



# Construction Update

September 13, 2012

## Transbay Transit Center

**TJPA**





Transbay Transit Center

## Period Summary

- There were no recordable incidents or significant near misses during the period from June 1<sup>st</sup> to August 31<sup>st</sup>.
- The BSE Contractor has completed 128 buttress shafts through 8/31/12, a total of 36 since June 8<sup>th</sup>. They have been able to maintain an average of over 3 shafts per week.
- There have been over 430,000 craft hours completed to date, over 135,000 completed since the last update at the June Board meeting.
- Mass excavation continued in Zones 1, 2 and 3 at levels A, B, C and D.
- The installation of the bracing continued in Zones 1 and 2.



Transbay Transit Center

## Period Summary

- The Fremont Street traffic bridge was installed over the Labor Day Weekend. The team completed the work over 24 hours prior to the scheduled Tuesday morning opening.
- The Below Grade Structure Package is out for bid. Bids are due mid- September.
- Access trestle has been completed in Zones 1 and 2 and connected into the First Street traffic bridge.
- Construction continued this period on RUP 4.2, the AWSS, work continued on Howard and Mission Streets. Work on RUP 4.6, the sludge line was completed in August.



Transbay Transit Center

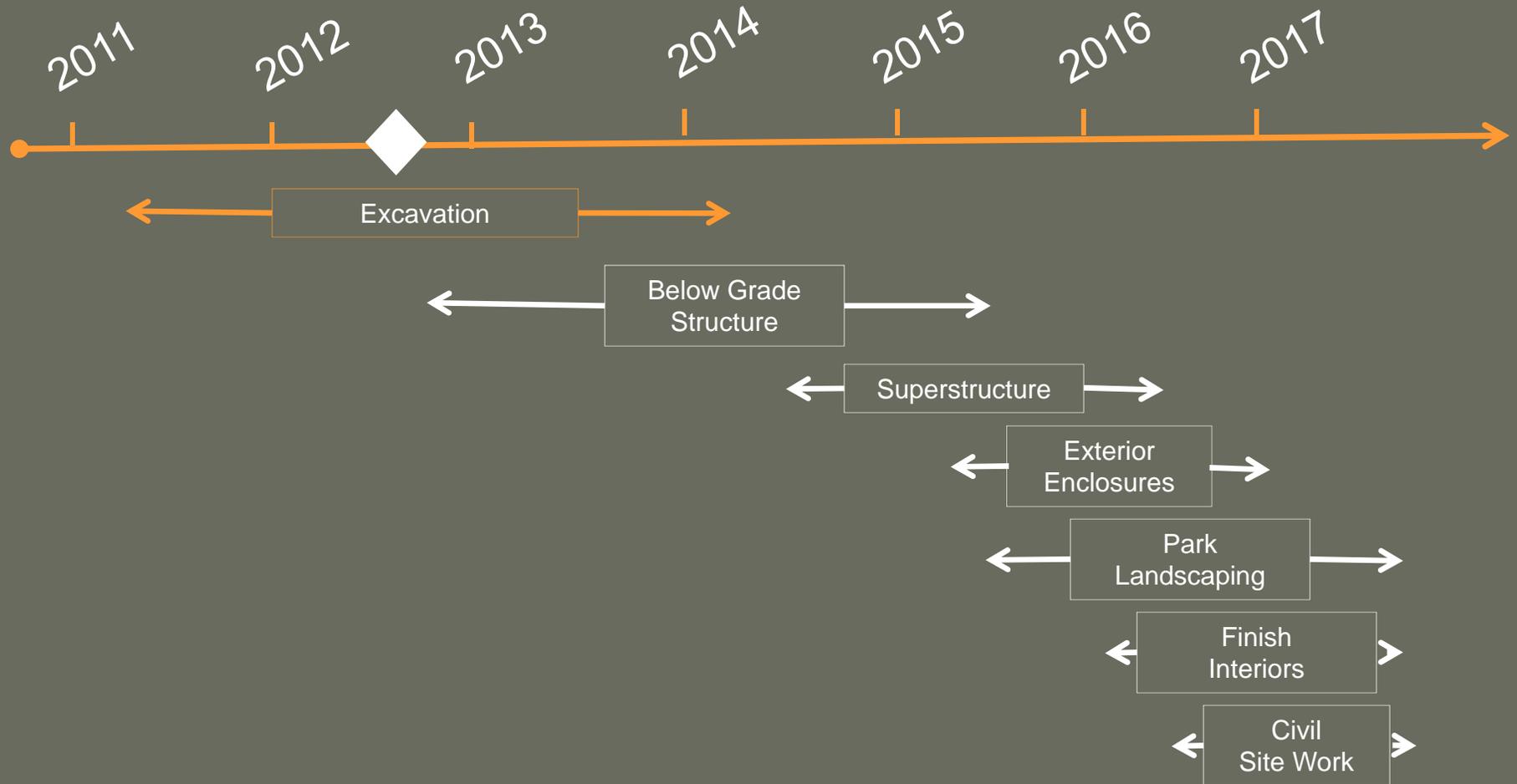
## The Next 90 Days

- Award the Below Grade Structure Package.
- Complete Access Trestle Support Piers in Zone 3 and begin the installation of the trestle deck.
- Continue excavation through Levels A, B, C and D in Zones 1, 2 and 3.
- Complete the micropile test program in Zone 1.
- Complete preparation for and install the Beale Street Traffic Bridge (requires full street shutdown over Veterans Day Weekend).
- Continue Buttress Shaft work in Zone 4, next milestone is for the contractor to complete a total of 162 shafts by November 30<sup>th</sup> (an additional 34 shafts in the next 90 days).



