



Construction Update

May 20, 2013

Transbay Transit Center

TJPA





Transbay Transit Center

Period Summary

- There were no recordable or lost time incidents or injuries this period. One significant near miss incident involving hoisting equipment.
- There have been over 750,000 craft hours completed, excluding demolition, through April 30, 2013. Over 30,000 completed since the last meeting.
- Overall the excavation work is 72% complete.
- Bracing installation is complete in Zones 1 and 2; work continues in Zone 3. In Zone 3 struts are complete at bracing level A, 85% complete at level B, 70% complete at level C and 5% complete at level D.
- Production micropiles continue in Zone 1 (100% complete) and Zone 2 (61% complete). To date 921 have been installed and grouted. A total of 687 have been tested, all have passed.



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Period Summary

- Demolition of the work slab in Zone 4 is still in progress. The installation of the access trestle support piles is complete. The access trestle installation is in progress.
- Grounding system installation is underway in Zone 1. Three of the five “mud slab” pours in Zone 1 have been completed.
- Zone 1 geothermal piping has been installed and tested in the Field 1 Area.
- RUP 4.2, the AWSS Work, continued this period on Mission Street and will continue through September 2013. Work is complete from west to east between Second and First Streets. Work is underway in the intersections of Second and First Streets.



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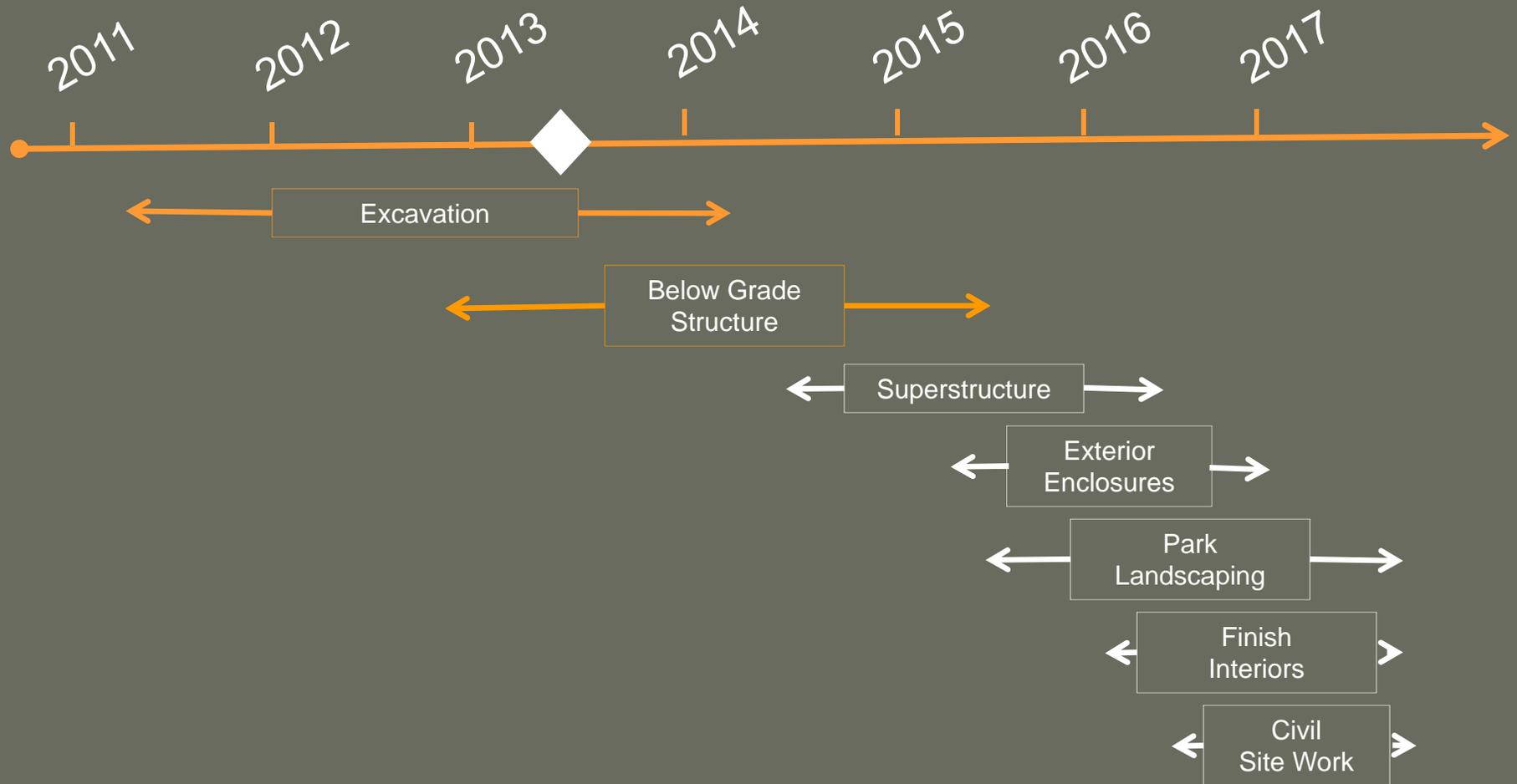
Construction The Next 90 Days

