CAC Real Estate Management Co., Inc.), Tel: 415.243.8803 thru the TJPA's representative to confirm that laterals do not provide service to 100 First St. property from Minna Street.

U-0023	MOP 1 for de-energizing PG&E at Minna St. between 1st and 2nd St	Closed	12/01/2010	12/02/2010	12/02/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jeffrey Negley		To: Turner Construction Company Michelle Smith	Answered By: Turner Construction Company Michelle Smith				

Co-Author:

**REQUEST:**

There is a live PG&E cable in conduit (see RFI U-0021) in First Street at intersection of Minna Street.

Per spec section 01.01.42 / AT2-1 MOP for the Utility Shutdown Template, MOP 1 was created and sent via email on 11/29/10 requesting signatures from TJPA and PG&E for verification the conduit is de-energized. Copy enclosed.

Also per spec section 02 41 00-3 (Vol. 20 Contract # CMCG 08-04 Existing Utilities)  
Item A - "Coordinate the shut off or disconnect of existing utilities affecting demolition work with the utility owner at least (7) seven calendar days prior to commencing with the work. The TJPA Representative will coordinate with the utility owner to open/close valves on piping, perform piping disconnects required and perform electric and telecommunication disconnects required. Do not proceed with this phase of work before getting the approval from the TJPA Representative".

**SUGGESTION:**

**ANSWER:**

Accept Suggestion: ☐

Please see attached document. This will be the MOP Form that W/O and its subcontractors are to use for the duration of the project for the deenergization, disconnect, or demolition of any utilities.



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please provide approval.

In addition, per item B of spec section 02 41 00-3, "Prior to removal of any non-governmental (privately owned) ductbank, conduit or gas lines, obtain in writing a Utility Severance Certificate that all connections have been disconnected and the utility is not active".

Please provide a Utility Severance Certificate per item B above.

Sewer work on First Street is scheduled to start 12/1/10. Work cannot proceed until the conduit is de-energized.

Thank you.

U-0024	EBI demo dwgs and schedule for coordination		Closed	12/02/2010	12/03/2010	12/08/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Jeffrey Negley	To: Turner Construction Company		Michelle Smith		Answered By: Turner Construction Company Michelle Smith	
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		
Due to ongoing demolition work by EBI, W/O is requesting formal transmission of the most current demolition drawings and schedule.						Accept Suggestion: <input type="checkbox"/>		
These documents will be used for coordination efforts with the RUP subcontractors.						Per our utilities working session yesterday (12/7/10), the demolition drawings being used are the original set issued for construction, dated 1/14/10. C. Traylor will follow up to find out if/when Webcor/Obayashi was issued a copy of this set, or issue a new one for your records. The following supplemental documents have been issued since this set:		
Please forward to W/O as soon as possible.						- BSE drawing package - issued to W/O as Field Order #002 by TJPA (not attached to this RFI)		
Thank you.						- Demolition Sequence drawings and manual - (copies attached to this RFI)		



## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

## 30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0025	Capped 6" Water Main in First St Investigative Trench at Minna St.	Closed	12/03/2010	12/06/2010	12/08/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order), and attached sketch				Contact USA and request SFWD (or SFPUC CDD) contact information.			
Trinet has encountered a capped 6" water main running along the center of the First St. investigative trench at the east end of Minna St. - see attached sketch . Please confirm if the line is active or dead. We cannot excavate this section of trench to the required 8' depth until this water line is removed.				Contact SFWD (or SFPUC CDD) and request field visit to determine status (active or abandoned) of existing capped 6" water pipe.			
<hr/>							
U-0026	Unidentified Facility in First St Invest Trench - 21'-7 from Curb	Closed	12/03/2010	12/06/2010	12/09/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)				Verizon (MFS and MCI) conduits appear to be labeled in section however unknown conduits are indicated either directly below or adjacent to the identified Verizon conduits. How were the Verizon conduits (MFS and MCI) identified? Did Verizon confirm those labeled as Verizon (MCI and MFS) are theirs and the others are unknown? Please clarify. As per Demolition Plans, protect Verizon (MFS and MCI) structures in place until temporary bridge is constructed and Verizon conduits are relocated.			
See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 21'-7" from face of curb, on the attachment and advise if it needs to be cut and capped.							
<hr/>							
U-0027	Unidentified Facility in First St Invest Trench - 18'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)				- Confirm the "unidentified" utility was not marked by a utility in response to USA ticket.			
See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 18'-7" from face of curb, on the attachment				- Confirm that USA No Response Follow-Up procedures (First, Second and Third No Response Follow-Up) were followed in an effort to identify the utility including notifying utilities. Investigation information provided appears to be consistent with			





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 17 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	and advise if it needs to be cut and capped.					plans indicating a PG&E utility.	
						- Confirm PG&E was contacted via USA process to mark underground facilities.	
U-0028	Unidentified Facility in First St Invest Trench - 14'-7 from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Michelle Smith					Answered By:AECOM Technical Service Eric Zagol	
	Co-Author:						
	REQUEST: Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)  See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 14'-7" from face of curb, on the attachment and advise if it needs to be cut and capped.	SUGGESTION:			ANSWER:	Accept Suggestion: <input type="checkbox"/> - Confirm the "unidentified" utility was not marked by the utility in response to USA ticket.  - Confirm that USA No Response Follow-Up procedures (First, Second and Third No Response Follow-Up) were followed in an effort to identify the utility including notifying utilities. Investigation information provided appears to be consistent with plans indicating a PG&E utility.  - Confirm PG&E was contacted via USA process to mark underground facilities.	
U-0029	Unidentified Facility in First St Invest Trench - 13'-4" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Michelle Smith					Answered By:AECOM Technical Service Eric Zagol	
	Co-Author:						
	REQUEST: Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)  See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 13'-4" from face of curb, on the attachment and advise if it needs to be cut and capped.	SUGGESTION:			ANSWER:	Accept Suggestion: <input type="checkbox"/> - Confirm the "unidentified" utility was not marked by the utility in response to USA ticket.  - Confirm that USA follow up procedures were followed in an effort to identify the utility including notifying utilities with no response.	



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0030	Unidentified Facility in First St Invest Trench - 9'-10" from Curb	Closed	12/03/2010	12/06/2010	12/10/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)				Verizon (MFS and MCI) conduits appear to be labeled in section however unknown conduits are indicated either directly below or adjacent to the identified Verizon conduits. How were the Verizon conduits (MFS and MCI) identified? Did Verizon confirm those labeled as Verizon (MCI and MFS) are theirs and the others are unknown? Please clarify. As per Demolition Plans, protect Verizon (MFS and MCI) structures in place until temporary bridge is constructed and Verizon conduits are relocated.			
See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 9'-10" from face of curb, on the attachment and advise if it needs to be cut and capped.							
<hr/>							
U-0031	Unidentified Facility in First St Invest Trench - 7'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)				- RFI states "unidentified" utility yet highlighted utility in New Section 1 states "10 AWSS", please clarify question.			
See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 7'-2" from face of curb, on the attachment and advise if it needs to be cut and capped.							
<hr/>							
U-0031.1	24in Concrete Wall in First St. Invest Trench - 7ft 2in from FOC	Closed	12/23/2010	01/02/2011	12/29/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1007, attached section and plan sketches, and attached documentation of notifications to USA North				Unknown 24" concrete wall to be demolished by Transit Center Project (NIP) within the area impacted by the CDSM shoring wall and mass excavation.			
See the highlighted wall on attached plan and section through the investigative trench on the East side of First St.from Stn. 10+00 to 9+70. Per note 4 on sheet U-1007 Trinet requests direction regarding the unidentified 24"				Answered by Eric Zagol AECOM 12/29/2010			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

concrete wall found 7'-2" from the East face of curb and 10" cover that was encountered but not indicated on the contract plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this wall by 12/27/10.

U-0032	Unidentified Facility in First St Invest Trench - 3'-2" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	David Hungerford	To:	Turner Construction Compan	Michelle Smith	Answered By:	AECOM Technical Service Eric Zagol

**Co-Author:****REQUEST:**

Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)

See attached plan and section through the investigative trench on the east side of First St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 3'-2" from face of curb, on the attachment and advise if it needs to be cut and capped.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

- Confirm the "unidentified" utility was not marked by a utility in response to USA ticket.

- Confirm that USA No Response Follow-Up procedures (First, Second and Third No Response Follow-Up) were followed in an effort to identify the utility including notifying utilities. Investigation information provided appears to be consistent with plans indicating a AT&Y utility at this location.

- Confirm AT&T was contacted via USA process to mark underground facilities.

U-0032.1	Unidentified 18" Concrete Wall in First St Invest Trench - 3ft-2in from Curb	Closed	12/23/2010	01/02/2011	12/29/2010	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	David Hungerford	To:	Turner Construction Compan	Kevin Chiu	Answered By:	AECOM Technical Service Eric Zagol

**Co-Author:****REQUEST:**

Reference: Sheet U-1007, attached section and plan sketches, and attached documentation of notifications to USA North

See the highlighted item on attached plan and section through the investigative trench on the East side of First

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Unknown 18" concrete wall to be demolished by Transit Center Project (NIP) within the area impacted by the CDSM shoring wall and mass excavation.

Answered by Eric Zagol  
AECOM 12/29/2010



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 20 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

St.from Station 10+00 to 9+70. Per note 4 on sheet U-1007, Trinet requests direction for the demolition of the 18" concrete wall found 3'-2" from the East face of curb and 17.5" covered that was encountered but not indicated on the contract plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/27/10.

U-0033	Unidentified Facility in First St Invest Trench - 5'-8" from Curb	Closed	12/03/2010	12/06/2010	12/07/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1002 (dated 2010-10-01 - RUP Field Order)					Accept Suggestion: <input type="checkbox"/>		
See attached plan and section through the investigative trench on First St. at Minna St.. During Trinet's investigation, an unidentified utility/facility was encountered in the trench. Please identify the highlighted utility, located 5'-8" from face of curb, on the attachment and advise if it needs to be cut and capped.					- Confirm the "unidentified" utility was not marked by the utility in response to USA ticket.		
					- Confirm that USA No Response Follow-Up procedures (First, Second and Third No Response Follow-Up) were followed in an effort to identify the utility including notifying utilities. Investigation information provided appears to be consistent with plans indicating traffic signal utility.		
					- Confirm SFMTA was contacted via USA process to mark traffic signals and street light underground facilities.		

U-0033.1	Unidentified 2in Pipe in First St Invest Trench - 5ft-8in from Curb	Closed	12/23/2010	01/02/2011	12/29/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1007, attached section and plan sketches, and attached documentation of notifications to USA North					Accept Suggestion: <input type="checkbox"/>		
					Confirm exposed 2" pipe is Traffic Signal conduit as shown in the Plans. Once confirmed demolish in accordance with Demolition Plans.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 21 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

See attached plan and section through the investigative trench on the East side of First St. from Station 10+00 to 9+70. Per note 4 on sheet U-1007, Trinet requests direction for demolition of the unidentified 2" pipe found 5'-8" from the East face of curb and 15" covered that was encountered but not indicated on the contract plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/27/10.

Answered by Eric Zagol  
AECOM 12/29/2010

U-0034	Station 9+10 New Hydrant Conflict with Sidewalk Basement	Closed	12/09/2010	12/20/2010	12/13/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford		To: Turner Construction Company Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol				

Co-Author:

#### REQUEST:

Reference: Sheet U-3109 (dated 2010-09-29)

During Trinet's potholing for the Joint trench along the North side of Minna St, a basement for building "100 First St." was revealed. The basement wall is located just behind the face of curb and extends to more than 8 feet below finish grade. The extent of the basement is unknown, but assumed to run the length of the "100 First St" property. The basement structure is in conflict with the proposed new fire hydrant installation at Station 9+10.

Please provide layout for the fire hydrant.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

The wall encountered appears to be an abandoned side walk basement wall for the 4 story brick building that existed prior to the current 100 First St. building. Approximate width of wall is 2 feet and the outside face is approximately at the face of curb. Neatly cut and remove wall to form a trench. Required trench width and depth per Detail 7 on U-5101. Construct hydrant lateral, riser and hydrant as shown in Detail 2 on Sheet U-5101.

U-0035	Installation Depth of Storm Drain New Catch Basins	Closed	12/09/2010	12/13/2010	12/13/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford		To: Turner Construction Company Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol				

Co-Author:

#### REQUEST:

Reference: Sheet U-3023, U-3033 (Detail B), Attached detail from Department of Public Works Bureau of Engineering

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

AECOM has confirmed with SFDPAW Hydraulics that limited vertical bends in the 10-inch culvert run are acceptable. SFDPAW also confirmed that from a maintenance perspective the clean out on the cast



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Trinet is concerned that the installation depth for many of the new catch basin does not comply with SFDPW Sewer Department guidelines, specifically regarding access to the traps for the maintenance department. The DPW sewer maintenance crews need to have ready access to the p-trap during flooding emergencies. DPW crews need to be able to reach the p-trap to, either remove the cleanout cap and release the flow to the culvert pipe (if the trap bottom is plugged), or rod the culvert line through the trap (if the culvert is plugged). To get some clarification of the installation guidelines, Trinet had informally talked to one of the design engineers at the SF Bureau of Engineering, Hydraulics Department. He advised Trinet that new catch basins should be installed with center of trap and discharge piping grade located between 3 and 4 feet below the culvert runs to cross under existing utilities that are in conflict with a direct run to the discharge manhole. Bends should be 22 1/2 degrees where possible as required, and if 45 degree bends must be used we should limit the number to two (2).

Please provide the depth of CB#603 on Fremont Street. To expedite the work in the field, we require an answer by 12/13/10.

iron trap is more accessible at a depth of 3 to 4 feet below ground surface.

Please submit subsurface utility investigation information including top, bottom and size of existing utilities along the 10-inch culvert alignment from catch basin to manhole such that the 10-inch culvert can be engineered and the catch basin depth can be determined to avoid existing and future utilities.

U-0035.1	Fremont Street Storm Drain from CB#603 to (E) Manhole	Closed	12/23/2010	01/02/2011	12/28/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jason Dunne		To: Turner Construction Company Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol				

**Co-Author:****REQUEST:**

Refer to Sheet U-3023, U-3033 (detail B) and see RFI #U-0035

Per the response to RFI #U-0035, find attached for your review a drawing showing the proposed alignment for the catch basin (CB# 603) installation and storm drain run to the existing manhole on Fremont St.

Please confirm this proposed alignment is acceptable or provide another solution.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Based on a site visit on 12/28/10 with Jason Dunne (W/O) and Victor (Trinet) to review exposed trench alignment for 10-inch culvert it was confirmed that the culvert alignment will clear the new temporary 8-inch water and existing 8-inch water main with adequate separation.

Alignment as shown in the attached drawing is acceptable.



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 23 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	***Please confirm this alignment by 12/27/10 if possible.			Note, existing 3" HP Gas immediately west of the catch basin is to be abandoned by PG&E per Sheet U-1123 Demolition and Sequence item 2. Coordinate with PG&E to confirm 3" HP Gas is inactive and can be demolished and removed to facilitate construction of the catch basin and culvert, if required.			
				Answered by Eric Zagol AECOM 12/28/2010			
				***** ***** *****			
				Please indicate the location of new temporary 8-inch water main in Fremont Street in the section drawing and resubmit for review.			
				Answered by Eric Zagol AECOM 12/27/2010			
U-0036	Unidentified 6in Pipe Encountered in Fremont St. - 7ft-9in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol			
	Co-Author:						
	REQUEST: Reference: Sheet U-1008, attached sketch of section from Trinet RFI 28 and documentation of notifications to USA North  See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6" steel pipe at 7'-9" from the east face of curb and 3'-4" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.  Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested	SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Unknown unforeseen existing utility condition.  In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:  Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 24 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	with official direction on how to proceed with this facility by 12/16/10.			owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)			
				Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.			
				Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.			
				Note, 6" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.			
U-0037	Unidentified 2in Facility Encountered in Minna St. - 7in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu		
Co-Author:		Answered By: AECOM Technical Service Eric Zagol					
REQUEST:	SUGGESTION:		ANSWER:	Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 16 and Documentation of notification to USA North		Unknown unforeseen existing utility condition.					
See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJP" of the unidentified 2" steel line found 7" from south face of curb and 2'-2" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.		In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:					
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by		Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to					





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
12/16/10.							
			nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)				
			Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.				
			Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.				
<hr/>							
U-0038	Unidentified 4" Facility Encountered in Minna St. - 7ft 4in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 17 and documentation of notifications to USA North				Confirmed that the existing 4" steel line is an abandoned PG&E conduit connected to the abandoned PG&E manhole 1354 abandoned and de-energized as part of PG&E's Minna Street Stage I de-energization work. Demolish and remove conduit and contents following confirmation of abandonment by PG&E.			
See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 4" steel line found 7'-4" from north face of curb and 2'-11" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.							
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 26 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0039	Unidentified 4" Facility Encountered in Minna St. - 6ft 7in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 18 and documentation of notifications to USA North				Confirm that the existing 4" steel line is an abandoned PG&E conduit connected to the abandoned PG&E manhole 1354 abandoned and de-energized as part of PG&E's Minna Street Stage I de-energization work. Demolish and remove conduit and contents following confirmation of abandonment by PG&E.			
See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U - 1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 4" steel line found 6'-7" from north face of curb and 2'-3" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.							
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.							
<hr/>							
U-0040	Unidentified 4in Facility Encountered in Minna St. - 5ft from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 19 and documentation of notifications to USA North				Existing 4" steel conduit is directly in line with abandoned PG&E manhole 1354. Confirm that the existing 4" steel is an abandoned PG&E conduit connected to the abandoned PG&E manhole 1354 abandoned and de-energized as part of PG&E's Minna Street Stage I de-energization work. Demolish and remove conduit and contents following confirmation of abandonment by PG&E.			
See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U- 1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 4" steel line found 5' from north face of curb and 2'-10" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.							
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.							
<hr/>							
U-0041	Unidentified 1in Facility Encountered in Minna St. - 2ft 9in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 27 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Reference: Sheet U-1007, attached sketch of section from Trinet RFI 20 and documentation of notifications to USA North

See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U-1007, Trinet "hereby requests that Webcor "notify TJPA" of the unidentified 1" steel line found 2' 9" from north face of curb and 18" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLES AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.

U-0042	Unidentified 6in Facility Encountered in Minna St. - 6in from FOC	Closed	12/15/2010	12/25/2010	12/16/2010	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	David Hungerford	To:	Turner Construction Company	Kevin Chiu	Answered By:	AECOM Technical Services Eric Zagol

#### Co-Author:

#### REQUEST:

Reference: Sheet U-1007, attached sketch of section from Trinet RFI 21 and documentation of notifications to USA North

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Confirm with PG&E that the 6" steel line identified is an abandoned PG&E 6" cast iron gas main. Demolish abandoned 6" cast iron pipe and contents as



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 28 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U-1007, Trinet "hereby requests that Webcor "notify TJP" of the unidentified 6" steel line found 6" from north face of curb and 36" to cover. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

required to construct the Joint Trench.

U-0043	Fire Hydrant at St. 5+70 on Minna	Closed	12/13/2010	12/23/2010	12/14/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Mario Saldana Sr.	To: Turner Construction Compan		Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
INFORMATION NEEDED				Accept Suggestion: <input type="checkbox"/>			
See the attached picture of the proposed fire hydrant location as indicated by drawings on Minna St. at Stn. 5+70. This location is in conflict with an existing driveway apron not shown on drawing # U-2008. Eric Zagol from AECOM is aware and has seen this issue in the field. NOTE - Due to the 8" water line currently being installed, the location for the "T" section oinstall could be as early as Tuesday the 14th. Please provide direction by 12-14-10 if possible.				Due to the close proximity to the existing street light at the suggested location, please construct the hydrant east of the existing driveway at STA 5+87.5.			
We propose to move the fire hydrant location 6' West to Stn. 5+64. Please advise.							

U-0044	Unidentified 4ft x 6.5ft Wall Encountered in Minna St. - 1ft from FOC			Closed	12/15/2010	12/25/2010	12/20/2010	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By: AECOM Technical Service				Eric Zagol
Co-Author:										
REQUEST:			SUGGESTION:			ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference: Sheet U-1007, attached sketch of section from						Demolish and remove structure as required to				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Trinet RFI 22 and documentation of notifications to USA North</p> <p>See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U-1007, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 4' x 6.5' wall (bottom was not found) at 1' from north face of curb and 18" to cover that Trinet encountered in the east wall of the trench. Per the same note, Trinet requests "direction on the demolition" of this structure.</p> <p>Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.</p>						
<hr/>							
U-0045	Unidentified Concrete Wall Encountered in Minna St. - in line with FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      David Hungerford		To: Turner Construction Compan   Kevin Chiu	Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:            Accept Suggestion: <input type="checkbox"/>				
Reference: Sheet U-1007, attached sketch of section from Trinet RFI 23 and documentation of notifications to USA North		Two part question, responses are as follows:					
See the attached section through the investigative trench at station 2 + 29.68 on Minna St. Per note 4 on sheet U-1007, Trinet hereby requests that Webcor "notify TJPA" of the unidentified concrete wall (bottom was not found) in line with the north face of curb and 30" to cover that Trinet encountered in their trenching. Per the same note, Trinet requests "direction on the demolition" of this structure. Also, this wall may effect Trinet's ability to build the catchbasin at Station 2+13.		1. In reference to the exposed concrete wall, TJPA Representative to confirm that the concrete wall exposed is an old sub sidewalk basement backfilled with concrete during construction of the 101 Second St. building.					
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.		2. In reference to "this wall may effect Trinet's ability to build the catchbasin at Station 2+13", pothole in accordance with the contract documents at catch basin location to identify any conflicts.					
		Answered by Eric Zagol AECOM 12/29/2010					



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 30 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0046	Unidentified Concrete Wall Encountered in Fremont St. - in line with FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1008, attached sketch of section from Trinet RFI 24 and documentation of notifications to USA North					Accept Suggestion: <input type="checkbox"/>		
See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified concrete structure wall (the bottom was not found) at the east face of curb and 18" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this structure.					Unknown concrete wall to be demolished by Transit Center Project (NIP) within the area impacted by the CDSM shoring wall and mass excavation.		
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.					Answered by Eric Zagol AECOM 12/29/2010		
U-0047	Unidentified 3in Pipe Encountered in Fremont St. - 5ft-8in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan      Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1008, attached sketch of section from Trinet RFI 25 and documentation of notifications to USA North					Accept Suggestion: <input type="checkbox"/>		
See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 3"steel pipe at 5'-8" from the east face of curb and 4'-3" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.					Unknown unforeseen existing utility condition.		
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.					In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:		
					Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to		

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
					<p>identify contents and operating status of utility (i.e. abandoned or operational.)</p> <p>Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.</p> <p>Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.</p>		
U-0048	Unidentified 3in Pipe Encountered in Fremont St. - 6ft-10in from FOC	Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>
<p><b>From:</b> Webcor Construction LP      David Hungerford      <b>To:</b> Turner Construction Compan   Kevin Chiu</p> <p><b>Co-Author:</b></p>			<p><b>Answered By:</b> AECOM Technical Service   Eric Zagol</p>				
<p><b>REQUEST:</b></p> <p>Reference: Sheet U-1008, attached sketch of section from Trinet RFI 26 and documentation of notifications to USA North</p> <p>See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 3" steel pipe at 6'-10" from the east face of curb and 18" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.</p> <p>Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.</p>			<p><b>SUGGESTION:</b></p>			<p><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/></p> <p>Unknown unforeseen existing utility condition.</p> <p>In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:</p> <p>Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)</p>	





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 32 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.

U-0049	Unidentified 1in Pipe Encountered in Fremont St. - 6ft-10in from FOC			Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By: AECOM Technical Service				Eric Zagol

Co-Author:

**REQUEST:**

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 27 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 1" steel pipe at 6'-10" from the east face of curb and 4'-3" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 33 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0050	Lower Sewer Laterals on Minna	Closed	12/15/2010	12/25/2010	01/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Mario Saldana Sr. To: Turner Construction Compan Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			ANSWER:				
Reference: Sheets U-3007 & 3008, and Trinet RFI 41			Accept Suggestion: <input type="checkbox"/>				
Two of the active sewer service laterals potholed on Minna St. are lower than the new sewer main and will not drain. The details of each issue are as follows: 1. Station 5+05 - Service for #2 Shaw Alley Top of pipe grade @ FOC for the 6" VCP sewer lateral is 11.37 . The invert elevation is approximately 10.8. The invert elevation of the new 24" sewer main @ Station 5+05 is approximately 11.4  2. Station 2+10 - Service for Anchor & Hope Restaurant Top of pipe grade @ FOC for the 6" VCP sewer lateral is 13.51. The invert elevation is approximately 12.94. The invert of the new 18" VCP sewer main @ Station 2+10 is approximately 13.4.  Please review these issues and advise. An expedited response is requested by 12/16/10.			1/11/11  See revised Sewer Plan and Elevation Phase I Plans titled "Revisions - Minna Street 12/27/10" for revisions to sewer main elevations.  *****  12/27/10  Adjust new sewer main in Minna Street to accommodate existing laterals as shown in the "Minna Street Revisions" sheet revision forthcoming addressing both this RFI and RFI U-0017.				
U-0051	Unidentified 6in x 6in Concrete Duct Encountered in Fremont St. - 10ft-1in from FC	Closed	12/15/2010	12/25/2010	01/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
U-0052	Unidentified 12in Pipe Encountered in Fremont St. - 11ft-6in from FOC	Closed	12/15/2010	12/25/2010	12/20/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		David Hungerford	Answered By: AECOM Technical Service				
Co-Author:		To: Turner Construction Compan	Kevin Chiu Eric Zagol				

REQUEST:

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 30 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6in x 6in concrete duct at 10'-1" from the east face of curb and 5' to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 6"x6" conc. duct is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>	
	<div><div>REQUEST:</div><div>Reference: Sheet U-1008, attached sketch of section from Trinet RFI 32 and documentation of notifications to USA North</div><div>See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 12" steel pipe at 11'-6" from the east face of curb and 3'-6" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.</div><div>Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.</div></div>	<div><div>SUGGESTION:</div></div>			<div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Confirm with PG&amp;E that the 12" steel line identified is an abandoned PG&amp;E 12" cast iron gas main. Following confirmation from PG&amp;E, cut and cap existing abandoned 12" cast iron gas main at the demarcation line shown on U-1123.</div></div>			
U-0053	Unidentified 3in Pipe Encountered in Fremont St. - 10ft-3in from FOC	Closed		12/15/2010	12/25/2010	12/30/2010	Potentially <input type="checkbox"/>	
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan		Kevin Chiu	Answered By: AECOM Technical Service		Eric Zagol
Co-Author:								
	<div><div>REQUEST:</div><div>Reference: Sheet U-1008, attached sketch of section from Trinet RFI 31 and documentation of notifications to USA North</div><div>See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 3" steel pipe at 10'-3" from the east face of curb and 3'-10" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.</div><div>Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.</div></div>	<div><div>SUGGESTION:</div></div>			<div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Unknown unforeseen existing utility condition.</div><div>In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:</div><div>Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to</div></div>			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 36 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.

Note, 3" steel pipe is in the same alignment as PG&E's excavated manhole 1675. Coordinate with PG&E to see if PG&E has demolished this line.

U-0054	Unidentified Pair of 4in Pipes Encountered in Fremont St. - 22ft from FOC		Closed	12/15/2010	12/25/2010	12/30/2010	Potentially	<input type="checkbox"/>		
From: Webcor Construction LP		David Hungerford	To: Turner Construction Compan	Kevin Chiu	Answered By:AECOM Technical Service				Eric Zagol	
Co-Author:										
REQUEST:			SUGGESTION:			ANSWER:			Accept Suggestion:	<input type="checkbox"/>
Reference: Sheet U-1008, attached sketch of section from Trinet RFI 33 and documentation of notifications to USA North						Unknown unforeseen existing utility condition.				
See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified pair of 4" steel pipes at 22' from the west face of curb and 2'-7" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.						In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:				
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.						Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If				

Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
 30100 - Transbay Transit Center Project



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**From:** Webcor Construction LP

David Hungerford

**To:** Turner Construction Compan Kevin Chiu

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 35 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 4" steel pipe at 12'-3" from the west face of curb and 2' to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Confirm 4" steel pipe is SFPUC BLHP street light conduit as shown in the Plans. Once confirmed demolish in accordance with the Demolition Plans.

**U-0057**

**Unidentified 2.5in Pipes Encountered in Fremont St. - 4ft 10in from FOC**

**Closed**

**12/15/2010**

**12/25/2010**

**12/30/2010**

**Potentially**



**From:** Webcor Construction LP

David Hungerford

**To:** Turner Construction Compan Kevin Chiu

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Reference: Sheet U-1008, attached sketch of section from Trinet RFI 36 and documentation of notifications to USA North

See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified pair of 2.5" steel pipes at 4'-10" from the west face of curb and 21" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Unknown unforeseen existing utility condition.

In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 39 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
				identify contents and operating status of utility (i.e. abandoned or operational.)			
				Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.			
				Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.			
				Note, 2-2.5" steel pipes are in the same alignment as PG&E's excavated manhole 1674. Coordinate with PG&E to see if PG&E has demolished this line.			
U-0058	Unidentified 4in Pipe Encountered in Fremont St. - 2ft from FOC	Closed	12/15/2010	12/25/2010	12/29/2010	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu		Answered By:	AECOM Technical Service	Eric Zagol		
	Co-Author:						
	REQUEST:	SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>		
	Reference: Sheet U-1008, attached sketch of section from Trinet RFI 37 and documentation of notifications to USA North		Confirm 4" steel pipe is SFPUC BLHP street light conduit as shown in the Plans. Once confirmed demolish in accordance with the Demolition Plans.				
	See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 4" steel pipe at 2' from the west face of curb and 15" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.		Answered by Eric Zagol AECOM 12/29/2010				
	Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.						



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0059	Unidentified 6in Pipe Encountered in Fremont St. - in line with FOC	Closed	12/15/2010	12/25/2010	01/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1008, attached sketch of section from Trinet RFI 38 and documentation of notifications to USA North					Accept Suggestion: <input type="checkbox"/>		
See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6" clay pipe at the west face of curb and 4'-7" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.					Possible existing Transbay Terminal sewer laterals. Coordinate with Existing Terminal & Ramps Demolition Plans Project (Demolition Project) through the TJPA Representative to confirm that the Demolition Project has abandoned sewer laterals. Sewer laterals should be abandoned per SFDPW Standards.		
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.					Once confirmed abandoned, cut and plug at the demarcation line shown in the Drawings.		
U-0060	Unidentified 6in Pipe Encountered in Fremont St. - in line with FOC	Closed	12/15/2010	12/25/2010	01/04/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference: Sheet U-1008, attached sketch of section from Trinet RFI 39 and documentation of notifications to USA North					Accept Suggestion: <input type="checkbox"/>		
See the attached section through the investigative trench at station 4+40 on Fremont St. Per note 4 on sheet U-1008, Trinet hereby requests that Webcor "notify TJPA" of the unidentified 6" clay pipe in line with the west face of curb and 6'-6" to cover that Trinet encountered in their trenching which was not indicated on the contract plan. Per the same note, Trinet requests "direction on the demolition" of this line.					Possible existing Transbay Terminal sewer laterals. Coordinate with Existing Terminal & Ramps Demolition Plans Project (Demolition Project) through the TJPA Representative to confirm that the Demolition Project has abandoned sewer laterals. Sewer laterals should be abandoned per SFDPW Standards.		
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/16/10.					Once confirmed abandoned, cut and plug at the demarcation line shown in the Drawings.		





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 41 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0061	Revised drawing for 8" water line on Minna St. at Second St.	Closed	12/20/2010	12/30/2010	12/21/2010	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Mario Saldana Sr. To: Turner Construction Company Kevin Chiu			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-3407				Please see the attached sketch that shows revisions to the water line along Minna Street as a result of the Joint Trench realignment due to the sub sidewalk basement conflict at 133 Second St.			
Please provide drawing for the 8" water line and vertical / hydrant installation on Minna St. (reference RFI U-0017 response) west of Station 1+02. Please provide A.S.A.P. as field construction should be at this point by Tuesday pm.							
U-0062	Unidentified 8in Pipe Encountered in Fremont St. - 8ft 3in from FOC	Closed	12/22/2010	01/01/2011	01/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Company Kevin Chiu			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
Reference: Sheet U-1008 (dated 2010.09.29) and attached sketch from Trinet				Unknown unforeseen existing utility condition.			
See attached section through the investigative trench at Station 4+40 on Fremont St. Per note 4, on sheet U-1008 Trinet requests direction on an unidentified 8" steel pipe found 8'-3" from the East face of curb and 4'-4" to cover that was encountered but not indicated on the contract documents.				In accordance with specification 00 08 10 section 1.3 EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:			
Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this pipe by 12/27/10.				Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)			
				Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.			
				Once the utility has been identified including owner and contents, and determined inactive or de-			

Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
 30100 - Transbay Transit Center Project



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 43 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

See attached, plan views of the investigative trench on the East side of First St, West of the concrete MUNI median, from Stn. 9+70 to 9+59.5. Per note 4 on sheet U -1007, Trinet requests direction on the 4" Cardboard Pipe found 2'-0" West of the concrete MUNI median face of curb and 3'-6" to cover that was encountered but not indicated on the plans.

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/23/10.

EXISTING UTILITIES NOT INDICATED and specification 020630 section 4.1 POTHOLING AND TRENCHING OPERATIONS paragraph C, please proceed with the following in order to identify all interfering utilities that are unknown after all specified procedures or other non destructive methods proposed by the contractor have been exhausted:

Pipe: If conductive material, perform subsurface investigation via electromagnetic detection (or other nondestructive methods) to trace utility back to nearest vault, pull box, manhole or valve to identify owner and content. If nonconductive, excavate along pipe alignment to expose coating and a joint. Inspect and provide information on coating and joint type. If content is still unknown, tap each line in order to identify contents and operating status of utility (i.e. abandoned or operational.)

Conduit and duct bank: Determine if utility is a charged electric utility utilizing a contractor that performs NETA type work. Determine if telecommunication cables are operational.

Once the utility has been identified including owner and contents, and determined inactive or de-energized, cut and cap utility at the demolition demarcation line shown in the drawings.

**U-0065**                      **Two Unidentified 4" Pipes in First St. Invest Trench from Stn. 10+00 to 9+70**                      **Closed**

**From:** Webcor Construction LP                      David Hungerford                      **To:** Turner Construction Compan   Kevin Chiu

**12/23/2010**                      **01/02/2011**                      **12/29/2010**                      **Potentially** ☐

**Answered By:** AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Reference: Sheet U-1007, attached sketch of areas in plan and section, attached USA North tickets

See attached plan and section through the investigative trench on the East side of First St. from Stn. 10+00 to 9+70. Per note 4 on sheet U-1007 Trinet requests

**SUGGESTION:**

**ANSWER:**                      **Accept Suggestion:** ☐

Confirm 2-4" concrete and redwood encased pipes are the inactive 2-3" AT&T conduits from AT&T manhole TMH1887 to the Existing Transbay Terminal as shown in the Plans. Once confirmed demolish in accordance with the Demolition Plans.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 44 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

direction regarding the two 4" concrete and redwood encased pipes found at the East face of curb and down 2'-3" that was encountered but not indicated on the plans.

Answered by Eric Zagol  
AECOM 12/29/2010

Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this facility by 12/27/10.

U-0066	Minna St Station 2+09 - 4" Water Service Lateral Encountered	Closed	12/23/2010	01/02/2011	12/28/2010	Potentially	<input type="checkbox"/>
--------	--	--------	------------	------------	------------	-------------	--------------------------

**From:** Webcor Construction LP      David Hungerford      **To:** Turner Construction Compan   Kevin Chiu

**Answered By:** AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Refer to Sheet U-3107

**SUGGESTION:**

During the water installation on Minna St we encountered an existing 4" water service lateral at Sta 2+09. The 4" service extends from the old 8" water main to 83 Minna St (Anchor & Hope Restaurant). This is in addition to a 1" service lateral to the same building which we encountered at station 2+09. The contract drawings only show the 1" water lateral service connecting to the new main.

Please advise if the existing 4" service lateral is active and if it must be connected to the new water main. There was no material on site to install a tee in the line, and to avoid delaying the work, the new water main isntallation continued past the 4" service lateral. The recommendation is that if the 4" service line needs to be connected to the new main, work can be performed by SFWD as an additional tie-in.

**ANSWER:**

**Accept Suggestion:** ☐

Existing 4-inch service for 83 Minna Street is indicated in specification 331160 Appendix A. Service is an active fire service to 83 Minna Street and must be connected to the new 8-inch water main.

Furnish and install 8"x8"x4" tee with joint restraint in accordance with the specifications. Furnish and install service 4-inch DIP, fittings and valve. Set 4-inch service and valve elevation to match existing 4-inch service elevation.