Transbay Transit Center

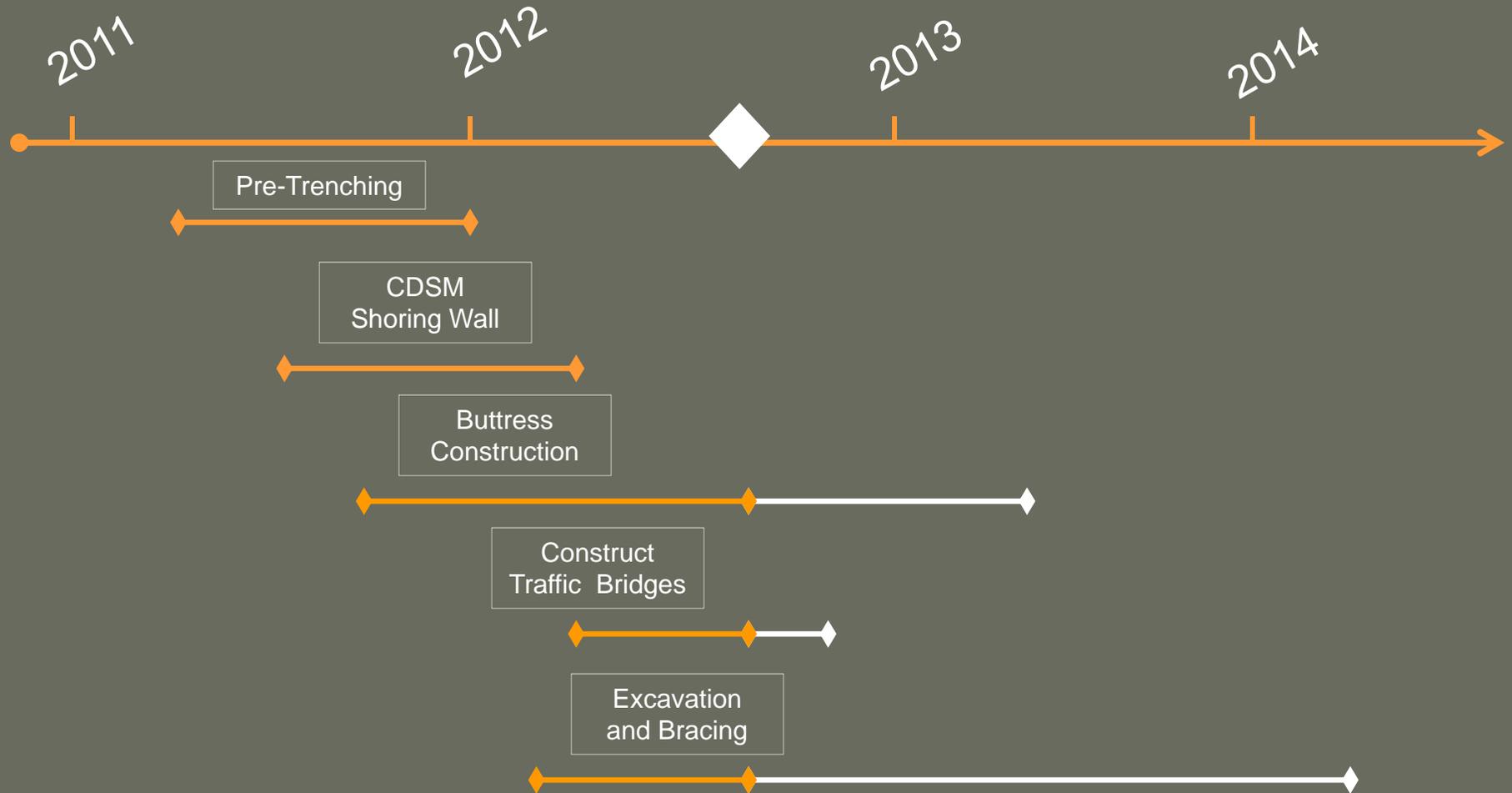
# Construction Timeline Summary





Transbay Transit Center

# BSE Timeline Summary





Transbay Transit Center

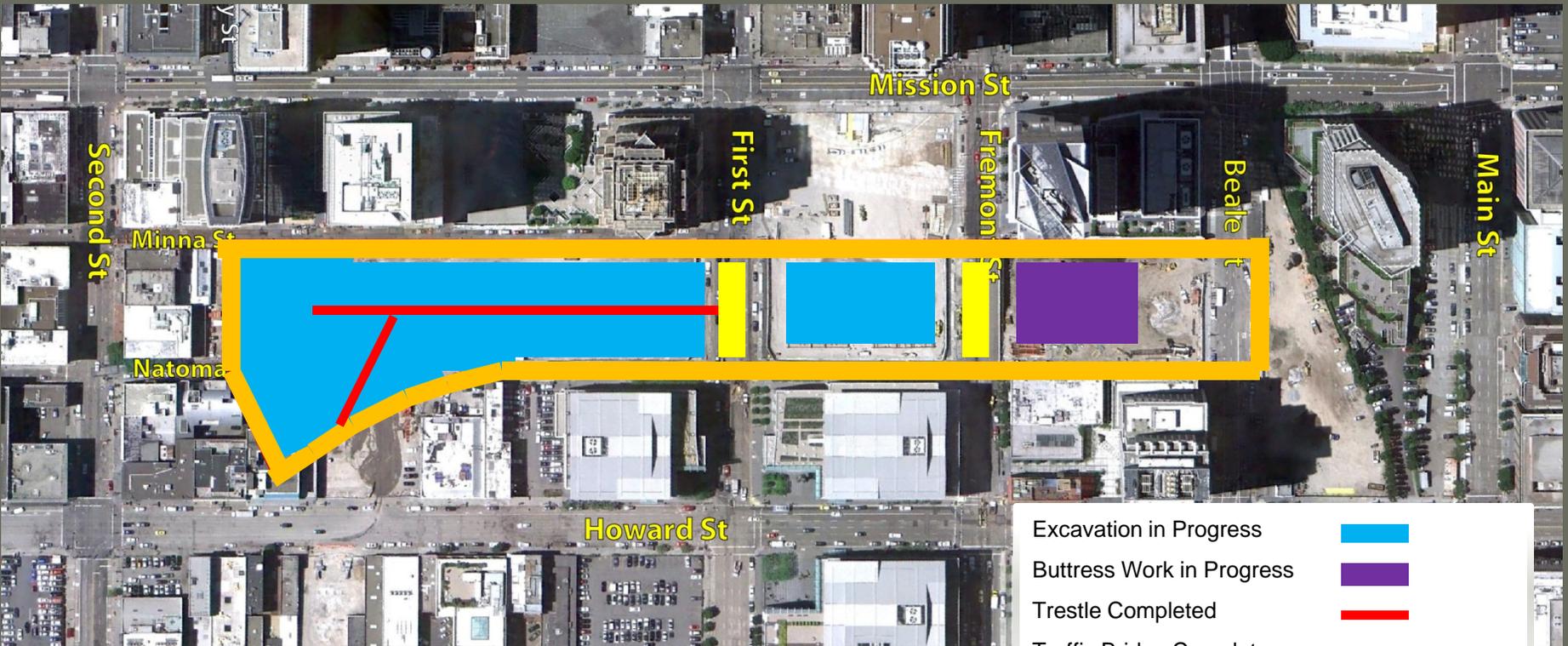
# September 13, 2012 Site Status

2011

2012

2013

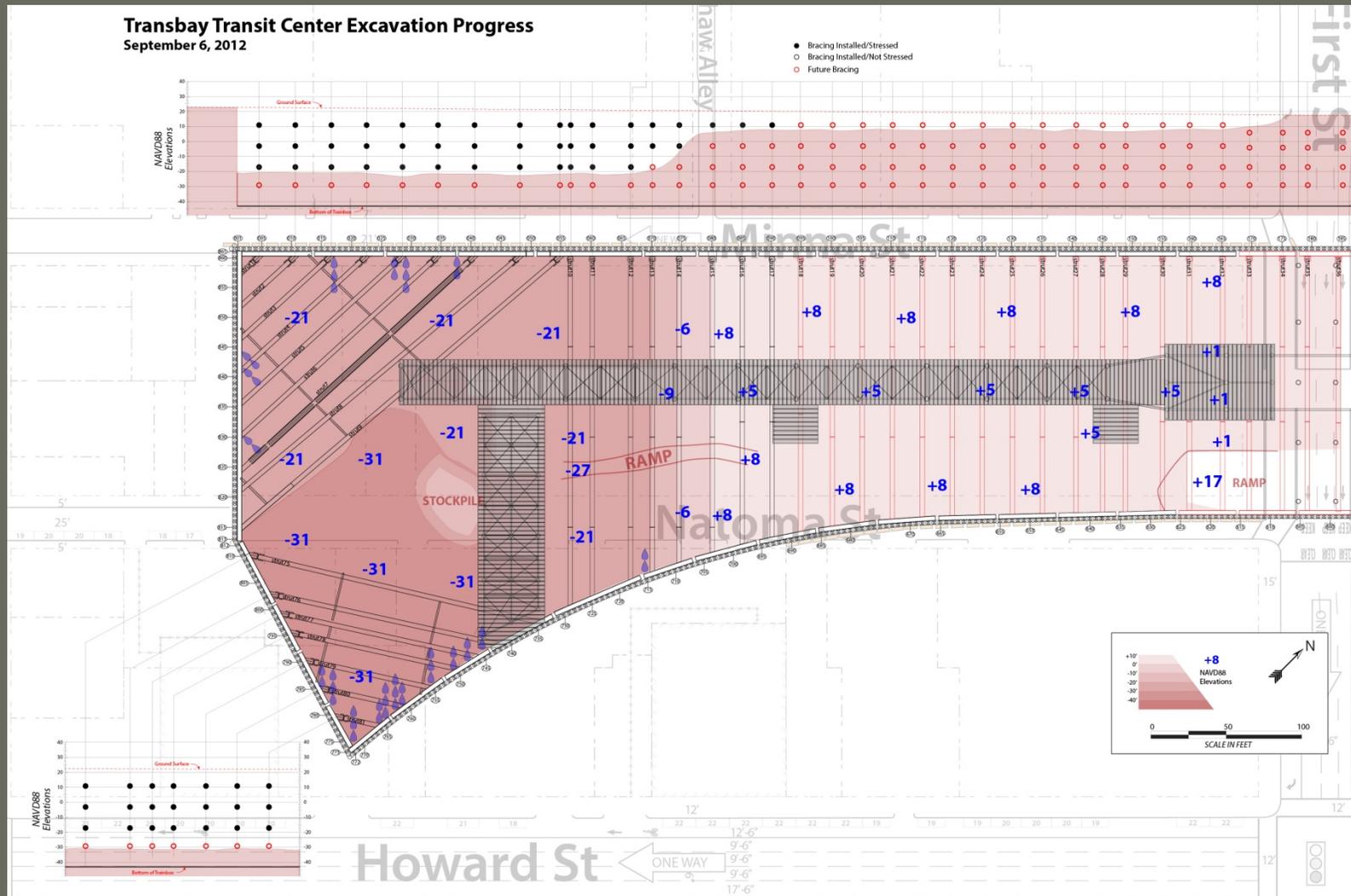