- Complete all concrete mud slab pours in Zone 1.
- Start Zone 1 waterproofing and protection slab installation.
- Start installation of reinforcing steel and complete the first Zone 1 area structural mat slab pour.
- Grounding and Geothermal work will complete in Zone 1 and begin in Zone 2.
- Complete production micropiles in Zone 2 and begin installation in Zone 3.
- Complete Zone 3 Excavation.
- Complete demolition of buttress through level A and start installation of level A bracing in in Zone 4.
- Install Beale Street PG&E duct bank under the traffic bridge.



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Construction Timeline Summary





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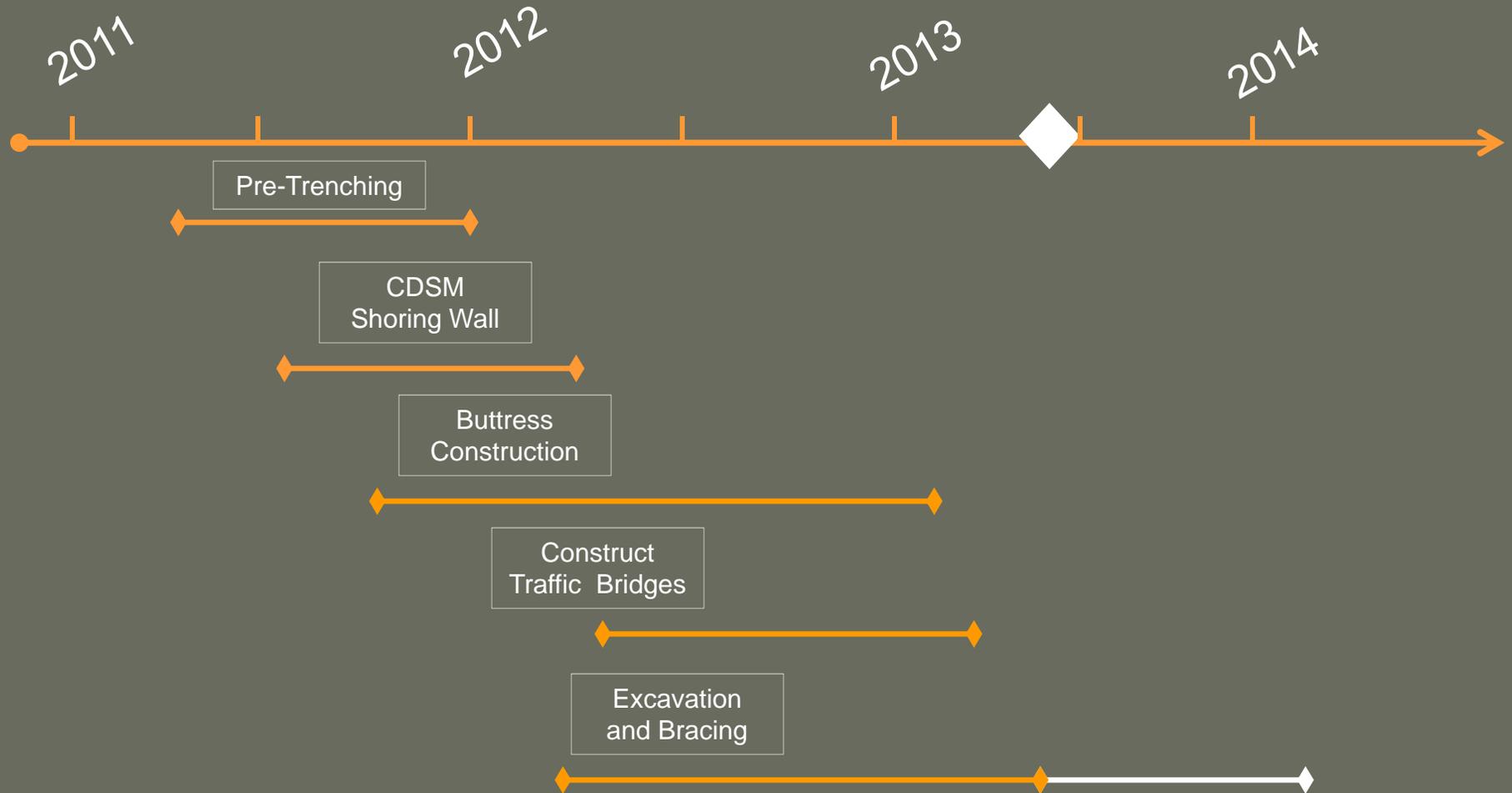
Construction Milestones