Connection from new 4-inch service valve to existing 4-inch service by SFWD.

Answered by Eric Zagol  
AECOM 12/28/2010

U-0066.1	Minna St Station 2+09 - 4in Water Service Lateral Encountered	Closed	01/10/2011	01/20/2011	01/14/2011	Potentially	<input type="checkbox"/>
----------	---	--------	------------	------------	------------	-------------	--------------------------

**From:** Webcor Construction LP      Jason Dunne      **To:** Turner Construction Compan   Kevin Chiu

**Answered By:** AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Reference Sheet U-3107 and Trinet RFI 059.1

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Construct water serive lateral in accordance with



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 45 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>This is a follow up to the engineer's response to Trinet RFI #59 (RFI#U-0066). Upon further evaluation of the 4" fire service connection at 83 Minna by Tom Farhnam (SFWD Senior Inspector), the water department proposed the attached installation detail for an 8"x4" tee in the 8" main, to be performed by Trinet, and the connection detail to the existing 4" service, to be performed later by the SFWD crew. This change was proposed to avoid conflicting utilities running along the south side of teh new 8" main. AECOM's Design Engineer, Eric Zagol, was advised of the changed design plan proposed by SFWD in the field on 12/28/2010. Please confirm if the attached plan is acceptable and approved for construction.</p>						<p>contractor's attached plan and note the following:</p> <p>1. Provide full joint restraint in accordance with contract documents</p> <p>2. Provide 4" DI pipe for the section labeled "9" DI NIPPLE"</p>
U-0067	Buried Manhole in First St. Invest Trench - 15ft 7in from FOC	Closed	12/23/2010	01/02/2011	12/28/2010	Potentially	<input type="checkbox"/>
<p>From: Webcor Construction LP                      David Hungerford                      To: Turner Construction Compan   Kevin Chiu</p> <p>Co-Author:</p> <p>REQUEST:</p> <p>Reference: Sheet U-1007, attached section and plan sketches, and attached documentation of notifications to USA North</p> <p>See the highlighted man hole on attached plan and section through the investigative trench on the East side of First St.from Stn. 10+00 to 9+70. Per note 4 on sheet U-1007 Trinet requests direction regarding the unidentified manhole found 15'-7" from the East face of curb and buried 4'-6" deep that was encountered but not indicated on the contract plans.</p> <p>Trinet has this plated but would like to backfill the trench as soon as possible. An expedited response is requested with official direction on how to proceed with this wall by 12/27/10.</p>			<p>ANSWER:</p> <p>Manhole appears to be an abandoned separated sanitary sewer manhole.</p> <p>Please provide data on utility material (e.g. brick) and condition (e.g. filled with sand or concrete) in accordance with 02630 4.1 G.5 such that the demolition can be determined.</p> <p>Answered by Eric Zagol AECOM 12/28/2010</p>				
U-0068	Minna St Water Main Conflict w Abandoned Sewer MH	Closed	12/23/2010	01/02/2011	12/27/2010	Potentially	<input type="checkbox"/>
<p>From: Webcor Construction LP                      David Hungerford                      To: Turner Construction Compan   Kevin Chiu</p>			<p>Answered By:AECOM Technical Service Eric Zagol</p>				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:****REQUEST:**

See attached drawings and photos

During the water main installation on Minna St, Trinet encountered what appears to be an old abandoned sewer manhole in the trench line at station 1+15. The structure was not indicated on the drawings and was not discovered until the pavement asphalt was removed. The sewer manhole is directly in conflict with the alignment of the new water main. The installation of the watermain cannot proceed further until the manhole is demolished and/or abandoned.

Per a field walk with Eric Zagol on 12/23/10, the existing MH was confirmed abandoned. Please confirm/advise the top of the MH will be demolished to allow the installation of the waterline, and the MH will be backfilled with CDF.

\*\*\*\*Please provide direction by 12/28/10.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

1. Remove and dispose of existing abandoned separated sanitary sewer system manhole to a depth of 1 foot below bottom of new water main.
2. Plug existing abandoned 8-inch sanitary sewer with concrete per 024100 3.6 A.
3. Backfill abandoned manhole with CDF to an elevation 1 foot below bottom of new water main.
4. Provide 6-inches of bedding material between CDF and bottom of trench bedding per Detail 7 on Sheet U-5101 such that the total depth of trench bedding crossing the abandoned structure is 1 foot.

Answered by Eric Zagol  
AECOM 12/27/2010

<b>U-0069</b>	<b>Street Light CCTV Camera-East Side of Fremont St. @ Stn. 5+45</b>	<b>Closed</b>
<b>From:</b> Webcor Construction LP	Richard Buellbach	<b>To:</b> Turner Construction Company Kevin Chiu

**01/05/2011 01/15/2011 01/14/2011 Potentially** ☐

**Answered By:** AECOM Technical Service Eric Zagol

**Co-Author:****REQUEST:**

Reference Sheet U-3302 and Trinet RFI 62

During removal of the light pole arm on the east side of Fremont St. @ Stn. 5+45, Trinet observed that there is a CCTV camera and associated wiring on the light pole. Please advise of the plan for removal of CCTV camera.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

1/14/11

Remove and salvage existing CCTV camera as part of the traffic signal equipment removal. Deliver traffic signal equipment and camera to the Traffic Signal Shop Yard in accordance with specification 02 41 00 par. 3.4 C 4.

\*\*\*\*\*

1/12/11

Please clarify how this RFI relates to RFI U-0073  
"VOID - reference RFI U-0069"



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 47 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0070	Subsurface Structures in Conflict with Minna St. AT&T Vault	Closed	01/10/2011	01/20/2011	01/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jason Dunne To: Turner Construction Company Kevin Chiu			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>		
Reference Sheet U-2008 and Trinet RFI 63			As determined during a site visit on 1/10/11 with W/O, Turner, AECOM and Tishman Speyer, the exposed wall is an abandoned sidewalk basement wall. Remove and dispose of existing abandoned sidewalk basement wall as required (approx. 1.5 feet in depth) to construct proposed AT&T vault.				
During our potholing on Minna St. for the proposed AT&T vault in the sidewalk (Stn. 3+72), we encountered an existing subsurface foundation and slurry shoring wall. The top of the subsurface foundation is at a depth of approximately 4' from the top of the sidewalk and is in conflict with the installation of the proposed AT&T vault. Installation of the proposed AT&T vault in accordance with the plans will require partial demolition of the existing foundation wall encountered. Please advise.							
<hr/>							
U-0071	Existing fittings at tie in location for Minna St. 8 in. Water Main (Stn. 9+30)	Closed	01/10/2011	01/20/2011	01/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Richard Buellesbach To: Turner Construction Company Kevin Chiu			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>		
Reference Sheet U-3109 and Trinet RFI 64			Provide labor and equipment to excavate and shore trench for pipes, fittings, and valves as necessary for connections to the existing water mains by SFWD in accordance with U-3100 Note 4 and specification section 33 11 00 par. 3.5.				
Due to the presence of existing fittings installed in the existing 8 inch water main at our tie in location (Stn. 9+30) at First St. and Minna St. for the new 8 inch water main on Minna St., SFWD inspector Dan Helmnik has requested to extend the limits of the tie in excavation beyond the locations of the existing fittings. This is beyond what would normally be required for a tie in of this nature. Existing conditions were reviewed in the field by W/O, Turner, SFWD, Eric Zagol from Aecom, and Trinet personnel.							
Please advise. An expedited response is requested.							
<hr/>							
U-0072	Fremont St traffic Signal Pole to be removed and salvaged - has Muni Cable attach	Closed	01/10/2011	01/20/2011	01/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP David Hungerford To: Turner Construction Company Kevin Chiu			Answered By: Turner Construction Company Jack Adams				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>		
Reference Sheet U-3302 and Trinet RFI 65			J. Adams 01/18/2011				





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>		
	<p>Per contract, Trinet is required to remove and salvage the existing light pole indicated in the attached drawing. Through observation in the field, the existing light pole has a MUNI cable attached which runs to the intersection of Fremont St. and Mission St.. Based on these findings, should the light pole be removed as indicated? Mario Saldana from W/O was present when this item was observed and issue has been discussed with Eric Zagol from AECOM.</p> <p>Please advise. An expedited response is requested by 01/12/2011.</p>				<p>These are MUNI OCS Poles not Lighting Poles. Both OCS poles along east side of Fremont near 301 Mission Tower are in use by MUNI OCS System. MUNI has designated each OCS pole to hold different guy wires at Fremont and Mission see Demolition drawing Sheet 105 of 137. The poles are to remain and be deleted from Webcor-Obayashi/Trinet scope.</p> <p>NOTE: Evans Bros Subcontractor Reliance Electric are to correct OCS cables to both of these OCS Poles. Reference Demolition drawing plan sheet 105 of 137. A second cable will be installed at OCS Pole 4030 and the cable will be reinstalled at OCS Pole directly north of Pole 4030 per contract.</p> <p>*****</p> <p>J. Adams 01/13/2011</p> <p>The MUNI Overhead Contact System (OCS) Pole in question not light pole. This OCS pole was to have the guy wires relocated to nearby MUNI OCS Pole by the Demolition Contractor in July 2010 during mods to Transbay Terminal MUNI OCS system. Demo drawing plan sheet 105 of 137 shows the guy wires relocated to pole 4030 - this is in EBi scope.</p> <p>Pole 4030 is shown to remain per Demo drawing above - But, Pole 4030 is shown to be removed per RUP U-3302 .</p> <p>It should be noted that upon relocation of this OCS guywire the removal of the pole is Webcor-Obayashi scope per drawing U-3302.</p> <p>*****</p> <p>E. Zagol 01/13/2011</p> <p>Change in existing conditions. New MUNI guy wire was attached to existing pole at STA 5+45 as part of the Existing Terminal &amp; Ramps Demolition Plans project.</p> <p>1. Remove and salvage traffic signal equipment per U-</p>				





Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
			3302.				
			2. Protect in place existing MUNI pole.				
			*****				
			E. Zagol 01/12/2011				
			Change in existing conditions. New MUNI guy wire was attached to existing pole at STA 5+45 as part of the Existing Terminal & Ramps Demolition Plans project. Existing Terminal & Ramps Demolition Plans project to remove the MUNI pole at STA 5+60.				
			1. Remove and salvage traffic signal equipment per U-3302.				
			2. Protect in place existing MUNI pole at STA 5+60.				
U-0073	Fremont St. Light Pole and Muni Cables to be protected - indicated light pole has r Closed		01/10/2011	01/20/2011		Potentially	<input type="checkbox"/>
	From: Webcor Construction LP David Hungerford To: Turner Construction Compan Kevin Chiu		Answered By:				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>		
Reference Sheet U-3302 Traffic Signal E and Trinet RFI 66							
As indicated on the plans, Trinet is required to "Remove and Salvage Traffic Signal Equipment. Protect Pole and Muni Cables in Place." Conditions were reviewed in the field and there is no Muni cable attached to the (E) light pole.							
Mario Saldana from W/O has observed there is a CCTV cable attached to the pole not mentioned in Trinet RFI 66 and requests clarification on ownership and status of the CCTV line. This issue has been discussed with Eric Zagol from AECOM.							
Please advise. An expedited response is requested by							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 50 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
01/12/2011.							
U-0074	Unidentified 9in Concrete Wall in First St Invest Trench - 10ft-5in west of Conc. Mu Closed		01/10/2011	01/20/2011	01/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jason Dunne		To: Turner Construction Compan Kevin Chiu	Answered By:AECOM Technical ServiceEric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/>				
Reference Sheet U-1007 Traffic Signal E and Trinet RFI 051			Unknown concrete wall to be demolished by Transit Center Project (NIP) within the area impacted by the CDSM shoring wall and mass excavation.				
See attached, plan views of the investigative trench on the east side of First St., west of the concrete Muni median, from Stn. 9+70 to 9+59.5. Per note 4 of sheet U-1007, Trinet requests that Webcor "notify TJPA" of the unidentified 9" concrete wall at 10ft-5in west of the concrete Muni median face of curb and 3ft-6in cover that Trinet encountered "not indicated on plans". Per same note, Trinet requests "direction on the demolition" of this structure. Trinet has plated but would like to backfill the trench as soon as possible. Please advise.							
U-0075	Water Main Connection at 2nd St and Minna St - expose new line for SFWD	Closed	01/11/2011	01/21/2011	01/12/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Mario Saldana		To: Turner Construction Compan Michelle Smith	Answered By:AECOM Technical ServiceEric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/>				
Reference Sheet U-3107 and attached photos			Provide labor and equipment to excavate and shore trench for pipes, fittings, and valves as necessary for connections to the existing water mains by SFWD in accordance with U-3100 Note 4 and specification section 33 11 00 par. 3.5.				
At the intersection of 2nd St and Minna St, there is an existing 2in gas line running directly on top and next to the existing 8in main to be tied into. SFWD cannot make the Tee connection due to the bells of the fittings with the 2in gas line so close.							
The end of the new line installed by Trinet will need to be exposed about 2ft for SFWD to move the end of the line by 1ft east so that SFWD can make the connection without moving the gas line. This will require extra work for Trinet to expose the new line for SFWD. Eric Zangol							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 51 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

from AECOM and Dan Helminiak from SFWD were present during the discussion of this issue.

Please provide direction as soon as possible as this will impact the chlorination and tie-in schedule.

<b>U-0076</b>	<b>Water Main Connection at 2nd St and Minna St - demo/excavate per SFWD</b>	<b>Closed</b>	<b>01/11/2011</b>	<b>01/21/2011</b>	<b>01/14/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Mario Saldana	<b>To:</b> Turner Construction Compan	Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

Reference Sheet U-3107 and attached photos

At the intersection of 2nd St and Minna St, the new 8in water main is to be connected to an existing 6in water line. The new 8in line installed by Trinet is above and below existing utilities, and SFWD requires more demo/excavation to make the connection.

This will require extra work for Trinet to demo/excavate per SFWD. Inspector Dan Helminiak is scheduling the SFWD to come back and measure this afternoon (01/11/2011). Eric Zangol from AECOM was also present during the discussion of this issue.

Please provide direction as soon as possible as this will impact the chlorination and tie-in schedule.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Provide labor and equipment to excavate and shore trench for pipes, fittings, and valves as necessary for connections to the existing water mains by SFWD in accordance with U-3100 Note 4 and specification section 33 11 00 par. 3.5.

<b>U-0077</b>	<b>Fire Hydrant Installation at Minna St Stn. 0+90</b>	<b>Closed</b>	<b>01/12/2011</b>	<b>01/22/2011</b>	<b>01/14/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	David Hungerford	<b>To:</b> Turner Construction Compan	Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

Reference Sheet U-3107

With reference to the fire hydrant at Minna St. Stn. 0+90, (northeast corner of Second St. and Minna St.) General Note #5 on sheet U-3107 directs Trinet to "replace in place existing fire hydrant."

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

As discussed on site with Daniel Helminiak (SFPUC Inspector) and those mentioned above, the proposed construction sequencing of the fire hydrant at Minna St. STA 0+90 is acceptable.

Coordinate with Daniel Helminiak (or assigned SFPUC



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 52 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Per on site field discussions with Eric Zagol from AECOM, Robert Friend from Trinet and Mario Saldana from W/O, it was determined that the existing hydrant would remain in place until after the new water main connections are performed by CDD crews. After which the existing hydrant will be removed and new hydrant and lateral piping will be installed and tested.</p> <p>Please confirm if this is acceptable. An expedited response is requested.</p>						<p>Inspector) and the SFWD to ensure the fire hydrant is properly decommissioned by SFWD and SFFD following main connections by SFWD and prior to abandonment of the existing main in Minna Street by SFWD prior to fire hydrant installation by Trinet. Coordinate with SFPUC inspector to ensure SFWD and SFFD installs a black hydrant "donut" on the existing fire hydrant and new fire hydrant prior to the new fire hydrant being placed in service. Coordinate the removal of the "donut" once new fire hydrant is in service.</p>
U-0078	6in and 4in Service Laterals to 2 Shaw Alley	Closed	01/12/2011	01/22/2011	01/14/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford		To: Turner Construction Compan	Michelle Smith				
Co-Author:		Answered By:AECOM Technical Service Eric Zagol					
REQUEST:		SUGGESTION:		ANSWER:			
Reference Sheet U-2008				Accept Suggestion: <input type="checkbox"/>			
<p>The existing 4" water service found at Stn. 5+37 has been confirmed abandoned by SFWD personnel through on site investigations. Since the service is determined to be inactive, Trinet intends to not provide service from the new main for this 4" service as discussed in the field, with Eric Zagol from AECOM, Mario Saldana from W/O, Dan Helminick from SFWD and Robert Friend from Trinet. In addition, Dan Helmnick from SFWD requested to have the service tee installed in the new 8" main which was to provide service for this 4" lateral removed and straight pipe installed. Please confirm if this is acceptable.</p> <p>The 6" water service lateral found at Stn. 5+30 has been confirmed as an active fire service to 2 Shaw Alley by SFWD personnel through on site investigations. Trinet intends to provide service from the new water main for this 6" service as discussed in the field with Eric Zangol from AECOM, Mario Saldana from W/O, Dan Helminiak from SFWD and Robert Friend from Trinet.</p> <p>An expedited response is requested.</p>				<p>Existing 4" water service at STA 5+37. Subsurface utility investigations should have been performed and submitted prior to installation of water main to determine status of existing lateral in accordance with U-3108 General Note No. 3. It is acceptable to remove the 8"x8"x4" tee installed and replace with straight pipe per the request of SFPUC SFWD inspector.</p> <p>Provide 6" water service later at STA 5+30 per contract documents.</p> <p>AECOM suggests that there is no change in contract price to perform this work.</p>			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0079	Fremont St Temp Water Line Installed over AT&T Duct	Closed	01/17/2011	01/27/2011	01/19/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference Sheet U-3123 and attached detail					Accept Suggestion: <input type="checkbox"/>		
During Trinet's installation of the temporary water line in Fremont St., Trinet encountered an existing AT&T duct that was in direct conflict with the temporary water line. Trinet was directed by Eugene Chu of SFWD/SFPUC to run the temporary water line over the existing AT&T duct using 45 degree bends. This resulted in less cover for the piping than what is required by the Water Department. Due to the lack of cover, Trinet was directed to install a 1/2in steel plate beneath the concrete base along the trench as depicted in the attached detail. The plate was approximately 2ft wide by 6ft long and extended to the limits of the installed 45 degree bends. Please provide confirmation that this is acceptable.					It is AECOM's understanding that Trinet encounter an existing PG&E electrical duct (4-4") crossing the water alignment feeding 301 Mission property and not an AT&T duct as referenced above. It is also AECOM's understanding that Trinet encountered an existing PG&E electrical duct (8-3") parallel to the water alignment which is ultimately to be abandoned by PG&E and demolished by Trinet. Both PG&E ducts are shown in the plans. Per sequencing shown on U-1123, the water line should be constructed after PG&E completes their work on Fremont Street.		
					Given the fact that the PG&E duct parallel (8-3") has not been abandoned by PG&E, and given the fact the option to go under the existing 4-4" PG&E duct per plans is not feasible because the existing 8-3" PG&E duct is not demolished, and given the fact that the new water main is a temporary condition, the above mentioned installation proposal is acceptable.		
					AECOM suggests no additional cost to contract price to perform this work.		

U-0080	Proposed Design Change for MH #501	Closed	01/17/2011	01/27/2011	01/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference Sheet U-2021 and attached drawings					Accept Suggestion: <input type="checkbox"/>		
Trinet proposes to change the design of sewer manhole #501 from a Modified Box Manhole (per SF Standard Plan #87,184) to a Precast Concrete Manhole (per SF Standard Plan #87,181 - see attached drawing). The proposal includes the installation of a temporary 24" PVC pipe stub, extending south from the manhole and connected to the brick sewer per SF Standard Plan #87,197.					CCSF DPW Standard Plan #87,181 referenced specifies a 4 ft diameter precast concrete manhole. Three (3) 24-inch pipes connecting to a 4 ft diameter manhole at invert elevation as proposed by contractor may yield an unstable structure and is not approved. A larger diameter precast concrete manhole may be acceptable however the alternative would need to be submitted as a substitution for CCSF SFDPW approval.		
The proposed manhole design will facilitate construction around the many utilities identified in the excavation - see RFI # U-0021 (Trinet RFI 04). It is also the preferred manhole design for 24in pipe per the SF Standard					As per the response to RFI U-0021, please provide a mark up of U-3021 indicating the size, and horizontal and vertical location of the utilities identified in the excavation for review.		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 54 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>Drawings, especially since the brick sewer on the south side will later be abandoned and plugged (in the manhole) by the owner. This plan will also facilitate the later abandonment of the outlet to the south, as the owner will just have to plug the 24in outlet pipe and not a 3x5 brick sewer.</div> <div>Please consider. An expedited response is requested.</div>							
U-0080.1	Proposed Design Change for MH #501	Closed	02/09/2011	02/18/2011	02/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Michelle Smith		Answered By:Turner Construction Comp Kevin Chiu			
Co-Author:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
REQUEST:				02/22/2011 - Kevin Chiu			
Reference Sheet U-2021, RFI #U-0080, and attached drawings				A Change Request (CR) may be issued for the accepted substitution of the 5-foot diameter precast concrete manhole in lieu of the cast in place Modified Box Manhole.			
In response to the Engineer's concerns with the number and size of pipes in Trinet's original revised detail for MH 501 (RFI#U-0080), Trinet has changed their proposed installation drawing to include a 5' I.D. cast-in-place MH base. The lower precast section of the MH will be 5' I.D., with a precast reducer section transitioning from 60" to 48" I.D. placed above. Attached is the revised drawing for MH 501 and shop drawings for the precast MH sections. The design was discussed with Cliff Wong from the SF Bureau of Engineering, Hydraulics Department, and he did not have a problem with a 5' I.D. manhole.				----- 02/18/2011 - Eric Zagol			
Trinet requests an expedited response.				The proposed design change for sewer manhole #501 from a Modified Box Manhole per SFDPW Standard Plan #87,184 included in the contract documents to a 5-foot diameter precast concrete manhole with a temporary 24" PVC pipe connection to the existing 3'x5' brick sewer per SFDPW Standard Plan #87,197 is acceptable.			
				Provide flexible pipe connections to the 5-foot diameter precast concrete manhole as shown in SFDPW Standard Plan #87,181.			
				As per the response to RFI U-0080 and U-0021, please provide a markup of U-3021 indicating the size, and horizontal and vertical location of the utilities identified in conflict for review. This request is now 7			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 55 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

weeks outstanding.

AECOM suggests a cost credit for the substitution of the 5-foot diameter precast concrete manhole for the larger cast in place Modified Box Manhole per contract documents.

<b>U-0081</b>	<b>Water Main Alignment - Howard St STA18+72 and STA19+98</b>	<b>Closed</b>	<b>01/19/2011</b>	<b>01/28/2011</b>	<b>01/24/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP      Nhi Tran      **To:** Turner Construction Compan   Michelle Smith

**Answered By:** AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

Reference Sheet U-3119 and attached drawing

Please confirm that it is acceptable for M Squared to install the new 12in water line in a straight line as sketched on the attachment. Contract Drawings show the pipe offsetting between Sta 18+72 and Sta 19+98. Due to existing utilities discovered in potholes the 12in line will be installed 18ft from centerline.

Also, please confirm the elevations of the water line can be raised dependant on the depths of the existing utilities

Also, the referenced drawing has a discrepancy shown between the 12in water line bend station called out and the location shown in plan view. Please confirm that the first 45degree bend is located at 18+72, and not 18+27.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

1. Contract Drawings indicate an offset to avoid a bus island, as shown on the plans, that was to be constructed as part of the Transbay Temporary Terminal Project. AECOM received confirmation from Philip Sandri TJP/PMPC that the bus island was deleted from the Transbay Terminal Project. It is acceptable to eliminate the offset and construct water main between STA 18+72 and STA 19+98 at 18ft from centerline.

2. Elevations of the water line can be raised dependant on the depth of the existing utilities. Minimum depth of cover shall be 18-inches below the bottom of the concrete base pavement section per DPW Order No. 176,707 or 28" which ever is greater.

3. 45 degree at STA 18+72. 45 degree bend no longer required due to response provided in item 1 above.

<b>U-0082</b>	<b>Sewer System Quality Assurance Clarification</b>	<b>Closed</b>	<b>01/19/2011</b>	<b>01/29/2011</b>	<b>01/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
---------------	---	---------------	-------------------	-------------------	-------------------	--------------------	--------------------------

**From:** Webcor Construction LP      Nhi Tran      **To:** Turner Construction Compan   Michelle Smith

**Answered By:** Turner Construction Comp Michelle Smith

**Co-Author:**

**REQUEST:**

Reference Specifications Section 33 31 10, 1.4.E

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

For general materials, please follow the specification



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 57 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div><div>REQUEST:</div><div>Reference Sheet U-3118</div><div>Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18ft south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16ft south of the Howard St centerline. Also there is a 6ft x 6ft wooden telecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings.</div><div>This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 ½ 15ft from Howard St centerline)</div><div>Please confirm the alignment of the new 12in water main.</div></div>	<div>SUGGESTION:</div>			<div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Existing 6-inch steel pipe appears to be a 6-inch cast iron abandoned PG&amp;E gas main. Confirm the "6ft x 6ft wooden telecom duct bank" is a 6-inch x 6-inch wooden duct bank and is abandoned.</div><div>Refer to RFI # U-0083.1</div></div>		
U-0083.1	Water Main Alignment on Howard at Beale	Closed	01/24/2011	02/03/2011	01/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran		To: Turner Construction Compan   Michelle Smith		Answered By: AECOM Technical Service Eric Zagol			
Co-Author:							
	<div><div>REQUEST:</div><div>M Squared has confirmed that the wooden duct bank is a 6inch x 6 inch wooden duct bank and is abandoned.</div><div>Please direct M Squared on how to proceed.</div><div>*****</div><div>Question from U-0083:</div><div>Reference Sheet U-3118</div><div>Potholes on Beale Street at Sta 14+00, Sta 14+90 and Sta 16+25 reveal a 6in steel line that is unmarked and not shown on contract drawings. The line is 18ft south of the Howard St centerline. This is the proposed alignment for the new 12in water main. The pothole at Sta 14+00 also reveals a 3in steel conduit which is 16ft south of the</div></div>	<div>SUGGESTION:</div>			<div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Construct 12-inch water main at the location proposed; 15 ft south of Howard Street centerline. Remove and dispose of abandoned wooden duct bank and abandoned manhole as required to construct new 12-inch water main.</div><div>Refer to response provided for RFI U-0083.</div></div>		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 58 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<p>Howard St centerline. Also there is a 6in x 6in wooden telecom duct bank that runs east to west on Howard Street at 15ft south of the Howard Street centerline. This location offers the closest window for the new 12in water line to the original alignment shown in the contract drawings.</p> <p>This would require the removal of the wooden duct bank and the removal of the abandoned manhole shown on U-3118 (Sta 14+96 15ft from Howard St centerline)</p> <p>Please confirm the alignment of the new 12in water main.</p>							
U-0084	Water Main Alignment on Beale Street	Closed	01/21/2011	01/31/2011	01/25/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Michelle Smith		Answered By: AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Sheet U-3124				Contract drawings show existing 10-inch HPW (AWSS) at 9ft-7in from FOC. Contract drawings show existing 12-inch water line at 13 ft-11in from FOC.			
M Squared potholed at Sta 1+10 on Beale Street. We discovered that the 10in High pressure water line is 9ft-5in from the FOC. The existing 12in water line is 14ft-8in from the FOC. The 10in High Pressure line is closer to the FOC that shown on contract drawings. This now means that there is a larger window between the 10in high pressure water and the existing 12in water main.				Please clarify if dimensions provided by Contractor are to centerline of pipe.			
M Squared would like to install the new 12in water line at 12ft-3in from center line of the pipe to the FOC. This would mean the new 12in water line would be outside the parking strip and the parking strip would stay in tact. SFWD would also prefer it outside the parking strip for maintenance purposes.				Please provide depth to centerline of the existing 10-inch HPW (AWSS) potholed.			
Please confirm that it is acceptable to install the new 12in water line at 12ft-3in from FOC, going from Sta 0+60 to Sta 1+90.				Contractor's proposed location at 12ft-3in from FOC is in conflict with proposed Beale St. sewer main.			
				Following receipt of information requested, AECOM will evaluate if water line can be moved west of parking strip.			
U-0084.1	Water Main Alignment on Beale Street	Closed	02/18/2011	02/28/2011	02/24/2011	Potentially	<input type="checkbox"/>



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<div><div>From: Webcor Construction LP</div><div>Nhi Tran</div><div>To: Turner Construction Compan Michelle Smith</div><div>Answered By:AECOM Technical Service Eric Zagol</div></div>						
	<div><div>Co-Author:</div><div><div>REQUEST:</div><div>Reference Sheet U-3124 and RFI #U-0084</div><div>In response to the Engineer's questions, M Square has noted the following:<ul style="list-style-type: none"><li>- Yes, the dimensions provided are to centerline of the pipe</li><li>- Depth to centerline of existing 10-inch AWSS is 72-inches</li></ul></div><div><div>SUGGESTION:</div></div><div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>In reference RFI U-0084, it is not acceptable to install the new 12in water line at 12ft-3in from FOC, going from Sta 0+60 to Sta 1+90. As discussed during a site meeting with Noel M. (M2) and Mario S. (Webcor) on 2/11/11, construct 12-inch water line as shown on U-3124. Restore parking strip per Contract Documents.</div></div></div></div>						
U-0085	AT&T Duct Bank on Beale at STA 6+00	Closed	01/21/2011	01/31/2011	01/27/2011	Potentially	<input type="checkbox"/>
	<div><div>From: Webcor Construction LP</div><div>Nhi Tran</div><div>To: Turner Construction Compan Michelle Smith</div><div>Answered By:AECOM Technical Service Eric Zagol</div></div>						
	<div><div>Co-Author:</div><div><div>REQUEST:</div><div>Reference Sheet U-3125 and attached sketch</div><div>The existing 4no. 4in AT&amp;T lines on Beale Street at Sta 6+10 are not as shown on the contract drawings. See attached sketch. Contract drawings show the conduit crossing M Squared's trench for 6 or 7 feet, however the duct bank is in the trench for 37 feet due to the alignment and width of the duct bank. The conduits are covered with a 2 foot wide concrete cap and appear in the trench for the new 12in water main at Sta 6+12 before leaving the trench at Sta 5+75. M Squared cannot lay the pipe on top of the concrete cap as the pipe will not have the required coverage. Due to this M Squared is unable to install the new 12in water as shown. Juan with AT&amp;T advised that M Squared remove the concrete cap from the conduits to allow for excavation of this portion of trench. With the cap removed it is more likely that the pipe will have the necessary minimum coverage.</div><div>Please confirm that this is how M Squared is to proceed. An expedited reponse is requested.</div></div><div><div>SUGGESTION:</div></div><div><div>ANSWER:</div><div>Accept Suggestion: <input type="checkbox"/></div><div>Please proceed as per AT&amp;T's suggestion.</div><div>Please coordinate with AT&amp;T's representative Huan Hunynh and field representative Dave Olson for an onsite inspection by AT&amp;T of the affected AT&amp;T conduits prior to backfill.</div><div>Confirm minimum cover of 30-inches or 18-inches below concrete pavement base which ever is greater, is maintained.</div><div>Provide distance between top of water main and bottom of AT&amp;T conduits for review.</div></div></div>						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 60 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0086	Concrete Slab & Rail Ties at Howard STA 13+60	Closed	01/24/2011	02/03/2011	01/25/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Michelle Smith			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b>			<b>SUGGESTION:</b>		<b>ANSWER:</b>		
Reference Sheet U-3117 and attached sketch					<b>Accept Suggestion:</b> <input type="checkbox"/>		
M Squared potholed at Howard Sta 13+60. The pothole revealed a 15in thick concrete slab which is in conflict with the proposed alignment of the new 12in water line. M Squared broke out a cross section of the slab and found nothing in it. There was also nothing underneath the slab for 5.5 feet. The southern edge of the slab is 4 feet north of the Howard Street center line. M Squared also discovered 6inch x 8inch x 4foot-6inch wooden rail ties.					As discussed during a site visit on 1/25/11 with Noel (M Squared) and Mario S. (W/O) the Contractor's proposed alignment of 18-inches south of alignment per Plans is in conflict with the existing sewer (limited separation).		
If M Squared has to remove the concrete slab to install the water line at the alignment shown there is a danger that the MFS (fiber optic) conduits will be damaged as these conduits sit on top of the slab.					As discussed, pothole along Howard St. between Fremont St. and First St. to determine if 15-inch concrete slab is a local condition at the intersection of Howard and Fremont streets or if the slab extends to First St.		
Breaking off an 18in section of the concrete slab and also a section of the rail ties would allow M Squared to excavate and install the new water pipe, while keeping away from the MFS conduits and not damaging them. However this will be time consuming.							
An alternative option is to move the trench for the new 12in water pipe 18in south and just remove the wooden rail ties (as shown in sketch).							
Mario S. from W/O and Eric Z. from AECOM were present during the discussion of this issue with M Squared in the field.							
Please direct M Squared on how to proceed with the water line installation. An expedited response is requested							

U-0086.1	Concrete Slab & Rail Ties at Howard STA 13+60	Closed	02/03/2011	02/14/2011	02/04/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Michelle Smith			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b>			<b>SUGGESTION:</b>		<b>ANSWER:</b>		
As discussed at the meeting on Friday, 01/28/2011 between Noel (M2), Eric (AECOM) and Mario (Webcor) - due to existing utilities and the presence of the concrete					<b>Accept Suggestion:</b> <input type="checkbox"/>		
					Confirmed. See attached sketches SK-U-0003 and SK-U-0004 for the revised alignment.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 61 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

slab and rail ties found in the additional potholing that was requested (Ref. Response to RFI U-0086), the new 12in water main is to be installed 5ft from the northern FOC on Howard Street Sta 12+60 to Sta 9+50.

Please confirm.

U-0087	Compact Sewer Backfill Sand by Jetting	Closed	01/27/2011	02/06/2011	02/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service Eric Zagol	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference San Francisco Standard Specification Section 703.08, attached		Jetting in accordance with CCSF DPW Standard Specification Section 703.08 of the backfill layers above the sand backfill (pipe zone) as specified in CCSF DPW Standard Specification Section 703.06 for sewer installations is acceptable.					
Trinet requests authorization from the Engineer to compact the sewer trench backfill sand by jetting in accordance with the San Francisco Standard Specification Section 703.08.		Contractor shall determine that jetting will not result in damage to sewers, adjacent structures, or cause adjacent materials to be softened. Any resulting damage shall be repaired at the Contractors expense.					
The native material along Minna, which Trinet is re-using for trench backfill, is a clean well grade dune sand. Trinet believes jetting is an ideal method of compaction for this type of material. It is also an effective means of compacting the sand around the top and sides of the pipe without disturbing the pipe, and backfilling any voids left from removal of the shoring or that might have formed behind the shoring. This method of compaction is commonly utilized in San Francisco for sewer projects in similar ground conditions.		Meet compaction requirements for each horizontal lift. If compaction requirements are not met, discontinue the use of jetting.					
An expedited response is requested.		Notify TJPA's geotechnical engineer through the TJPA representative in advance of jetting to coordinate on-site observation of jetting and compaction testing.					

U-0088	Minna St 18in Sewer Conflict with PG&E MH#1355 at STA 1+77		Closed	01/28/2011	02/07/2011	03/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service Eric Zagol		
Co-Author:								
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference Sheet U-2007 and attached drawings				==UPDATE== 3/24/11				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>During layout for the installation of the new 18in Sewer Main on Minna St., Trinet observed that the alignment of the 18in Sewer Main is in conflict with existing PG&amp;E MH #1355 at STA 1+77.50, which is to remain in place. The center line of the new sewer main is 0.10ft north of the outside edge of the manhole wall, as depicted in the attached drawing. The north side wall of the manhole is constructed on top of the existing 3ft x 5ft brick sewer. The brick sewer structure extends approximately 16in into the vault along its entire length. The brick sewer therefore cannot be demolished without undermining the north wall of the electric vault. Eric Z. of AECOM was notified of this issue via phone call on 01/21/2011.</p> <p>Please advise:</p> <p>1. How should Trinet proceed with the installation of the new 18in VCP Sewer at this location?</p> <p>2. How should Trinet proceed with the demolition of the existing 3ft x 5ft brick sewer?</p>					See revised drawings Minna Street Revisions dated 3/16/11 associated with ASI#003.	
<hr/>							
U-0089	TJPA/DPW Inspection of Materials	Closed	01/31/2011	02/10/2011	02/02/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture Bob Garcia		To: Turner Construction Company Kevin Chiu	Answered By: Turner Construction Company Michelle Smith				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:	Accept Suggestion: <input type="checkbox"/>			
Ref. response to RFI U-0082, specs 331100, 011600:			Procedure for material inspections will be finalized as part of the QA/QC manual, to be issued by TJPA.				
In response to RFI U-0082 stated "TJPA/DPW intends to inspect the material deliveries of each subcontractor..."							
Does the TJPA/DPW or Turner have an established material inspection protocol in place to allow W/O and the trade subcontractors to verify and document that the materials have been inspected by TJPA/DPW or Turner per the above referenced specifications?							
<hr/>							
U-0090	46 Minna St 6in Fire Service Connection	Closed	02/01/2011	02/11/2011	02/03/2011	Potentially	<input type="checkbox"/>







<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Webcor/Obayashi has received Bid Addendum #1 for the TG04.2R bid. As part of this addendum, note number 8 under "General Notes" on sheet U-0008 is deleted. This note had previously placed a constraint on the AWSS construction schedule that the Mission Street work must be complete prior to cutting both the Beale Street and the 1st Street lines. It was acceptable to abandon one or the other prior to the Mission Street work but not both.