2014





Transbay Transit Center

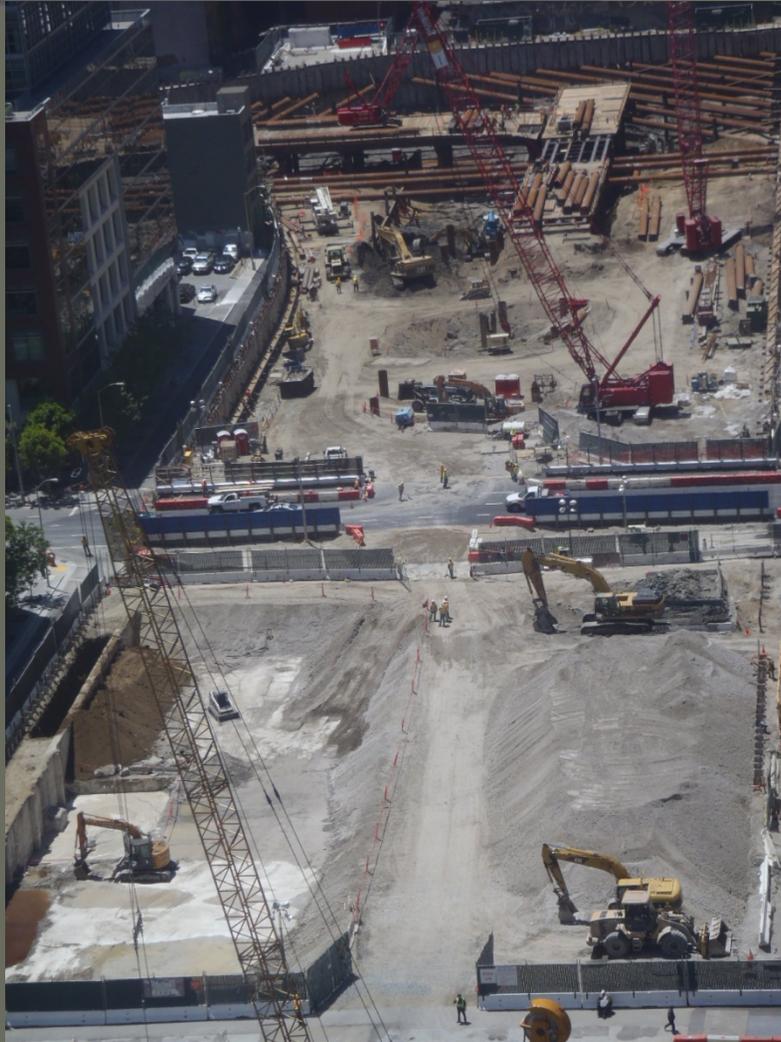
# Excavation and Bracing Status





Transbay Transit Center

# Central and West Sections Progress



End of May 2012



As of September 4, 2012



Transbay Transit Center

## Excavation – Zone 1





Transbay Transit Center