Key Schedule Dates	2011 Baseline Schedule	March 2013 Update	Current Float
Install Final Traffic Bridge	Mar-13	Apr-13	22
Complete Utility Relocations	Jul-13	Sep-13	999
Complete First Mat Pour	Jul-13	Jul-13	96
Complete Zone 2 Mat Pour	Aug-13	Sep-13	57
Complete Excavation	Jan-14	Mar-14	0
Complete Zone 1 Concourse Level Deck	Mar-14	Jun-14	96
Begin Steel Erection	Jun-14	Jun-14	0
Complete Steel Superstructure	Nov-15	Sep-15	0
Connect Bus Ramps to Transit Center	May-16	May-16	128
Complete Rough Interiors	Aug-16	Jun-16	35
Complete Exterior Curtain Wall	Feb-17	Feb-17	0
Complete Finish Interiors	Jul-17	Jul-17	7
Begin Bus Operations	Oct-17	Oct-17	0
Final Completion	Mar-18	Apr-18	0



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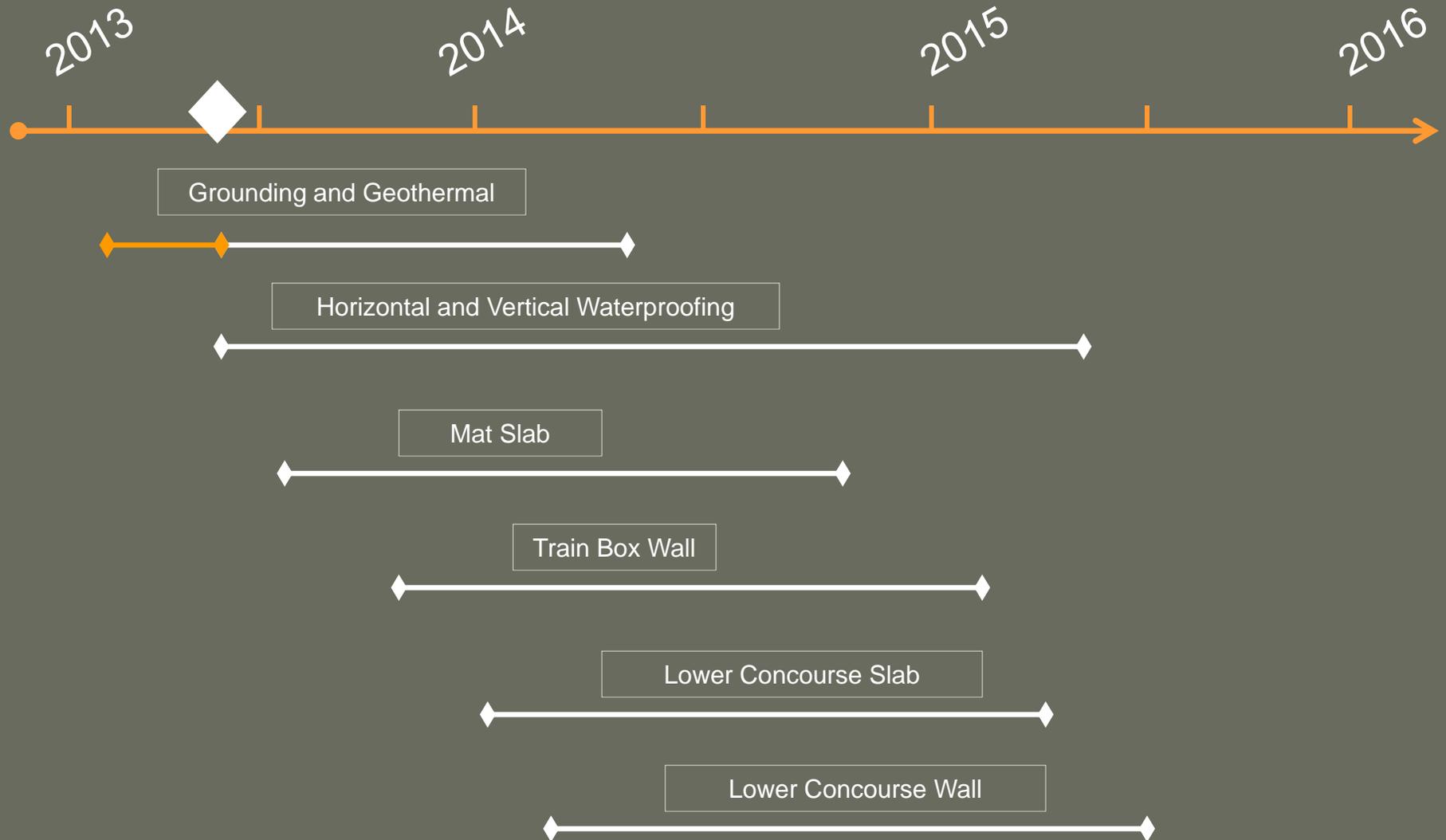
BSE Timeline Summary