Based on the deletion of this note, it is our understanding that there is no schedule constraint on any of the AWSS system modifications other than the cutting & capping procedures at 1st Street and Beale Street which are required for construction of the TTC Building. Please confirm.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

02/11/2011 - Richard Buellesbach Email to Michelle Smith & Kevin Chiu - The received response to RFI U-0092 is not complete. We require a final resolution for the following language from the RFI response: "TJPA is currently coordinating with SFPUC to determine when AWSS improvements, other than the improvements required to abandon existing AWSS mains on First and Beale streets, are required to be complete."  
Please be sure that this RFI remains open in Constructware.

02/10/2011 - Eric Zagol - The construction sequence constraint has been removed per GENERAL NOTE 8 on U-0008 (rev. 2 01/31/11) and as detailed in SFDPW BOE AWSS drawings (rev. 1 01/31/11) MA-0, MA-5, MA-6, MA-8, MA-10, MA-11 and MA-19.

TJPA is currently coordinating with SFPUC to determine when AWSS improvements, other than the improvements required to abandon existing AWSS mains on First and Beale streets, are required to be complete.

<b>U-0093</b>	<b>46 Minna 6in FS Water &amp; 1in Copper Water Service Lateral at STA 5+17 Tie-In</b>	<b>Closed</b>	<b>02/03/2011</b>	<b>02/13/2011</b>	<b>02/07/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP		Nhi Tran	<b>To:</b> Turner Construction Compan		Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol	

**Co-Author:****REQUEST:**

Reference Sheet U-3108, attached sketches, and material information sheets

At 11:30am on 2/2/2011, Michelle Smith (Turner), Eric Zagol (AECOM), Guy Hollins (TJPA), Rick Bowling (46 Minna Property Manager), Dan Helminiak (SFWD Inspector), SFWD water department crew, Robert Friend (Trinet), Jason Dunne (Webcor Obayashi), and Mario Saldana (Webcor Obayashi) met to discuss the 6in Fire Service Lateral and 1in Water Service Lateral for the 46 Minna building.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

AECOM has coordinated with SFPUC Engineering (Chi Yu, Division Manager) and SFPUC inspector (Eugene Shu) and the direction agreed to is as follows:

6-inch Fire Service Renewal -

1. Coordinate with SFWD for the shutdown of the existing 6-inch fire water service. Shutdown by SFWD. SFWD to coordinate shutdown with SFFD.







Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<i>Number</i>	<i>Subject</i>	<i>Status</i>	<i>Date Created</i>	<i>Date Required</i>	<i>Date Answered</i>	<i>Cost Impact</i>	<i>Proceed</i>
the direction is to fill the void on the property side with 2-5 inches of non-shrink grout, finishing grout flush with the inside wall.							
U-0094	Joint Trench Alignment Conflict With (E) Steam MH at Minna St. STA 0+85	Closed	02/03/2011	02/13/2011	02/04/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Michelle Smith		Answered By:AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Reference Sheet U-3107 revised 12/27/10				Accept Suggestion: <input type="checkbox"/>			
The revised drawings show the Joint Trench alignment crossing through an existing old steam MH (Sta 0+85). The vault is a very large structure and extends to the north face of the curb of Minna St. Trinet believes that this vault is an abandoned structure.				Steam MH at STA 0+75 has been abandoned by NRG Energy. Demolish as indicated on U-1107 (rev. 1 12/27/10) and in accordance with the contract documents.			
Trinet requests direction for abandonment and/or demolition of this structure.				Coordinate with Mike Eurkus (NRG Energy) at (415) 644-9668 through the TJPA's representative for the pick up of the salvaged steam MH ring and cover.			
U-0095	Utility Company Contacts	Closed	02/03/2011	02/13/2011	02/04/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Compan   Michelle Smith		Answered By:Turner Construction Comp Kevin Chiu			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			
Reference Sheet U-0002 General Notes - Existing Utilities				Accept Suggestion: <input type="checkbox"/>			
Sheet U-0002 - EXISTING UTILITIES lists several phone numbers for contacting various utility companies in the city. M Squared has tried to contact most of these numbers and each one has had either no answer or is currently not in service.				"M Squared has tried to contact most of these numbers"			
M Squared requests a list of active phone numbers for the utility companies listed. An expedited response is necessary due to utility conflicts.				Please provide a list of the specific agencies that M Squared has tried to contact.			



<b>Number</b>	<b>Subject</b>	<b>Status</b>	<b>Date Created</b>	<b>Date Required</b>	<b>Date Answered</b>	<b>Cost Impact</b>	<b>Proceed</b>
<b>U-0096</b>	<b>PG&amp;E Conflict with Sewer Installation at Natoma STA 9+50</b>	<b>Closed</b>	<b>02/09/2011</b>	<b>02/19/2011</b>	<b>02/14/2011</b>	<b>Yes</b>	
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Michelle Smith			<b>Answered By:</b> Turner Construction Comp Kevin Chiu				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference Sheet U-3012 and attached drawing  On 02/07/2011, M Squared encountered what appeared to be a live PG&E duct bank during their sewer installation excavation on Natoma Street STA 9+50. Due to this conflict, M Squared was unable to continue excavating for the sewer (See attachment). On 02/09/2011, M Squared's Superintendant met with a PG&E Representative and PG&E Representative confirmed that the duct bank is live and is not due to be decommissioned for at least 3 months.  In order for M Squared to continue with the sewer installation, M Squared is proposing to: - install MH #305 and begin installing pipe west of MH #305 - perform a temporary connection from MH#305 to the existing 3' x 5' brick sewer  M Squared can then perform the remainder of the work once PG&E has decommissioned the duct bank.  M Squared estimates that the additional cost to perform the temporary tie-in would be approximately \$4,500.  Please confirm how you would like M Squared to proceed. M Squared requests an expedited response as they are currently stopped work and awaiting a response.			<b>SUGGESTION:</b>				
			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> 02/14/2011 Kevin Chiu  See CR U-006 issued on 2/14/11  ----- 02/10/2011 Eric Zagol  Demolition and Construction Sequence shown on U-1112 and U-1120 lists per sequence order that the sewer work is to commence after PG&E has completed their Phase I work in Natoma and First St., all services cut over and existing duct bank is abandoned by PG&E. Given the fact that PG&E has experienced construction delays associated with their structures on First Street, the proposed sequence for sewer construction is acceptable.  Submit a temporary connection detail for review.  Coordinate with PG&E to abandon the existing 2-inch HP Gas along Natoma per U-1112 and U-1120 prior to demolition.  Coordinate with Verizon to abandon existing conduit (labeled "U" on base plans) prior to demolition per U-1112 and U-1120.				
<b>U-0096.1</b>	<b>PGE Conflict with Sewer on Natoma at First Workaround</b>	<b>Closed</b>	<b>02/15/2011</b>	<b>02/25/2011</b>	<b>02/18/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran <b>To:</b> Turner Construction Compan   Michelle Smith			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b> Reference U-3012 and attached sketch  Per response to RFI#U-0096, M Squared has provided the attached connection detail.  Please confirm if it is acceptable to proceed			<b>SUGGESTION:</b>				
			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Proceed with the temporary connection per the M Squared connection detail.				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 68 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0097	PG&E Conflict with Sewer Instll on Natoma at First	Closed	02/10/2011	02/20/2011	02/14/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Michelle Smith			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference Sheet U-3012					Accept Suggestion: <input type="checkbox"/>		
Following on from M Squared's RFI #U-0096, M Squared has confirmed in the field that there is a grade conflict between the proposed sewer and the existing electrical duct bank on Natoma between STA 9+30 to 9+50. The conflict is between the bottom of the electrical duct bank and the top of the new 24" sewer pipe.					Demolition and Construction Sequence shown on U-1112 and U-1120 lists per sequence order that the sewer work is to commence after PG&E has completed their Phase I work in Natoma and First St., all services cut over and existing duct bank is abandoned by PG&E.		
The elevation of bottom of electrical duct bank is 11.5' The top of the 24" VCP sewer is 11.82'					Proceed per response to RFI U-0096.		
M Squared has also confirmed with PG&E that 3 of the 4 concrete encased conduits are occupied, 2 being occupied by 12KV lines. The duct bank is to be abandoned in the future but PG&E was unable to provide a schedule for this work.							
Please advise M Squared on how to proceed.							
U-0098	Potholing at Blackrock	Closed	02/10/2011	02/20/2011		Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Michelle Smith			Answered By:				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
M Squared is planning to pothole next week at Howard STA 9+40, First St STA 1+50 and First St STA 2+10 to confirm the alignment and depths of the new 12" water main on First St. from Howard to Natoma.					Accept Suggestion: <input type="checkbox"/>		
Guy Hollins from TJPA has advised M Squared that Blackrock is requesting additional potholing in the off-hours to determine locations of AT&T facilities in the area.							
Please provide M Squared information regarding the locations of the additional potholes requested, including the requested depths and sizes.							
U-0099	Returned Submittal Comments	Closed	02/16/2011	02/26/2011	03/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      David Hungerford      To: Turner Construction Compan   Michelle Smith			Answered By: Turner Construction Comp Kevin Chiu				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 69 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Ref Spec section 01 13 10

According to the Action and Distribution (section 1.11) of the submittal specifications, Submittals shall be returned indicating one of the following:

No Exceptions Taken  
Make Corrections Noted  
Revise and Resubmit  
Rejected

We have received submittals back as "Not Reviewed" or "For Record Only". Please confirm these responses are acceptable and should be incorporated into the specifications.

#### SUGGESTION:

VOID - See RFI #T-0051

#### ANSWER:

Accept Suggestion: ☐

See RFI T-0051, Returned Submittal Comment, for response.

<b>U-0100</b>	<b>Minna St MH#207 Proposed Relocation</b>	<b>Closed</b>	<b>02/18/2011</b>	<b>02/28/2011</b>	<b>02/22/2011</b>	<b>No</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan   Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol				

#### Co-Author:

#### REQUEST:

Reference Revised Sheet U-3009 and attached sketches

The current location of MH#207 at STA 9+25.87 will place a cap on the existing water main (installed by SFWD on 02/17/2011) in Trinet's excavation. Trinet is concerned that the old water main may not be adequately restrained and could create a dangerous condition for their excavation for MH#207. Trinet proposes to move MH#207 4 feet west to STA 9+21.87 +/-, as shown in the attached sketch, so that the cap is outside of Trinet's MH excavation. The revised invert elevation for the new MH location is shown on the attached sketch.

Please confirm if this is acceptable,

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Proposed design change is acceptable.

AECOM suggests no change to contract price for this modification.

<b>U-0101</b>	<b>First St CB#501 Conflict with Existing Utilities</b>	<b>Closed</b>	<b>02/22/2011</b>	<b>03/04/2011</b>	<b>02/28/2011</b>	<b>Yes</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan   Michelle Smith	<b>Answered By:</b> Turner Construction Comp Daphne Faulkner				



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:****REQUEST:**

Reference Sheet U-3021, attached sketch, and USA ticket

During excavation for CB#501, Trinet encountered what appears to be a PG&E vault (shown in plans as EMH 7712), PG&E Duct (Shown in plans as 1- 2" & 4-6" EP), 2- 2" steel conduits (not shown in plans), and a concrete shoring wall (not shown in plans).

- The 2-2" steel pipe is in conflict with Trinet's installation of CB#501, and will need to be relocated or abandoned to facilitate the installation of the catch basin. Trinet has done their due diligence (2nd and 3rd No Response follow ups) and these lines were not marked by the owner through USA (attached). Trinet requests direction on the relocation/abandonment of these utilities.

- Trinet proposes to move CB#501 two-feet north to avoid the conflict with the existing EMH 7712. Please advise if this is acceptable.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Pending approval by the TJP, a deductive CR will be issued.

-----  
---  
02/28/2011 - Eric Zagol

Following AECOM's review of the Transbay Transit Center Project 50% construction documents (rev. 12/20/10), further review of the Existing Terminal Ramps & Demolition Plans Project construction documents, and AECOM's understanding of the demolition of the existing Terminal "hump" structure and the timing of such demolition, CB#501 is no longer required.

Delete catch basin #501 and associated 10-inch sewer lateral.

<b>U-0102</b>	<b>First St. CB#206 in Conflict with (E) Subsurface Conc. Structure / Duct Bank</b>	<b>Closed</b>	<b>02/23/2011</b>	<b>03/05/2011</b>	<b>03/04/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Nhi Tran	<b>To:</b> Turner Construction Company	Michelle Smith	<b>Answered By:</b> Turner Construction Company Daphne Faulkner			

**Co-Author:****REQUEST:**

Reference Sheet U-3009 and attached sketch and photo

During Trinet's excavation for replacement of CB#206 on the northwest corner of First St. and Minna St. (at STA 9+31), they encountered a concrete subsurface structure or concrete encased duct bank not indicated on the contract drawings. The existing catch basin is approximately 30in deep and is constructed on top of the existing concrete structure/duct bank (see attached drawing).

Trinet requests direction on the demolition of the existing catch basin and the installation of the new catch basin CB#206.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Pending approval by the TJP, a deductive CR will be issued.

-----  
03/04/2011 - Eric Zagol

As determined during a site visit on 3/3/11 with Trinet, AECOM and W/O; existing unforeseen conditions including an abandoned sub-sidewalk basement wall along Minna Street, an active sub-sidewalk basement wall for the 100 First St. property, and an abandoned telecommunications concrete duct along First Street create a situation where the installation of a new catch basin would require an extensive amount of unforeseen demolition.



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 71 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

In lieu of installing a new catch basin barrel to replace existing modify the existing catch basin as follows:

Clean interior walls and bottom.  
Apply 1/2-inch thick uniform layer of mortar on interior walls and bottom.  
Install cast iron trap.  
Install pipe culvert and connect to MH#207 as shown in Plans. New culvert size and invert shall match existing culvert at catch basin. Use ductile iron pipe if depth of cover is less than 3 feet.

U-0102.1	Catch Basin #206 redesign	Closed	04/01/2011	04/11/2011	04/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Company Michelle Smith		Answered By: AECOM Technical Service Eric Zagol			

Co-Author:

**REQUEST:**

Please clarify the following items relating to the re-design of CB#206:

1) The only specification section addressing mortar coating is in 33 31 10 Paragraph 2.1.I, which specifies a "Wet Spray Mortar" application. This process would be cost prohibitive for coating only one catch basin. Trinet proposes the use of "SikaTop 123 Plus" mortar - product data sheets are attached. Please advise if this product is acceptable or specify an alternate material.

2) The RFI response directs Trinet to use ductile iron pipe for culvert runs with less than 3' of cover. If 22.5% DI bends are required to construct the culverts Trinet would prefer to use Mechanical Joint Fittings. Please advise if these are acceptable.

**SUGGESTION:**

Eric Zagol 4/12/2011: 1) SikaTop 123 Plus mortar is acceptable. 2) MJ DIP for 22.5 degree fittings is acceptable for culvert runs with less than 3 feet of cover.

**ANSWER:**

Accept Suggestion: ☐

U-0103	Natoma St. 4in Water Line Conflict with MH#306	Closed	02/24/2011	03/07/2011	02/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Nhi Tran		To: Turner Construction Company Michelle Smith		Answered By: AECOM Technical Service Eric Zagol			

Co-Author:

**REQUEST:**

**SUGGESTION:**

**ANSWER:**

Accept Suggestion: ☐





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Reference Sheet U-1113 and U-3113</p> <p>A 4-inch water line runs from east to west on the south side of Natoma from Sta 9+40 to Sta 10+95. At Sta 10+95, the 4-in water line 90degrees into the building at 400 Howard St. This building however, appears to be fed from the existing 8-inch line on 1st St between Howard and Natoma.</p> <p>Is this 4-inch water lateral at Sta 10+95 on Natoma already abandoned? If not, can M Squared abandon it? It is currently in conflict with the proposed location of MH#306, and is also in conflict with the excavation and shoring for the new 30-inch sewer along Natoma (TG04.1).</p>				<p>It is AECOM's understanding that the existing 4-inch lateral is "killed" (not supplying water) however the "killed" lateral may still be pressurized up to the lateral terminal point at the gate valves located on the south side of Natoma Street at Natoma Street STA 10+95.</p> <p>Demolish 4-inch water as indicated on U-1112, U-1113 and U-1120.</p> <p>Prior to demolition:</p> <p>1. Coordinate with SFPUC inspector to confirm 4-inch lateral is "killed".</p> <p>2. Coordinate with SFPUC inspector to confirm that the lateral is not pressurized and that the 4-inch gate valve at Natoma Street STA 9+40 (intersection with existing First Street 8-inch water main) is closed.</p> <p>3. Coordinate with SFPUC inspector and install cap in First Street as shown on U-1120 at Natoma STA 9+55 +/-.</p>		
U-0104	Natoma St. Temporary Sewer Connections at Sta 9+25 and Sta 7+20	Closed	02/24/2011	03/06/2011	03/01/2011	Yes	<input type="checkbox"/>
From: Webcor Construction LP							





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 73 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>PG&amp;E in the field on 02/09/2011, there is a live PG&amp;E duct bank in conflict with MH#305 and the new 24-inch VCP between MH#305 and MH#306, and not due to be decommissioned for at least three months.</p> <p>M Squared proposes to install a 12-inch HDPE pipe from Sta 9+25 to Sta 9+59, and perform a temporary connection to the existing 3'x5' sewer on First Street. Surveys carried out on the electric duct bank at Sta 9+30 on 02/08/11 shows that the bottom of the Duct Bank is approx. 10.8, meaning a 12-inch pipe will fit. In addition, M Squared proposes to perform a temporary connection (also 12-inch HDPE) at Sta 7+20 from the new MH#303 to the existing 3'x5' sewer. This would allow M Squared to demolish the 3'x5' sewer from Sta 7+02 to Sta 9+59, and allow M Squared to install the water from Sta 6+40 to Sta 10+00.</p> <p>M Squared estimates the cost for both of these connections is \$20,000.</p> <p>An expedited response is required to avoid impact to the installation of the water line</p>						

<b>U-0105</b>	<b>Natoma St Duct Bank Conflict at Sta 12+92</b>	<b>Closed</b>	<b>02/24/2011</b>	<b>03/06/2011</b>	<b>03/01/2011</b>	<b>Yes</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP <b>Nhi Tran</b>		<b>To:</b> Turner Construction Compan <b>Michelle Smith</b>	<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>	<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>				
Reference Sheet U-1113, U-1122, U-3013 and attached drawing			Due to existing PG&E duct in conflict caused by PG&E's delay with Fremont St. Phase I relocations, the12-inch temporary HDPE connection as proposed is acceptable as an interim condition until PG&E Phase I work is complete and the existing duct in conflict can be demolished per plans.				
A pothole on Natoma Street at Sta 12+92 confirmed that the duct bank shown on Sheet U-3013 is in conflict with the proposed 30-inch VCP sewer (see attached drawing).							
Per sheets U-1122 and U-1113, the new 30-inch sewer is to be constructed after the demolition of the PG&E ducts. However, demolition of the PG&E ducts cannot be completed because PG&E has not completed their relocation work. Per PG&E's new schedule this work is not scheduled to be completed until 06/31/2011. This would			Daphne Faulkner - Pending approval by the TJPA, a CR will be issued.				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 74 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

mean M Squared's work cannot start until after this.

In order for M Squared to continue with their work, M Squared proposes the use of 12-inch HDPE pipe from Sta 12+80 to existing sewer at Sta 13+15 (proposed location of MH#602). Once PG&E has completed their cutovers and the duct bank is abandoned, M Squared will demo the duct bank per specifications and complete the installation of the 30-inch VCP sewer from Sta 12+80 to MH#602.

M Squared estimates the cost for this work is \$15,000.

An expedited response is required to avoid impact to the installation of the sewer and water line

U-0106	First St Sewer MH#502 Adjustment to Avoid Conflict w/ (E) PG&E Duct	Closed	02/25/2011	03/07/2011	02/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service Eric Zagol	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
Reference Sheet U-3021 and attached sketch				The sketch referenced above is based on CCSF DPW Standard #87,184 that shows the minimum reinforcing plan for the connection to the existing 3'x5' brick sewer. Provide reinforcing for connection to 3'x5' per CCSF DPW Standard.			
In order for Trinet to avoid a conflict with the existing PG&E duct along the west wall of their excavation, Trinet adjusted the south end of the MH#502 structure by 7 inches to the east (as shown in attached sketch). MH#502 is still aligned to incorporate the connection to the existing brick sewer, and the alignment of the new 24-inch VCP run is unaffected by this change. Trinet will adjust rebar as required to maintain the required spacing and clearances.				Confirm that the manhole is being constructed per CCSF DPW Standard #87,182 as shown in Detail 10 on U-5001.			
Please confirm if the adjustment of MH#502 is acceptable.				Provide width of west wall and location of reinforcing steel at 3'x5' brick sewer connection and 24-inch VCP sewer connection for review.			

U-0107	AWSS Cap Permit Requirements	Closed	02/25/2011	03/07/2011	02/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Nhi Tran	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service	
Co-Author:		Eric Zagol					
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 75 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

W/O would like to confirm that other than any standard permits required for any excavation in the city of San Francisco, there is no additional permit required by any city agency in order to perform work on the AWSS caps.

Per discussions with Michael Smith SFPDW BOE, there are no additional permits required for AWSS construction beyond the standard permits for constructing utilities within the public right-of-way.

Notify CCSF SFFD and SFPUC/SFWD through the TJPA's representative in advance the work to isolate work areas.

<b>U-0108</b>	<b>FH Relocation on Beale St</b>	<b>Closed</b>	<b>02/25/2011</b>	<b>03/07/2011</b>	<b>02/28/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan	Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

Reference sheet U-3124 and attached photo

See the photo attached. The proposed location for the FH on Beale St at ~Sta 2+20 is in between a driveway for a parking garage and a driveway for a loading dock. Per discussions with Eric Zagol, please confirm the FH is to be relocated to the East side of Beale St as highlighted by the green line on the attached drawing.

Please advise.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Construct FH lateral and FH on the East side of Beale Street at STA 2+04 as shown on SK-U-0008 attached.

<b>U-0109</b>	<b>First St Sewer Grade Change To Conform to Existing 3'x5' Brick Sewer</b>	<b>Closed</b>	<b>03/02/2011</b>	<b>03/14/2011</b>	<b>03/03/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Nhi Tran		<b>To:</b> Turner Construction Compan	Michelle Smith	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

Reference Sheet U-3021, U-3009, and attached sketch

This RFI confirms modification discussed in the field by Trinet and discussed with the Design Engineer, SFPDW, and W/O personnel. Trinet's field survey shows the existing 3'x5' brick sewer on First Street to be approximately 11-inches lower than the grade depicted on the drawings. Trinet also checked the elevation of the existing SSMH (10-feet north of MH#501) and confirmed

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Construct MH#502 at First St. STA 4+98 as shown on U-3021 to match the invert elevation of the existing 3'x5' brick sewer, elevation 6.77 as determined in the field by contractor.

Construct MH#501 at First St. STA 4+45 as shown on U-3021 with an invert elevation of 7.58 as determined by contractor.



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 76 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>that it is approximately 11-inches lower than what is shown on the drawings. Trinet installed MH#502 with invert elevation at 6.77 to match the existing brick sewer at the connection point. The new 24-inch VCP is being installed 11-inches lower than what is shown on the drawings maintaining the design slope of 0.0062. MH#501 will be installed with the invert elevation of 7.58, as shown in the attached sketch.</p> <p>Please confirm that this design is acceptable. Also, please provide a revised grade for the 24-inch VCP run from MH#207 (Minna St.) to MH#501.</p>						<p>Construct MH#207 per RFI-U100.</p> <p>Construct the 24-inch VCP sewer from MH#207 (invert elevation 8.67 per RFI U-0100) at a continuous downward slope such that the invert elevation of the 24-inch VCP at MH#501 matches the invert elevation of MH#501 at elevation 7.58.</p> <p>Based on discussions with Trinet in the field, Trinet reported 11-inches of sediment/sludge/dirt in the existing 3'x5' brick sewer. Please confirm that existing sewer in First Street was cleaned with high velocity hydro cleaning equipment per specification section 33 31 10 3.2 A prior to excavation.</p>
U-0110	Joint Preconstruction Survey Requirement	Closed	03/02/2011	03/12/2011	03/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran                      To: Turner Construction Compan   Michelle Smith			Answered By:Transbay PMPC                      Derrick Cooper				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:		Accept Suggestion: <input type="checkbox"/>		
Reference Specification Section 01 15 40, 1.5			TJPA will be conducting perconstruction surveys of adjacent property interiors. Singer will not be scheduling these surveys for W/O subcontractors.				
Singer has been coordinating W/O access to the adjacent properties for W/O's subcontractors to complete their Joint Pre-Construction survey (Spec. 01 15 40, 1.5). Singer has informed W/O that they were instructed by TJPA Representatives to stop scheduling the joint surveys because TJPA will be conducting one overall survey, instead of having each individual contractor do them.							
The surveys are a specification requirement for current and future subcontractors. Please clarify this specification, moving foward.							
U-0111	Minna St. Joint Trench Conflict with (E) 8" elbow and thrust block	Closed	03/04/2011	03/14/2011	03/09/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran                      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:		Accept Suggestion: <input type="checkbox"/>		

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	<p>Reference drawing sheet U-3409 and attached sketch.</p> <p>During our excavation for the joint trench on the east end of Minna St. (STA 9+29) Trinet encountered the (E) 8" water main in Trinet's trench line, approximately 1 foot from our termination point. The existing alignment is different from what is shown in the contract drawings. The drawings do not show the water line crossing the joint trench. The alignment and grade of the water main changed in Trinet's excavation to avoid the adjacent catch basin. A 22.5 degree elbow is located in the center of the joint trench excavation. The elbow is rolled up to accommodate the grade change and there is a thrust block under the footing. Trinet does not believe that it would be safe to excavate under the water main for Trinet's duct bank without having the line shutoff. Extending the PG&amp;E ducts to FOC will also place the connection point for PG&amp;E's extension of the duct bank directly under the water main fittings and elbows. There is adequate clearance to install the 4" gas line above the water main and extend it out to FOC per contract. The top of the water main is 49" below FG at the south side of the joint trench, at the location of the ags line.</p> <p>Trinet proposes to terminate the concrete encased duct bank approximately 5 ft. back from FOC. This would allow adequate room for Trinet to mandrel the ducts after the joint trench is installed without undermining the water main. PG&amp;E could then extend their duct bank under the water main to connect to Trinet's water main. Please advise.</p>						
			Per request to Jason Dunne (W/O) via email on 3/4/11 please provide the following information for review:				
			Horizontal (from a known point i.e. FOC along First St.) and vertical location of "top of water main". Horizontal (from a known point i.e. FOC along First St.) and vertical location of water line at "22.5 degree elbow". Determine if the water main is mechanically restrained with tie rods at each bend in questions. Approximate size of existing concrete thrust block a the "22.5 degree elbow".				
U-0111.1	Minna St Joint Trench Conflict @ Existing Water Line Elbow	Closed	04/18/2011	04/28/2011	04/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan   Michelle Smith			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:            Accept Suggestion: <input type="checkbox"/>				
Please find the attached as built drawing of the Joint Trench @ the intersection of Minna St. and First St. where the (E) 8" W main elbow was encountered.			Eric Zagol 4/20/2011: Please provide the information requested in RFI U-0111 response or confirm that the existing water line referenced in RFI U-0111 is mechanically restrained.				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 78 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Construct Joint Trench to limit as indicated in Plans.

Refer to ASI-005 for the Joint Trench extension into First Street.

U-0111.2	Minna St Joint Trench Conflict @ Existing Water Line Elbow	Closed	04/25/2011	05/05/2011	04/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				

Co-Author:

REQUEST:

Eric Zagol 4/20/2011: Please provide the information requested in RFI U-0111 response or confirm that the existing water line referenced in RFI U-0111 is mechanically restrained.

Answer: The waterline is mechanically restrained.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

Eric Zagol 4/26/2011 Proceed per RFI U-0111.1 response.

U-0112	Minna St. Joint Trench, AT&T Vault and Conduit Configuration	Closed	03/08/2011	03/18/2011	03/15/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Nhi Tran To: Turner Construction Company Michelle Smith			Answered By: AECOM Technical Services Eric Zagol				

Co-Author:

REQUEST:

Reference Sheet U-3408

At the 02/03/2011 Joint Trench Pre-Construction meeting and field walk through, the AT&T inspector expressed concern with the configuration of the AT&T ducts connecting to the AT&T vault at Sta 3+71. The AT&T inspector was specifically concerned with the east side of the vault where all eight 4-inch ducts are shown entering the vault on the one side (north side) of the center line.

Trinet would like AT&T to review the duct configuration connection to the vault as depicted in the contract drawings and provide a revised drawing if they wish to make a change.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

AT&T has reviewed the information and has proposed revisions to the Joint Trench to accommodate the following:

1. Revised information from AT&T regarding 555 Mission St. service point of connection, and
2. AT&T preferred Minna St. AT&T vault conduit penetration locations

Attached SK-U-0009 is a markup of the AT&T Vault at STA 3+71 butterfly drawing indicating conduit penetrations and schematic diagram of conduit alignments. Revised Minna St. Joint Trench Plans are being prepared as part of ASI#3 to address these revisions as well as changes associated with RFI U-0088.



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0113	AWSS Cap on First St. at Howard	Closed	03/08/2011	03/18/2011	03/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Company   Michelle Smith		Answered By: AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference Drawing No. AWSS MA-5				Michael Smith (SFDPW BOE), AWSS Engineer of record, will provide response directly to PMPC/Turner.			
On 03/08/2011, M Squared excavated and exposed the existing AWSS line and gate valve on First St. at Howard. Upon inspection of the existing gate valve, it appears that the gate valve does not have lugs on it. This means that M Squared cannot tie back the proposed 10-inch AWSS cap on the AWSS line.				----- ----- 03/10/2011 - Daphne Faulkner			
Please advise on how you would like M Squared to proceed with the cap installation. An expedited response is requested.				Michael Smith (SFDPW BOE), AWSS Engineer of record provided response via email dated 3/9/11. See attached email, RFI response and AWSS Standard Dwg. III.			
U-0113.1	AWSS Strong Backs	Closed	03/17/2011	03/27/2011	03/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Nhi Tran		To: Turner Construction Company   Michelle Smith		Answered By: Turner Construction Company Kevin Chiu			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Reference RFI #U-0113				See attached file, "RFI U-0113.1 1490J Phase I First Street RFI No. 113.1 BOE Response 03 22 11," dated 03/22/11 for handwritten response per Michael Smith of SFDPW/BOE/Mechanical. Response below was copied into CW:			
On 3/16/2011, M Squared met with Dan Helminiak from SFWD and Michael Smith from BOE to proceed with the AWSS Cap work at First & Howard. As directed in the response to RFI#U-0013, M Squared installed the strong back provided to them. After the strong back was installed, Dan H. and Michael S. determined that the strong backs would not work due to the diameter of the existing valve bell.				"- Proceed with installation without strong back and tie rods.			
M Squared requests direction on how to proceed.				- A minimum of 100' of out-of-service AWSS main north of cap at First/Howard streets, and south of cap at Mission/First streets shall remain-in-place.			
				- Additionally the specified concrete thrust block shall be increased by 3 times the volume and encompass the existing abandoned-in-place line for a distance of 4' downstream of steel plate.			
				- Strong backs (2) shall be returned to CCSF."			





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 80 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0114	PG&E Abandonment Schedule for Natoma St. at Second St.	Closed	03/09/2011	03/19/2011	05/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Gary Kruttsch			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			ANSWER:				
Reference Sheet U-1110 and U-2010			Accept Suggestion: <input type="checkbox"/>				
On 03/04/2011, M Squared met with a PG&E representative on site at Natoma and 2nd Street. The PG&E representative confirmed that none of their utilities had been abandoned in the area, and that the PG&E representative would be unable to provide a schedule for this abandonment.			Eric Zagol   3/18/2011   ***5/5/11 UPDATE***				
Per note 2 on sheet U-1110, the services for 77 Natoma and 83 Natoma were to be terminated by Feb 2011. To date, this work does not appear to be completed. In PG&E's letter to the TJPA regarding their schedule, there is no reference to work on Natoma Street at 2nd St.			77 Natoma and 83 Natoma services have been terminated, refer to USR Nos. 11 and 13 as executed by W/O, Turner and PG&E on 4/21/11.				
M Squared is unable to proceed with their sewer and water utility installation on Natoma St. west of shoring wall until PG&E has completed abandonment of their existing utilities.			As of 5/4/11, PG&E estimates that Natoma Street will be de-energized by 5/21/11. Coordinate USRs for the remaining electric ducts with Turner and PG&E.				
Please provide M Squared with an updated schedule for all PG&E's termination/abandonment work at 2nd and Natoma St.			***3/18/11 RESPONSE***				
			Per demolition and construction sequencing shown on sheet U-1110, water and sewer work shall commence after PG&E has completed their Phase I relocations in First St., Natoma St. and existing electric ducts are abandoned by PG&E.				
			PG&E services to 77 Natoma and 83 Natoma have been terminated as part of the Existing Terminal & Ramps Demolition Project. USRs for these services are currently being prepared by the TJPA's Representative (Turner). The USRs shall indicate the service conduits and cables that are abandoned subject to demolition as indicated in sheet U-1110.				
			To facilitate schedule, AECOM has requested PG&E to de-energize Natoma St. to the extent possible in an effort to re-sequence construction of the sewer. PG&E's response and schedule of abandonment is forthcoming.				
			As shown on U-3110 the water line could be constructed prior to PG&E abandoning their facilities. Pothole to confirm the water line can be constructed as shown on U-3110.				
U-0115	AWSS Cap Work Sequence on First St	Closed	03/07/2011	03/17/2011	03/15/2011	Yes	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To:			Answered By:				







<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0117	Natoma St. Future Hydrant Location at Sta 11+79	Closed	03/21/2011	03/31/2011	03/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Nhi Tran      To: Turner Construction Compan   Michelle Smith			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Reference Sheet U-3113					Accept Suggestion: <input type="checkbox"/>		
Sheet U-3113 shows an 8in x 8in x 6in tee in the new 8-inch water main on Natoma at Sta 11+79. The note on the drawing makes reference to it being used as a future location for a fire hydrant. Sta 11+79 is in front of a loading dock and parking garage on Natoma Street.					As discussed in the field on 3/21/11 with Noel (M Squared) and Dan Helminiack (SFWD), construct tee for future fire hydrant and lateral connection at STA 11+37 (4 ft min. west of existing street light).		
Please confirm that it is intended for M Squared to install the tee in the water main line at this location.							
U-0118	Minna Street Joint Trench, PG&E Duct Routing and Termination Points	Closed	03/24/2011	04/03/2011	04/06/2011	Potentially	<input type="checkbox"/>
From: Webcor/Obayashi Joint Venture      Colin Azevedo      To: Turner Construction Compan   Michelle Smith			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Please provide a routing drawing or written clarification of the routing for the PG&E Duct stub-outs in the Minna St. Joint Trench, between First St. and Second St. It is not clear from the plans in all cases where all the ducts extending from stub-outs terminate. Please expedite.					Accept Suggestion: <input type="checkbox"/>		
					Please see the attached sketches clarifying where the ducts extending from stub-outs terminate (/originate).		
					Please note that the 2-2" conduits shown on U-3410 sections C, D, F and G terminate at "stub out reference A".		
U-0119	Minna St. JT_ AT&T Reconfiguration and impact on (E) trees	Closed	03/25/2011	04/04/2011	03/30/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Michelle Smith			Answered By: AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
The revised drawings for the Joint Trench alignment dated 3/16/2011 show the reconfigured AT&T ducts running through an existing tree well on the east side of the AT&T vault at Stn. 3+71. RFI U-0112 (Minna St, Joint Trench, AT&T Vault and Conduit Configuration) also shows the reconfigured AT&T ducts running through an existing tree well on the east side of the vault. This conduit layout in consistent with discussions with the AT&T inspector in the field was reflected in the shop drawings. The revised					Accept Suggestion: <input type="checkbox"/>		
					Per discussions on site on 3/28/11 with Jack Kelliher (Trinet), Dave Olsen (AT&T), Dave Gibbons (AT&T) and Colin Azevedo (W/O), provide a 22.5 bend at conduit penetration for the 2-4" conduits on the south side of the east to avoid direct conflict. Remove tree grate and frame as required to construct conduit. Restore tree grate, fame, sidewalk curb and gutter. Protect tree and existing irrigation pipes in place.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 83 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

drawings do not address relocation and/or removal of the impacted trees and the related irrigation changes. Please review and advise.