# Internal Bracing and Excavation – Zone 1





Transbay Transit Center

## Access Trestle – Zone 2





Transbay Transit Center

# East Section Progress (Zone 4)



End of May 2012

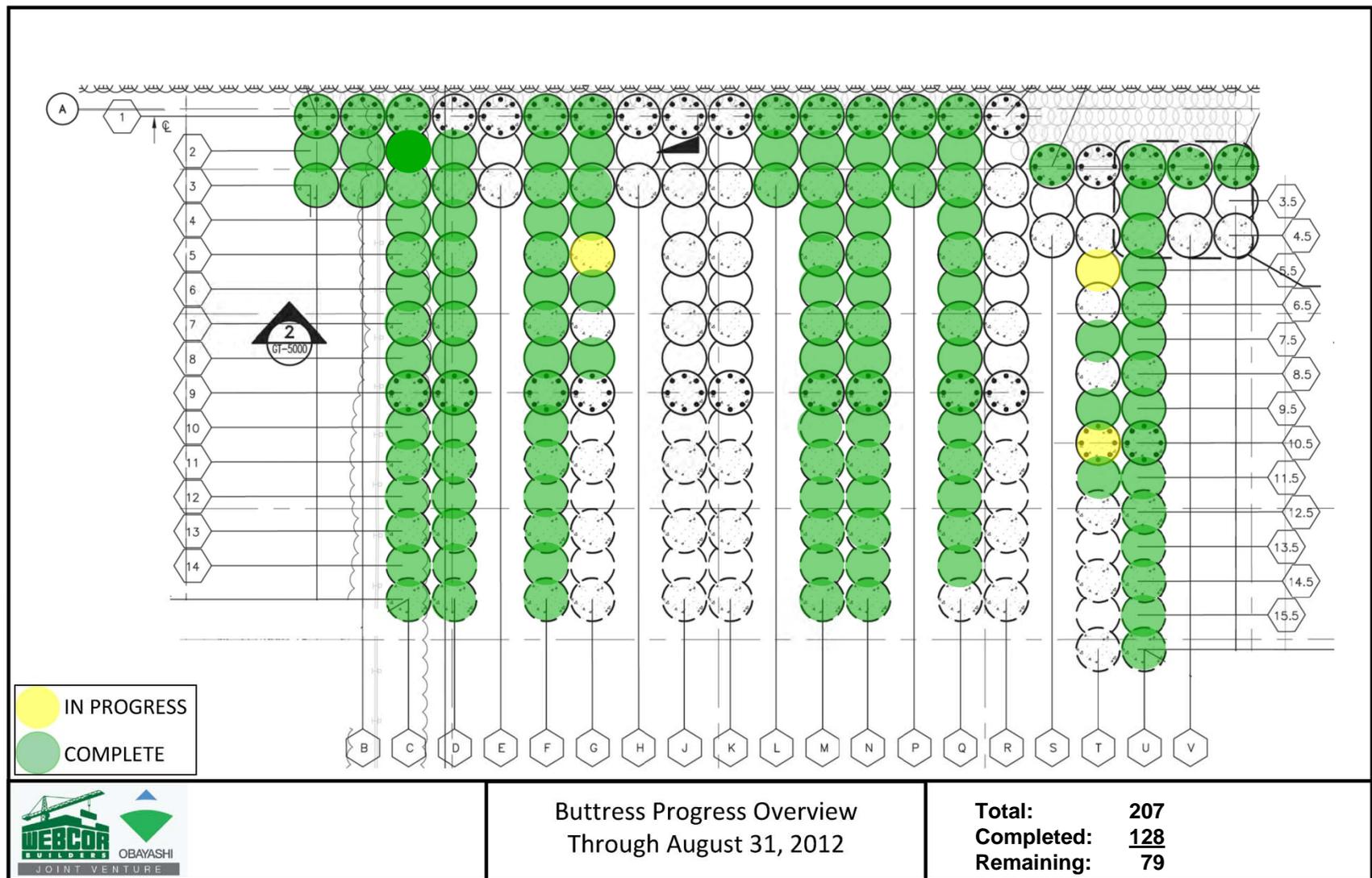


As of September 4, 2012



Transbay Transit Center