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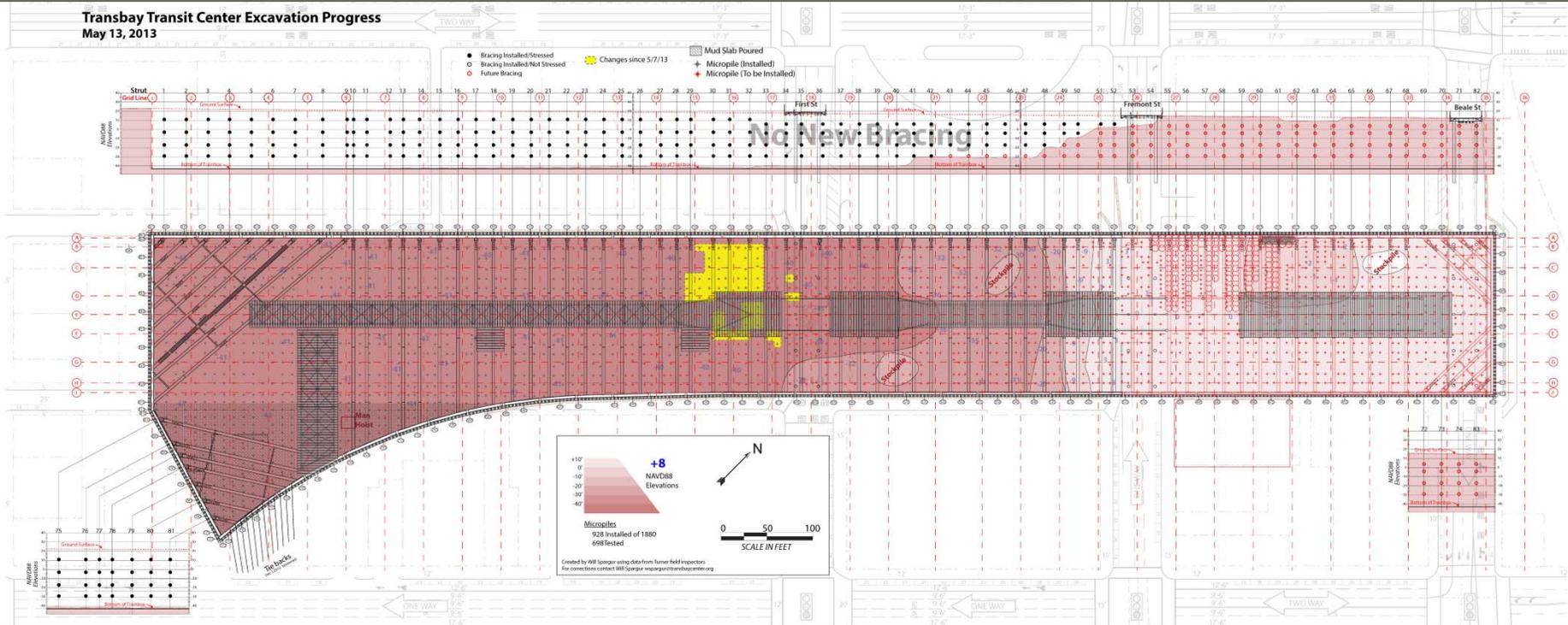
Below Grade Concrete Timeline Summary