<b>U-0120</b>	<b>MH601 Locatio</b>	<b>Closed</b>	<b>03/28/2011</b>	<b>04/07/2011</b>	<b>04/05/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Colin Azevedo		<b>To:</b> Turner Construction Compan Michelle Smith		<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

Sheet U-3022 shows MH601 @ Sta 0+70 on Fremont Street. This location is also in the middle of the crosswalk on Fremont Street. USA markings show the existing traffic signal conduits crossing thru the center of the manhole. By moving the manhole approx 8' north the conflict with the traffic signal conduits would be avoided and it would also avoid having a manhole cover in a crosswalk. Please advise on how you would like to proceed.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Move proposed sewer MH north to STA 77.56 to avoid existing Traffic Signal conduit conflict as shown in SK-U-013 attached. Construct 10-inch CB culvert lateral as shown SK-U-013 attached.

<b>U-0121</b>	<b>AWSS Caps at Beale Street</b>	<b>Closed</b>	<b>03/31/2011</b>	<b>04/10/2011</b>	<b>04/06/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Colin Azevedo		<b>To:</b> Turner Construction Compan Michelle Smith		<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

1 - Current bid documents for Trade Group TG04.2R (AWSS system at Mission Street) call for capping of the AWSS system on Beale Street near the intersections with Howard Street and with Mission Street. Because of delays in the bid schedule for TG04.2R, the construction schedule dictates that these caps be completed well before the anticipated start of the TG04.2R field work. Please provide details so as to allow this capping work to be done in advance of the awarding of the TG04.2R scope of work.

**SUGGESTION:**

**ANSWER:** **Accept Suggestion:** ☐

Pothole the existing AWSS gate valve at the Beale at Mission street proposed cap location as shown on M-6 (Rev No. 1, 1/31/11) to determine if the existing gate valve has lugs. SFWD to inspect condition of gate valve once excavated, coordinate with SFWD inspector accordingly.

Details for the capping work at Beale and Mission, and Beale and Howard will be provided following gate valve inspection.

2 - Please confirm whether the material required to do this work is available at the City of San Francisco.

3 - Please provide direction as to how this scope of work should proceed.



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 84 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>This capping is near critical path on the current construction schedule. An expedited response is requested.</div>							
U-0121.1	AWSS Caps at Beale Street	Closed	05/02/2011	05/12/2011	05/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo		To: Turner Construction Compan   Gary Krutsch		Answered By:AECOM Technical Service Eric Zagol			
Co-Author:							
<div>REQUEST:</div> <div>The AWSS valve at Mission and Beale was potholed on 4/29/2011 per response to RFI#U-0121. It was confirmed that the existing valve does not have lugs.</div> <div>Please provide details for capping the AWSS line on Beale.</div>		<div>SUGGESTION:</div>		<div>ANSWER:</div> <div>Accept Suggestion: <input type="checkbox"/></div> <div>Eric Zagol   5/4/2011 From Michael Smith (SFDPW BOE);</div> <div>Refer to attached DWG M-6 Rev 1 with changes made on 05/04/11. Cap is to be tied back to (E) pipe with cast lugs.</div> <div>Eric Zagol   4/5/2011 ***4/19/11 UPDATE***</div> <div>In response to the numbered items above:</div> <div>1. Refer to the attached markups of TG04.2R documents from SFDPW BOE that define the AWSS abandonment/capping scope for Beale Street; MA-6 for the work in Beale St. at Mission St., and MA-10 and MA-19 for the work in Beale St. at Howard St.</div> <div>2. SFWD Inspector Daniel Helminiak has confirmed that the following materials are available at the SFFD Yard:</div> <div>Beale at Mission Street</div> <div>- 1    10-inch DI MJ spigot x GH spigot adapter</div> <div>- 1    10-inch DI MJ flat cap</div> <div>- 1    18-inch x 18-inch x 1-inch steel plate</div>			



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 85 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
				Beale at Howard Street			
			- 4	10-inch DI stop collar			
			- 2	10-inch DI bell collar			
			- 1	10-inch DI flat cap			
				Coordinate with SFWD Inspector for materials provided by SFWD.			
				3. Proceed with this work per direction from TJPA Representative. Coordinate the shutdown of existing AWSS main in Beale St. with SFWD prior to commencing the work.			
				4. Submit pothole data for review per RFI response provided on 4/5/11 as stated below.			
				*****			
				4/5/11 Response			
				Pothole the existing AWSS gate valve at the Beale at Mission street proposed cap location as shown on M-6 (Rev No. 1, 1/31/11) to determine if the existing gate valve has lugs. SFWD to inspect condition of gate valve once excavated, coordinate with SFWD inspector accordingly.			
				Details for the capping work at Beale and Mission, and Beale and Howard will be provided following gate valve inspection.			

U-0122	M Squared Submittals for TG04 Bid Packages	Closed	04/01/2011	04/11/2011	04/11/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Compan	Michelle Smith	Answered By:Turner Construction Comp Michelle Smith			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:	Accept Suggestion:	<input type="checkbox"/>	



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Page: 86 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please confirm the following:

Per previous discussions it has been agreed between the TJPA, AECOM, Turner Webcor/Obayashi and M Squared that material submittals approved for use by M Squared in individual bid packages will be considered acceptable for all bid packages M Squared is working on (TG04.1, TG04.3, TG04.4, & TG04.6).

These submittal include:

TG0434-002 - Excavation & Backfill Samples  
TG0434-003 - Excavation & Backfill Test Reports  
TG0434-004 - Excavation & Backfill Compaction & Warning Tape  
TG0434-005 - Shoring Plan  
TG0434-006 - Backfill Material  
TG0434-007 - Water Utilities Distribution Piping & Valves  
TG0434-010 - Asphalt Mix Design  
TG0434-013 - Noise Mitigation Plan  
TG0434-015 - CQC Plan  
TG0434-016 - Health and Safety Plan and MSDS  
TG0434-017 - SWPPP  
TG0434-018 - Debris Management Plan  
TG0434-025 - Cast in Place Concrete  
TG0434-030 - Labor Rates  
TG0404-001 - Sewer Package  
TG0404-002 - Filter Fabric  
TG0404-003 - Concrete Forming  
TG0404-004 - Precast Concrete  
TG0404-005 - Precast Concrete Catch Basin Base

Eric Zagol, 4/4/2011: AECOM suggests that the Construction Manager Oversight (Turner) confirms this RFI.

Guy Hollins, 4/5/2011: Confirmed for all submittals listed with the understanding that no deviations from the previously-approved submittal are allowed without the submission and approval of a separate and new submittal request.

Michelle Smith, 4/11/2011: TJPA has no objection to subcontractors using submittals that were submitted by their OWN company and approved for a previous TG04 Utilities Relocation trade package, as long as the application is the same as the application in the previous trade package.

U-0123	Unknown Fire Service @ 85 Natoma	Closed	04/04/2011	04/14/2011	04/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Michelle Smith	Answered By:AECOM Technical Service Eric Zagol	

Co-Author:

REQUEST:

While Excavating to install the water line on Natoma from the shoring wall to 2nd Street M Squared encountered an existing fire service going to 85 Natoma. This service is not shown on the drawings and is not in the specifications

SUGGESTION:

ANSWER: Accept Suggestion: ☐

SFPUC Customer Service Bureau data shows an active Domestic water, an active Fire water service, and 2 "killed" Domestic water services to 85 Natoma Street.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 87 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

as one of the connections to be made to the new line.  
(See attached)  
Please advise on how to proceed.

Coordinate with SFWD to confirm and locate the active Fire water line to 85 Natoma Street.

Provide information on location, size, and material for review.

U-0123.1	Fire Service @ 85 Natoma	Closed	04/11/2011	04/21/2011	04/18/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Compan	Michelle Smith	Answered By:	Webcor Construction LP Colin Azevedo

#### Co-Author:

#### REQUEST:

Please note that on RFI #U-0123 the location of the fire service was incorrectly drawn. The fire service is actually located around Sta 2+35.

M Squared potholed at Sta 2+35 and discovered a 4" ductile iron pipe which is believe to be the active fire service for 85 Natoma Street.

Please advise.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Eric Zagol 4/15/2011: Per response to RFI U-0123, coordinate with SFWD Inspector to confirm the 4" DIP is the active fire water service to 85 Natoma Street.

Once confirmed, provide and install 8"x8"x4" tee and 4" gate valve.

Connection to existing 4" DIP fire service by SFWD. Excavate and shore for connection in accordance with the contract documents. Coordinate with SFWD Inspector for connection by SFWD.

U-0124	Conflict Between New 24" Sewer and existing AWSS Line on Beale	Closed	04/07/2011	04/17/2011	04/28/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Compan	Michelle Smith	Answered By:	AECOM Technical Service Eric Zagol

#### Co-Author:

#### REQUEST:

M Squared has confirmed that the 14" AWSS Line shown on sheet U-3024 is in conflict with the proposed 24" VCP on Beale Street. The AWSS line is shown on the plan view but not on the elevation view on sheet U-3024.

M Squared also shot the elevation of the existing sewer manhole. The elevation is 4.60, and not 4.70 as shown on the plans. The invert of the 14" AWSS is 6.2. (See attached)  
Please advise.

#### SUGGESTION:

ANSWER: Accept Suggestion: ☐

Eric Zagol 4/26/2011: Construct temporary 2-10" VCP and new SMH as shown on revised U-3024 (rev 2 4/26/11) and SK-U-0018. Construct SMH #701 to allow for future 24" VCP connection as indicated.

Relocate AWSS line in Howard St., not included in package. Design forthcoming potentially to be included in TG04.2R.

Following relocation of the AWSS line, construct 24" VCP sewer per contract documents.



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
U-0124.1	Conflict Between 24" Sewer and AWSS Line on Beale	Open	07/07/2011	07/17/2011	09/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Gary Krutcs	Answered By:Webcor Construction LP   Chris Lotti				
Co-Author:							
REQUEST: Per the response to RFI#U-0124 a design to relocate the AWSS line @ Howard and Beale is forthcoming. Please advise the status of this design.		SUGGESTION: Eric Zagol   7/20/2011 Design is being performed by SFDPW BOE and will be tracked and issued via a forthcoming ASI. Schedule will be discussed with SFDPW BOE on 7/22/11. An update will be provided in the RUP OAC on 7/26/11.		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
<hr/>							
U-0125	Precast Catch Basin Bases	Closed	04/08/2011	04/18/2011	04/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Michelle Smith	Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST: In lieu of a cast in place base per CCSF DPW Standards, M Squared would like to propose the use of a precast catch basin. The catch basin barrel is attached to the precast base and it comes as one single unit. Before installing the precast catch basin base with barrel, M Squared will place a minimum 6" compacted level layer of crushed rock as the sub base. The proposed material specifications are attached. Please confirm if this method is acceptable.		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
		Eric Zagol 4/12/2011 Precast catchbasin base is approved with conditions specified. The 5 foot catchbasin barrel shall be attached to the base section to form a monolith structure with the same dimensions, compressive strength and reinforcement as the CCSF DPW Standard cast in place base. Provide a minimum 6" level layer of uniform compacted crushed rock as the sub base.					
<hr/>							
U-0126	Existing Brick Man Hole @ Second and Natoma In Conflict With Joint Trench	Closed	04/11/2011	04/11/2011	04/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Michelle Smith	Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST: While potholing the Second St. Joint Trench crossing Trinet encountered an existing brick sewer man hole which		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
		Eric Zagol 4/12/2011: Confirm existing abandoned sewer manhole is filled with slurry grout to 4 feet below					







<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>	
SFDPW STANDARD PLAN 87,190. 7. Cover should be MADE of quality EQUAL TO OR GREATER then THE PRODUCTS MADE BY D&L Foundry or Equal, see attached product data sheet.								
U-0128	AWSS Conflict with Sewer on Fremont	Closed	04/11/2011	04/21/2011	04/19/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan	Michelle Smith	Answered By:AECOM Technical Service				Eric Zagol
Co-Author:								
REQUEST: A pothole at Sta 0+52 has confirmed that the existing AWSS line is in direct conflict with the proposed sewer on Fremont Street. The drawings show a 4" HPW line at invert elevation 13.0. Measurements taken in the pothole reveal a 14" HPW line at invert elevation 8.4. At this elevation the HPW line is in direct conflict with the proposed VCP sewer. Please advise.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Eric Zagol 4/19/2011 A temporary connection between MH #601 and (E) MH in Howard Street is being considered as an option. Please confirm the invert elevation of the (E) MH at Howard St. (Fremont St. STA 0+29.5) is EL 6.4 as shown on U-3022.				
U-0128.1	AWSS Conflict with Sewer on Fremont	Closed	04/11/2011	04/21/2011	04/26/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan	Michelle Smith	Answered By:AECOM Technical Service				Eric Zagol
Co-Author:								
REQUEST: M Squared has confirmed the invert elevation for the existing manhole at station 0+29.5 Fremont St. is EL 6.4 as shown on U-3022.  Please advise.		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Eric Zagol 4/25/2011: In reference to RFI U-0128 and U-0128.1, construct temporary 15" VCP from SMH #601 to existing SMH at STA 0+29.50 as shown on attached SK-U-0016 and SK-U-0017. Construct SMH #601 to allow for future 30" VCP connection as indicated in SK-U-0016.  Relocate AWSS line in Howard St., not included in package. Design forthcoming potentially to be included in TG04.2R.  Following relocation of the AWSS line, construct 30" VCP sewer per contract documents.				



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 91 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0128.2	AWSS Conflict with Sewer on Fremont	Open	07/07/2011	07/17/2011		Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Gary Krutsch		Answered By:			
Co-Author:							
REQUEST: Per the response to RFI#U-0128.1 a design to relocate the AWSS line @ Howard and Fremont is forthcoming. Please advise the status of this design.		SUGGESTION: Eric Zagol   7/20/2011 Design is being performed by SFDPW BOE and will be tracked and issued via a forthcoming ASI. Schedule will be discussed with SFDPW BOE on 7/22/11. An update will be provided in the RUP OAC on 7/26/11.		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
U-0129	Sewer Conflicts @ Second and Natoma	Closed	04/13/2011	04/25/2011	04/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Michelle Smith		Answered By:AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST: M Squared is unable to excavate/shore/install the 18" VCP from the existing manhole at Sta 0+45 to MH#301 at Sta 0+81 as shown on sheet U-3010. While excavating for the sewer installation M Squared encountered several unknown utilities which were unmarked and not shown on the contract drawings. Also, some of the known utilities are at different locations and elevations than indicated on the drawings. Due to the quantity and proximity of these utilities it is not possible excavate and shore between MH#301 and the existing MH at Sta 0+45. Additionally PGE have yet to relocate their gas and electric utilities out of the area of the proposed MH#301. See attached drawings illustrating M Squared's pothole findings. Please advise on how to proceed.		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
				Eric Zagol   4/27/2011: AECOM has reiewed the information provided and requests a meeting with W/O and M Squared to review the data, review the demolition and construction sequencing shown in AECOM plans, and further understand why excavation and shoring is not possible.			
U-0129.1	Sewer Conflicts @ Second and Natoma	Closed	05/02/2011	05/12/2011	06/03/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Gary Krutsch		Answered By:AECOM Technical Service Eric Zagol			
Co-Author:							
REQUEST: Per response to RFI#U-0129 Webcor/Obayashi, M Squared and AECOM met on 4/29/2011 and discussed why the sewer line between MH#301 and the existing manhole at Sta 0+45 could not be installed with normal		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
				Eric Zagol   6/2/2011 Revised contract documents will be provided via ASI 011 to address conflicts between MH#301 and STA 0+45.			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 92 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

means and methods. M Squared remove the plates from their investigative pot hole trench on 5/2/2011 for AECOM to further review and understand the existing conflicts.

Please provide AECOM's findings from these meetings and provide direction on how to proceed with the sewer installation in this location.

Between MH #301 and MH #302:

1. Continue to perform subsurface investigations and submit location and elevation information for existing sewer laterals at the proposed connection to new sewer in accordance with Key Note 1 prior to construction.
2. Verify via pre construction TV inspection in accordance with Specification Section 33 31 10 that all active sewer laterals are shown on U-3010 and have been located in the field.

<b>U-0130</b>	<b>Sewer Removal On First Street</b>	<b>Closed</b>	<b>04/15/2011</b>	<b>04/25/2011</b>	<b>04/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP		Colin Azevedo	<b>To:</b> Turner Construction Compan		Michelle Smith	<b>Answered By:</b> Turner Construction Comp Kevin Chiu	
<b>Co-Author:</b>							
<b>REQUEST:</b>			<b>SUGGESTION:</b>			<b>ANSWER:</b>	
During the weekly Utility Relocation OAC meeting on 04/12/2011 Eric Zagol with AECOM informed Webcor/Obayashi that new drawings for the removal of the existing sewer on First street had been issued on 04/08/2011. To date Webcor/Obayashi has not received these drawings.						<b>Accept Suggestion:</b> <input type="checkbox"/>	
Please advise the status of these drawings.						Kevin Chiu 4/21/2011: See CR U-022 transmitted on 4/18/2011 to W/O's document control email for ASI No. U-006 which contains the requested information.	

U-0131	Minna St PG&E Duct Bank Termination Points	Closed	04/19/2011	04/29/2011	04/22/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Michelle Smith	Answered By: AECOM Technical Service	
Co-Author:						Eric Zagol	
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
PG&E has confirmed Trinet is to terminate the PG&E duct back 3' outside the east and west walls of manhole 1319. Please confirm that the termination points of the PG&E duct bank as described will fulfill Trinet's scope of work and the future completion of the duct bank will be performed by PG&E.				Eric Zagol 4/21/2011: Joint Trench termination points at EMH 1319 and 1318 are as follows:			
				1319 East wall; PG&E would like the conduit capped and left 3 feet short of the vault with concrete encasement 15 feet short of the vault.			



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 93 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>Please note terminating the duct bank 3' outside the west wall of MH 1319 will leave the end of the ducts directly under the 24" high pressure water main. This may create an issue with future access to complete the duct bank by PG&amp;E.</p> <p>Please advise.</p>			<p>1319 West wall; PG&amp;E would like the conduit capped and left 6 feet short (or 1-foot clear of existing 24-inch water, whichever is greater) of the vault with concrete encasement 15 feet short of the vault.</p> <p>1318 North wall; PG&amp;E would like the conduit capped and left 3 feet short of the vault with concrete encasement 15 feet short of the vault.</p> <p>The new termination points shall be considered as the limit of new conduit installation at EMH 1319 and 1318.</p>			
U-0132	Minna St Sewer Pressure Test	Closed	04/20/2011	04/30/2011	04/27/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo		To: Turner Construction Company      Gary Krutsch		Answered By: AECOM Technical Services      Eric Zagol			
Co-Author:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
REQUEST:				Eric Zagol    4/26/2011: Test sewers in accordance with the contract documents. See specification sections:			
				034010 3.1 E			
				CCSF DPW Standard Section 319 Low Pressure Testing per 333110 1.2 A.			
				333110 1.4 C			
				333110 3.7			
				333110 3.8 B			
				333110 3.9			
				Provide TJPA Representative and SFPDW inspector 72 hours of advanced notice prior to testing.			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 94 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0132.1	Sewer Main Pressure Test	Closed	05/07/2011	05/17/2011	05/11/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Colin Azevedo <b>To:</b> Turner Construction Compan      Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b> Trinet has been advised by Mission Clay (the VCP manufacture) that the hydrostatic test described in the SF Standard Specification Section 319.02 is primarily for cast iron or ductile iron pipe and is not recommended for clay pipe. The National Institute of Clay Pipe and Mission Clay recommend a low pressure air test in accordance with ASTM C 828. See attached copy of ASTM C 828. Trinet proposes using this low pressure air test in lieu of the 10psi hydrostatic test called for in the standard specifications. The low pressure air test will allow test on pipe runs with no service laterals ie: MH501-502, 206-207, 203-204, 202-201. Please advise if this is acceptable.  With regards to the three remaining pipe runs that have lateral connections, please provide direction of how to plug the laterals if required to test the main lines.			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> =====UPDATE 5/23/2011=====Kevin Chiu    5/23/2011 Below are links to devices for testing newly installed sewer pipes, specifically for main lines with active lateral connections that have been suggested within conversations between SFDPPW, SFPUC and AECOM  <a href="http://newsite.cherneind.com/pneumatic/Long_Test_Ball_MS2_Test_Ball/">http://newsite.cherneind.com/pneumatic/Long_Test_Ball_MS2_Test_Ball/</a>  <a href="http://www.munipipe.com/chemical_grouting.html">http://www.munipipe.com/chemical_grouting.html</a>  <a href="http://veoliaes-is.com/Services/Environmental-and-Waste-Management/Total-Sewer-Management/Chemical-Grouting">http://veoliaes-is.com/Services/Environmental-and-Waste-Management/Total-Sewer-Management/Chemical-Grouting</a>  Whether or not the contractors decide to utilize these devices is still up to them, as these are suggestions, not specifically required devices to be used for testing. It is the contractor's responsibility to perform testing on newly installed main lines, laterals, and manholes with their own means and methods while still protecting new and existing utilities.  =====Eric Zagol    5/10/2011 ASTM C828 air test is an acceptable method to test sewer pipe in lieu of hydrostatic testing.				
U-0133	Minna St Joint Trench Configuration and Alignment, Sta 2+24 to 1+62	Closed	04/20/2011	04/30/2011	04/26/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Colin Azevedo <b>To:</b> Turner Construction Compan      Gary Krutsch			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b> During the installation of the AT&T ducts between Sta 2+24 and 1+62 the AT&T inspector, Juan, instructed Trinet to remove two bends from the duct bank. AECOM			<b>SUGGESTION:</b>  <b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/> Eric Zagol    4/21/2011 Please provide the referenced "attached...revised AT&T duct routing" for review.				





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 96 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

The connection of the new sludge line to the existing sludge line (south) per TG04.6, shall be made south of the plug.

U-0135	4" Water Service @ 1st and Natoma	Closed	04/27/2011	05/07/2011	05/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Gary Krutsch	Answered By: AECOM Technical Service	
Co-Author:						Eric Zagol	
REQUEST:		SUGGESTION:		ANSWER:		Accept Suggestion: <input type="checkbox"/>	
While excavating for the 6" service connection to the new water line on First Street at Sta2+25 M Squared located an additional 4" ductile iron service that is connected to the existing water main. This 4" line is not shown in the contract documents.				Eric Zagol 5/2/2011 Retap the existing 4" service to 500 Howard St. Coordinate service location with SFWD inspector. Submit piping plan showing the 4", 6" and 1" services for review.			
SFWD records show this to be a live service and would like for this to be tied into the new main.				Kevin Chiu 5/4/2011 Pending approval by the TJPA, a CR will be issued.			
There is now no point of connection on the new water line to receive this 4" service.							
Please advise.							

U-0135.1	4" Water Service at First and Natoma	Closed	05/09/2011	05/19/2011	05/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Gary Krutsch	Answered By:AECOM Technical Service Eric Zagol	
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
In response to RFI #U-0135, see attached piping plan, as requested in RFI response.				Eric Zagol    5/10/2011 With the understanding that the 12" main, 12" GV, 6" service and 1" service are already installed, furnish and install 4" GV and DIP service and connect to 12" main per piping plan.			
Once approved M Squared will coordinate with SFWD to perform the work.							
**An expedited response is required as this is holding up all other water work on Natoma Street**							





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0136	Existing Water Bypass @ Howard and Fremont	Closed	05/03/2011	05/13/2011	05/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			ANSWER:				
While planning for the water tie in at Howard and Beale the Water Department discovered that there is an existing bypass line that will connect the existing water system (which is to be abandoned) to the new water system. This bypass is not shown on the plans. The Water department has requested that the existing bypass be excavated and plated so it can be cut and capped while they have the line shut down for the tie in on the new system at Howard and Beale the night of 05/04/2011.			Accept Suggestion: <input type="checkbox"/>				
Please advise.			Eric Zagol 5/4/2011 RFI is not accruate and locations are incorrect.				
SUGGESTION:			Based on a field meeting with W/O ,SFWD Inspector and AECOM on 5/3/11, SFWD identified an unforeseen existing bypass pipe and gate valve that connects the existing 8-inch main in Fremont Street (to remain) to the existing 8-inch main in Howard Street (to be abandoned). The existing 8-inch main in Howard Street will be abandoned once the new 12-inch main is Howard is active.				
			Once the new 12-inch main in Howard Street is placed into service and the existing main is abandoned, the existing bypass and gate valve from the existing 8-inch active Fremont main will be connected to the abandoned Howard Street main. To mitigate the situation the SFWD proposes to cut and cap the existing bypass such that the existing Fremont main is not connected the abandoned main in Howard Street.				
			Coordinate with SFWD to locate existing bypass and define the limits of excavation required to cap the existing bypass.				
			Excavate to expose bypass. Shore and plate per specifications. Restore per specifications.				
			Cutting and capping of the existing bypass will be by SFWD.				
			Kevin Chiu 5/4/2011 Pending approval by the TJPA, a CR will be issued.				
U-0137	Verizon Ductbank conflict w/MH 701	Closed	05/03/2011	05/13/2011	05/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

M Squared's sewer potholing on Beale (Sta 0+30) has indicated a conflict between an existing Verizon duct bank and MH# 701 on Howard Street. See attached drawing. The ductbank is approximately 18" wide x 18" deep. It is 2'4" to the top and it is slurry encased. Verizon underground locators have confirmed that this is live and serves Charles Schwabb building south of Howard on Beale Street. Please advise.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Eric Zagol 5/10/2011 Unforeseen condition, Verizon utility not shown in existing utility survey.

As suggested by Noel of (M Squared) during a site visit on 5/3/11 with W/O and AECOM, based on Noel's discussions with Mike Roybal (Verizon Field Engineer) and confirmed by AECOM based on follow up discussions with Mike Roybal (Verizon) and Pam Brown (Verizon), coordinate with Verizon and remove existing concrete encasement from existing duct to expose conduit in area of conflict. As directed in the field by Verizon, remove concrete encasement around duct from area in conflict to adjacent Verizon manhole. Move and support exposed Verizon conduit as required and directed by Verizon to construct manhole.

Coordinate with Mike Roybal (Verizon) at (415) 716-6736 such that a Verizon representative is present during the Verizon duct concrete encasement removal, moving and support install.

Restore Verizon duct to match existing concrete encasement following completion of sewer manhole.

<b>U-0138</b>	<b>Temporary Telecom Pole Layout in Lot N and N'</b>	<b>Closed</b>	<b>05/09/2011</b>	<b>05/19/2011</b>	<b>05/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Joanne Filipas	<b>To:</b> Turner Construction Compan	Gary Krutcs	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:****REQUEST:**

Reference attached layout and submittal package#TG0406-014:

Due to the future use of lot N and N' prime, the temporary telecom poles must be relocated. The attached sketch indicates the proposed layout of these poles which has been coordinated with AECOM. Submittal Package#TG0406-014 has been submitted for formal approval of the pole locations.

Please confirm relocating the poles is acceptable.

**SUGGESTION:****ANSWER:****Accept Suggestion:** ☐

Eric Zagol 5/10/2011 The pole alignment changes requested by CMGC along with additional requests from Telecommunications companies has required a pole and pole placement redesign. An ASI has been generated for the redesign with a CR forthcoming.



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0139	Existing Water Line on Beale in Conflict with New Sewer	Closed	05/09/2011	05/09/2011	05/10/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>		
Today while trying to execute the USAR for the existing 12" water line on Beale Dan Helminiak with SFWD informed Webcor/Obayashi and M Squared that the existing water line will remain active until the water tie in at First and Natoma is completed and the existing 8" is capped at First and Howard as shown on sheet U-3116.			Eric Zagol    5/10/2011 Please clarify the question(s).				
The water tie in and capping of the existing line on First Street is currently being delayed by separate issues and it is unclear when this work will be completed.			Subject states "Existing Water Line on Beale in Conflict with New Sewer". Per U-1124 Demolition and Construction Sequence order, Beale Street sewer is to commence after existing water main in Beale Street is abandoned. Please clarify where and what the conflict is.				
Dan Helminiak suggested that the existing 8" water line running down Howard could be capped by the water department at one of the existing tees which would allow the decommissioning of the existing line on Beale.			Also, please confirm the following:				
Please advise.			1. Is the new 12" main along Howard Street between First and Main streets active? 2. Is the new 12" main along Beale Street north of Howard Street active? 3. Is the new 12" main along Beale Street south of Mission Street active?				

U-0139.1	Cap (E) Water on Howard @ Beale	Closed	05/16/2011	05/26/2011	05/24/2011	Potentially	<input type="checkbox"/>	
From: Webcor Construction LP			Colin Azevedo		To: Turner Construction Compan			Gary Krutsch
Co-Author:								
REQUEST:			SUGGESTION:			ANSWER:		Accept Suggestion: <input type="checkbox"/>
<p>-New 12" water main along Howard between First and Main is active.</p> <p>-New 12" water main along Beale Street North of Howard is active.</p> <p>-New 12" water main along Beale Street South of Mission is active.</p> <p>Per U-1124 Demolition and Construction Sequence order, Beale Street sewer is to commence after existing water main on Beale is abandoned.</p> <p>- The old water line on Howard Streets and Beale Streets is currently not active because the valves on the line at First and Howard are currently shutdown. Dan from the water department has expressed his concern that anyone can just open these valves and fill the old line along Howard Street. He is also concerned that the valve is not 100% closed and that the SFWD cannot get a complete shutdown on the old line. This means when M Squared</p>						<p>Eric Zagol 5/23/2011 Coordinate construction of the cap on the old Howard St. main at the intersection of Main St. with SFWD as shown on U-3119.</p> <p>Coordinate construction of the cap on the old Howard St. main at the intersection of First St. with SFWD as shown on U-3116 (latest rev per SK-U-0003 1/28/11).</p> <p>Per discussions with SFWD inspector, the old Howard St. main has been capped at Main St, Beale St. (south of the cross) and at the Fremont St. by-pass connection by SFWD. Additionally, the two line gates at First and Fremont streets are closed and have been filled with concrete.</p> <p>The caps at Main, Beale, Fremont in combination with the closed line gates at First St. will allow sewer installation on Beale St. to proceed.</p>		



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 100 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>removes the old water line on Beale Street in order to install the new sewer, it is possible that there will be a constant flow of water in the old line.</p> <p>The suggestion from Dan is to cap the old water line on Howard Street so that When M Squared removes the old line on Beale Street there will be no possibility of water flow. A cap on the line at Howard would also confirm for definite that the old line on Howard and Beale Street is "abandoned".</p> <p>Please provide direction for capping the existing water line on Howard so the sewer installation on Beale can proceed.</p>						
U-0140	<b>Proposed Changes by BLHP to S/L Conduit Run @ 2nd &amp; Minna</b>	Closed	05/11/2011	05/21/2011	05/20/2011	Potentially	<input type="checkbox"/>
	<b>From:</b> Webcor Construction LP      Colin Azevedo <b>To:</b> Turner Construction Compan   Gary Krutsch					<b>Answered By:</b> AECOM Technical Service Eric Zagol	
	<b>Co-Author:</b>						
	<b>REQUEST:</b> During a field meeting on 5/10/2011 with Eric Zagol, AECOM and Robert Kawano, BLHP to discuss the alignment of the conduit run from 2nd St to the relocated S/L pole @ Stn 2+89, Robert Kawano asked that a splice box be installed in the sidewalk downstream from the connection point to PG&E's manhole. The box would serve as the connection point for BLHP to PG&E's power supply from 2nd St for the street light. Because of an existing sidewalk basement, which is located along the north side of Minna, east of 2nd St., it was agreed in the field that the splice box should be placed in the sidewalk just west of the new fire hydrant located @ Stn 0+93. There is already a pocket constructed in the sidewalk basement to accommodate the fire hydrant and Trinet will locate the splice box within this pocket structure. A sketch is attached depicting the proposed alignment of the conduit run and the additional splice box as discussed in the field. Please confirm this is acceptable.	<b>SUGGESTION:</b>			<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
					Eric Zagol 5/19/2011 Per BLHP's request, furnish and install a CCSF DPW precast pullbox, cover, and lid per CCSF DPW Standard Plans and Specifications between the PG&E supply point and the relocated street light pullbox along Minna Street east of Second Street.		
					Location; confirm that a sidewalk pullbox will fit in the knock out space above the 121-123 Second St. sidewalk basement adjacent to the newly installed fire hydrant prior to construction.		
					Maintain minimum bends in conduit run per Specification 33 71 00.		
U-0141	<b>Street Light Connection Point at Second and Minna</b>	Closed	05/16/2011	05/26/2011	05/20/2011	Potentially	<input type="checkbox"/>



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							
<b>From:</b> Webcor Construction LP		Colin Azevedo	<b>To:</b> Turner Construction Company Gary Krutsch		<b>Answered By:</b> AECOM Technical Service Eric Zagol		
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>			
In the response to our RFI # U-0016, Trinet was directed to connect the street lighting conduit on the west end of Minna into PG&E MH #1319 on 2nd St. At a field meeting on 5/10/1 with Eric Zagol and Robert Kawano, to discuss the alignment of the street lighting run for the relocated light on the west end of Minna, Eric advised that PG&E was contemplating a change in the connection point for this conduit run from MH 1319 to MH 1320. MH #1320 is located to the south of 1319 and further west towards the middle of 2nd St. Please confirm the connection point on 2nd St for the street lighting conduit.				***5/26/11 UPDATE***  Supply point has been confirmed as PG&E EMH 1320. Coordinate connection location with PG&E Field Engineer.  Eric Zagol 5/19/2011 Related to Joint Trench changes and PG&E's de-energization of Minna Street after the response to RFI U-0016 was provided, PG&E has revised their electrical plans with respect to EMH 1319 and has indicated that the preferred location for new street light power would be EMH 1320.  In accordance with U-3201 Note 7, AECOM considers this RFI as the request to coordinate connections with BLHP and PG&E through the TJP representative for new street light circuit connections. AECOM and the TJP Representative are in the process of coordinating Street Light Service Orders with BLHP and PG&E. Once the Service Order is processed the final connection point will be provided.			
<hr/>							
U-0142	Concrete Specifications for Sidewalk Replacement @ 555 Mission	Closed	05/16/2011	05/26/2011	05/18/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP		Colin Azevedo	<b>To:</b> Turner Construction Company Gary Krutsch		<b>Answered By:</b> Turner Construction Company Kevin Chiu		
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>			
The sidewalk concrete @ 555 Mission (on Minna) is not the typical San Francisco sidewalk mix design. It is a colored concrete with what appears to be a sandblasted finish. Please provide the concrete specifications for repair and/or replacement of the sidewalk in this area.				Kevin Chiu 5/18/2011 Sidewalks shall be constructed of a dark gray, Hi-con @ 5 lbs. per cubic yard carbon black based concrete finish, with 25 to 30 lbs. per 100 square feet of silicon carbide sparkle grains. The surface of the concrete shall be washed and rinsed using a stiff brush, and if necessary shall be sandblasted to remove the concrete surrounding the aggregate to minimum depth of 1/8 inch.			
<hr/>							
U-0143	Demolition of PG&E Duct Bank Alongside (N) 18" Sewer Main on Minna	Closed	05/16/2011	05/26/2011	05/20/2011	Potentially	<input type="checkbox"/>



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**From:** Webcor Construction LP

Colin Azevedo

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

During excavation and shoring for installation of the 18" Sewer main along Minna St., between the (E) electrical vault @ Stn 1+80 (demolished) and (N) manhole # 201, Trinet was unable to save the entire length of the existing PG&E duct bank (currently abandoned), which runs along the south side of the sewer trench. Between stations Stn 0+95 and 1+25 (approx.) the duct bank had veered into the sewer trench and had to be demolished - see attached sketch. Please review and advise.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 5/19/2011 U-1107 (rev 2 3/16/11) indicates that the existing 6-4" PG&E duct is to be protected in place.

2 of the 6 existing 4" conduits will be utilized by PG&E to provide temporary construction power to W/O Skids 1 and 2 along Minna Street.