# Buttress Progress



Buttress Progress Overview  
Through August 31, 2012

**Total:** 207  
**Completed:** 128  
**Remaining:** 79



Transbay Transit Center

# Buttress Progress





Transbay Transit Center

# Fremont Street – Bridge Installation Preparation





Transbay Transit Center

# Fremont Street – Bridge Installation





Transbay Transit Center

# Fremont Street – Bridge Installation





Transbay Transit Center

# Fremont Street – Bridge Installation Time Lapse

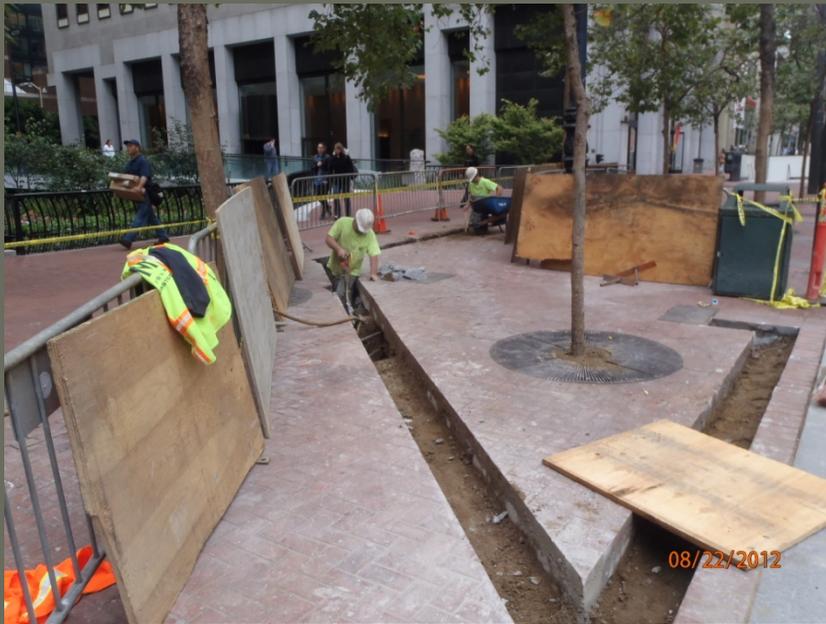


[Link for Time Lapse Video http://youtu.be/XEdhwDjv9uE](http://youtu.be/XEdhwDjv9uE)



