

### TG03 - Buttress, Shoring, Excavation - Issued for Bid

Questions are numbered in the order received. Question numbers missing in the sequence either have been answered or are still under review and will be published in future responses.

Question No.	Submission Date	Question	Response
TG0300-0103	8.24.2010	<p>Reference specification 39 09 13</p> <p>The plans show geotechnical instrumentation including inclinometers, MPBXs, piezometers and settlement points. Specification Section 39 09 13 states that "... Geotechnical instrumentation consists of inclinometers, settlement casings, settlement monitoring points, survey reference points, piezometers and multiple point borehole extensometers." The plans state that the geotechnical instruments for monitoring the TBT excavation and shoring work are to be drilled and installed by the TJPA representative. However, the specifications call for "...furnishing, installing, monitoring, reading, recording, maintaining, protecting ..... geotechnical instrumentation." The specifications go on to state that "...where shown on the drawings, the Contractor will procure and install the specified instrumentation." We find no notes on the plans calling for the Contractor to procure and install the specified instrumentation nor notes as to who is responsible for monitoring the shoring performance. The plans appear to be inconsistent with local practice in that it is customary in Northern California for the Contractor to furnish, install and monitor appropriate geotechnical instrumentation when the Contractor is responsible for constructing works involving deep excavations and shoring. We recognize the Internal Bracing Specification requires a monitoring program for struts, but is silent on exterior monitoring.</p> <p>1. What is the Owner's intent in this regard?</p> <p>2. Will the TJPA be responsible for the exterior monitoring as implied, and the Contractor be responsible for monitoring the performance of the shoring systems in the Specifications which state "...furnishing, installing, monitoring, reading, recording, maintaining, protecting ..... geotechnical instrumentation." , Or will the TJPA representatives read and monitor for all the geotechnical instrumentation?</p> <p>3. If the TJPA representatives read the geotechnical instrumentation, will the TBJPA representatives take the geotechnical instrumentation data readings on a daily basis? If the TJPA representatives are to be responsible for timely reading and reporting on the shoring systems performance, will the TJPA representatives set up the geotechnical instrumentation to be read via dataloggers with in-situ sensors and cellular modems in the case of the inclinometers and/or similarly in the case of the piezometers and MPBXs? Timely notification of all parties should be required.</p>	<p>1. All instrumentation shown on the 7/30/10 geotechnical drawings will be procured, installed, and monitored by the TJPA's Representative. The specifications describe monitoring, which is the responsibility of the contractor, e.g., monitoring procedures to check internal bracing performance in Section 31 55 00, and monitoring wells for the dewatering system in Section 31 23 19.</p> <p>2. The TJPA will monitor ground movements inside and outside the excavation using the instruments shown on GT-1301 and 1302. The Contractor will monitor the internal bracing system.</p> <p>3. The TJPA is evaluating the implementation of an automated data collection and management system which uses a web-based portal to assemble data generated by contractor, the TJPA's Representative, and others for examination by relevant parties. In lieu of this, the TJPA's Representative will read the instruments at a frequency dictated by the stage of construction and by the magnitude of movements observed.</p>

TG0300-0124	8.25.2010	<p>Reference specification 01 17 40.</p> <p>1) Please confirm that the 2 year warranty for subsurface work applies to this Trade Subcontractor package</p> <p>2) Request a copy of the Contractor's Builder's Risk insurance so we can review terms and conditions.</p> <p>3) Does the California Public Contract Code 7105 (Acts of God) statute apply in this Trade Subcontract?</p> <p>4) Will a Contractors Protective Professional Indemnity policy in the amounts specified in Exhibit A section VI be sufficient evidence of coverage to the Owner?</p> <p>5) Request the general liability requirements be amended to more customary rated A-VII or higher.</p>	<p>1. The warranty requirements in Section 01 17 40 are for the project as a whole and are not specific to an individual package. The warranty items for the BSE package, if any, would be limited to those works in place when the contract is complete.</p> <p>2. The Builder's Risk policy will be made available prior to the start of construction. Refer to Section 00 08 05, paragraph 1.3.A, in Addendum 2 for the contractor's requirements.</p> <p>3. The Public Contract Code 7105 allows public entities to require Builder's Risk insurance from public works contractors to cover damage to the construction site. The requirements of Section 00 08 05 are for the CM/GC. The insurance requirements for the Trade Subcontractors are defined in the Webcor/Obayashi long form subcontract.</p> <p>4. Yes, a Contractor's Protective Professional Indemnity Policy (CPPI) is sufficient evidence of coverage.</p> <p>5. See Addendum 2 for the revision to rating.</p>
TG0300-0134	8.31.2010	<p>In regards to the temporary bridges at 1st, Fremont (Fremont) and Beale St. The contractor is to reference Spec. # 01 15 70-2 and # 01 53 13 -3.6. Section 01 15 70-2 states we are to provide three lanes at 11'. Section 01 53 13-3.6 calls for one 10' pedestrian path and three barriers assumed 1'-6" at the base. These dimensions add up to 47'-6".</p> <p>Exhibit A Trade Subcontractor Bid Package Drawing SL-001 shows road widths of 36' at these locations.</p> <p>Please confirm total width to be 47'6"</p>	<p>The dimensions in the drawing SL001 will be removed in an upcoming addendum.</p>
TG0300-0135	8.31.2010	<p>Welding (sic) Wqualifications (sic) for Temporary Bridges acII for AWS D1.1/D1.1M not AWS D1.5 Please confirm AWS D1.1/D1.1M is applicable to the Temporary Bridges for the durations expected.</p>	<p>AWS D1.1/D1.1M is not applicable to the temporary bridges. The temporary bridges welding qualifications, welding personnel, and welding procedures shall be according to AWS</p>