Mandrel existing conduits east of STA 1+25 to STA 1+70 (where new conduit caps were to be installed per contract) to confirm that the existing conduits that were to be protected in place have no blockages.

Coordinate with PG&E as STA 0+95 is exposed to determine which 2 of existing 4" conduits will be utilized for temporary construction power.

Furnish and install 2-4" conduits concrete encased to replace those that were removed during sewer construction. Connect new conduits to existing that will remain to provide temporary construction power.

**U-0143.1**

**(E) PG&E Duct Bank from EMH #1320 to Demolished EMH #1355**

**Closed**

**06/14/2011**

**06/24/2011**

**06/14/2011**

**Potentially**



**From:** Webcor Construction LP

Colin Azevedo

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

After further investigation of the existing PG&E duct bank between EMH #1320 and demolished EMH # 1355 (@ Anchor & Hope), Trinet found that there is only one unobstructed conduit between the two manholes. The unobstructed conduit is the one that already had a pull rope in place. Trinet had demolished a section of this conduit during excavation for sewer MH # 201 because it was in conflict with the shoring. Trinet replaced the damaged section (approx. 8 LF) on Saturday 6/1, and reconnected the pull rope in the conduit run. A sketch of the conduit run, depicting the section replaced, is attached. Please review and advise if one 4" conduit will be adequate from EMH #1320 to the west end of

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 6/14/2011 PG&E plans to use the existing conduit package to provide temp power to Skids 1 and 2. Mike Balmy of PG&E was notified and has confirmed that only 1-4" unobstructed conduit is required between EMH1320 and the cap at demolished EMH1355 for future temp power service.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 103 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>demolished EMH #1355.</div>							
U-0144	PGE Vault conflict with 24" VCP on Beale	Closed	05/17/2011	05/27/2011	05/20/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo			To: Turner Construction Compan   Gary Krutsch		Answered By:AECOM Technical Service Eric Zagol		
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>		
<p>PG&amp;E confirmed the location of the inside of the east wall of PG&amp;E manhole 1702 at Howard and Beale Street. Allowing for a 12" thick wall, the vault will be in conflict with the proposed alignment of the future 24" VCP, even with moving the alignment 1' further east as directed in RFI U-0124. The conflict could be avoided by moving the alignment another 6" further east. However this will cause a conflict between manhole #701 and the existing 14" AWSS. Additionally the Verizon duct bank conflict increases(RFI#U-0137). Please advise.</p>					<p>Eric Zagol   5/19/2011 As discussed in the field on 5/18/11 with Jason Dunne (W/O) and Noel McCarthy (MSquared) the exact location of the existing PG&amp;E MH outside wall and the existing AWSS is currently unknown.</p> <p>Adjust locations of MH#701, MH#702, MH#704 and sewer alignment east as required (~6" as mentioned) for the 24" VCP installation (new and future) to avoid the existing PG&amp;E MH however not in conflict in conflict with the existing 14" AWSS line.</p> <p>Note, the existing AWSS line will be abandoned North of Beale Street STA 1+10.</p> <p>Confirm alignment (2-10" VCP and future 24" VCP) will clear existing AWSS valve at STA 0+70.</p>		
U-0144.1	PG&E Vault conflict with 24" VCP on Beale	Closed	06/30/2011	07/10/2011	07/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Jonathan Flaming			To: Turner Construction Compan   Gary Krutsch		Answered By:Turner Construction Comp Kevin Chiu		
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>		
<p>In response to RFI U-0144, please note that M Squared confirms the following:</p> <p>2-10inch VCP and future 24inch VCP will clear existing AWSS Valve at Sta 0+70.</p>					<p>Kevin Chiu   7/1/2011 RFI does not request additional information.</p>		





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 104 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0145	Sludge Main Conflicts with Existing Utilities	Closed	05/17/2011	05/27/2011	05/18/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Please see attached pothole results for the new sludge main on Mission Street. Due to the quantity and location of existing utilities, and utility vaults/manholes it will not be possible to install the new 12" sludge main on Mission Street as shown on the contract drawings.					Accept Suggestion: <input type="checkbox"/>		
Please advise.			Eric Zagol 5/18/2011 Please indicate which utilities were marked via the USA ticket and or those identified by other means.				
<hr/>							
U-0145.1	Sludge Main Conflicts with existing utilities	Closed	05/18/2011	05/28/2011	06/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
In response to RFI# U-0145, see attached with notes. M Squared has marked what utilities were located via USA markings and what ones have been located via the contract drawings. There are also several unknowns that could not be identified.					Accept Suggestion: <input type="checkbox"/>		
			Eric Zagol 6/7/2011 Revised contract documents will be provided via ASI 012 to address sludge line conflicts in Mission St.				
<hr/>							
U-0146	Proposed Pavement Reconstruction Plan for Minna Street	Closed	05/17/2011	05/27/2011	05/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Please find the attached sketch detailing Trinet's proposed pavement reconstruction plan for Minna St., between 1St to 2nd Streets. Please review and advise.					Accept Suggestion: <input type="checkbox"/>		
			Eric Zagol 5/23/2011 AECOM has reviewed the sketch provided and has the following comments in accordance with Contract requirements:				
			Confirm existing utilities to be demolished as shown on Demolition Plans have been demolished per Plans prior to final street restoration. Provide FULL street restoration, curb to curb, in Minna St. West of the CDSM shoring wall (~STA 2+25) to Second Street in accordance with Contract requirements (DPW ORDER NO. 178,940 [superseding DPW ORDER 176,707] per specification SECTION 32 12 17) Construct Curbs in accordance with DPW Stnd. Plan 87,169				



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
 30100 - Transbay Transit Center Project



1. The southern extent (limit) of concrete base and



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

confirm pavement reconstruction can proceed per the attached detail..

ACWS between STA 2+30 and First Street shall be based on U-5101 Detail 6 and the limit of excavation required to do perform the Demolition and New utilities work in Minna Street. Conform to final saw cut lines as indicated in Detail 6.

U-0147	Existing Top-Of-Curb Grades @ Minna Driveways for 575 Mission Building	Closed	05/27/2011	06/06/2011	06/01/2011	Potentially	<input type="checkbox"/>
--------	--	--------	------------	------------	------------	-------------	--------------------------

From: Webcor Construction LP Colin Azevedo To: Turner Construction Compan Gary Krutsch

Answered By: AECOM Technical Service Eric Zagol

Co-Author:

REQUEST:

The existing driveways entering the 575 Mission St building, are depressed between 2 ½" to 3" below the adjacent top-of-curb and sidewalk grades - see attached drawing depicting the driveways. This condition seems to be a consequence of repeated overlaying of Minna street, which has resulted in a curb height in many areas far less than the City standard of 6 inches. The street grade along the north side of Minna along the 575 Mission building ranges from 3 ½ to 4 ½ inches below top-of-curb grade.

SUGGESTION:

Trinet has been directed in the field by Jason Chin, and by the Engineer in RFI #U-0146, to construct the new roadway with finish grade at curb line 6" below top-of-curb grade. This is consistent with City standard plan # 87,169. The new roadway grades will result in 3" to 3 ½" of exposed curb height at the driveways to 575 Mission, which is considerably deeper than the 1" called for in the San Francisco standard plans for driveway construction (plan # 87,171). It will also not be possible to raise the street grade at the driveways without impeding road runoff drainage and causing ponding.

Please review and advise.

ANSWER:

Accept Suggestion: ☐

Eric Zagol 5/31/2011 Restore pavement along existing curbs and driveways along the north side of Minna St. in accordance with Contract drawings and DPW Order No. 176,707 (and latest revision 178,940) Section 12 to match existing flow line elevations at curbs and driveways shown on U-1001. 6-inch curb and driveways along Minna St. will be reconstructed at a later date as part of the Transit Center Project.

U-0148	Pavement Reconstruction Plan for West End of Minna Street - Stn 2+15 to 2nd St	Closed	05/27/2011	06/06/2011	06/07/2011	Potentially	<input type="checkbox"/>
--------	--	--------	------------	------------	------------	-------------	--------------------------

From: Webcor Construction LP Colin Azevedo To: Turner Construction Compan Gary Krutsch

Answered By: AECOM Technical Service Eric Zagol



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 108 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Co-Author:

**REQUEST:**

Please provide a pavement reconstruction drawing, or typical cross section detail, for the west end of Minna St from Stn 2+15 to 2nd St. Trinet had planned to reconstruct the street in this area from curb to curb. We find however, that there is a grade difference of approximately 6 inches between top-of-curb on the north side of the street and the south side, with the south side being at the higher grade. The construction detail approved in RFI #U-0146 (Trinet #094) cannot be utilized in this area, because the street already has a cross slope of approx. 2% from south to north.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 6/7/2011 See response to RFI 146.2

U-0149

**MH#701 Conflicts with existing utilities**

**Closed**

**05/27/2011**

**06/06/2011**

**06/09/2011**

**Potentially** ☐

**From:** Webcor Construction LP

Colin Azevedo

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**AECOM Technical Service Eric Zagol

Co-Author:

**REQUEST:**

The 14" AWSS line west of MH#701 was found to be constructed thru the roof of the existing 3x5 sewer. Several bends were used in the AWSS line construction and these bends included lugs and tie rods. As a result of the presence of these tie rods and fittings we can now not move MH#701 any further west. To install the new 24" VCP in a straight line (perpendicular to MH wall), and in order to get by the existing PGE MH we will have to pour the pipe wall and 2" of the internal diameter of the pipe into the west wall of MH 701. Please advise on how to proceed.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 6/8/2011 Deflect VCP pipe joints in accordance with ASTM C425 (max 1.8 degrees per joint) to allow for 6" of deflection to avoid the existing PG&E MH and connect to MH#701 as shown in the attached SK-U-0019.

Confirm in the field that 6" deflection will allow the 24" VCP to be clear of the MH wall.

U-0149.1

**MH#701 Conflicts with existing utilities**

**Closed**

**06/30/2011**

**07/10/2011**

**07/01/2011**

**Potentially** ☐

**From:** Webcor Construction LP

Jonathan Flaming

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**Turner Construction Comp Kevin Chiu

Co-Author:

**REQUEST:**

In response to RFI U-0149, please note the following:

M Squared confirms that 6inch deflection of the VCP will allow the 24inch pipe to be clear of the manhole wall.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Kevin Chiu 7/1/2011 RFI does not request additional information.



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 109 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0150	Proposed Correction to Field Condition Report 40C	Closed	05/31/2011	06/10/2011	06/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Please see the attached detail from Trinet Construction Inc for their proposed solution to mitigate the incorrect installation of CB203 identified in Field Condition Report 40C.					Accept Suggestion: <input type="checkbox"/>		
Please advise if the proposed solution is acceptable.					Eric Zagol 6/1/2011 The proposed solution has been reviewed and approved by SFDPW BOE and is acceptable. Construct catch basin as shown in the Trinet proposed construction detail attached to CR40C. Construct the clean out on the cast iron trap such that it is accessible from above for maintenance via removal of the grate. Coordinate inspection during installation with DPW BCM inspector through the TJPA's Representative.		
U-0151	Additional Sewer Lateral Connection for 100 1st Street	Closed	06/02/2011	06/12/2011	06/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Trinet has discovered an additional sewer lateral for the 100 1st Street building which was not connected to the new 24" sewer main - see attached sketch. The lateral is located at sta. 7+09 and services a single toilet and the rear of the building. This lateral was not shown on the plans and there was no vent in the sidewalk to indicate the existence of a lateral. Trinet potholed the lateral in the sidewalk and a 4" cast iron lateral, a 4" cast iron trap and a 4" cast iron vent pipe capped 2' below grade. Please confirm Trinet is to tie the lateral into the new 24" sewer main on Minna. Also, please advise what is to be done with existing cast iron trap and vent pipe assembly which are not up to current DPW standards.					Accept Suggestion: <input type="checkbox"/>		
					Eric Zagol 6/8/2011 In accordance with U-3000 General Note 12, contractor was to verify that there are no active sewer lateral connections to the existing sewer prior to sewer demolition.		
					Please provide the elevation of the existing sewer lateral and the location of existing 4" cast iron vent pipe for review.		
					Renewal of this lateral will be discussed with TJPA and 100 First St. property owner, final direction forthcoming.		
U-0151.1	Additional Sewer Lateral Connection	Closed	06/29/2011	07/09/2011	07/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jonathan Flaming To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
This is a follow-up to the request by the Engineer in his response to W/O RFI #U-0151 (Trinet RFI #097) for					Accept Suggestion: <input type="checkbox"/>		
					Eric Zagol 7/5/2011 In reference to RFI-151 and 151.1:		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 110 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>additional information relating to the 2nd sewer lateral connection for the 100 1st St building. Trinet also clarifies the issue of the existing 4" trap on the line, which was raised in the original RFI.</p> <p>The sewer lateral is located @ Stn. 7+09 and the invert elevation of the 4" cast iron sewer lateral pipe at face-of-curb is 14.6'. The elevation for the top of the new concrete encased ductbank @ Stn 7+09 is 13.85'. The sewer lateral was therefore not in conflict with the new joint trench utilities.</p> <p>With regards to the existing 4" trap on the line, Trinet checked with the SF Plumbing department which advised that a 4" cast iron trap was adequate for a 4" sewer lateral. The existing trap was therefore in compliance with the SF plumbing code. Trinet advised Jason Chin of this in the field and he agreed that the trap did not need to be replaced.</p> <p>The 4" cast iron vent pipe for the trap did not extend to street level but was capped-off approximately 18" below grade. Per field discussions with Jason Chin, Trinet extended the trap vent piping to grade and installed a street vent frame &amp; cover in the sidewalk.</p>						<div>1. Reconnect existing lateral to new 24" Minna St. sewer in accordance with SFDPW Standard Plan 87,196.</div> <div>2. Extend fresh air inlet and air inlet cover to existing sidewalk grade.</div>
U-0152	Alternate Manhole Testing Method	Closed	06/02/2011	06/12/2011	06/07/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan	Gary Krutsch				
Co-Author:		Answered By:AECOM Technical Service					
REQUEST:		SUGGESTION:		ANSWER:			
Spec section 03 40 10 3.1 E directs the contractor to test all manholes hydraulically by exfiltration testing.				Accept Suggestion: <input type="checkbox"/>			
M Squared proposes the use of the vacuum method of testing manhole sections instead of the above method (See attached)				Eric Zagol 6/7/2011 Vacuum method in accordance with ASTM C1244 is acceptable for testing of sewer manholes.			
This vacuum method is in accordance with ASTM C1244.							
Please advise if this is acceptable.							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 111 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0153	Concrete Slab and Rail Ties Conflict with Sludge Line on Howard	Closed	06/03/2011	06/13/2011	06/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
While potholing for the sludge line alignment along Howard Street between Beale and Main at Sta 18+00 and Sta 19+42 M Squared discovered the presence of wooden rail ties and concrete slab (see attached photos). These are possibly the same ties and slab that M Squared encountered while installing the water line on TG04.3. They are in direct conflict with the proposed location of the new sludge line along Howard Street. Please advise.					Accept Suggestion: <input type="checkbox"/>		
					Eric Zagol   6/21/2011		
					*** 6/21/11 Update ***		
					Based on follow up discussions with W/O and M2, and further understanding of the extents of the concrete slab and wooden rails ties found further West (Howard and Fremont streets TG04.3), remove and dispose of concrete and wooden rail ties as required to construct 12" sludge line.		
					Eric Zagol   6/8/2011 Pothole at STA 18+00 to determine the extents (southern and northern) of the concrete slab and wooden rail ties.   Submit pothole data for review.		
U-0154	Electrical Service for Street Lights on Natoma	Closed	06/08/2011	06/18/2011	09/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Gary Krutsch			Answered By:Webcor Construction LP   Chris Lotti				
Co-Author:							
REQUEST:			SUGGESTION:		ANSWER:		
Per Sheet U-1120 the electrical service feeding the street lights on Natoma is to be demolished, see attached. This conduit has been exposed through the investigative trenching process on First, confirmed dead and remove. As a result the existing street lights on Natoma are without power. There are no details provided in the plans for reestablishing power to these street lights now that the demo is complete.			Eric Zagol   6/20/2011 Natoma Street street light power renewal to be addressed via ASI 014 forthcoming.		Accept Suggestion: <input type="checkbox"/>		
Please advise.					Change Request No. U-043R1 -Renew Natoma Street Light Power Supply (ASI No. 014) [30100.03] - Force Account issued 9/13/2011.		
U-0155	AWSS Cast In Place Concrete Testing	Closed	06/20/2011	06/30/2011	06/28/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Jonathan Flaming      To: Turner Construction Compan   Gary Krutsch			Answered By:Turner Construction Comp Kevin Chiu				
Co-Author:							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 112 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div><div><b>REQUEST:</b><p>The AWSS Specification section 03300-2, Cast-In-Place Concrete 1.5 C (Quality Assurance) states that the concrete testing will be performed by an agency employed by the TJPA.</p><p>However, 03300-10, 3.9 B (Field Quality Control) states that the concrete testing will be performed by the City Testing and Inspection Agency.</p><p>Please advise who will be performing the cast in place concrete testing.</p></div><div><b>SUGGESTION:</b></div><div><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/><p>Kevin Chiu 6/28/2011 The TJPA employed testing agency will provide concrete testing per 03300-2, 1.5C.</p><p>Michael Smith's (SFDPW) response, "TJPA can have testing performed or set funding in place for testing by SFDPW's testing lab," dated and signed on 6/27/11 (see attached).</p></div></div>							
U-0156	Sink Hole under road base at MH#701	Closed	06/21/2011	07/01/2011	06/22/2011	Potentially	<input type="checkbox"/>
<div><div><b>From:</b> Webcor Construction LP      Jonathan Flaming</div><div><b>To:</b> Turner Construction Compan      Gary Krutsch</div><div><b>Co-Author:</b></div><div><b>ANSWERED By:</b> AECOM Technical Service Eric Zagol</div></div>							
<div><div><b>REQUEST:</b><p>While excavating for MH#701 M Squared discovered what appears to be a large void under the street base adjacent to the west wall of the MH#701. We estimate the void to be approximately 3' wide and 12' long. This may be a hazard as the street base may collapse at some point in the future.</p><p>Please advise how you would like to proceed.</p></div><div><b>SUGGESTION:</b></div><div><b>ANSWER:</b>      <b>Accept Suggestion:</b> <input type="checkbox"/><p>Eric Zagol 6/22/2011 Unforeseen existing condition not clear if directly related to the Relocation of Utilities Project work.</p><p>AECOM suggests that the existing pavement be removed over the area of the sink hole and conditions be evaluated.</p><p>Once existing utilities are determined to be secure, backfill with a sand cement slurry and restore pavement in accordance with SFDPW Standard Plans and Specifications.</p><p>Kevin Chiu 6/22/2011 Coordinate repair of sink hole with TJPA representative. Repair work to be paid under CR U-039</p></div></div>							
U-0157	Pressure Testing for Sewer Manhole #'s 501 & 502 on 1st St.	Closed	06/28/2011	07/08/2011	07/08/2011	Potentially	<input type="checkbox"/>





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**From:** Webcor Construction LP

Jonathan Flaming

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

This RFI is a follow-up to discussions in the field with AECOM and the SFDPW Inspector and Trinet, regarding Trinet's inability to perform a pressure test on sewer manholes 501 & 502 on 1st St. due to field conditions. MH #502 is constructed around the existing 3x5 brick sewer on one side (per SF Standard Plan #87,184) and Trinet has no means of plugging the brick sewer effectively to withstand a pressure test.

In the case of sewer MH #501, the original design was similar to MH #502 and a pressure test would not have been possible. The revised design (see attached drawing) includes a temporary 24" corrugated PVC pipe stub extending south from the manhole and connecting to the existing 3x5 brick sewer. The inside of the temporary 24" pipe stub is also corrugated, and therefore cannot be sealed with an inflatable pipe plug, as would be required to perform a pressure test of the manhole structure.

Please confirm that a pressure test will not be required for sewer manholes 501 & 502 on 1st St.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 7/8/2011 Confirmed. Pressure tests for sewer manholes #501 and #502 are not required due to the restrictive conditions.

**U-0158**

**MH #301 Location**

**Closed**

**07/15/2011**

**07/25/2011**

**07/20/2011**

**Potentially**



**From:** Webcor Construction LP

Colin Azevedo

**To:** Turner Construction Compan Gary Krutsch

**Answered By:**AECOM Technical Service Eric Zagol

**Co-Author:**

**REQUEST:**

During our sewer work at 2nd and Natoma M Squared discovered that the Telecom Vault shown on the drawings is in fact significantly larger in the field than is shown on the plans. In order to be able to shore for MH#301 construction M Squared has had to move the location of MH four (4) feet east along Natoma. As a result the jack and bore alignment is now a few inches south of what is shown on the plans.

Please confirm that these adjustments are acceptable.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 7/20/2011 Adjustments proposed are acceptable.

Since the adjustment pushes the MH and cover into the crosswalk path of travel, in lieu of CCSF DPW Standard MH cover, provide an ADA complainant cover that meets the following specifications:

1. MATERIAL - The cast iron shall be in accordance with ASTM "Standard Specifications for Gray Cast Iron Castings" Designation A 48, Class 30. The tensile strength shall be considered the primary test for qualification.
2. FINISH- STANDARD FINISH SHALL BE RAW, AS



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 114 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
			CAST, AND YIELD A MINIMUM COEFFICIENT FOR FRICTION OF .6 OR BETTER IN WET OR DRY CONDITIONS. 3. CASTINGS - SHALL BE FREE OF BLOW HOLES, FLASHING, GRIND MARKS, AND OTHER SURFACE BLEMISHES. 4. Cover shall incorporate a "pic-hole" for lifting purposes. 5. ADA COMPLIANCY- CASTINGS SHALL HAVE HOLES NO GREATER THAN ½" IN THE DOMINANT DIRECTION OF MOTION, NO VERTICAL RISE OF GREATER THAN ¼", IF THE RISE IS GREATER THAN ¼" THE RISE/RUN RATIO NEEDS TO BE 1;2 AND THE MAXIMUM HEIGHT SHALL BE 1/2". 6. Cover shall BE MADE TO FIT EXISTNG FRAMES OR be MACHINED to FIT EXITING FRAMES PER SFDPW STANDARD PLAN 87,190. 7. Cover should be MADE of quality EQUAL TO OR GREATER then THE PRODUCTS MADE BY D&L Foundry or Equal, see attached product data sheet.				
U-0159	Unknown Concrete Structure In Conflict with Sludge Line on Mission	Closed	07/28/2011	08/07/2011	08/16/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo                      To: Turner Construction Compan    Gary Krutsch			Answered By:AECOM Technical Service Eric Zagol				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
While potholing at the locations shown on the attached drawing M Squared discovered what appears to be a concrete wall under the parking strip. M Squared excavated both potholes 7' deep and at that depth the wall appeared to be continuing deeper. This concrete structure is in direct conflict with the proposed location of the new sludge main on Mission Street. The concrete curb on the north side of Mission St also extends 7' deep.				Eric Zagol    8/16/2011 In accordance with specification sections 000810 and 020630, please submit for review locations and findings for all potholes performed along Mission Street associated with the Sludge FM.			
See attached pothole findings.							
Please advise on how you would like to proceed.							



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 115 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0159.1	Conflict with Sludge Line Conflict on Mission	Closed	08/26/2011	09/05/2011	09/13/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Jacob Giannandrea To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST: In response to RFI U-159. See attached pothole findings from remaining potholes on Mission street. Also included is pothole data for Sta 17+28 and Sta 17+50.			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> In response to RFI U-159 and 159.1:  For 12" Sludge FM on Mission at Beale St., information provided shows an existing unforeseen concrete wall 23" from the face of curb, the proposed 12" Sludge FM is shown 1' from the curb. Construct 12" Sludge FM between face of curb and existing concrete wall.		
U-0159.2	Unknown Concrete Structure Sludge Line Conflict	Closed	09/15/2011	09/15/2011	09/21/2011	Yes	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Steve Cunningham			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST: In response to RFI U-159.1 There is not adequate space between the face of curb and the unknown concrete structure in order for a welder to be able to weld the bells of each piece of pipe. Please advise on how to proceed.			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Eric Zagol 9/18/2011 Demolish existing unknown concrete structure south of proposed alignment between STAs 17+25 to 17+75 as required at joints to facilitate welding. Expose unknown structure at joints, identify sections to be demolished and coordinate with TJPA Representative prior to structure demolition.  Jeff Thiel 9/21/2011 Pending approval by the TJPA, a CR will be issued.		
U-0160	Location of Existing Sludge Force Main on Beale Street	Closed	07/29/2011	08/08/2011	08/02/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Gary Krutsch			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST: M Squared has potholed for the sludge line on Mission Street at Beale at the location shown on the attached drawing. They have been unable to locate the existing 10" FM that they are to tie the new 12" sludge main into. The (E) Force Main is not in the location shown on the contract			SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/> Eric Zagol 8/2/2011 The existing 10" sludge FM in the vicinity bends down (~45+) to get under the existing 3'x5' sewer in Mission St. Record drawings show the depth of the 10" sludge FM where potholed at around 5', north of the 45 degree vertical bend.		



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 116 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	drawings. See attached pothole findings. Please advise on how you would like to proceed.						



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 117 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
Please direct M Squared how to proceed.							
U-0161	Unknown Concrete Structure in Investigative Trench	Closed	07/29/2011	08/08/2011	08/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Gary Krutsch		
Co-Author:		Answered By:AECOM Technical Service Eric Zagol					
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
M Squared discovered an obstruction in the Beale Street investigative trench on station 2+55 approximately 25' west of centerline. The obstruction appears to be a 2'-3' thick concrete wall starting directly below the street base and extending down to an unknown depth. M Squared began demoing the obstruction yesterday believing it was part of a concrete encased PG&E trench. It is now known it is not part of any duct package. Please advise on how you would like to proceed.				Eric Zagol   8/1/2011 Unknown non utility structure. A similar structure was found in AECOM's subsurface investigation trench at Beale Street Station 2+80.52 as shown in Specification Section 020630 Appendix A.			
				Protect in place. Non utility structures (i.e. walls) within zone of CDSM shoring wall and Transit Center footprint are to be removed by Buttress/Shoring/Excavation (BSE) contractor.			
U-0162	Manhole #602 Orientation	Closed	08/03/2011	08/13/2011	08/09/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Jonathan Flaming	To: Turner Construction Compan		Gary Krutsch		
Co-Author:		Answered By:AECOM Technical Service Eric Zagol					
REQUEST:		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/>			
The PG&E manhole at Station 2+55 is actually further south than is shown on the drawings. As a result of this the new water main on Natoma Street was installed in a different alignment than shown on the drawings. In order to excavate and shore for the new Manhole #602, without damaging the new water main M Squared will have to install the manhole at a different alignment than what is shown on the plans. M Squared will maintain the correct internal manhole dimensions per DPW standard drawings.				Eric Zagol   8/9/2011 Construct sewer MH #602 to avoid existing water main as shown in the sketch provided. Maintain internal manhole dimensions, wall thickness, and steel reinforcement per DPW Standard Plans #87,182.			
Please confirm this is acceptable.							
U-0163	Utilities Demolition Plan	Closed	08/04/2011	08/14/2011	08/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Jonathan Flaming	To: Turner Construction Compan		Gary Krutsch		
		Answered By:AECOM Technical Service Eric Zagol					



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 118 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

The submittal TG04.4 - UG1020-024100B01 Utilities Demolition Plan was returned to M Squared marked "Revise & Resubmit".  
The review note was: Please provide demo and sequencing plan per specification 02 41 00 Part 1.3A.

M Squared is unable to acquire the necessary utility abandonment schedules from the utility companies concerned.  
Please provide us with a schedule showing when each of the utilities is to be abandoned by the relevant agencies.  
Once this has been provided M Squared will be able to provide the sequencing plan per the specifications.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

The intent of the submittal comment was to reference specification section 024100 1.3A requiring the contractor to submit a utilities demolition and construction sequencing plan showing commencement, order, sequence and completion dates for approval prior to commencing with the demolition of existing utilities. The schedule submitted didn't include sequencing of the new work.

<b>U-0164</b>	<b>Beale Investigative Trench Limits</b>	<b>Closed</b>	<b>08/09/2011</b>	<b>08/19/2011</b>	<b>08/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Jonathan Flaming	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> Webcor Construction LP	Jonathan Flaming		

#### Co-Author:

#### REQUEST:

Sheet U-1008 shows the limits of the investigative trench on Beale Street (south of Mission St) to be 56' in total. 41.1' from center going west and 14.9' from center going east.  
By going 14.9' from center with the eastern portion of the investigative trench M Squared will not encompass the existing water line and the existing AWSS line as they are outside the limits of the 14.9'.

Please direct M Squared how to proceed.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Eric Zagol 8/9/2011 Excavate investigative trench in accordance with contract documents as shown on U-1008. Demolish, cap and plug existing 12-inch water and 10-inch HPW (AWSS) as shown on Sheet U-1125.

<b>U-0165</b>	<b>Sewer Lateral to 92 Natoma</b>	<b>Closed</b>	<b>08/09/2011</b>	<b>08/19/2011</b>	<b>08/10/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Jonathan Flaming	<b>To:</b> Turner Construction Compan	Gary Krutsch	<b>Answered By:</b> AECOM Technical Service	Eric Zagol		

#### Co-Author:

#### REQUEST:

While installing the new sewer on Natoma Street from 2nd to the shoring wall M Squared noticed that the sewer lateral to 92 Natoma is a new VCP lateral and has been installed in the last 12 months.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Eric Zagol 8/10/2011 It is acceptable to protect existing lateral and provide a permanent connection to the new 24-inch VCP main in lieu of replacing the lateral as shown on Plans.



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>			
	<p>The contract drawings show M Squared replacing all sewer laterals on Natoma from 2nd to the shoring wall, however this lateral appears like it does not require replacing.</p> <p>Jason Chin (BCM) has been made aware of this issue.</p> <p>Please confirm it is acceptable to leave this lateral in place and perform permanent connection to the new 24" VCP main.</p>									
			Notes							
			Please provide credit for contract work not completed.							
U-0166	Broken Culvert Pipe Encountered in Utility Demolition Trench on Fremont St.	Closed	08/19/2011	08/29/2011	08/24/2011	Potentially	<input type="checkbox"/>			
	From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan   Gary Krutsch		Answered By:AECOM Technical Service Eric Zagol							
	Co-Author:									
	REQUEST:	SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>					
	During trenching for demolition of the electrical ductbank along the east side of Fremont St Trinet crossed a 10" culvert pipe (@ Stn 5+05) from the existing catch basin on the east side of the street at Stn 5+05. The section of clay pipe exposed is cracked in several places and half the bell of an exposed joint is missing. Please advise if the owner will need the broken pipe section replaced before the trench is backfilled.		Replace damaged pipe section per direction of SFPUC inspector prior to trench backfill.							
U-0167	Culvert Run to MH#306	Closed	08/22/2011	09/01/2011	08/24/2011	Potentially	<input type="checkbox"/>			
	From: Webcor Construction LP      Jacob Giannandrea      To: Turner Construction Compan   Gary Krutsch		Answered By:AECOM Technical Service Eric Zagol							
	Co-Author: M Squared Construction, Inc.      Aidan Foley									
	REQUEST:	SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>					
	See attached sketch.		Connect new 10" SD culvert from CB#306 to SMH#306.							
	Please confirm that it is acceptable to tie the 10" culvert run into the new MH#306 instead of running the culvert to the existing MH.		It is no longer necessary to connect existing 3'x5' brick sewer to SMH#306 as shown on U-5001 Detail 6. Abandon in place existing 3'x5' sewer and existing sewer MH at STA ~2+40 in accordance with CCSF DPW Standards.							
	If this change is acceptable please advise if it is necessary to connect the existing 3'X5' sewer to MH 306 or if the existing sewer should be abandoned.									



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 120 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0168	TJPA Composite Utility Drawings	Closed	08/31/2011	09/10/2011	10/05/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Jacob Giannandrea <b>To:</b> Turner Construction Compan      Gary Krutsch			<b>Answered By:</b> Webcor Construction LP      Colin Azevedo				
<b>Co-Author:</b>							
<b>REQUEST:</b>			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		
Sheet MA - 12, Note 4 refers to TJPA Composite Utility Drawings for that area. M Squared currently has composite utility drawings for trade packages TG04.3, TG04.4, TG04.6, and TG04.1. M Squared does not have composite utility drawings for the TG04.2 project.					Eric Zagol 9/15/2011 TJPA does not have existing utility composite drawings for this area. SFDPW BOE has information and records provided by utilities in response to a notice of intent that can be provided to the TJPA for use as reference.		
Please provide these drawings.					Jeff Thiel 10/3/2011 SFDPW BOE has provided the documents referenced in Eric Zagol's original response to this RFI.		
					These documents have been uploaded to Constructware and can be found in the following File Director path: Sitework & Utilities\5 Program Coord\30 Utilities\Notice of Intent\...		
					If the files are too large to open in Constructware they can also be found on the FTP site by following this link:		
					ftp://ftp.tjpa.org/Document%20Control/11011824/		
					Log In Instructions		
					1. Enter case-sensitive Username (public) and Password (PublicFTP1)		
					2. Select View\Open FTP Site in Windows Explorer		
					3. Drag file(s) to your desktop		
					Note: Please do not open files while logged in the FTP		

U-0169	CB#703 Location	Closed	09/01/2011	09/01/2011	09/07/2011	Potentially	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP      Colin Azevedo <b>To:</b> Turner Construction Compan      Steve Cunningham			<b>Answered By:</b> AECOM Technical Service Eric Zagol				
<b>Co-Author:</b>							
<b>REQUEST:</b>			<b>SUGGESTION:</b>		<b>ANSWER:</b> <b>Accept Suggestion:</b> <input type="checkbox"/>		





Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 121 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

See attached photo showing conflict with location of new CB#703 and unknown underground concrete structures. They appear to be the same structures discovered in the investigative trenches on Beale Street.

Please confirm that it is acceptable to put the new CB in the same location as the existing CB which has been removed.

It is acceptable to construct CB#703 in the same location as existing.

Please coordinate the depth of the sewer culvert with proposed PG&E Phase II work as shown on U-2037. Submit proposed culvert profile with elevations of the existing PG&E electrical ducts as pot holed that are to be capped in Phase I (U-1125) and connected to in Phase II (U-2037).

U-0169.1	CB#703 Location	Open	11/15/2011	11/25/2011	11/23/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Company Steve Cunningham	Answered By: AECOM Technical Service Eric Zagol				

Co-Author:

REQUEST:

- CB#703 was constructed in the location of the existing catch basin.  
- See attached profile with culvert elevations. Culvert was installed deeper as several utilities were lower than shown on the drawings.  
- Per M Squared's response to comments made in the RFI #U-0181, one of the duct banks shown on the drawings could not be located and was not as shown on the drawings. The alignment of the other duct bank is also different than what is shown on the drawings. (See attached) The depth of this duct bank at the point where M Squared capped it (3' south of the unknown concrete structure) was 6' 8" to the top. Its location/alignment beyond that point are unknown.

SUGGESTION:

ANSWER: Accept Suggestion: ☐

Please provide the invert elevation of constructed 10" culvert at CB#703. Based on the sketch provided in the RFI169.1, the 10" culvert was reversed slope. A culvert with reversed slope is not acceptable.

U-0170	Duct bank Demo on Natoma	Closed	09/15/2011	09/25/2011		Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Company Steve Cunningham	Answered By:				

Co-Author:

REQUEST:

M Squared has determined in the field that the duct bank highlighted which is to be demolished, is in fact

SUGGESTION:

Eric Zagol 9/18/2011 U-1110 indicates removal of existing PG&E duct to facilitate construction of the 8-

ANSWER: Accept Suggestion: ☐



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 122 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>underneath the curb and gutter. In order to demolish it per the plans M Squared will have to remove the curb and gutter and possibly a portion of sidewalk. See attached.</p> <p>Please confirm whether you would like the duct bank removed and repour the curb and gutter after demo, or leave the duct bank in place and repair the portion of curb and gutter damaged while locating the duct bank.</p>	<p>inch Water and Sewer MH #301 . If existing duct as highlighted is not in conflict with new utilities then the existing duct may be abandoned in place.</p> <p>Cap existing duct at RUP/BSE demarcation line per ASI 15.</p> <p>Provide photos showing location of duct, duct, and curb and gutter damaged at the area indicated for repair for review.</p> <p>Jeff Thiel 9/19/2011 Pending approval by the TJPA, a CR will be issued.</p>					
U-0170.1	Duct Bank Demo on Natoma	Closed	09/21/2011	10/01/2011	10/05/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:AECOM Technical ServiceEric Zagol			
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
In response to RFI #U-0170, see attached photos. Approx 20' of curb and gutter to be repaired. Sidewalk remained undamaged and does not require repair. Please advise if M Squared is to repair this portion of curb and gutter.				Eric Zagol 9/27/2011 Per response to RFI 170, please provide data (i.e. photos, survey and etc.) that supports the statement that the existing duct bank was found beneath the existing curb and gutter.			
				Contract plans show the existing duct south of the curb and gutter. The curb and gutter should have been protected in place during excavation. If curb and gutter to be protected in place was damage during the course of work please restore to match existing per 01 15 40 and contract documents.			
U-0170.2	Duct bank Demo on Natoma	Closed	11/18/2011	11/28/2011	12/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:Turner Construction CompJeff Thiel			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 123 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

M Squard has reviewed their photo logs and were unable to locate any photos showing the duckbank running under the curb and gutter. M Squared will proceed with providing a credit per CR U-027.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

\*\*\*12/1/11 UPDATED RESPONSE\*\*\*

Corresponding CR for this work is CR U-050. Proceed with providing credit per CR U-050.