Transbay Transit Center

## Utility Relocation - AWSS Installation



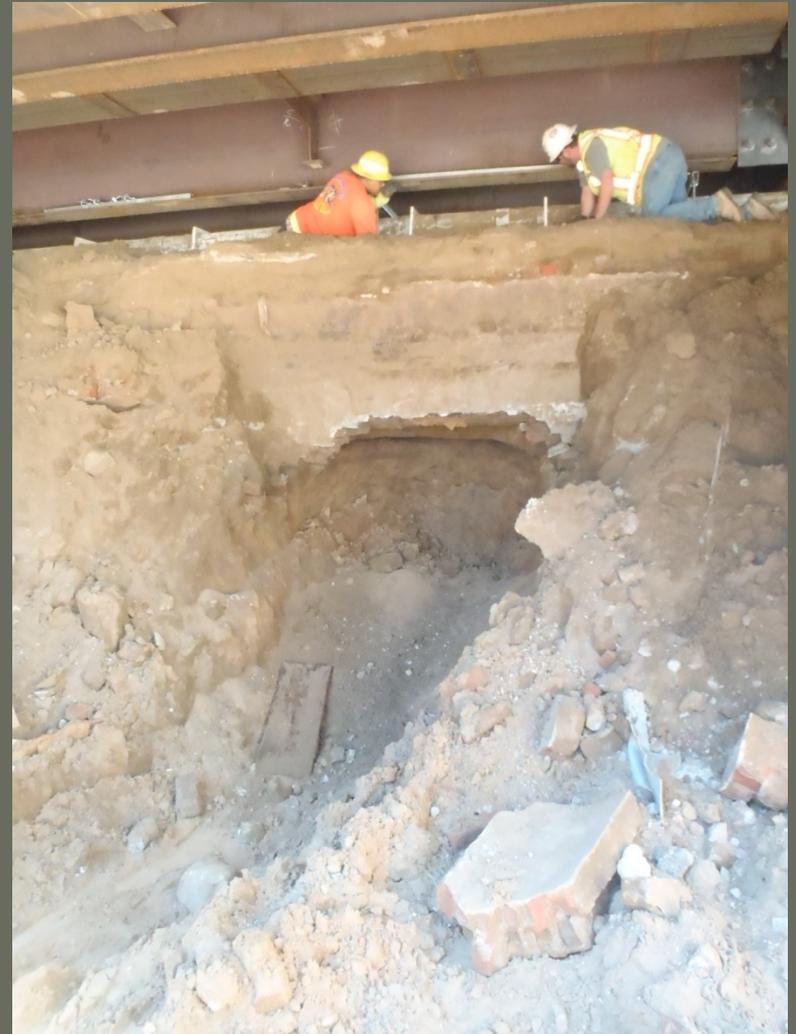


Transbay Transit Center

## Utility Relocation - PG&E Conduit Attached to First Street Bridge



Underside of First Street Bridge





Transbay Transit Center

## Special Event – Governor Brown Visits and Signs HSR Funding Bill





Transbay Transit Center

# Transit Center Construction Budget Status

Trade Package ID And Description	Baseline Budget	Budget Xfer/Chngs	Current Budget	Committed To Date	Actual To Date
TG019.1 - 301 Mission Screen Wall (Transworld Construction)	\$ 663,478	\$ 29,436	\$ 692,914	\$ 692,914	\$ 692,914
TG03: TCB - Buttress, Shoring and Excavation (Balfour Beatty)	\$ 187,251,070	\$ 31,512,652	\$ 218,763,722	\$ 217,837,346	\$ 110,674,963
TG04.1: UR - Natoma/Fremont Water/Sewer (M Squared)	\$ 2,452,000	\$ 93,000	\$ 2,545,000	\$ 2,545,000	\$ 2,342,396
TG04.2: UR - Mission St. AWSS	\$ 5,370,000	\$ -	\$ 5,370,000	\$ 5,370,000	\$ 2,402,585
TG04.3: UR - Howard/First/Beale Water (M Squared)	\$ 1,699,000	\$ 36,834	\$ 1,735,834	\$ 1,663,559	\$ 1,641,559
TG04.4: UR - Natoma/First Sts Water & Sewer (M Squared)	\$ 2,115,000	\$ 214,214	\$ 2,329,214	\$ 2,329,214	\$ 2,229,117
TG04.5.1: UR & Joint Trench - Minna St (Trinet Construction)	\$ 4,796,301	\$ (505)	\$ 4,795,797	\$ 4,795,797	\$ 4,795,797
TG04.6: UR - Beale St. Sewer (M Squared)	\$ 1,842,000	\$ 158,650	\$ 2,000,650	\$ 2,000,650	\$ 1,682,541
TG05.1 - Survey & Control (Chaudhary)	\$ 1,250,000	\$ -	\$ 1,250,000	\$ 1,250,000	\$ 193,856
TG05.2 - Temporary Power (Bass Electric)	\$ 650,000	\$ -	\$ 650,000	\$ 650,000	\$ 585,000
TG05.4 Traffic Control Services (Sandis)	\$ 2,000,000	\$ -	\$ 2,000,000	\$ 2,000,000	\$ 185,705