			D1.5/D1.5M.
TG0300-0139	9.1.2010	Reference Attachment 3. Please confirm that all horizontal members of the access trestle must be above the ground floor slab at all locations.	Refer to "Level of the Access Trestle" in Exhibit A, Attachment 3. Refer to Section IV. C., Base Scope Item 21. Access trestle shall not interfere with the permanent structure.
TG0300-0141	9.1.2010	Reference is made to the various forms that were revised per Addendum No. 2 (i.e. Acknowledgment of Receipt and Review - Project Bidding Manual; Bid Form and Schedule of Bid Prices; Bidding Checklist (BCL); Bid Bond Form; etc). All these form now have "FINAL FOR ADDENDUM" stamped across them. Is it your intent that we submit these forms as is or are you going to be providing us with a separate Bid Package of these forms without this reference stamped across them?	The bidder shall submit the most current forms in the Bid Documents and addenda for the TG03 BSE package.
TG0300-0145	9.2.2010	<p>Zone 2 NTP within 235 cd of NTP 1 Finish within 570 cd ----- From NTP1      805 cd</p> <p>Zone 3 NTP within 265 cd of NTP 1 Finish within 535 cd ----- From NTP1      800 cd</p> <p>Is requirement to have zone 3 completed prior to zone 2 the owners true intent?</p>	It is the intent to have both zones complete at the same time or, as per the schedule in Exhibit A, within 5 calendar days of each other.
TG0300-0148	9.2.2010	<p>Reference 301 Mission St. Drawings, drawing sheet GT-5102.</p> <p>The Temporary Shoring and Earth Retention Drawings for 301 Mission St. show a grade beam on K line in Section 1 Drwg. SH-32 under the screening wall that is to be relocated by others, it appears that this grade beam carries through the parking structure as shown in Section 2 Drwg. SH-31 and Section 9 Drwg. GT-5102 of these bid documents. Please confirm this grade beam will be demolished prior to CDSM Shoring wall obstruction removal and Geotechnical Monitoring Instrumentation.</p> <p>In Transbay Demolition Plans, drawing # D1060, and D1076, show the backfill material fill to first floor elevation in the area adjacent to 301 Mission Building. In BSE Plans, drawing # GT5000 shows the backfill material fill to about basement slab elevation. Please confirm which one is correct?</p>	<p>The 301 Mission drawings show the grade beam on the 301 Mission side of the property line and therefore should not interfere with installation of the Transbay Transit Center CDSM shoring wall.</p> <p>GT-5000 is consistent with D-5103 regarding the amount of crushed concrete backfill at the start of the contract.</p>
TG0300-0149	9.3.2010	<p>Reference plan sheet GT-5100, notes 11 and 12.</p> <p>On sheet D-5100 of the plans notes 11 and 12 reference "draft report results of the prototype test program installation of shoring walls using the cement deep soil mixing method" and "prototype test program and monitoring during</p>	Refer to Section 00 03 20, Geotechnical Data, for the procedure to obtain the report.