\*\*\*11/22/11 ORIGINAL RESPONSE\*\*\*

RFI does not pose a question and will be considered closed. M Squared shall proceed with providing a credit per CR U-027.

U-0171	AWSS Ductile Iron Pipe	Closed	09/15/2011	09/25/2011	09/19/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Company	Steve Cunningham	Answered By:	Turner Construction Company Jeff Thiel

#### Co-Author:

#### REQUEST:

Please confirm that it is acceptable to use non-gauged ductile iron pipe for the AWSS system.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Jeff Thiel 9/19/2011 Michael Smith's (SFDPW) response, "Use at contractor's discretion. Contractor will be responsible for pipe being inserted into pipe bell ends, AWSS fittings, etc. and passing hydrostatic tests," dated and signed on 9/19/11 (see attached).

U-0172	City Furnished Gate Valves	Closed	09/20/2011	09/30/2011	10/05/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Company	Steve Cunningham	Answered By:	Turner Construction Company Jeff Thiel

#### Co-Author:

#### REQUEST:

Specifications direct the contractor to provide a clear distance between the pipe flanges that consists of the gate valves laying length plus 1/2" not including the thickness of the gaskets to be installed.  
In order to do this M Squared will need the dimensions of all City furnished gate valves.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Jeff Thiel 10/4/2011 Michael Smith's (SFDPW) response,

"Please refer to attached manufacturer's drawings for laying lengths of gate valves. These laying length dimensions were confirmed on 10/04/2011."



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 124 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Please provide cut sheets for all valves provided by SFWD for this project.

dated and signed on 10/04/11 (see attached).

<b>U-0173</b>	<b>Valve control panel pick-up</b>	<b>Closed</b>	<b>09/24/2011</b>	<b>10/04/2011</b>	<b>10/05/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Colin Azevedo	<b>To:</b> Turner Construction Compan	Steve Cunningham	<b>Answered By:</b> Turner Construction Comp; Jeff Thiel			

**Co-Author:**

**REQUEST:**

M Squared's supplier, Control Systems West, have been coordinating with SFWD regarding which of the City's panels will be used for the TG04.2 project. Tom Reid with SFWD has designated 3 panels to be used for this project. These panels are to be picked up at SFWD, transported to Control Systems West for testing, programming etc and then returned to the job for use at 3 of the valve locations. As the panels have been selected M Squared would like to begin the process of getting the panels to their supplier so they can begin the work.

Please provide the name and contact information for the person with whom M Squared can coordinate the pick up of the 3 units.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Jeff Thiel 9/26/2011 Contact Bill Gunn at (415) 706 0688 or WGunn@sfgwater.org

Per Section 01 10 40, Coordination, Article 1.6 C, this RFI does not fall under the acceptable uses for an RFI as it is not being used for an interpretation of the Contract Documents.

RFIs used for questions regarding coordination will be rejected in the future.

<b>U-0174</b>	<b>AWSS Antenna location at Location 1</b>	<b>Closed</b>	<b>09/27/2011</b>	<b>10/07/2011</b>	<b>10/11/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Colin Azevedo	<b>To:</b> Turner Construction Compan	Steve Cunningham	<b>Answered By:</b> Turner Construction Comp; Jeff Thiel			

**Co-Author:**

**REQUEST:**

On drawing MA-20 regarding location 1 the antenna is shown to be mounted on a street light. However, on drawing MA-29 the same antenna is shown to be mounted on the enclosure. Early conversations between Dick Borders (Control Systems West) and Kenny Chin (DPW) confirm that mounting the antenna on the enclosure is the preferred option.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Jeff Thiel 10/11/2011 Michael Smith's (SFDPW) response:

"The antenna shall be mounted on the controller cabinet for location No. 1. Disregard any reference to the mounting of the antenna on the (E) light post as shown on drawing MA-20. Mounting of antenna on to the controller cabinet shall be performed by the



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 125 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Please confirm the antenna mounting location.					controller cabinet manufacturer."	
						Dated and signed on 10/11/11 (see attached).	
<hr/>							
U-0175	Sludge line layout	Closed	09/27/2011	10/07/2011	11/08/2011	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered By:AECOM Technical Service Eric Zagol				
	Co-Author:						
	REQUEST: The 12" sludge line cannot be installed along Mission Street as shown on the revised drawings due to the elevation and location of existing utilities and other unknown subsurface obstacles. Please see attached pothole information. Please advise how you would like to proceed.	SUGGESTION:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>		
			Eric Zagol 11/7/2011 Modifications to the 12" Sludge FM are currently being evaluated under ASI-018. Revised plans and specifications forthcoming following redesign and execution of ASI-018.				
<hr/>							
U-0176	AWSS Conflict @ Location 7	Closed	09/28/2011	09/28/2011		Potentially	<input type="checkbox"/>
	From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan Steve Cunningham	Answered By:				
	Co-Author:						
	REQUEST: Due to the location of existing utilities it will not be possible to install the AWSS valve vault at the location shown on sheet MA 18 of the AWSS drawings. See attached pothole drawings from 09/26/11 and 09/27/11. Please advise how you would like to proceed.	SUGGESTION: Follow up response recieved 10-19-2011: ****10/19/11 UPDATE****  Michael Smith's (SFDPW) response,  "Meeting with M Squared, SFWD, and SFDPW on 10/18/11. Contractor to have area from intersection of First/Howard Streets to 100 feet West on Howard Street marked for utilities (USA). We will then meet at site to determine clear area over AWSS main to pot hole for valve vault."  Dated 10/19/11 (see attached)  initial response received 10-17-2011:	ANSWER:	Accept Suggestion:	<input type="checkbox"/>		



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 126 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>SFDPW to meet in the field with contractor and SFWD inspector to determine method to proceed. Will provide response with direction at this time.</div> <div>NOTE: RB issued email 10-18-2011 requesting meeting.</div>							
U-0176.1	AWSS Conflicts at Location #7	Closed	11/18/2011	11/28/2011	11/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:Webcor Construction LP Daniel Foudy			
Co-Author:							
REQUEST: Per the response to RFI #U-0176 a field meeting was attended by Michael Smith and M Squared. M Squared received direction to perform additional potholes further west of First St on Howard St. Please see attached pothole findings. Please advise how you would like to proceed.		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/> Michael Smith's (SFDPW) response, "Please refer to commnets on attached sheet. SFDPW Response: This conflict between the existing AWSS line and utilities at the original design location are unforeseen field conditions due to incorrect information being furnished to the City. Thus the motorized gate valve vault is being relocated west of the original location. The contractor shall pothole 10-feet west of Pothole No. 1B and 10-feet east of Pothole No. 1A to verify that there is adequate clearance for installing a horizontal offset and motorized gate valve vault the approximate location of Pothole No. 1A. Please notify the engineer of the potholing schedule in order that we can request the majorutilities toattempt to identify the 4-inch steel pipe running parallel on Howard Street." Signed and Dated 11/18/11 (see attached)			
U-0176.2	AWSS Conflicts @ Location 7	Closed	01/18/2012	01/28/2012	02/16/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:Turner Construction Comp Jeff Thiel			
Co-Author:							



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 127 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**REQUEST:**

Per response to RFI#U-0176.1 M Squared performed additional potholing at Location 7.

Please see the attached pothole findings.

Please advise how you would like to proceed.

Note: The 4" Unknown Utility was confirmed to be an abandoned PG&E gas main. On 1/10/12 PG&E drilled the line and confirmed it to be abandoned.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Jeff Thiel 2/15/2012 Michael Smith's (SFDPW) Response.

"Furnish and install horizontal offset as shown on the attached drawing in order to locate the proposed concrete valve vault with minimum 6-inches clearance to the existing electrical duct bank running on the North side of Howard Street. Adjust nipple lengths as required between elbows and to connect into the ends of the existing cast iron pipes. Concrete valve vault and placement of motorized gate valve shall otherwise be shown on drawings MA-22 and MA-25.

Work for installation of new concrete valve vault and gate as show on Drawing MA-18 shall be deleted from the scope pending installation of the new valve vault as shown on the attached drawing."

Signed and dated 2/13/12.

Christina Young 2/15/2012 Pending TJPA approval, a CR will be issued.

<b>U-0177</b>	<b>Ductbank Demo on Fremont St</b>	<b>Closed</b>	<b>10/04/2011</b>	<b>10/14/2011</b>	<b>10/10/2011</b>	<b>Potentially</b> <input type="checkbox"/>
<b>From:</b> Webcor Construction LP Colin Azevedo		<b>To:</b> Turner Construction Compan Steve Cunningham	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

See attached sketch.  
The duct bank shown on Fremont Street to be demolished is in fact underneath the curb and gutter and portion of the sidewalk on Fremont St.  
In order for M Squared to remove this duct bank it will require us to close the west sidewalk on Fremont St, demo and remove the sidewalk, remove the ductbank and then replace the sidewalk.  
Currently the east sidewalk is closed also due to BBI activity.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 10/6/2011 Coordinate with PG&E to confirm the duct indicated in the M2 sketch is PG&E's 6-6" duct from PG&E's EMH 7605.

Demolish and remove the 6-6" duct segment between STA ~2+40 (at the gutter) and the demarcation line south of shoring wall. The intent is to remove the segment within Natoma Street. The segment south of STA 2+40 (STA 2+40 to STA 1+85) can be abandoned in place.



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 128 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	Please advise how you would like to proceed.					Provide cap at STA 2+40 instead of STA 1+85 shown in the plans.  PG&E will break in and connect to the existing 6-6" duct at STA 1+85 as part of PG&E's Phase II relocations.	
U-0178	Sludge line layout on Mission between Beale and Main	Closed	10/04/2011	10/04/2011	11/08/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Steve Cunningham			Answered By: AECOM Technical Services Eric Zagol				
Co-Author:							
REQUEST: Continued potholing on Mission Street between Beale and Main has revealed additional grade conflicts on the proposed alignment for the new 12" steel sludge line. Some of the utilities are not as shown on the drawings nor marked in the field by USAN. See attached sketches.  Please advise if M Squared is to continue potholing on Mission Street as it may be necessary to excavate the entire length of the trench between Beale and Main to locate and map all conflicts.		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/> Eric Zagol 11/7/2011 Modifications to the 12" Sludge FM are currently being evaluated under ASI-018. Revised plans and specifications forthcoming following redesign and execution of ASI-018.				
U-0179	AWSS Main line conflicts at Location 7	Open	10/05/2011	10/15/2011	11/21/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo To: Turner Construction Company Steve Cunningham			Answered By: Turner Construction Company Jeff Thiel				
Co-Author:							
REQUEST: Some of the existing utilities are not shown on the drawings and have been installed on top of the existing 12" AWSS line. Due to the proximity and volume of these utilities it is not possible to even hand excavate down to the existing AWSS line to verify its location and depth. Please see attached pothole information. Please advise.		SUGGESTION:	ANSWER: Accept Suggestion: <input type="checkbox"/> UPDATED RESPONSE (11/18/11) Michael Smith's (SFDPW) response, Refer to comments on attached sheet. These comments supercede response provided on 10/17/11. SFDPW Response: This conflict between the existing AWSS line and				
			the following response received 10-17-2011 does provide direction in this matter: It shall be the contractor's responsibility per the Contract Documents to perform the required potholing in order to identify the existing AWSS facilities prior to actual excavation. Background utility information was provided by				





# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 129 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
			TJPA/consultatns and shall be verified in the field by contacting Underground Service Alert (USA). Direct conflicts oted during potholing shall be directed to the utility owner(s) for relocation/removal as required to perform the contract work. NOTE: email from Rick Buellesbach 10-18-2011 requests an answer to the question.			utilities are unforeseen field conditions due to incorrect information being furnished to the City. There are no design alternates at this location due to the necessity of removing the existing cross that was capped on the First Street side outlet to accommodate the utility relocation work for the proposed transit center. The engineer will contact the owners of the utilities in conflict with the AWSS facility for resolution." Dated 11/18/11 (see attached)	
U-0180	Conflict with CB 305	Closed	10/10/2011	10/20/2011	10/17/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:Webcor Construction LP Richard Buellesbach			
Co-Author:		SUGGESTION:		ANSWER: Accept Suggestion: <input type="checkbox"/>			
REQUEST: While excavating to install CB305 M Squared encountered a large unknown concrete structure. The concrete structure is in conflict with CB305. CB305 cannot be installed as planned. See attached photo.  Tsu-Ling with AECOM and Alberto with SFDPW reviewed the situation in the field and agreed the solution was to salvage the existing CB where CB 305 was to be installed. This work was performed on 10/7/2011 under the inspection of SFDPW.  Please confirm.				As determined during a site visit on 10/7/11 with M Squared, AECOM, SFDPW and W/O; the existing unforeseen condition, a large concrete structure, is in conflict with CB 305 and the installation of a new catch basin would require an extensive amount of unforeseen demotion.  In lieu of installing a new catch basin barrel to replace existing, modify the existing catch basin as follows:  1. Clean interior walls and bottom. 2. Apply 1/2" think uniform layer of mortar on interior walls and bottom. 3. Install cast iron trap. 4. Install pipe culvert and connect to MH#305 as shown in Plans.  New culvert size and invert shall match existing culvert at catch basin. Use ductile iron pipe if depth of cover is less than 3 feet.			
U-0181	Unknown subsurface structure on Beale	Closed	10/13/2011	10/23/2011	10/24/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP Colin Azevedo		To: Turner Construction Compan Steve Cunningham		Answered By:AECOM Technical Service Eric Zagol			



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 130 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

**Co-Author:**

**REQUEST:**

During M Squared's demo work on the West side of Beale Street at Sta 4+70 they uncovered an unknown subsurface structure. This structure appears to be an abandoned vault that has been filled with concrete. Please see attached photo.  
M Squared ceased work on the removal of the six 6" electric duct banks 6' south of this structure. If they are to continue with the removal of this abandoned duct bank per sheet U-1125 of the contract drawings they will be forced to remove the subsurface structure.  
Please advise.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Eric Zagol 10/24/2011 Please provide a plan showing the location and extent of unknown structure identified. Also indicate what portions of the existing PG&E electrical duct has been demolished to date.

<b>U-0181.1</b>	<b>Unknown subsurface structure at 301 Mission</b>	<b>Closed</b>	<b>11/18/2011</b>	<b>11/28/2011</b>	<b>11/23/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP	Colin Azevedo	<b>To:</b> Turner Construction Compan	Steve Cunningham	<b>Answered By:</b> AECOM Technical Service Eric Zagol			

**Co-Author:**

**REQUEST:**

See attached information as requested in response to RFI #U-0181.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Subsurface structure to remain. Cap locations as shown are acceptable. Please mark on as-built drawing as required by the contract documents.

<b>U-0182</b>	<b>AWSS Conflict with AT&amp;T Vault at Location 2</b>	<b>Open</b>	<b>10/24/2011</b>	<b>11/03/2011</b>	<b>11/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor/Obayashi Joint Venture	Jason Dunne	<b>To:</b> Turner Construction Compan	Steve Cunningham	<b>Answered By:</b> Webcor Construction LP Daniel Foudy			

**Co-Author:**

**REQUEST:**

On the north east side of the Mission Street and 2nd intersection the existing AWSS line is running through the floor of the AT&T vault. The removal of the existing 12" pipe and installation of the new 16" AWSS pipe will require the floor vault to be demolished and re-poured.

Please provide a detail for this work or a new alignment for the AWSS line so as to avoid this vault.

**SUGGESTION:**

**ANSWER:**

**Accept Suggestion:** ☐

Michael Smith's (SFDPW) response,

"SFDPW Response:

This conflict between the existing AWSS line and utility vault are unforeseen field conditions due to incorrect information being furnished to the City.

The contractor shall pothole the alternate pipe alignment as shown on the attached sketch due to the existing conflict with the AT&T vault over/within the



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 131 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<hr/>							



**U-0183.2**

### AWSS Valve Vault Location 1

**Closed**

**12/02/2011**

**12/12/2011**

**12/15/2011**

## Potentially

**From:** Webcor Construction LP

Colin Azevedo

**To:** Turner Construction Compan Steve Cunningham

**Answered By:** Turner Construction Comp Jeff Thiel

**Co-Author:**



Webcor/Obayashi Joint Venture  
*PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG*  
30100 - Transbay Transit Center Project

Page: 133 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 134 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
other utilities. Provide minimum 6" clearance to water line and 4" to ductbank." Signed and dated 02/06/12 (see attached)							
U-0184	AWSS Connection Point at Location 2.	Closed	10/24/2011	11/03/2011	11/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Steve Cunningham	Answered By:Turner Construction Comp Jeff Thiel				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
The existing AWSS line at the connection point on 2nd Street north of Mission is a 10" pipe not a 12" as shown on drawing MA-13. Please advise.				Jeff Thiel 10/27/2011 Michael Smith's (SFDPW) response, "The line on Second Street North of Mission Street is a 10" CI line. Please update drawings. Drawing MA-21 in the contract package indicates the line as a 10" line." Signed and Dated 10/26/11 (see attached)			
U-0184.1	AWSS Connection Point at Location #2	Open	12/02/2011	12/12/2011	12/14/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Steve Cunningham	Answered By:Turner Construction Comp Jeff Thiel				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			
Please see the attached letter regarding the response to RFI#U-0184.  Please provide direction.				Per Michael Smith's response to RFI U-0188 SFDPW is preparing revised AWSS drawings to include stationing information provided by AECOM. These revised drawings will address the issue raised in RFI U-0184 and provide clear direction. The drawings will be issued in the near future packaged with other revisions.			
U-0185	Existing Lateral to CB701	Closed	10/28/2011	11/07/2011	11/01/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan   Steve Cunningham	Answered By:Webcor Construction LP   Colin Azevedo				
Co-Author:							
REQUEST:		SUGGESTION:		ANSWER:			



<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Sheet U-3024 shows and existing storm drain lateral connecting the back side of the existing catch basin which was replaced by CB #701. The details for CB #701, C/U-3033, do not show this existing lateral to be connected to CB #701. CB #701 has been installed per plan and the existing lateral was abandoned in place. It has been discovered that the abandon lateral in servicing an active catch basin in Lot N. See attached sketch.

Please advise.

Accept Suggestion: ☐

Eric Zagol 10/31/2011 Lateral connections to CCSF catch basin barrels from property outside of the public right of way are prohibited. Owner/occupant of Parcel shall manage runoff in parcel and discharge to main sewer in accordance with CCSF regulations.

Coordinate with TJPA's field representative and occupant of Parcel.

U-0186	AWSS Conflict with Elec. Duct Banks & Vault @ Location 2	Open	11/01/2011	11/01/2011	11/18/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Compan	Steve Cunningham	Answered By:	Webcor Construction LP Daniel Foudy

Co-Author:

**REQUEST:**

Due to the proximity of the electrical vault and the electrical concrete duct banks it is not possible to remove the existing 18" AWSS line and reconnect to the existing tee as shown on drawings MA-3 and MA-13. Please see attached pothole drawing. The restraining lugs on the east side of the tee are cast into the base of the electrical vault. The concrete duct bank on top of the AWSS line at the connection point combined with the electrical vault will not allow enough room for the plumber to burn out the old lead joint and cast the new one.  
Please advise.

**SUGGESTION:**

ANSWER: Accept Suggestion: ☐

Michael Smith's (SFDPW) response,  
"SFDPW Response:  
This conflict between the existing AWSS line and utility vault/duct bank are unforeseen field conditions due to incorrect information being furnished to the City.  
There are no design alternates at this location due to the necessity of removing the existing 18"x10" reducer at this location in order to install the 16" fittings to maintain the proposed 16" pipe size upgrade on Mission Street. The engineer will contact the owner of the utility in conflict with the AWSS facility for resolution."  
Signed and Dated 11/18/11 (see attached)

U-0187	Conflicts with Controller Cabinet Foundation & Battery Enclosure at Location 1	Closed	11/18/2011	11/28/2011	11/21/2011	Potentially	<input type="checkbox"/>
From:	Webcor Construction LP	Colin Azevedo	To:	Turner Construction Compan	Steve Cunningham	Answered By:	Webcor Construction LP Daniel Foudy

Co-Author:

**REQUEST:**

Please confirm that M Squared it to install the control cabinet enclosure foundation (3'W x 3'L x 2'D) on top of the existing 10" and 8" steel lines shown on the attached

**SUGGESTION:**

ANSWER: Accept Suggestion: ☐

Michael Smith's (SFDPW) response,  
"Refer to SFDPW response provided on 11/16/11 to RFI U-0183.(1)."



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 136 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	sketch of pothole #6. Please confirm that M Squared is to install the fiberglass battery enclosure on top of the utilities shown on the attached sketch of pothole #7. It will be necessary to hand dig around the existing utilities to install drain rock beneath the enclosure per the specifications.				Signed and Dated 11/18/11 (see attached) RFI U-0183.1 Response included below- "SFDPW Response: Motorized gate valve vault: Per the preliminary excavation at Pothole No. 2 and the provided information, verify 2 1/2-inch steel for ownership and request owner should there not be adequate space to install vault due to the existing electrical duct bank shown in Pothole No. 3 drawing. Notify engineer to provide revised drawing(s) for AWSS fittings should vault need to be moved west. Notify engineer should vault interior dimensions need to be reduced after providing a minimum of 3-inches clearance with other utilities and the vault constructed with 12-inch thick walls. Controller cabinet: Per the preliminary excavation at Pothole No. 7 and the provided information, install the controller cabinet concrete foundation at this site. Notify MCI that either their conduit can remain with the controller foundation installed over the conduit with 4-inches clearance or that they can relocate their conduit as required. Modify bottom of controller foundation to accommodate a clearance of 4-inches should the conduit not be relocated. Battery vault: Per the preliminary excavation at Pothole No.6 and the provided information, field verify the installation of the battery vault by locating the northern edge of the vault 2-feet towards the curb."		
U-0187.1	Conflicts with Controller Cabinet Foundation and Battery Enclosure at Location # Closed		12/02/2011	12/12/2011	12/15/2011	Potentially	<input type="checkbox"/>
From: Webcor Construction LP      Colin Azevedo      To: Turner Construction Compan    Steve Cunningham			Answered By:Turner Construction Comp Jeff Thiel				
Co-Author:							
REQUEST:		SUGGESTION:	ANSWER:      Accept Suggestion: <input type="checkbox"/>				
Please see the attached letter regarding the response to RFI#U-0187.			Michael Smith's (SFDPW) response,				
Please provide direction.			"Please see attached for revised response - U-187.1.				
			SFDPW Response:				
			Controller Cabinet: Per the preliminary excavation at				





Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 137 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

Pothole No. 7 and the provided information, install the controller cabinet and the concrete foundation at this site instead of the battery vault assembly that was shown here originally in the Contract Documents.

Notify MCI that either their conduit can remain with the controller foundation installed over the conduit or MCI has the option to relocate their conduits away from the concrete foundation footprint. Should MCI not want to relocate, reduce thickness of concrete foundation over MCI conduit to provide a minimum of 4-inches clearance between the conduit outside diameter and the bottom of the foundation.

Battery Vault: Per the preliminary excavation at Pothole No. 6 and the provided information, install the battery vault at this site instead of the controller cabinet that was shown here originally in the Contract Documents.

Field verify (pothole) 2-feet from face of existing curb to determine if the Northern edge of the battery vault can be installed approximately 2-feet from curb instead of 5-feet from curb in order to provide clearance with 8-inch steel line. Notify engineer of pothole results prior to installation."

Signed and Dated 12/14/11 (see attached)

Turner will notify MCI.

U-0187.2	Conflicts with Controller Cabinet and Battery @ Location 1	Closed	01/23/2012	02/02/2012	03/21/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP	Colin Azevedo	To: Turner Construction Company Steve Cunningham	Answered By: Turner Construction Company Steve Cunningham				

Co-Author:

REQUEST:

In response to RFI # U-0187.1 (Revised Response to RFI# U-0187 ON 12/14/11)  
- See attached pothole data from additional potholing at this location.

SUGGESTION:

ANSWER:

Accept Suggestion: ☐

Jeff Thiel 3/16/2012 Michael Smith's (SFDPW) response,

"Please see attached wording for letter to owner of



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 138 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
	<p>- During initial discussions with MCI/Verizon M Squared informed them of the intent to install units on their utility. They requested a letter from the owner highlighting the intent. Please confirm if it is acceptable to install a unit on their utility. Please provide direction on the locations of the battery vault and controller cabinet taking into consideration all current utilities in place.</p>						
				utility.			
				Locate North most edge of battery vault cover 24" from face of curb or back from face of curb to remain in "brick" area."			
				Signed and Dated 2/14/12 (Letter Wording) and 3/15/12 (Battery Placement)			
				The attached letter addressed to MCI/Verizon was sent to Pam Brown on 3/14/12.			
<b>U-0188</b>	<b>Control Stations on AWSS Drawings</b>	<b>Open</b>	<b>11/18/2011</b>	<b>11/28/2011</b>	<b>11/21/2011</b>	<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Colin Azevedo		<b>To:</b> Turner Construction Compan Steve Cunningham	<b>Answered By:</b> Turner Construction Comp Kevin Chiu				
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>	<b>ANSWER:</b>				
At present M Squared has set up control points along Mission Street. These stations were based on a continuation of survey points used on Mission Street for the TG04.6-Sludge Line Project. The City designed AWSS Drawings do not have these stations on them. Please provide an updated set of AWSS Drawings with the project stations marked on them so it will allow M Squared to accurately document field conditions and as built the necessary information.			<b>Accept Suggestion:</b> <input type="checkbox"/> Michael Smith's (SFDPW) response, "SFDPW is currently preparing revised AWSS DWGS with stationing information as provided by AECOM. We anticipate the final set of stamped/signed DWGS prior to the end of November 2011." Signed and Dated 11/18/11 (see attached)				
<b>U-0189</b>	<b>First &amp; Howard Utility Conflicts, Location 7 Complete Pothole Data</b>	<b>Open</b>	<b>12/02/2011</b>	<b>12/12/2011</b>		<b>Potentially</b>	<input type="checkbox"/>
<b>From:</b> Webcor Construction LP Colin Azevedo		<b>To:</b> Turner Construction Compan Steve Cunningham	<b>Answered By:</b>				
<b>Co-Author:</b>							
<b>REQUEST:</b>		<b>SUGGESTION:</b>	<b>ANSWER:</b>				
While potholes #2 & #3 have been addressed in a previous RFI (RFI#U-0176), other potholes carried out in Location 7 exposed various utilities that are not shown on the contract documents. Other utilities were not in the locations indicated on the contract documents.			<b>Accept Suggestion:</b> <input type="checkbox"/>				



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 139 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

See attached pothole data from potholes #1 through #11 at location 7.

Please clarify if the utilities will be removed, protected in place or relocated.

U-0190	Fire Hydrant Location on Mission @ First	Closed	01/10/2012	01/20/2012	01/19/2012	Potentially	<input type="checkbox"/>
--------	--	--------	------------	------------	------------	-------------	--------------------------

From: Webcor Construction LP Colin Azevedo

To: Turner Construction Company Steve Cunningham

Answered By: Turner Construction Company Jeff Thiel

Co-Author:

REQUEST:

While potholing for the new Hydrant and associated piping in the sidewalk on Mission Street (see attached), M Squared's crews damaged the roof of the basement to Portico Restaurant, 88 First Street (see attached photos). This basement structure was not noted on the plans and is a differing site condition.

The roof of the basement will now need to be repaired. Please provide direction and repair details for this work.

It is not possible to locate the fire hydrant in this area due to the presence of the basement. The existing hydrant has a column poured into the structure of the basement (see attached).

Please advise on how you would like to proceed.

SUGGESTION:

ANSWER: Accept Suggestion: ☐

Michael Smith's (SFDPW) response,

-Repair of sidewalk at pothole location: Refer to attached directions from William Liang- SFPDW/EST for repair method.

-New Hydrant lateral shall be located in the (E) hydrant alignment. (E) Hydrant is located in an areaway. Refer to AWSS standard drawings for details. SFPDW will provide revised drawing for (N) lateral prior to construction.

Signed and Dated 01/18/12

Response for Concrete Repair per William Liang (SFPDW) .

Chip out concrete inside of saw-cut area; do not damage (E) rebars.  
If (E) rebars are found to have been cut during the saw-cutting process, chip out enough concrete around the cut rebars for installation of Lenton Quick-Wedge Splicing system at both ends; splice new rebars with size to match (E). If (E) rebars are found to be intact, proceed to Step 3.  
Install keyway around perimeter of opening (keyway shall be a minimum 1.5 (below top of slab), install swellable water stop (Greenstreak Hydrotite CJ -0725)



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 140 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
<div>in keyway. Form and pour with Emaco S66 CI by BASF. Perform surface preparation and provide curing in accordance with manufacturers recommendations. Note: continuous special inspection shall be provided for the concrete pour."</div>							
U-0190.1	Fire Hydrant Location on Mission @ First	Closed	01/25/2012	02/04/2012	01/26/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP		Colin Azevedo	To: Turner Construction Compan		Steve Cunningham	Answered By: Turner Construction Comp; Jeff Thiel	
Co-Author:							
REQUEST: On 1/24/2012 M Squared began repairing the basement roof per the response to RFI U-0190. SFDPW engineer William Liang came out and review the progress that day and provided alternate direction in the field. Please provide this direction in writing so work may resume.		SUGGESTION:		ANSWER:      Accept Suggestion: <input type="checkbox"/> No alternate direction was given at 1/24/12 site visit by SFDPW engineer. SFDPW provided information and direction to supplement the direction given in response to RFI U-0190 based on his observations in the field. Existing rebar was found to be uncut but lacking sufficient concrete cover. Please see supplementary instruction below.  Per William Liang of SFDPW,  1. Chip out concrete inside of saw-cut area; do not damage (E) rebars,  2. (E) main rebars are found to be intact but have insufficient bottom concrete cover; (E) wire-mesh above the main rebars are found to have been cut during the sawcut process. Install 3-#4 dowels @ 12"o.c. max set in epoxy along three sides w/ 6" embedment into (E) concrete (see attached photo), maintain 6" max from corners, epoxy shall be SIMPSON SET-XP or HILTI HIT-RE500-SD.  3. Install swellable waterstop (Greenstreak Hydrotite CJ-0725) above installed dowels, provide min 1.5" concrete cover.  4. Form and pour w/ Emaco S66 CI by BASF (see			

in keyway.  
Form and pour with Emaco S66 CI by BASF. Perform surface preparation and provide curing in accordance with manufacturers recommendations. Note: continuous special inspection shall be provided for the concrete pour."



Webcor/Obayashi Joint Venture  
PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG  
30100 - Transbay Transit Center Project

Page: 141 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
				attached cut sheets). Perform surface preparation and provide curing in accordance w/ manufacturer's recommendations. Note continuous special inspection shall be provided for the dowel installation and concrete pour.			
				ORIGINAL RFI U-0190 RESPONSE FOR REFERENCE			
				1. Chip out concrete inside of saw-cut area; do not damage (E) rebars. 2. If (E) rebars are found to have been cut during the saw-cutting process, chip out enough concrete around the cut rebars for installation of Lenton Quick-Wedge Splicing system at both ends; splice new rebars with size to match (E). If (E) rebars are found to be intact, proceed to Step 3. 3. Install keyway around perimeter of opening (keyway shall be a minimum 1.5" below top of slab), install swellable water stop (Greenstreak Hydrotite CJ -0725) in keyway. 4. Form and pour with Emaco S66 CI by BASF. Perform surface preparation and provide curing in accordance with manufacturers recommendations. Note: continuous special inspection shall be provided for the concrete pour."			
U-0191	Power Source at Location #1, #2 & #7	Closed	01/16/2012	01/26/2012	02/27/2012	Potentially	<input type="checkbox"/>
	From: Webcor Construction LP Colin Azevedo	To: Turner Construction Compan	Steve Cunningham	Answered By: Webcor Construction LP	Jeff Heath		
	Co-Author:						
	REQUEST: In order for the controller enclosures for the motorized gate valves at Location #1, #2 and #7 to be operational a power source will need to be provided at each enclosure location.	SUGGESTION:		ANSWER: Revised Responce 2/27/2012	Accept Suggestion: <input type="checkbox"/>		
				Jeff Thiel 2/23/2012 The TJPA has completed its application to SFPUC for power to AWSS facilities. The SFPUC has requested a minimum of four (4)			



Webcor/Obayashi Joint Venture

PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

30100 - Transbay Transit Center Project

Number	Subject	Status	Date Created	Date Required	Date Answered	Cost Impact	Proceed
	<p>Please confirm that the owner has applied to PG&amp;E for the power sources at these locations and advise on the status of these connections.</p>						<p>weeks to make these connections. Sub contractor to coordinate meeting with SFPUC and PG&amp;E prior to start of work.</p> <p>Below is the MOP for coordinating power source connection as confirmed by Mathew Ho of the SFPUC.</p> <p>1. Contractor to schedule coordination meeting with PG&amp;E, PUC (Mathew Ho or Michael Mack) and Turner. Contractor to provide a construction schedule and set up Pre-con with PG&amp;E (Per SFPUC request to inform them when Contractor expects to trench for electrical service and have the power pedestals installed)</p> <p>2. Contractor to schedule PG&amp;E trench inspection which is needed after contractor installs conduit but before closing the trench so that PG&amp;E can prove the conduit via mandrel test (30days notice needed, Call PG&amp;E inspection # 415-695-7519 and provide PM# located on drawing and provide PG&amp;E job owner contact as Matt Herron)</p> <p>3. PG&amp;E to pull cables</p> <p>4. Schedule a DBI inspection of the meter pedestal (Dave Green DBI 415-558-6654, forward PG&amp;E a copy of the DBI green tag)</p> <p>5. Once green tag is applied, PG&amp;E to set up meter and then energize.</p> <p>=====</p> <p>=====</p> <p>Original Response 1/26/2012</p> <p>The TJPA has completed its application to SFPUC for power to AWSS facilities.</p> <p>The SFPUC has requested a minimum of four (4) weeks to make these connections. Sub contractor to coordinate meeting with SFPUC and PG&amp;E prior to start of work.</p>



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 143 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	---------------------	----------------------	----------------------	--------------------	----------------

#### Co-Author:

#### REQUEST:

Recent meeting on the AWSS project resulted in the response to RFI#U-0191 being revised to include a procedure to be followed once the controller cabinets were ready to accept power. However, what was sent in the revised response was a new scope of work followed by the mentioned procedure.

The contract drawings show M Squared's work beginning at pull boxes and going to the controllers. M Squared's interpretation of the drawings sent in the revised response to RFI#U-0191 is the scope of work that goes from the pull boxes to PG&E manholes. This is unclear because the PG&E drawings are not comparable with the contract drawings.

Please clarify the intent and scope of the PG&E drawings.  
Please clarify how the PG&E drawings correlate with the contract drawings.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

U-0192

AWSS Strong Backs

Closed

01/18/2012

01/28/2012

02/08/2012

Potentially



From: Webcor Construction LP

Colin Azevedo

To: Turner Construction Compan Steve Cunningham

Answered By: Turner Construction Comp Jeff Thiel

#### Co-Author:

#### REQUEST:

Current project drawings show that this project requires two (2) 14" Strong Backs and two (2) 10" Strong Backs to be used at different locations.

Olympic Foundry does not produce strong backs and were unable to include them in the order to M Squared. M Squared has contacted several sources trying to locate the strong backs but have yet to find a supplier. Please advise if it is possible to purchase these from the City stock.

If this is not possible M Squared will have no other option but to have them manufactured at a steel mill and this may take a considerably long time due to the lead time in the specialized steel.

#### SUGGESTION:

#### ANSWER:

Accept Suggestion: ☐

Jeff Thiel 2/3/2012 Response per Michael Smith (SFDPW),

- "We have been advised that the SFWD does not have the requested strong backs in their inventory.

- Typically strong backs were torch cut at local machine shops that handle larger fittings. Suggest contacting other contractors who have performed AWSS work for sources."