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Excavation and Bracing Status All Zones May 13, 2013





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Central and West Sections Progress



April 2013



May 2013



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Micropile Status through May 10, 2013

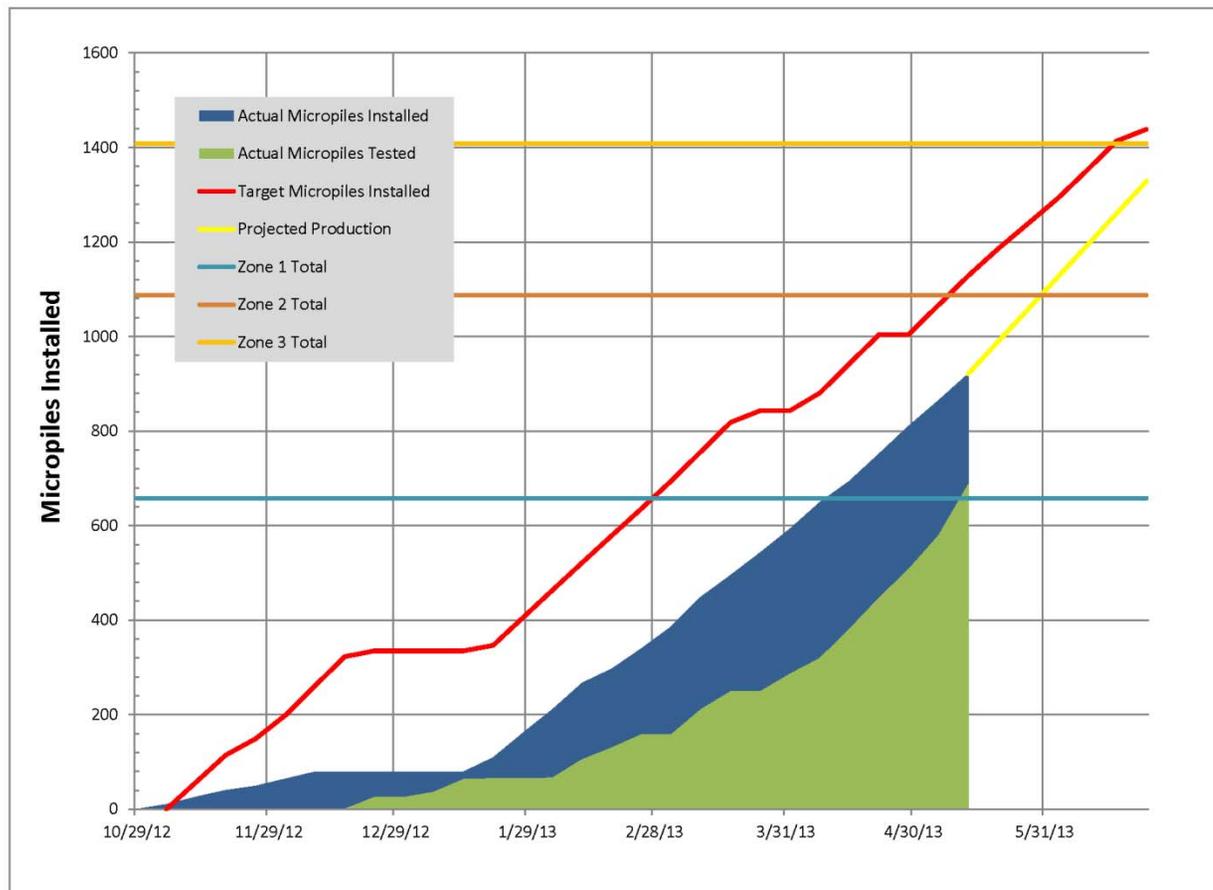
Micropiles	Total	Installed	% Installed	Tested	% Tested
Zone 1	658	658	100%	649	99%
Zone 2	429	263	61%	38	9%
Zone 3	321	0	0%	0	0%
Zone 4	472	0	0%	0	0%
Overall	1880	921	49%	687	37%



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Micropile Status through May 10, 2013