TG05.7 - Site Maintenance Services (Clipper)	\$ 5,500,000	\$ -	\$ 5,500,000	\$ 5,500,000	\$ 262,334
TG06.1 - Geothermal Loop (S3H)	\$ -	\$ 1,671,752	\$ 1,671,752	\$ 1,671,752	\$ -
TG06.2 - Grounding System (Bay Area Systems)	\$ -	\$ 168,528	\$ 168,528	\$ 168,528	\$ -
<b>Totals</b>	<b>\$ 215,588,849</b>	<b>\$ 33,884,561</b>	<b>\$ 249,473,411</b>	<b>\$ 248,474,760</b>	<b>\$ 127,688,767</b>



Transbay Transit Center

## Bay Area Labor – Trade Packages

- To date, Webcor / Obayashi's Trade Subcontractors have worked a total of:

431,051 Craft Hours

- To date, Bay Area Labor has contributed 272,461 hours, or 63% of the total Craft Hours.



Transbay Transit Center

# Bay Area Regional Labor Breakdown

Labor by Area	Through August 2012	
Location	Total Hours Completed	Hours Percent
East Bay (Alameda, Contra Costa, Solano)	126,564	29%
North Bay (Marin, Napa, Sonoma)	11,244	3%
South Bay (San Mateo, Santa Clara)	41,258	10%
San Francisco	91,128	21%
Other*	158,590	37%
<b>Totals</b>	<b>431,051</b>	<b>100%</b>

\* Other includes workers from throughout California including the Central Valley as well as workers from out of state who are onsite for specific tasks.



Transbay Transit Center

# Labor Breakdown by Trade through August 2012

Classification	TTC Building and RUP's*
Inspectors – Soils / Material Test	35
Carpenters and Related Trades	24
Cement Mason	12
Electrical – Utility Lineman	14
Electrician	12
Field Surveyor	13
Iron Worker	36
Laborer and Related Trades	349
Operating Engineer	231
Pile Drivers	83
Roofer	2
Sheet Metal	5
Teamsters	86
Tile Setters / Finishers	7
<b>Totals</b>	<b>909</b>

\* Relocation of Utilities Project



Transbay Transit Center

Questions?