Signed and dated 02/01/12



# Webcor/Obayashi Joint Venture

## PROJECT MANAGEMENT - REQUEST AND ANSWERS LOG

### 30100 - Transbay Transit Center Project

Page: 144 of 145  
Date: 03/22/2012  
Time: 05:13 PM  
Job: 30100

<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
U-0193	2nd to 1st St - Various Conflicts	Open	03/08/2012	03/18/2012	03/21/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan    Steve Cunningham		Answered By:Turner Construction Comp; Steve Cunningham			
Co-Author:							
REQUEST: See attached sheet which details the conditions discovered in the potholing operations between 2nd Street and 1st Street. Please use Submittal TG04.2-024.1 for reference. Please provide direction on how to proceed at each location.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Jeff Thiel    3/20/2012 Michael Smith's (SFDPW) response,  "Please see response on attached sheets for conflicts at particular station numbers as listed in this RFI."  Signed and Dated (3/20/12)			
<hr/>							
U-0194	AWSS Strong Back Dimensions	Closed	03/13/2012	03/23/2012	03/21/2012	Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan    Steve Cunningham		Answered By:Turner Construction Comp; Steve Cunningham			
Co-Author:							
REQUEST: On the detail for the strong backs on the San Francisco Standard AWSS Plans M Squared has discovered an error in the dimensions for the 14" strong back. Dimension C (outside diameter) is smaller than dimension B (inside diameter). See attached.  M Squared believes the OD should be 27.37". Please confirm.		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/> Jeff Thiel    3/14/2012 Michael Smith's (SFDPW) response,  "M Squared is correct. Thank you for pointing this out. We will update our drawing."  Signed and dated 3/14/12. (See Attached)			
<hr/>							
U-0195	Parking Sensors on Mission	Open	03/13/2012	03/23/2012		Potentially	<input type="checkbox"/>
From: Webcor Construction LP                      Colin Azevedo		To: Turner Construction Compan    Steve Cunningham		Answered By:			
Co-Author:							
REQUEST: M Squared has discovered that either SF Park or MUNI have installed what appear to be sensors in the street surface along Mission Street. See photo attached.  They existing between Fremont and Beale in particular.  As the AWSS line is installed along Mission St from 2nd to		SUGGESTION:		ANSWER:            Accept Suggestion: <input type="checkbox"/>			





<u>Number</u>	<u>Subject</u>	<u>Status</u>	<u>Date Created</u>	<u>Date Required</u>	<u>Date Answered</u>	<u>Cost Impact</u>	<u>Proceed</u>
---------------	----------------	---------------	-------------------------	--------------------------	--------------------------	------------------------	----------------

Main these sensors will be in conflict. Please confirm these sensors will be removed prior to trenching.

## *END OF REPORT*

### Report Parameters

Project:	30100	Status Class:	
Sent To:		Run Date:	03/22/2012
Restrict Value of:	C	Run Time:	05:13 PM
From Date:		Operator:	NT
To Date:		Report Code:	PM3012
Status:			



**Transbay Transit Center – San Francisco, CA**

**Noise and Vibration Mitigation Management Plan**

Webcor/Obayashi  
January 16, 2012

## **GENERAL:**

The Webcor/Obayashi (W/O) Noise and Vibration Mitigation Management policy that will be implemented on the Transbay Transportation Center Project will be an overall project policy, with each Trade Subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with Specification Section 00 08 13, 00 08 13/APB, the San Francisco Noise Control Ordinance, regulations and requirements and section 01 35 65, Specific Project mitigation measures and monitoring requirements as applicable to the various phases of work.

When required by the specifications, W/O will ensure its Trade Subcontractors comply with this plan as well as the San Francisco Noise Control Ordinance.

W/O will ensure its Trade Subcontractors apply for written waivers, when required by the specifications or contract, of some of the noise requirements to expedite the project or minimize impacts by application to the TJPA in accordance with Section 00 08 13 Specific Project Requirements. Written waivers shall be uploaded to ConstructWare by CM/GC. Trade Subcontractors shall minimize construction activities during evening, nighttime, weekend, and holiday periods and shall obtain specific permits before performing construction in noise sensitive areas during these periods. The Trade Subcontractor may rely on performing the following Work activities outside the noise requirements:

1. Buttress drilling operation
2. Mass excavation
3. Welding of internal bracing
4. Welding of superstructure

Night noise permits shall be submitted to the TJPA at least 72 hours in advance of work. Noise permit shall include:

1. Name of person in charge of work and phone number
2. Hours to be worked
3. Narrative of scope of work including maps and truck routes
4. List of noise/vibration/light making equipment including make and model
5. Mitigation and monitoring methods being used

W/O will ensure its Trade Subcontractors will provide noise inspections and testing of equipment to ensure that all equipment onsite is in good condition and effectively muffled per manufacturer's recommendation. If inspection or testing documents are requested by the TJPA, or any of its representatives, W/O will require its Trade Subcontractors to provide requested documentation in a timely manner. Trade Subcontractors shall provide inspection and testing documents prior to start of work and as the equipment is replaced to CM/GC. CM/GC shall upload documents to a file location within ConstructWare.

W/O will ensure its Trade Subcontractors will minimize use of vehicle backup alarms and demonstrate how backup alarms will be minimized by using mitigation measures such as: design the construction site with a circular flow pattern that minimizes backing up of trucks and other heavy equipment. Trade Subcontractors shall submit quarterly reports of measures to reduce back up alarms. W/O shall upload these reports to a specific location with ConstructWare.

W/O will ensure all its Trade Subcontractors' equipment onsite is equipped with ambient sensitive alarms that will automatically adjust based on the ambient noise during nighttime hours when ambient

noise is low. Trade Subcontractors shall comply with the TJPA's request for ambient sensitive alarms for all work after 8PM. If requested by the TJPA or its representative, Trade Subcontractors shall provide W/O with equipment specifications showing ambient sensitive alarms for submission via ConstructWare.

Through W/O's requirement submittals outlined in this noise and vibration plan, W/O will verify Trade Subcontractors' construction operations are performed in such a manner to minimize noise.

W/O will verify Trade Subcontractors perform noise monitoring to demonstrate compliance with noise limits and endeavor to minimize construction activities during off hours except for those required and deemed acceptable per the Contract Documents. Trade subcontractors shall submit monthly monitoring reports to W/O for submission via ConstructWare.

W/O will verify Trade Subcontractors haul routes to ensure they minimize noise intrusion into residential areas, and control noise during nighttime hours.

W/O will require all Trade Subcontractors to use procedures and equipment, when it would be effective, that produce lower noise levels than normal when required by the specifications or contract. W/O will require the subcontractor submit manufacturer special noise control kit information. If none is available, then the trade subcontractor needs to submit a statement of this. Upon revival and review of the information, W/O and the subcontractor will identify the events when the noise control measures should be used based on the specifications.

W/O will require all Trade Subcontractors plans to include use of temporary barriers near noisy activities as required by the specifications or contract. Locate such barriers close enough to the noise source to obtain noise attenuation and as necessary and when it is shown it would be effective, construct shed-like structures or complete buildings to contain the noise from nighttime activities.

W/O shall require haul route map, plan and storage location be part of Trade Subcontractors plan and included within its submittal.

#### VIBRATION CONTROL

Vibration limits are based upon the Federal Transit Administration's Planning and Environment Transit Noise and Vibration Impact Assessment guidelines. W/O will require all Trade Subcontractors' to limit or prohibit use of construction techniques that create high vibration levels when it affects adjacent properties.

If construction techniques that create high vibration levels are used, W/O will require all Trade Subcontractors' to comply with the following additional restrictions:

1. Provide advance notice to TJPA of any vibration intensive activities. Perform vibration monitoring during vibration intensive activities during daytime hours between 7 a.m. and 8 p.m. unless otherwise allowed by special permit or variance, as required by the specifications or contract. Recorded data should be part of the Trade Subcontractor Daily report. A summary shall be submitted monthly and uploaded to ConstructWare.
2. Trade Subcontractors to investigate alternative construction methods and practices to reduce the impacts if resident and implement alternative methods and practices as reasonable.
3. Trade Subcontractors shall provide a plan to measure vibration levels including but not limited to measurement locations, times and metrics. Plan shall also include contingency plan if

operations exceed the limits. This plan shall be uploaded into ConstructWare by W/O.

4. Limit or prohibit use of construction techniques that create high vibration levels.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. Trade Subcontractors plan shall but submitted via ConstructWare for Record Only.





**Transbay Transit Center – San Francisco, CA**

**Air Quality Plan**

Webcor/Obayashi

January 16, 2012

## **GENERAL PLAN:**

The Webcor/Obayashi (W/O) Air Quality Plan that will be implemented on the Transbay Transit Center Project will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project. The primary function of this plan is to comply with the Bay Area Air Quality Management District regulations and requirements.

W/O will require its Trade Subcontractors to establish a plan that complies with all requirements set for in specification sections 00 08 13, and 01 35 65 prior to starting Work onsite. W/O shall check and verify trade subcontractor's compliance with air quality requirements on a daily basis. Any non-compliant trade subcontractors will receive both verbal and written notice through Safe Site One (W/O internal program). Additional, W/O will require trade subcontractors to demonstrate they are actively monitoring air quality by providing checklists or documentation on each Trade Subcontractors daily report. W/O shall verify its Trade Subcontractors Air Quality plan includes the following but not necessary limited to:

1. Specific measures to minimize impacts to sensitive receptors associated with exposure to respirable nuisance dust (PM10) and achieve a goal of No Visible Emissions.
2. W/O shall verify Trade Subcontractors comply with City Dust Control Order (DPW Order No. 171,378. Water active construction areas at least twice daily to control dust using non-potable water in accordance with San Francisco Ordinance 175-91
3. Identify specific measures to minimize dust generation; to reduce health risks to workers and the public.
4. Mist the immediate excavation area with a water spray to prevent airborne dust particles. Perform continuous water spraying during dust-generating activities. Mist or spray in such a way as to prevent puddling or generation of runoff, which could potentially reach storm drains or catch basins.
5. Minimize the amount of excavated material or demolished debris stored at the Site. Remove excavated material and demolished debris, with the exception of hazardous materials or suspected hazardous materials, from the Site no later than the end of each workday. If hazardous materials or suspected hazardous materials are stored on site, store such materials in accordance with all applicable California Environmental Protection Agency regulations, including providing storage in proper containers and protection from exposure to the elements. Remove such materials from the Site as soon as possible for disposal or recycling in accordance with applicable laws and regulations.
6. Wet all exposed soil surfaces at least 3 times daily during dry weather or more frequently if dust is blowing or if required by the TJPA. Immediately wet sweep serpentine residuals from the street.
7. Keep the Site and adjacent areas clean and perform wet sweeping at the end of each shift. Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets.
8. Load haul trucks carrying excavated material so that the material does not extend above the walls or back of the truck bed. Wet before covering and tightly cover the surface of each load before the haul truck leaves the loading area. Cover trucks hauling soil, sand, and other loose materials or require trucks to maintain at least 2 feet of freeboard
9. Clean up spillage on City streets, whether directly or indirectly caused by Contractor's operations.

10. Minimize use of on-site diesel construction equipment, particularly unnecessary idling. Shut off construction equipment to reduce idling when not in direct use. Where feasible, replace diesel equipment with electrically powered machinery.
11. Retain receipts of ultra-low sulphur fuel (ULSF) purchase and equipment tuning and repair and make these available to the TJPA Representative or to the Federal Transit Administration (FTA) designee upon request.
12. Locate diesel engines, motors, or equipment as far away as possible from existing residential areas.
13. Properly tune and maintain diesel power equipment. To manufacturer's specification and frequency.
14. Suspend grading operations during first and second stage smog alerts, and during high winds (i.e., winds greater than 25 miles per hour).
15. Upon completion of the construction phase, buildings with visible signs of dirt and debris from the construction site shall be power-washed and/or painted (provided that permission is obtained from the property owner to access and wash the property with no fee charged by the (owner). Trade Contractor shall request CMGC to contact Singer and Associates to notify property owners for access. If permission from property owners for access is not granted, Trade Contractor is not responsible for power-washing or painting.
16. Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas, and staging areas at construction sites.
17. If applicable, replant vegetation in disturbed areas as quickly as possible.

W/O will verify Trade Subcontractors comply with the requirements of the Bay Area Air Quality Management District (BAAQMD) Regulation 6 (for particulate matter and visible emissions), Regulation 7 "Odorous Substances," Regulation 11 "Hazardous Pollutants," and the California Health and Safety Code Division 26 "Air Resource", Chapter 3 "Emission Limitations," Section 41700 "Prohibited Conduct," and related regulations. Trade Subcontractors shall notify the BAAQMD 10 working days prior to commencing demolition or hazardous materials abatement work.

1. Such notification shall include the names and addresses of operations and persons responsible; description and location of the structure to be demolished or altered including size, age and prior use, and the approximate amount of friable asbestos; scheduled starting and completion dates of demolition or abatement; nature of planned work and methods to be employed; procedures to be employed to meet BAAQMD requirements; and the name and location of the disposal site.
2. The BAAQMD randomly inspects removal operations and will respond to any complaints received. Contractor shall cooperate with and facilitate all BAAQMD authorized inspections.\
3. Notifications shall be documented and provided to CM/GC for submission to the TJPA via ConstructWare.

Trade Subcontractors shall be responsible for providing technical information, as required by the specifications, in their plan. All trade subcontractors plans shall be submitted for Record Only via ConstructWare.





**Transbay Transit Center – San Francisco, CA**

**Waste Management and Construction Debris Plan Revision 5**

Webcor/Obayashi  
February 23, 2012



Reviewed by Webcor/Obayashi

951 Mariners Island Blvd  
San Mateo, CA 94404

Review is for general coordination and conformance with design intent only and for submittal in accordance with the contract documents. Review by Webcor Builders does not relieve the subcontractor and/or supplier of responsibility for full coordination, accurate dimensions, correct quantities and full compliance with the contract documents. In the event subcontractor and/or supplier intends to propose any substitution or deviation to the contract documents, each substitution or deviation must be submitted and approved prior to submitting it in a shop drawing or other submittal. Review by Webcor does not imply acceptance of any substitution or deviation.

Submittal Pkg. Number: **WO-CDD0001**

Submittal Number: **WO0000-000815W01**

Webcor Job No.: 30100 Transbay Transit Center

Reviewed By: jfilipas

Date: 02/23/2012

Subcontractor: W/O

01111 V1.2

## **GENERAL PLAN:**

Webcor/Obayashi understands that the building contractor plays a critical role in the management of jobsite produced construction waste. Webcor /Obayashi has adopted a waste reduction and recycling policy that will be implemented on the Transbay Transportation Center Project. This policy will be an overall policy with each subcontractor contributing their specific plan as they come on board to the project.

The primary goal of the plan is to divert as much construction generated debris & unused material from landfills as possible. At a minimum, Webcor/Obayashi and its trade subcontractors will divert 75% of the waste generated on the construction project from landfills. Trade subcontractors Construction Waste Management Plan shall be prepared and submitted in compliance with the Owner's LEED project requirements and the requirements of the city of San Francisco.

The Trade Subcontractors are required to comply with Specification Sections 00 08 15, 01 74 00, and 01 81 13 as well as any or all of the procedures listed below. If a conflict in percentages exists between this section and Section 01 81 13, General LEED Building Design and Construction Requirements, the most stringent section shall govern.

- The use of debris haulers with documented recycling levels.
- 2) Supplying material specific debris boxes on site for such items as lumber and wood related products, dirt, concrete and asphalt, cardboard & metals.
- Having trade specific trade subcontractors haul their own waste to local recyclers.
- Requesting trade subcontractors and vendors to utilize reusable packaging when possible.
- Trade subcontractors plan shall outline the expected wastes to be generated on site, means of recycling and disposal, handling methods, hauling, and required documentation for achieving LEED for New Construction credits MR 2.1 and MR 2.2, Construction Waste Management at 75% landfill diversion or greater.

All Trade Subcontractors shall develop their own Waste Management and Construction Debris Plan that complies with the Contract Documents and this plan. Trade Subcontractors shall submit this plan in accordance with the specifications and it shall become part of Webcor/Obayashi's overall project plan. All technical requirements defined in the contract documents shall be fulfilled by Trade Subcontractors and submitted to the CMO For Record only through ConstructWare

Webcor/Obayashi as the WEBCOR/OBAYASHI JOINT VENTURE will ensure the Trade Subcontractors are effectively implementing the procedures and are in compliance with Specifications by verifying;

WEBCOR/OBAYASHI JOINT VENTURE will verify that after Award of Contract and before commencement of the Work at the site, the Trade Subcontractor conducts a Reuse/Recycle Assessment as part of their Solid Waste Management Plan (SWMP): Trade Subcontractor's assessment shall estimate the types and quantities of materials for the Project that are anticipated to be feasible for source separation for recycling or reuse, either onsite or offsite, and note the procedures intended for a recycling, reuse, and salvage program. Documentation of the trade subcontractor's plan shall consist of the following:

- Trade subcontractor and vendor waste management strategies.
- Trade subcontractor required to provide a monthly summary of the total waste material with backup documentation (weight tickets).
- The amount recycled (in tons), material types, recycling procedures, and processing facility locations to which materials were diverted.

Trade subcontractor Construction Waste Management Plan shall also include estimated wastes, disposal, and handling with the following:

a. List of materials that comprise source separated materials include, but are not limited to:

- Concrete, Wood, Mud, Mixed Aggregates, Yard waste, Metals, and Cardboard.
- Yard waste is not included in our overall diversion rate calculation on the template or corresponding spreadsheet per the requirements from the LEED BD&C v3.0 Reference Guide.

b. List of materials that comprise Miscellaneous Construction Debris include, but are not limited to:

- Wood, Scrap Metal, Drywall, Plastics, Film Plastics, Wire, Cable, Glass.
- The total quantity estimated, inception to completion Disposal.
- Total Project Generation, Diversion + Disposal.
- Project Diversion Rate.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Construction and Demolition Waste: Non-hazardous solid resources resulting from Trade Subcontractor's construction, remodeling, repair, and demolition operations for the Project are properly transferred to a C&D Recycling Facility: A facility that receives only C&D (construction and demolition) material. Trade Subcontractors shall provide Webcor/Obayashi a summary sheet, including all receipts for transport materials each month with the progress billing.

WEBCOR/OBAYASHI JOINT VENTURE will verify that of the inevitable waste generated, Trade Subcontractor's reuse, salvage, or recycle as many of the waste materials as economically feasible.

WEBCOR/OBAYASHI JOINT VENTURE will participate/attend a meeting with Trade Subcontractor, the TJPA Representative and representatives of the City's Solid Waste Management and recycling programs prior to commencement of work. Webcor/Obayashi will

ensure all trade subcontractors are made aware of the LEED requirements for C&D diversion before being allowed to work on the site.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors submit a Monthly Disposal and Recycling Summary Report: quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill. Contractor shall also send a copy of this report to the TJPA Representative and the SWMP to the City Government Recycling Coordinator. The Comprehensive Disposal and Recycling Summary Report shall be submitted quantifying the construction and demolition waste generated and recycled, reused or disposed of at Class 3 Landfill, on a monthly basis. This report is a condition of progress payment and failure to submit this information shall render the Applications for Payment incomplete. Subcontractors/trades are responsible for contracting with a regional facility to haul materials from the site. The trade subcontractor shall calculate the C&D diversion rate for both LEED requirements (excluding yard waste) and the requirements set by The City (including yard waste). The W/O LEED representative will screen every C&D Submittal and review trade contractor and subcontractors C&D Plans for clarity, completeness, and compliance with City/LEED requirements.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors develop and implement procedures for source separation to the greatest extent feasible.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for transporting commingled (mixed) construction and demolition waste that cannot be feasibly source-separated.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for Salvage and Reuse.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement practices for this project that will reduce waste at the source.

WEBCOR/OBAYASHI JOINT VENTURE will verify the Trade Subcontractors plans develop and implement procedures for materials are recycled and/or reused onsite

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors participate in reuse programs by reviewing each trade subcontractors Monthly Disposal report. For such reuse programs, Trade Subcontractor so shall refer to the City's construction and demolition recycling program.

Contractor shall review the environmental goals of this Project with all Trade Subcontractors during the preconstruction meeting. CMGC shall make a proactive effort to increase awareness of these goals among the Contractor's job site workers. W/O will make a proactive effort to increase awareness of these goals among the site workers by requiring that each Subcontractor take Click Safety training prior to stepping on the jobsite. As part of this Click Safety training,

there is a module dedicated to teaching and reviewing the LEED requirements of the project during construction activity.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors are using registered transporters and registered facilities. Only registered transporters can remove mixed construction and demolition debris from the construction site, and they must take this material to a registered facility. NOTE: Registered facility: Any facility that accepts mixed construction and demolition debris for processing and recycling must be registered with the City and must demonstrate an overall minimum recycling rate of 65% for mixed construction and demolition debris. A registered facility must have applied for and received a registration from the San Francisco Department of the Environment. W/O will ensure that Waste Management Companies that service San Francisco that are retained by the trade subcontractors are registered transporters and meet the City/LEED requirements. Trade Subcontractors shall refer to SFEnvironment.org for the city's most current list of registered transporters.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors are implementing the following:

1. Eliminate the procurement of unneeded supplies.
2. Reduce waste by printing and copying double-sided.
3. Submit all submittals, reports, and forms in electronic format (PDF) unless otherwise noted.
4. Fully participate in available and required recycling and composting programs.
5. Purchase products made with recycled content such as paper and recycled aggregate.

WEBCOR/OBAYASHI JOINT VENTURE will verify that Trade Subcontractors shall submit:

1. Construction and Demolition Debris Management Plan.
2. Construction and Demolition Debris Recovery Monthly Summary Report and supporting documentation.
3. Construction and Demolition Debris Recovery Final Report.

Trade Subcontractors plan shall comply with specification section 02 41 00. All Trade Subcontractors will remove and dispose of all waste materials from the site for off-site disposal in compliance with all applicable laws, ordinances, rules, and regulations. W/O and all subcontractors will work with the TJPA representative so that the representative may characterize the waste materials as required by law to the extent required by the contractor's selected disposal facilities.

Trade Subcontractors plan shall comply with specification section 01 15 00. Trade Subcontractors shall perform work in a manner to minimize generation of dust, dirt, rubbish, and other debris, to prevent dust and debris from interfering with the progress of the work, and to keep dust and debris from accumulating at the work site or adjacent areas. Trade subcontractors shall remove debris and rubbish from the site on a daily basis.

Trade Subcontractors plan shall comply with specification section 01 13 50, by preventing the mixing of hazardous and non-hazardous materials.

Trade subcontractors shall be required to provide technical information, as required by the specifications including compliance with CCSF Ordinance 27-06, in their plan which will be submitted For Record Only to the CMO.



## Exhibit Q

# APPRENTICESHIP PROGRAM





**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**  
**SUBCONTRACTOR #3**

[illegible]

### SUBCONTRACTOR #4

[illegible]

## SUBCONTRACTOR #5

[illegible]

## SUBCONTRACTOR #6

[illegible]

**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**  
**SUBCONTRACTOR #7**

[illegible]

### SUBCONTRACTOR #8

[illegible]

## SUBCONTRACTOR #9

[illegible]

## SUBCONTRACTOR #10

[illegible]

**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**  
**SUBCONTRACTOR #11**

[illegible]

## SUBCONTRACTOR #12

[illegible]

### SUBCONTRACTOR #13

[illegible]

## SUBCONTRACTOR #14

[illegible]

**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**  
**SUBCONTRACTOR #15**

[illegible]

## SUBCONTRACTOR #16

[illegible]

## SUBCONTRACTOR #17

[illegible]

## SUBCONTRACTOR #18

[illegible]

**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**  
**SUBCONTRACTOR #19**

[illegible]

### SUBCONTRACTOR #20

[illegible]



# MONTHLY TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.: \_\_\_\_\_

I, \_\_\_\_\_ declare under penalty of perjury that:

1. I am the \_\_\_\_\_ of \_\_\_\_\_ and I am responsible  
(Owner, Officer, Partner) (Company)  
for the payment of persons employed by \_\_\_\_\_ who performed work on  
(Company)  
the \_\_\_\_\_, in the classification(s) of \_\_\_\_\_  
(Project)  
\_\_\_\_\_.

2. \_\_\_\_\_ The apprenticeship committee(s) either denied or failed to respond to our request for the  
dispatch of apprentices, and therefore all workers were classified as journeymen for the  
following crafts: \_\_\_\_\_  
\_\_\_\_\_

Or

During the previous monthly period \_\_\_\_\_  
(month)

The required number of apprentices by craft listed and initialed below have been employed  
according to the minimum and/or maximum requirements as required by the regulating  
documents for the previous period. (Attach backup demonstrating compliance for period  
referenced above)

CRAFT	IN COMPLIANCE (Y/N)	BACKUP ATTACHED (Y/N)

Or

**WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS**

**Provide a plan to satisfy this requirement by the end of the project without exceeding the maximum number of apprentices on a daily basis.**

**This document must be submitted and approved, with backup if required, prior to submittal and subsequent approval of the next billing period's progress billing.**

**Executed this \_\_\_\_\_ day of \_\_\_\_\_ 201\_\_\_\_, in \_\_\_\_\_, CA.**

\_\_\_\_\_  
**(Signature)**



# FINAL

## TRADE SUBCONTRACTOR AFFIDAVIT

TRADE PACKAGE NO.: \_\_\_\_\_

I, \_\_\_\_\_ declare under penalty of perjury that:

1. I am the \_\_\_\_\_ of \_\_\_\_\_ and I am responsible  
(Owner, Officer, Partner) (Company)  
for the payment of persons employed by \_\_\_\_\_ who performed work on  
(Company)  
the \_\_\_\_\_, in the classification(s) of \_\_\_\_\_  
(Project)  
\_\_\_\_\_.

2. During the payroll periods commencing on \_\_\_\_\_ and ending  
\_\_\_\_\_, all persons employed by my company on this project have been  
paid the specified general prevailing rate of per diem wages for the specified craft or  
classification pursuant to Labor Code §§ 1771 and 1813.<sup>1</sup>

3. \_\_\_\_\_ The apprenticeship committee(s) either denied or failed to respond to our request for the  
dispatch of apprentices, and therefore all workers were classified as journeymen.

Or

The required number of apprentices by craft listed and initialed below have been employed  
according to the minimum and/or maximum requirements as required by the regulating  
documents.

CRAFT	IN COMPLIANCE (Y/N)

Executed this \_\_\_\_\_ day of \_\_\_\_\_ 201\_\_\_\_, in \_\_\_\_\_, CA.



## WEBCOR/OBAYASHI JOINT VENTURE - TRADE SUBCONTRACTOR'S APPRENTICESHIP REQUIREMENTS

**This document must be submitted and approved prior to final retention payment.**

---

**(Signature)**

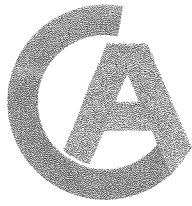
<sup>1</sup> Except for public works projects of one thousand dollars (\$1,000) or less, not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the public work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed as provided in this chapter, shall be paid to all workers employed on public works.

This section is applicable only to work performed under contract, and is not applicable to work carried out by a public agency with its own forces. This section is applicable to contracts let for maintenance work.



# Exhibit R

## Survey Information



# CHAUDHARY & ASSOCIATES, INC.

ENGINEERS  
SURVEYORS  
INSPECTORS

851 NAPA VALLEY CORPORATE WAY ■ SUITE G ■ NAPA, CALIFORNIA 94558-7551  
PHONE: 707.255.2729 ■ FAX: 707.255.5021 ■ WWW.CHAUDHARY.COM

December 27, 2011  
#11-03-014

Mr. Rick Buellesbach  
Senior Project Manager - Transbay Transit Center  
Webcor/Obayashi Joint Venture  
175 Beale Street  
San Francisco, CA 94105

Re: Transbay Transit Center Quality Control Surveys  
Subject: December 2011 Control Verification Survey Results

Dear Mr. Buellesbach:

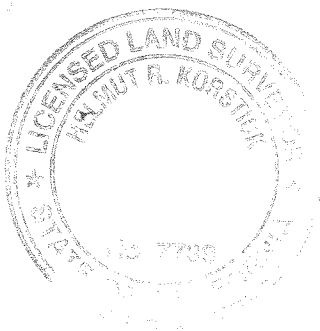
The field work for subject surveys was conducted by Chaudhary & Associates December 5 - 8, 2011. The surveys included verification of Chaudhary & Associates control (as shown on the Survey Control Plan dated 11-10-2011), with the exception of control point 217 which was destroyed sometime between the November 2011 and December 2011 control verification surveys.

Horizontal control values for point numbers 54, 208, 209, 213, 101, 105, 215, and 227 were constrained in this control network horizontal adjustment. The elevation values remain unchanged from the November 2011 surveys. The table below shows both the 11-10-2011 and the 12-21-2011 values for the remaining control points. Because data values can be impacted by environmental factors (temperature and humidity), seismic activity, and the various combinations of back sight and foresight data available on any given day, only the values which differ by 0.01' or more are adjusted and shown on the following table (and updated on the 12/2011 control map to be sent to you tomorrow). Field note copies and Star Net Reports have been mailed to you.

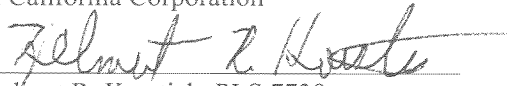
## Horizontal Values

Point #	November 10, 2011		December 2011		Description
	Northing	Easting	Northing	Easting	
79	2115835.42	6013588.51	2115835.43	6013588.49	Fnd Mag+Shnr on TC
205	2115091.66	6013145.43	2115091.66	6013145.42	Mag Nail
221	2115642.30	6013753.17	2115642.32	6013753.18	Fnd Scribed-X KCA #4
223	2115654.49	6014255.95	2115654.48	6014255.95	Fnd Scribed-x KCA 9605
224	2115924.30	6013990.82	2115924.30	6013990.81	Cut-X
225	2115838.99	6014083.47	2115838.98	6014083.47	Fnd Scribed-X KCA 9761
229	2115259.63	6013325.88	2115259.62	6013325.87	Mag+Wshr

Please feel free to call me at (707) 255-2729 any questions or comments.



Sincerely,  
**CHAUDHARY & ASSOCIATES, INC.**  
A California Corporation

  
Helmut R. Korstick, PLS 7739  
Project Surveyor

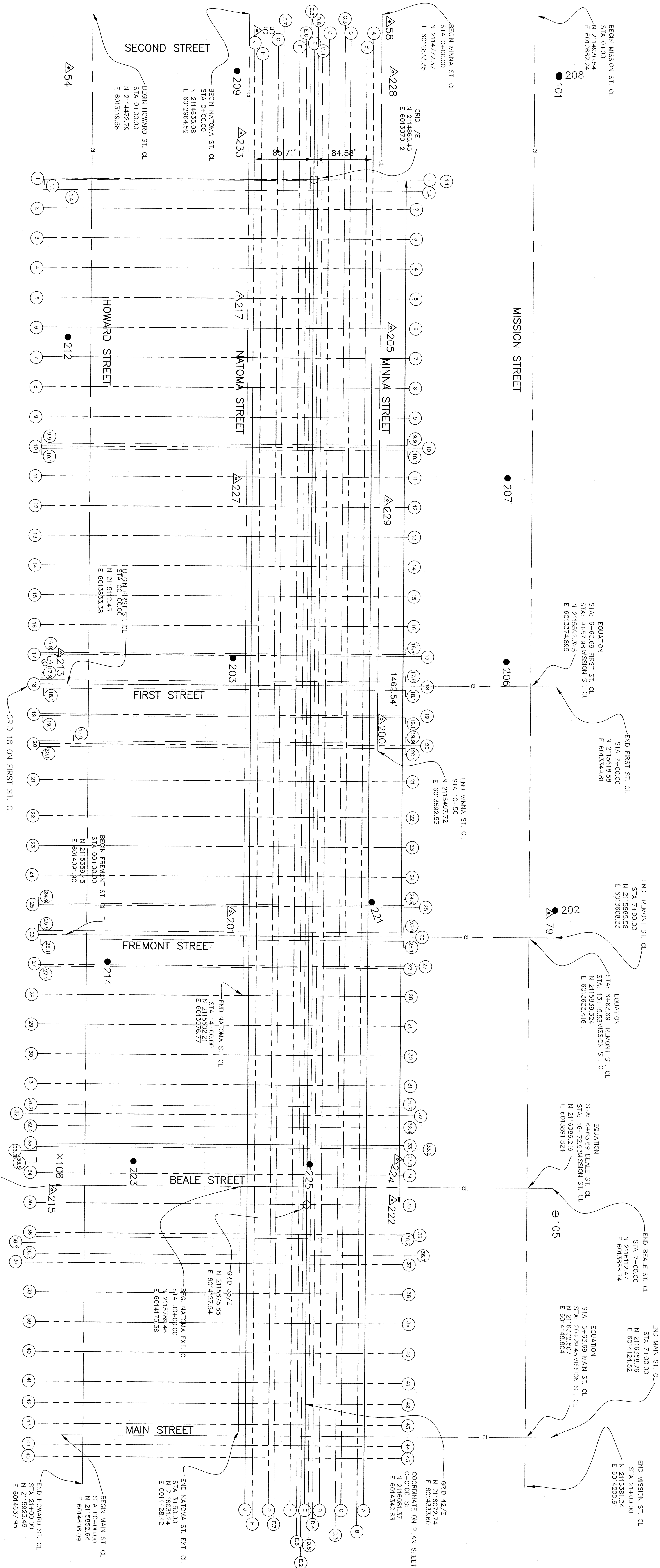




SURVEY PROCEDURES

- 1) CHAUDHARY AND ASSOCIATES FIELD CREW LOCATED AND TIED OUT CONTROL BETWEEN APRIL 22-MAY 13, 2011. DIGITAL LEVELS WERE UTILIZED FOR THE VERTICAL COMPONENT, AND A TRIANGLE SB WAS USED FOR THE HORIZONTAL COMPONENT. CONTROL WAS ADJUSTED UTILIZING STAB-NET SOFTWARE.
- 2) THE 4 MAIN CONTROL POINTS SHOWN ON SHEET C-0100 OF PLANS (BEING PINS 54, 101, 105, AND 106) WERE USED TO ESTABLISH THE GRID. THE GRID WAS ADJUSTED TO BE THE MOST ACCURATE REPRESENTATION OF THE FIELD IN THE STAB NET ADJUSTMENT. A TOPCON DL-102 DIGITAL LEVEL WAS UTILIZED FOR THE VERTICAL COMPONENT.
- NOTE: CONTROL POINTS 220-226 WERE FIELD SURVEYED BETWEEN SEPTEMBER 9-14, 2011.

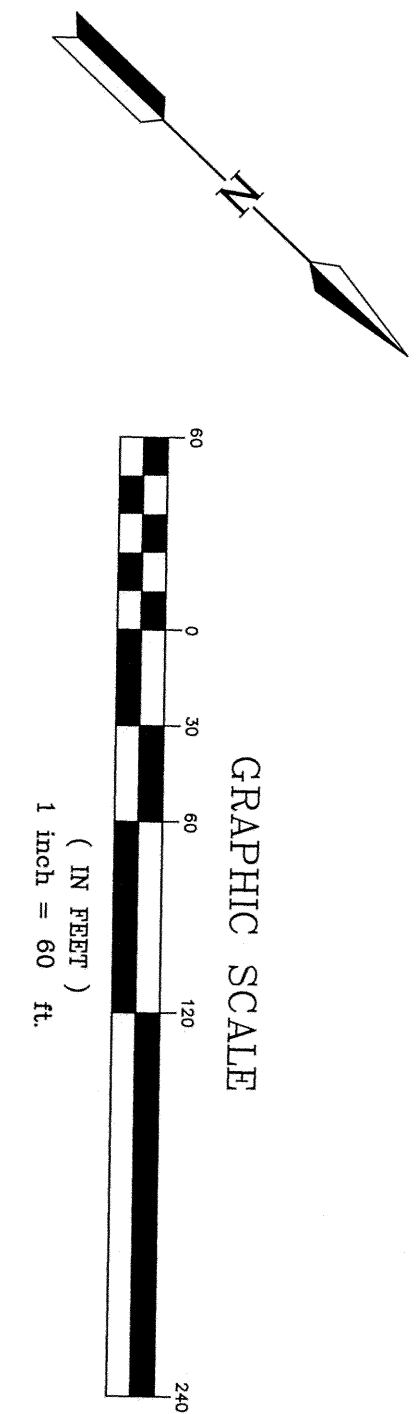
- 3) CENTERLINES AS SHOWN ON PLAN SHEET C-0100 TO BE FIELD VERIFIED.
- 4) GRID LINES TO BE SET BY PLACING A CUT X OR OTHER APPROPRIATE SURVEY MARKER ON THE EXTENSION OF SAID GRID LINES WHERE PRACTICAL, OR PER WEBCOR AUTHORIZATION.