		construction of drilled shafts." How can I obtain these reports? Are they available online? Please send response to (e-mail address). Thank You.	
TG0300-0152	9.3.2010	<p>Reference documents for the (E) 80 Natoma Piles and Shoring wall don't match. Document #3 - 80 Natoma Installed Piles and Document #5 - 80 Natoma Foundation and Structure Plans show a difference of over 400 installed piles.</p> <p>Please confirm which document shows the correct number of installed piles for the (E) 80 Natoma structure.</p>	<p>Based on the information provided by the documents listed in Section 00 03 31, paragraphs 1.2.A.3. &amp; 1.2.A.4, it appears that 1.2.A.2 represents the "as-built" condition of piling at 80 Natoma, and 1.2.A.4 represents the design drawings prepared by the design engineer. Since the project was terminated before its completion, it is likely that not all the design requirements are installed.</p> <p>As noted in paragraph 1.3 of this section, these reference documents are available for information only. The TJPA does not warrant the completeness of the reference documents, nor does it make any representation, either express or implied, that the conditions indicated in the drawings or records are representative of those existing at the Site, or that different conditions may not occur or materials other than or in proportions different from those indicated may not be encountered.</p> <p>See also response to bidders' question TG0300-0101 in response set #3.</p>
TG0300-0153	9.3.2010	<p>Drawing GT-2202 says that the existing piles in the buttress area have to be removed and it refers to Drawing GT-5301 for schematic diagrams of pile removal methods.</p> <p>Please clarify that only the piles in the buttress area have to be removed by one of the methods specified in GT-5301 and all the other piles can be removed during excavation as specified in Stage 4 of Drawing GT-5000.</p>	<p>Refer to Section 02 41 19, paragraphs 3.1 B and C. There are locations noted on the drawings where Non-Ground Deformation Control Methods may be used, for example, on sheet GT-2103, along wall segment 35-1.</p>
TG0300-0154	9.3.2010	<p>Installation sequence Notes 6 &amp; 7 in Drawing GT-2201 states that Primary Shafts C/4, C/6, C/8 and Secondary Shafts C/5 and C/7 shall be filled with concrete from bottom of shaft to ground surface ( elevation +17.00 +/- 2.00) which contradicts with the detail 1 on GT-5201 and Detail 16 on GT-5202. Details on GT-5201 and GT-5202 show that the shafts get filled with concrete to subgrade elevatio(n) (i.e.,bottom of excavation -45.00 +/- 2.00) Please clarify the top elevation of concrete in shafts.</p>	<p>There is no contradiction. Shafts C/4 thru C/8 are to be filled as noted in notes 6 &amp; 7 on GT-2201; all other shafts are to be filled as noted on GT-5201.</p>
TG0300-0155	9.3.2010	<p>Drawing GT-0000 and GT-2201 say that Secondary Shafts gets filled with Type "A" ( 6000 psi) concrete and Primary Shafts gets filled with Type "B" (2000 psi) Concrete.</p> <p>The legend for Primary and Secondary Shafts on GT-5201 contradicts with the above detail.</p>	<p>GT-0000 and GT-2201 are correct. The legend on GT-5201 will be corrected in an addendum.</p>