Note: Coordinates are ground coordinates (see note 6)  
1: SCALE FACTOR = 1.000000

PT #	Northings	Eastings	POINT TABLE	SOURCE
54*	214501.77	603199.43	END MAG+WASHER ON TC	CAA FROM PARSONS CALTRAIN PROJECT
55	214658.94	602994.42	END MAG+WASHER ON TC	CAA FROM PARSONS CALTRAIN PROJECT
56	214786.86	602833.18	END MAG+WASHER ON TC	CAA FROM PARSONS CALTRAIN PROJECT
76	215835.43	603588.49	END MAG+SHINE ON TC	CAA FROM PARSONS CALTRAIN PROJECT
101	215816.20	602721.43	END SCRIBED X KCA 301	MARTIN W. RON (SEE SHEET C-0100)
105	215816.20	602721.43	END SCRIBED X KCA 301	MARTIN W. RON (SEE SHEET C-0100)
106**	215816.20	602721.43	END SCRIBED X KCA 301	MARTIN W. RON (SEE SHEET C-0100)
200	215470.67	603566.22	MAG NAIL & WASHER	SET ON 4-21-2011 BY CAA
201	215505.98	603503.24	MAG NAIL	SET ON 4-21-2011 BY CAA
202	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
203	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
204	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
205	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
206	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
207	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
208	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
209	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
210	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
211	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
212	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
213	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
214	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
215	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
216	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
217	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
218	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
219	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
220	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
221	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
222	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
223	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
224	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
225	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
226	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
227	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
228	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
229	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
230	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
231	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
232	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
233	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
234	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
235	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
236	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
237	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
238	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
239	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
240	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
241	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
242	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
243	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
244	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
245	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
246	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
247	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
248	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
249	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
250	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
251	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
252	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
253	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
254	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
255	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
256	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
257	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
258	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
259	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
260	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
261	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
262	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
263	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
264	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
265	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
266	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
267	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
268	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
269	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
270	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
271	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
272	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
273	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
274	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
275	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
276	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
277	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
278	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
279	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
280	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
281	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
282	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
283	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
284	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
285	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
286	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
287	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
288	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
289	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
290	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
291	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
292	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
293	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
294	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
295	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
296	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
297	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
298	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
299	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON
300	215639.15	603579.47	END MAG+BT MAR CTL	MARTIN W. RON

SURVEYOR'S STATEMENT  
I HEREBY STATE THAT THIS MAP CORRECTLY REPRESENTS A FIELD SURVEY MADE BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION. THE CONTROL VALUES LISTED HEREIN WERE OBTAINED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION. I AM A LICENSED SURVEYOR IN THE STATE OF CALIFORNIA. MY LICENSE NUMBER IS 7759. MY EXPIRATION DATE IS 12-31-2011.



NOTES

- SEE ARCHITECTURAL PLANS FOR GRID LAYOUT AND DIMENSIONS.
- NAD 83 REFERS TO THE CALIFORNIA STATE PLANE COORDINATE SYSTEM. HORIZONTAL CONTROL FOR THIS SURVEY IS BASED UPON NAD83, CA ZONE 3, BPOCH 1991.36, GRID 03.
- UNITS ARE FEET AND REPRESENT GROUND (NOT GRID) DISTANCES.
- THE VERTICAL DATUM IS BASED UPON NAD 83.
- CONTROL VALUES BASED UPON FIELD TIES SURVEYED BETWEEN APRIL 22 AND MAY 13, 2011 BY CAA FIELD CREW.
- COORDINATES AS SHOWN REPRESENT GROUND COORDINATES AND WERE CONVERTED BY APPLYING A SCALE FACTOR OF 0.99999411. THE ORIGIN OF THE SCALING FOR THE ENTIRE PROJECT IS CONTROL POINT NO. 39 SEARCHED FOR AND NOT FOUND ON APRIL 23, 2011.
- BASES OF ELEVATION IS DPM SURVEY CONTROL PT. NO. 54, BEING A CAA MAG NAIL AND WASHER IN THE CURB AT THE EASTERLY CORNER OF END AND HOWARD STREETS. ELEV=25.36 NAD 83 VERTICAL DATUM.
- CENTERLINE DATA DERIVED FROM PLAN SHEET C-0100.

Note: If this sheet is not 44" x 34", it has been revised from its original size. Scores noted on drawings/details are no longer applicable.

\* SAME AS CONTROL POINT 54 ON PLAN SHEET C-0100  
\*\* HEAD AS POINT 101 ON PLAN SHEET C-0100 (DESCRIBED AS MAR BR-RIVET ON SHEET C-0100)  
\*\*\* CONTROL POINT SEARCHED FOR AND NOT FOUND ON THE NEAREST 0.01' INSTEAD OF 0.001'  
CONTROL VALUES REVISED FROM PREVIOUS REVISION(1-10-2011) (VALUES NOW TO THE NEAREST 0.01' INSTEAD OF 0.001')

CAA CHAUDHARY AND ASSOCIATES  
CITY AND COUNTY OF SAN FRANCISCO  
MAR MARTIN M. RON  
TOP OF CURB  
SHNR SHINER  
END FOUND  
RCE REGISTERED CIVIL ENGINEER  
REB REBAR  
DPM DEPARTMENT OF PUBLIC WORKS FOR THE CITY AND COUNTY OF SAN FRANCISCO

7) BASIS OF ELEVATION IS DPM SURVEY CONTROL PT. NO. 54, BEING A CAA MAG NAIL AND WASHER IN THE CURB AT THE EASTERLY CORNER OF END AND HOWARD STREETS. ELEV=25.36 NAD 83 VERTICAL DATUM.  
8) CENTERLINE DATA DERIVED FROM PLAN SHEET C-0100.

08-04-CMGC-000

TRANSBAY TRANSIT CENTER PROGRAM

SAN FRANCISCO, CA

SURVEY CONTROL AND CONCEPTUAL GRID AND CENTERLINE PLANS AND NOTES

NO.	DATE	DESCRIPTION
0	5-4-2011	INITIAL CONTROL DRAWING
1	5-13-2011	ADD NOTES AND VALUES REGARDING CONTROL POINT 101
2	5-16-2011	CORRECT GRAMMAR IN SURVEY PROCEDURES STATEMENT 1
3	1-18-1-1-9	DELETE OP-210 AND ADD OP-217
4	9-14-2011	ADD CONTROL POINTS 220-226 AND DELETE 211 & 216
5	9-14-2011	EDIT VALUES FOR CONTROL POINT 200
6	10-5-2011	EDIT VALUES FOR POINTS 88, 200, 203, 212, AND 217.
5	10-5-2011	ADD CONTROL POINTS 227-229.
6	12-23-2011	ADD CONTROL POINT 233 AND REVISE VALUES
7		REVISE VALUES TO READ TO NEAREST 0.01'

BY	HRK
0	HRK
1	HRK
2	HRK
3	HRK
4	HRK
5	HRK
6	HRK
7	HRK



TRANSBAY JOINT POWERS AUTHORITY





# QUALITY COMMISSIONING PROCEDURES AND GUIDELINES

## Exterior Skin and Waterproofing Systems

### EXHIBIT "W"

*The information, processes, techniques, material and other matters contained in the Quality Commissioning Procedures and Guidelines are proprietary, confidential, and unique to WEBCOR/OBAYASHI.*

***The Quality Commissioning Procedures and Guidelines shall only be used for WEBCOR/OBAYASHI only.***

Any other use without the expressed written consent from an Officer of WEBCOR/OBAYASHI is prohibited. Any unauthorized use could give rise to liability under the California Civil Code Sections 3426 et seq. involving Uniform Secrets Act, the California Business and Professions Code Sections 17200 et seq. involving Unfair Competition and 17500 et seq. involving Unfair Practices, the common law of unfair competition and interference with contractual relations and prospective advantage.

## **Table of Contents**

<b>1.0 - Commissioning Purpose .....</b>	<b>1</b>
<b>2.0 - Definition of Commissioning .....</b>	<b>1</b>
<b>3.0 - Description of the Commissioning Process .....</b>	<b>2</b>
<b>4.0 - Commissioning Plan .....</b>	<b>2</b>
<b>5.0 – Objectives .....</b>	<b>3</b>
<b>6.0 - Participating Contractors .....</b>	<b>3</b>
<b>7.0 - Commissioning Team .....</b>	<b>4</b>
<b>8.0 - Meetings .....</b>	<b>4</b>
<b>9.0 - Trade Subcontractor Performance Requirements .....</b>	<b>5</b>
<b>10.0 - Information Management .....</b>	<b>7</b>
<b>11.0 - Trade Subcontractor Submittal Requirements .....</b>	<b>7</b>
<b>12.0 - Commissioning Binder Tab Index .....</b>	<b>8</b>
<b>13.0 - Identifying Defects .....</b>	<b>9</b>
<b>14.0 - Applicable Standards .....</b>	<b>9</b>
<b>15.0 - Schedules .....</b>	<b>10</b>
<b>16.0 - Execution of Checklists .....</b>	<b>10</b>
<b>17.0 - Field Inspections .....</b>	<b>10</b>
<b>18.0 - Field Witnessing and Quality Control.....</b>	<b>11</b>
<b>19.0 - Documentation .....</b>	<b>11</b>
<b>20.0 - Testing and Methods .....</b>	<b>11</b>
<b>21.0 - Engineering Analysis .....</b>	<b>15</b>
<b>22.0 - Deficiencies and Non-Conformance .....</b>	<b>16</b>
<b>23.0 - Remedial Work .....</b>	<b>16</b>
<b>24.0 - Project Commissioning Closeout.....</b>	<b>16</b>

## QUALITY COMMISSIONING PROCEDURES AND GUIDELINES

### Exterior Skin and Waterproofing Systems

- ✓ Roofs
- ✓ Decks
- ✓ Windows
- ✓ Curtain Walls
- ✓ Exterior Wall Systems (Precast, Stucco, EIFS, GFRC)
- ✓ Water Shedding Systems
- ✓ Flashings
- ✓ Expansion Joints
- ✓ Caulking, Sealants
- ✓ Primary and Secondary Water Barrier Systems
- ✓ Above & Below Grade Waterproofing
- ✓ General Waterproofing Systems

#### 1.0 Purpose

The purpose of this procedure and guideline is to set forth a commissioning process, which will ensure that the building's exterior envelop and waterproofing systems perform and function in conformity with design intent and to provide a means of verifying the implementation of these systems based on the project specifications, design and applicable industry standards.

#### 2.0 Definition of Commissioning

The term "Commission" refers to a Quality Assurance process by which the building's exterior envelop and waterproofing systems (i.e., below and above-grade waterproofing, decks, roofs, caulking, plaster, precast concrete and GFRC, curtain-wall, flashing, expansion joints, etc.) are provided, installed and tested in order to verify the systems perform in accordance with the contract documents and the design intent.

Commissioning entails the development of a clear and complete process that verifies the systems design and operational intent. It also is to verify that the exterior envelop and waterproofing systems and its components are installed according to the contract documents, manufacturer's recommendations and published industry standards and that the system receives adequate installation and performance inspections by the installing contractor.

The process must include verifying and documenting the installation steps, phases, and system performance with respect to the design intent and the contract documents. Commissioning is a team effort that requires cooperation by all parties to succeed.

#### 3.0 Description of the Commissioning Process

Commissioning is a “**systematic**” process for achieving, validating and documenting the performance of building systems as so that it meets the design intent and requirements.

The process extends through all phases from design to occupancy, and extending through the warranty period. Numerous checks and inspections shall be performed at each stage of the process to ensure that established procedures are followed. The process also includes training of facility operational personnel to ensure continued efficient use of the exterior envelop and waterproofing systems as originally designed and installed.

This guideline provides a uniform, integrated and consistent approach for the commissioning of all waterproofing systems as well as assisting in insuring product and design compatibility. Since many building waterproofing systems are integrated, a deficiency in one system or component may result in sub-optimal performance and failure among others.

#### 4.0 Commissioning Plan

Commissioning is a “**Quality Process**” for validating the system and component design performance.

The reports from the commissioning process are not just test reports, but reports that document design, installation, inspections, and particular tests and or evaluation procedures. The commissioning plan is continually updated to reflect changes in program and design of the waterproofing system(s). Commissioning reports shall document and record the results of the commissioning process.

Each Trade Subcontractor’s specific commissioning plan must be neatly organized in a consistent manner that reflects the nature of the building systems and their performance. The commissioning plan shall include schedules, requirements and procedures.

Trade Subcontractor(s) shall be responsible for the timely and efficient completion of all commissioning in accordance with the Subcontract Agreement.

**At no time shall any work be permitted to commence without a WEBCOR/OBAYASHI’ approved Trade Subcontractor Waterproofing Commissioning Program.**

Failure to do so may require Trade Subcontractor to assume all related costs and expenses in accordance with the Subcontract Agreement.

In addition, Trade Subcontractor may also be required to assume all related cost should WEBCOR/OBAYASHI find it necessary to develop, manage and or perform any Trade Subcontractor commissioning work.

#### 5.0 Objectives

The fundamental objectives of the commissioning process are:

- 5.1 Create a procedure to verify and provide documentation that the waterproofing performance of the facility meet the design requirements.



- 5.2 Enhance communication by documenting data and decisions throughout all phases of the project.
- 5.3 Validate and report that the performance of waterproofing systems meets design intent.
- 5.4 Provide a means of Quality Control and Quality Assurance (QA/QC) throughout all phases of the waterproofing system(s) installation, inspection, and testing process.

## **6.0 Contractors Normally Participating in the Commissioning Process**

- ✓ Waterproofing Consultant
- ✓ Architect
- ✓ Structural Engineer
- ✓ Mechanical
- ✓ Plumbing
- ✓ Electrical
- ✓ Fire Sprinkler
- ✓ Glass Systems
- ✓ Caulking
- ✓ Brick, Tile, Precast, GFRC, and Stone
- ✓ Fountains and Ponds
- ✓ Swimming Pools & Spas
- ✓ Roofing
- ✓ Insulation
- ✓ Flashing & Sheetmetal
- ✓ Waterproofing Contractors
- ✓ Concrete (If waterproofing admixtures are included by design)
- ✓ Stucco, EIFS, DEFS systems
- ✓ Elastomeric Painting
- ✓ Rough Carpentry (Wood cladding)
- ✓ Architectural Metal Cladding
- ✓ Expansion Joint Systems
- ✓ Water Tanks
- ✓ Special Systems or Components

## **7.0 Commissioning Team**

The commissioning team members may consist of the following:

- ✓ WEBCOR/OBAYASHI - Project Team as required

- ✓ Owner - Designated representative of the owner, building operator/engineer, and/or the owner's construction management firm
- ✓ Engineers - Architect and Designers
- ✓ Waterproofing Contractor
- ✓ Waterproofing Consultant
- ✓ Flashing / Sheet Metal Contractor
- ✓ Exterior Skin Contractor
- ✓ Roof Contractor
- ✓ Glass and Curtain Contractor
- ✓ Caulking and Sealants Contractor
- ✓ Commissioning Agent (CA)
- ✓ Mechanical Contractor
- ✓ Plumbing Contractor
- ✓ Fire Sprinkler Contractor
- ✓ Electrical Contractor
- ✓ Testing Contractor
- ✓ Other as necessary

## 8.0 Meetings

Regularly scheduled commissioning meetings of **the entire team** shall be conducted for site coordination, communicating issues of concern, resolving conflicts, reporting on system process and status, identifying urgent work and all deficiencies.

Commissioning meetings are critical to the **Quality** of the commissioning process as well as timely completion of the project.

## **9.0 Trade Subcontractor Performance Requirements**

- 9.1 Designation of the primary person who will be responsible, accountable, and act as the main contact person for all commissioning communications. Provide organizational chart indicating personnel who will be involved in the project. The chart should indicate factory, office, and on-site field personnel.
- 9.2 Review of drawings and specifications for completeness, appropriateness of details, and acceptance by Trade Subcontractor thereof.
- 9.3 Review WEBCOR/OBAYASHI standard details.
- 9.4 Preparing and submitting documentation of Trade Subcontractor's respective materials and systems to be integrated into the overall Commissioning Plan.
- 9.5 Submitting information on the intended commissioning protocol used on materials, and the integration into the system as a whole.
- 9.6 Provide a presentation of the commissioning process to WEBCOR/OBAYASHI, the Owner and or the owner's representatives. Demonstration shall indicate compliance with the Trade Subcontractor Commissioning requirements as outlined in this document.
- 9.7 Submitting shop drawings detailing waterproofing system layout as outlined in the contract documents. Shop drawings shall reflect all conditions present in the building, including but not limited to the following:
  - a. Conditions where different materials meet (i.e. windows to plaster or stone to plaster).
  - b. Corner conditions.
  - c. Conditions where vertical planes meet horizontal planes (i.e. soffits and sills).
  - d. Expansion joints and control joints.
  - e. Flashing.
  - f. Penetrations (i.e. Z-ducts, electrical outlets, louvers).
  - g. Conditions typically utilized by Trade Subcontractor's common practices.

Shop drawings shall include installation drawings indicating the planned sequence of installation of all components.
- 9.8 Providing means and method for preliminary testing of the exterior envelop and waterproofing systems with manufacturer's representative present as required:
  - a. Caulking: Include complete coordination with the caulking manufacturer's representative to assure compatibility of the caulking system with the

surrounding substrate and finishes. Trade Subcontractor shall submit caulking samples including manufacturer's specifications for materials, color, cleaning procedure, required primers, proper backer rod, installation procedures, testing requirements and results. Testing of caulking samples between all combinations of materials shall be performed by qualified testing agencies in direct accordance with A.S.T.M. Standard Test Method C794 (75), including seven (7) day immersion. A letter from the Caulking Manufacturer shall be submitted approving all testing procedures, the installation procedure and the use of the specified materials for the intended application. Any materials installed without such approval that may be in conflict with the approved procedures or of unacceptable color and appearance will be removed and replaced at the Trade Subcontractor's expense.

- b. Windows and Sliding Glass Doors: Assemblies shall be field tested in accordance with American Architectural Manufacturers Association (AAMA) 502-02 Voluntary Specification for Field Testing of Windows and Sliding Glass Doors using Test Methods A and B, testing a minimum of 1% of the products for air leakage resistance and water penetration resistance as specified for various stages of the product installation.
- 9.9 Reviewing all required testing under the witnessing of WEBCOR/OBAYASHI, Building Owner, and or the Owners representatives.
  - 9.10 Correcting all system deficiencies at Trade Subcontractor expense.
  - 9.11 Obtaining all required permits, code required inspections and final certifications.
  - 9.12 Preparing complete as-built record drawings made from an original set that has been marked up throughout the duration of the project. Drawings must indicate all work as it was actually installed showing change order revisions, field changes required to meet the working conditions, and any other items that will affect or reflected in the operation and maintenance of the facility.
  - 9.13 Obtaining all manufacturer's warranties and guarantees.
  - 9.14 Organizing the O&M manuals, if any, from suppliers and manufacturers.
  - 9.15 Performing any specified training for the facility's operational staff.

## 10.0 Information Management

The management and continued organization of the commissioning information shall be the sole responsibility of the Trade Subcontractor.

WEBCOR/OBAYASHI and the Trade Subcontractor shall mutually agree on the location where all the commissioning information and documentation shall be stored.

The Trade Subcontractor shall make every effort to continually update and manage the information throughout the commissioning process. WEBCOR/OBAYASHI and the Building Owner may review the commissioning information provided by the Trade Subcontractor at any time for updates, accuracy and completeness.

WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's monthly progress billing in the event the commissioning information or performance requirements as described in the Waterproofing Quality Commissioning Procedures & Guidelines are not being performed, managed and updated by the Trade Subcontractor.

## 11.0 Trade Subcontractor Commissioning Submittal Requirement

Each Trade Subcontractor has a responsibility to WEBCOR/OBAYASHI and the Building Owner to comply with the terms of the contract and to verify that the design intent of the waterproofing systems for the project is achieved.

Each Trade Subcontractor is required to provide two completed commissioning manuals containing the information outlined in Section 19 - Commissioning Binder Tab Index of this guideline. Each proposed formatted "3-ring" binder containing all information, including blank forms shall be provided to WEBCOR/OBAYASHI and the Owner for "**review and comment**" before the commissioning process begins, or by an agreed upon date.

WEBCOR/OBAYASHI, the Owner and the owner representative shall review the information and return it to the Trade Subcontractor within **two-week** time with all comments.

Each Trade Subcontractor shall make all required changes as agreed, to the commissioning manuals and resubmit them to WEBCOR/OBAYASHI within **two-weeks**.

Each Trade Subcontractor shall schedule and provide a formal demonstration of their commissioning process to WEBCOR/OBAYASHI, the Owner and the Owners representative after all required changes to the manuals have been satisfactory completed. Demonstration shall indicate compliance with the Trade Subcontractor Waterproofing Commissioning requirements as outlined in this document.

Each Commissioning Manual **shall be neatly organized** using appropriate tabs, dividers, table of content, index, etc. as required for easy referencing. Refer to Section 19 Commissioning Binder Tab Index for a standard binder organization. All Commissioning Manual(s) **must be user friendly**.

## 12.0 Commissioning Binder Tab Index

- Tab 1. Project design criteria specifications** – Provide information that describes the overall design criteria and performance requirements for the waterproofing system(s).
- Tab 2. Manufacture products and components** – Provide complete submittal list of all components that shall be contractually provided and installed.
- Tab 3. Manufacture installation instructions** – Provide manufacture documentation insuring that the system and components installation complies with all Manufacture requirements to maintain performance and guarantee obligations.
- Tab 4. Manufacture details** – Provide manufacture details or published industry standards for penetrations and terminations interfacing with other installed systems.
- Tab 5. Design transition review** – Provide design review comments and concerns on transition interfaces to other s or other compatibility issues.
- Tab 6. Quality Assurance / Quality Control Program** – Provide QAQC program with complete field inspections and checklists.
- Tab 7. Documentation** – Trade Subcontractor shall maintain a separate field binder documenting the QAQC inspections and field-testing for all installed work.
- Tab 8. Field mock-up and testing** – Provide information on mock-up or field performance tests that shall be preformed for all installed system(s). Provide manufacture recommendations or published testing standards used. If no performance testing is preformed, Trade Subcontractor shall provide documentation on how each system is performing in accordance to the documented design intent and contract warranty requirements.
- Tab 9. Schedule** – Provide schedule for, shop drawing devolvement, submittals fabrication, delivery and installation.
- Tab 10. Agency and factory test reports** – Provide all factory, agency, and field performance-testing reports on installed systems.
- Tab 11. Factory and Trade Subcontractor guarantee information** – Provide warranty responsibilities and durations for all systems and components installed.
- Tab 12. Owner Training** – Provide (O&M) and training for all required service and maintenance requirements as it extends throughout each system to maintain warranty. Include owner sign-off sheets verifying training.

- Tab 13. Attic Stock** – Provide list of spare material that shall be supplied by Trade Subcontractor to owner – Paint, applied materials, gaskets, handles, glazing, or patching products.
- Tab 14. As-Built Drawings** – Provide completed set of drawing and details accurately reflecting all installed and completed work.
- Tab 15. Material Safety Data Sheets** – Provide all Material and Data Safety Sheets (MSDS).

### 13.0 Identifying the Defects

It is the intent of the commissioning process to avoid defects in waterproofing systems. A standard of care exhibited during the commissioning process should anticipate potential defects and determine appropriate solutions prior to the installation of these systems. In the event that defects do occur, proper defect identification will help determine the repair needed and assist in selecting the appropriate method and materials.

It is important to acknowledge which factors have caused deficiencies in the waterproofing system and its components, and how a deficiency in one system may influence or amplify another. Careful and thorough defect identification is critical to obtain long-lasting, quality repairs. It is critical and necessary to eliminate the cause of the defect and not solely treat the symptom.

Each Trade Subcontractor shall be responsible for determining the cause and origin of various problems as it pertains to their contractual scope of work. Failure to do so may require Trade Subcontractor to assume all related costs and expenses for damages, repairs performed by others, testing, special inspections, and consultant fees.

### 14.0 Applicable Industry Standards

Unless the Contract Documents include more stringent requirements, applicable published construction industry standards shall be utilized. Where compliance with two or more standards is specified for quality or quantity levels, comply with the most stringent requirement.

Where sections of the specifications require that a product, material, installation, or test complies with a specified industry standard, the Trade Subcontractor shall obtain copies directly from the publication(s) source and include the information in the submitted commissioning information.

Each Trade Subcontractor engaged in construction on the project must be familiar with published industry standards applicable to their construction activity.

### 15.0 Schedules

An initial schedule shall be developed by the Trade Subcontractor identifying dates, times, and durations for shop drawings, approval of submittals, material fabrication, product delivery, acceptance, installation, testing and completion.

The schedule shall also include any commissioning task that shall be performed on waterproofing systems that may involve or affect other related building systems.

Each Trade Subcontractor shall update schedules, daily, weekly, monthly, or as required to keep WEBCOR/OBAYASHI and the Owner informed of the activities performed. This schedule will indicate appropriate milestones during the installation to allow WEBCOR/OBAYASHI and or the Owner the ability to observe and witness system installations prior to being covered up by subsequent s. The schedule will indicate milestone dates for Trade Subcontractor inspection and testing.

#### **16.0 Execution of Inspections and Checklists**

Trade Subcontractor and or vendors shall schedule initial inspections and checklist review with the commissioning team. The inspections and reviews shall be directed, executed, and documented by the Trade Subcontractor or vendor.

To document the process, the Trade Subcontractor performing the task shall provide and complete all documentation forms and checklists. (See attached sample checklist)

#### **17.0 Field Inspections**

One of the most important commissioning activities for waterproofing systems is field inspections. The field inspection process shall serve as a method and means of documenting the installation process as well as indicate variations between contractual design and construction.

Each Trade Subcontractor shall identify in detail the scope of their field inspections, and the types of field procedures that will be required to obtain the necessary information to provide a complete waterproofing quality control evaluation at the completion of the job.

#### **18.0 Field Witnessing of Trade Subcontractor's Quality Control**

WEBCOR/OBAYASHI, the Owner, consultants and the Architect reserve the right to witness the waterproofing system installation at any time. Spot checks shall be conducted on a random basis. If inconsistencies are discovered in quality, performance, or if commissioning information differs from those submitted, the Trade Subcontractor may be required to completely remove and remedy all conditions where the inconsistencies occurred at no additional cost or impact to the schedule.

Witnessing shall include all or part of, but not limited to the following:

- 14.1 Mock ups
- 14.2 Waterproofing component and system installation
- 14.3 System inspection and checks
- 14.4 Performance tests



## 14.5 Special Inspections

## 19.0 Documentation

Trade Subcontractor shall maintain a separate field binder documenting quality control inspections and field-testing for all installed work. Documentation shall include dates, quality control field checklist, reports with inspected locations defined by grid lines and elevations. Provide a dated photo log, documenting inspected areas and general sequence of installed work for the duration of the project.

## 20.0 Testing and Methods

The objective of field-testing is to correlate paths of moisture infiltration and to observe the source of damages. Moisture entering a building during extreme weather may be obvious, but the most reliable method to discover the infiltrating path is to recreate the leakage condition in a controlled manner. Testing also allows verification of the theory for the cause of leakage.

As all system and component tests are unique to some degree, there may not be one standard or method for testing that can be applied to all. There are several methods, standards, governing requirements, and manufacture recommendations, etc., which should be applied.

There are three types of acceptable testing methods that can be used during the investigation. All of which must be approved by WEBCOR/OBAYASHI. These testing categories include:

- ✓ Non-Destructive Testing
- ✓ Destructive Testing
- ✓ Laboratory Testing

### 20.1 Non-Destructive Testing

Non-destructive testing uses a variety of non-invasive tools. This type of testing causes little or no damage or interference to the building envelope. The various methods of non-destructive testing include:

- a. *Rilem Tube* - This calibrated device is adhered to exterior masonry walls to determine the porosity and condition of brick masonry units, mortar joints, head joints, and embedment joints.
- b. *Water Spray Rack (ASTM E1105)* - This test simulates a wind-driven rain condition on a facility. It can assist in determining the specific cause and origin of moisture infiltration when it is used to test independent components of the envelope. Spraying water over a large area in an uncontrolled fashion will not reveal specific causes of water infiltration.
- c. *Hose Spray Test (AAMA 501.2)* - This test method also simulates wind-driven rain in small segmented areas using a standard garden hose in which a calibrated nozzle is attached with a pressure gauge. The spray is

directed at a specific joint, crack, or defect to reveal potential moisture intrusion.

- d. *Differential Pressure Test (ASTM E1105)* - A pressure chamber is constructed on the interior of the facility at a specific location to test moisture driven through an assembly or component. The assembly or component is subjected to a negative force while simultaneously a spray rack is directed at the assembly to draw the moisture into the facility to simulate a negative pressure under a wind-driven rain condition.
- e. *Infra-Red Thermography* - Infra-red Thermography photographs the building exterior to determine the locations of wet components. Components, such as insulation and sheathing, etc., will act as heat sinks if they contain high levels of moisture. During the day, moist and dry components absorb heat. At night, the moist areas release the heat much slower than the dry areas. By reading the heat signature, Infrared Thermography will help expose the problem areas. Small test cuts may be required to verify moisture areas.
- f. *Soundings (ASTM D4580)* - There are different ways to perform sounding tests including the hammer tap test. In this test, a 16 oz. hammer is tapped against concrete for sound. A hollow sound indicates areas where the concrete has separated from the reinforcing steel, typically due to exfoliation or corrosion of the steel. Another method of sounding is to chain drag a heavy 15 ft. link chain along a concrete surface to listen for hollow sounds, indicating defective concrete. This method can cover larger areas effectively and is commonly used on parking garages and loading docks.
- g. *Pachometer Survey* - This test uses a magnetic device used to locate embedded steel reinforcement and help determine the concrete cover over the reinforcement. Generally, the Pachometer is fairly accurate when measuring ¼ inch to 3-inch thick concrete cover and when reinforcing placement is not too congested.
- h. *Poly-sheet Tape-down* - This test determines the presence of moisture coming through a concrete surface, typically a slab-on-grade type of assembly where the typical problem is tile or membrane separation from the floor. A 2' x 2' section of polyethylene is sealed to the concrete with duct tape and removed 24 hours later. If there is moisture beneath the polyethylene, it is a good indication that there is a vapor drive through the concrete section.
- i. *Glass-Slide Epoxy or Crack-o-meter* - This device is sealed in place over a crack and periodically checked to determine if any movement has occurred. If movement has occurred, the glass will crack or the meter will record movement.
- j. *Optical Illuminated Boroscope* - A boroscope is inserted into a 5/8-in. diameter pilot hole through an exterior wall system and allows the cavity walls of brick veneer, stud wall backup of exterior insulated finish systems (EIFS), or other types of constructions to be observed without large-scale destructive testing.

- k. *Smoke/Dust Tracer* - The smoke/dust tracer helps to find air infiltration. It is moved across the interior face of a window to observe the smoke and dust particles coming through the assembly.
- l. *Moisture Meter* - A Delmhorst meter is a digital device that detects the presence of moisture in various building components. This test is typically accompanied by a gravimetric analysis (oven drying of samples), which is used to confirm the results of the Delmhorst meter.
- m. *Flashlight and mirror* - These simple tools can be very useful to detect problem areas. Placing the mirror into the plenum or behind difficult-to-access areas with the flashlight will allow observation of concealed conditions.

## 20.2 Destructive Testing

When the main objective is to determine the existing composition and configuration of concealed assembly conditions, destructive testing may be warranted. The most common methods of destructive testing are test cuts and borings.

Any type of destructive testing must be reviewed and approved by WEBCOR/OBAYASHI.

- a. *Roof Testing* - Test cuts in the roof assembly may be necessary to determine the condition of the underlying insulation and substrate. Cutting into the system may help verify whether roofing problems are causing corrosion of the steel deck, or a spalled and cracked concrete deck, etc. Test cuts may also expose the as-built configurations of the flashing components at roof-to-wall locations, curb locations, etc. This information is critical to the appropriate remedial design and/or repairs.
- b. *Exterior Wall/Skin Testing* - Test cuts on exterior walls may be required to identify the origin of moisture infiltration. For masonry walls, it is most effective to make test cuts at window heads and sills, and at any through-wall flashing locations that may be suspected of allowing moisture intrusion. Masonry test cuts may expose defective through-wall flashing that is allowing moisture intrusion. Test cuts may also help determine the underlying conditions of the steel components in wall systems, including wall ties, reinforcing steel, sub-steel columns, etc.

## 20.3 Laboratory Testing

Destructive testing is also used to obtain samples for lab analysis. Samples of sealants, coatings, painted finishes, roofing materials, etc. can be sent to a laboratory to determine the presence of lead or asbestos. Samples of masonry or concrete can also be tested to help identify causes of moisture/air infiltration (descriptions of these analyses follow).

Laboratory testing may help obtain a better understanding of existing material types, presence of contaminants, and the possibility of hazardous components.

This type of testing can also provide valuable information concerning proper surface preparation, material selection, and implementation of repairs. The following laboratory tests are some of the more useful when performing building envelope evaluations:

- a. *Gravimetric Analysis* - This test will determine moisture content. After weighing and recording the in-situ existing sample, completely dry the sample in an oven and re-weigh it. The weight difference indicates moisture content and is particularly useful for insulating materials. Testing moisture contents of samples is critical to verify results from non-destructive moisture scans.
- b. *Petrography* - Petrography determines the “make-up” of concrete. This test will indicate the size and type of aggregate, air/void ratio, type of cement, and general mix design data of the concrete. Most materials testing lab can perform this test.
- c. *Air Entrainment* - Provides an indication of the existing concrete’s durability and freeze-thaw resistance. Air entrainment is generally indicated by petrography.
- d. *Presence of Carbonization* - Accomplished by spraying a solution of phenothelene on the concrete substrate and recording the depth of the solution’s color change. This will indicate to what depth carbon dioxide has progressed into the concrete. Carbon dioxide will degrade the cement matrix of the concrete and lower the pH level of it. The layer surrounding the reinforcement is then destroyed, allowing corrosion of the reinforcing steel. Corrosion by carbonization usually occurs over a broad area.
- e. *Chloride Ion Content* - Chlorides from marine atmospheres or mists from road salts entering the concrete substrate, and salts originally introduced to the concrete via admixtures or aggregates can promote accelerated corrosion of reinforcing steel, usually at concentrated or specific locations. The chlorides are not consumed in the corrosion process but rather act as catalysts in the process. The corrosion will progress along the reinforcing bars causing concrete de-bonding, cracking, and spalling.
- f. *Reinforcement Placement, Depth, Quantity, and Type* - This information may be established with the use of a Pachometer or similar electronic metal detector. It is useful in determining required steel replacement and structural capacities during engineering analysis phases.

## 21.0 Engineering Analysis

Using information obtained from the field, laboratory results, and collected data, a comprehensive engineering analysis may be required. The engineering analysis should include an assessment of field and laboratory data, structural analysis as well as the following:

- ✓ Thermal Analysis
- ✓ Drainage Analysis

- ✓ Vapor Drive Analysis
- ✓ Fire Rating Requirements
- ✓ Cost Estimations

## **22.0 Deficiencies and Non-Conformance**

The Trade Subcontractor shall identify and list any outstanding deficiencies or procedures that were not completed successfully during any final testing. Documented deficiencies shall be submitted to WEBCOR/OBAYASHI within 48 hours of each test completion.

The Trade Subcontractor shall also provide in writing, the corrective action for each deficiency as required within 48 hours. The installing Trade Subcontractor and or vendor shall correct all outstanding issues or deficiencies in the materials or the installation of the materials and provide the commissioning team with dates and times for the required corrections and any re-testing.

## **23.0 Remedial Work**

General considerations for the repair of defects and replacement of components should include the following:

- 23.1 Determine the effect, if any; the repairs have on the structure, surroundings, and operations of the building.
- 23.2 Ensure proper preparation of surfaces to be repaired and provide chemical and mechanical bonds for new materials.
- 23.3 Material selection should include an understanding of performance limitations and should rely on the products past acceptable performance. Material selections should include consideration of the following:
  - ✓ Compatibility
  - ✓ Maintenance
  - ✓ Life cycle

## **24.0 Project Commissioning Closeout**

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative shall determine when the Trade Subcontractor commissioning process has been satisfactorily completed and when to submit the final report information and all other documentation to Webcor.

As part of the project turnover, the quality of all work will be reviewed to determine whether it is within specific and manufacturers' guidelines, industry standards, and code compliance.

WEBCOR/OBAYASHI, the Owner, and/or the Owner's representative consultant must be completely satisfied that the commissioning procedures have been performed accurately and professionally.

In the event the commissioning information or performance requirements outlined in the Waterproofing Quality Commissioning Procedure & Guidelines have not been met, WEBCOR/OBAYASHI may elect to withhold or make appropriate adjustments to the Trade Subcontractor's final billing.