		Please clarify.	
TG0300-0156	9.3.2010	Drawing GT-5201 and GT-5202 shows that the shafts gets extended to Working Platform. If so, the shaft above the subgrade elevation shows it getting filled with 300 PSI CLSM, but per drawing GT-2201 it calls for Type "A" in the primary shafts and Type "B" in the secondary shafts up to ground surface?  Please clarify.	As shown on the drawings, Type "A" and "B" concrete are placed to the elevation noted on GT-5201 with the exception of Primary Shafts C/4, C/6, and C/8 and Secondary Shafts C/5 and C/7, as noted on GT-2201, "Installation Sequence Notes."
TG0300-0157	9.3.2010	On dwgs GT-2101, 2102, 2103 calls for sectional details for CDSM wall which gives the details about pre-trenching. As per the Specification 31 56 13, the contractor shall construct a trench along the entire alignment of the shoring wall& cut-off walls. But for walls X2-1, J/12.3 -13, A/19-25, A/25-26, A/26-30, A/30-33.5, A/33.5-35, J/25-27, J/33.5-35, 35-1&cut-off walls do not have any pre-trenching details shown. Can the contractor assume that the walls with no pre-trenching details do not require any pre-trenching?	Pre-trenching is required along the entire alignment of the shoring walls and the cut-off walls. The sections on sheets GT-5103 thru GT-5105 are taken at adjacent properties for the purpose of showing proximity of the work to the adjacent property. Pre-trenching, shoring wall installation, excavation, etc., is required along all shoring wall segments regardless of the presence or absence of a section/detail.
TG0300-0158	9.3.2010	Specification section 00 08 13 1.6 B states that the Contractor shall comply with Ordinance #175-91, Article 21 of the SF Municipal Code restricting the use of potable water for soil compaction and dust control activities. Does this specification also apply to water being used for drilled shaft excavation?	The restriction is limited as defined in the code. The contractor is allowed to obtain water from SFPUC for use in the drilled shaft work.
TG0300-0161	9.3.2010	Reference specification 01 14 10/APA-4  Addendum No. 2 states that TJPA will reimburse the Contractor for costs associated with the State Water Resources Control.  Please confirm that the TJPA will reimburse the Contractor for costs associated with the preparation of the Stormwater Pollution Prevention Plan as required by the General Permit for Stormwater Discharges.	Section 01 14 10/APA is limited to permits responsibility and fees only. The cost of developing plans needed for required permits are the Trade Subcontractor's responsibility.
TG0300-0162	9.3.2010	Spec Section 01 14 19 – Restriction to Use of Site Areas, lists the location of adjacent site areas and when they are available to the Trade/Subcontractor. This section does not address the area labeled in the drawings as the MUNI Hump or the area directly west of Zone 1. Is the trade/subcontractor to assume that both of these areas are not considered adjacent site areas, but areas acquired with the respective zones? Do these areas become available to the Trade/Subcontractor at NTP of Zones 1 and 3?	Section 01 14 19 identifies staging areas outside the construction zone. The "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. 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.
TG0300-	9.7.2010	Reference Earthwork 31.00.00, 3.19.B.2 which states "Protect newly excavated	The sentence, "Barricades shall be installed at the

0165		<p>areas from traffic and erosion...Barricades shall be installed at the tops of the sloped embankments to prevent vehicles and storage loads within seven feet of the tops of the slopes."</p> <p>a. Does this specification apply to the top edge of the vertical face main excavation? (i.e. perimeter shoring wall)</p> <p>b. If seven foot distance is required (at the top edge of the main excavation), then can it be assumed to start at the inside face of CDSM wall and stop at the outside toe of barrier? If not, then please define start and stop of the seven foot distance.</p> <p>c. CDSM wall and excavation occurring on Minna and Natoma streets exist in close proximity to numerous private garages, driveways, and pedestrian entryways. With a further 7 ft setback restriction, this will virtually take the remaining portion of Minna and Natoma street, relegating any traffic along these alleys to existing sidewalks. A specific example would be on Natoma between column lines 14 to 17. Is it the Owner's intent to maintain these setbacks and demolish the existing sidewalks and planter areas by pushing vehicular access closer to the buildings?</p>	<p>tops of the sloped embankments to prevent vehicles and storage loads within seven feet of the tops of the slopes" in Section 31 00 00, paragraph 3.19.B.2, will be replaced with, "Protection of sloped faces within the area being excavated is the responsibility of the Contractor." This change will be included in an upcoming addendum.</p>
TG0300-0167	9.7.2010	Reference specifications 00 03 35 and 00 07 00. Research shows that Asbestos is very probable in mortar use before 1975. Abandoned brick sewer lines may have lining and mortar which could contain asbestos. Please confirm any materials found to contain Asbestos in this instance will be handled under section 00 07 00 3.05 of the specifications.	Section 00 07 00 article 3.05 is clearly written. Also reference Section 01 13 50.
TG0300-0178	9.7.2010	<p>Reference drawing sheet S1-3003.</p> <p>Detail 1 indicates that the micropile design shall be by the Contractor, or in this case, by the micropile subcontractor.</p> <p>(1) Is the micropile subcontractor responsible for designing the micropile anchorage in the concrete base slab?</p> <p>(2) Is the micropile subcontractor responsible for furnishing and installing micropile anchorage reinforcing steel?</p>	<p>(1) Yes.</p> <p>(2) Yes.</p>
TG0300-0179	9.7.2010	CDSM wall layout sheet GT-2101 shows Wall Segment X2-1 on the south side of the building between grid lines 11 and 13. The CDSM Shoring Wall Schedule (16/GT-5101) does not list this wall segment. Please clarify.	This will be revised in an addendum.
TG0300-0184	9.9.2010	<p>Drawings from GT-5102 to 5105 shows CDSM wall sections with pre-trenching details. As per the scale on these drawings, the pre-trench depth varies from 12' to 25'.</p> <p>Please confirm.</p>	Refer to Section 31 56 13, article 3.2 A: "The depth and width of the trench shall be that required to remove the obstructions from the path of the shoring wall."