Micropile Installation Production



Date: 5/13/2013



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Micropiles – Zones 1 and 2





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Geothermal Piping – Zone 1





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Subgrade Preparations and Geothermal Piping – Zone 1





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Waterproofing Mock-up





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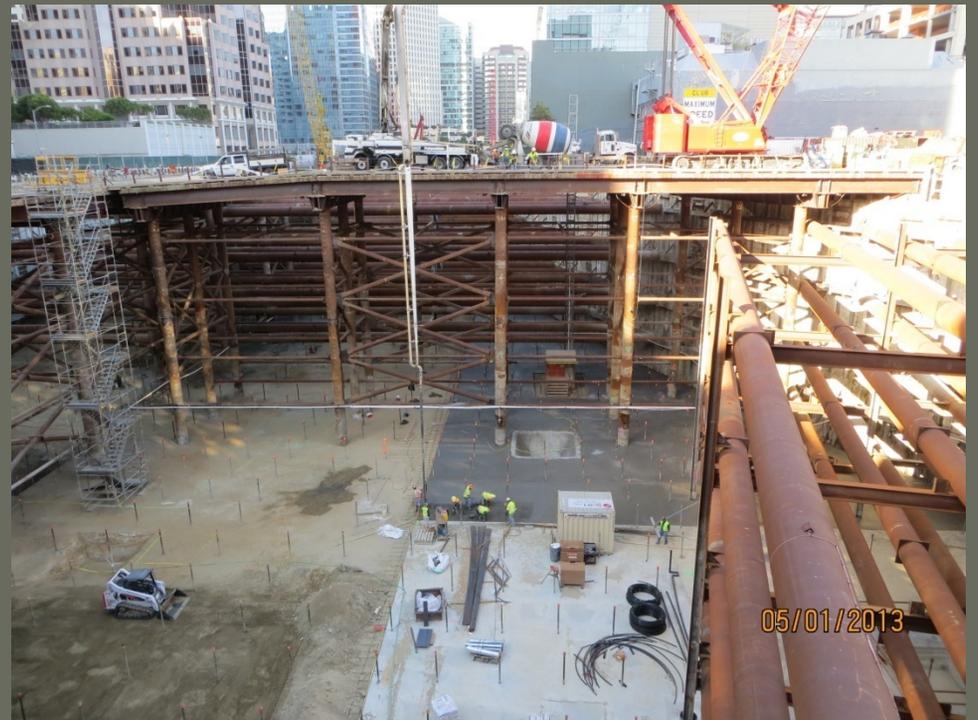
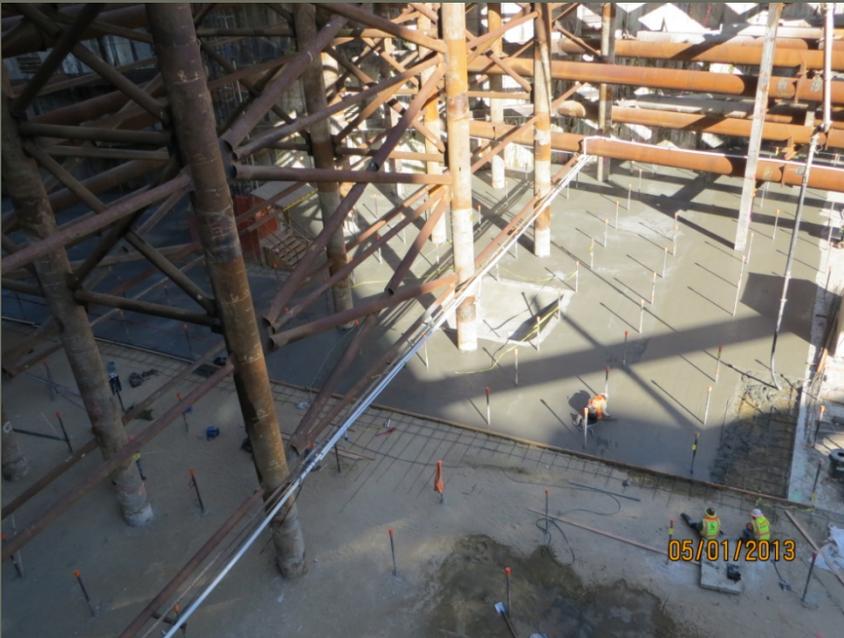
Waterproofing – Zone 1





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Mud Slab – Zone 1





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Excavation and Bracing – Zones 2 and 3





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East Section Progress



April 2013

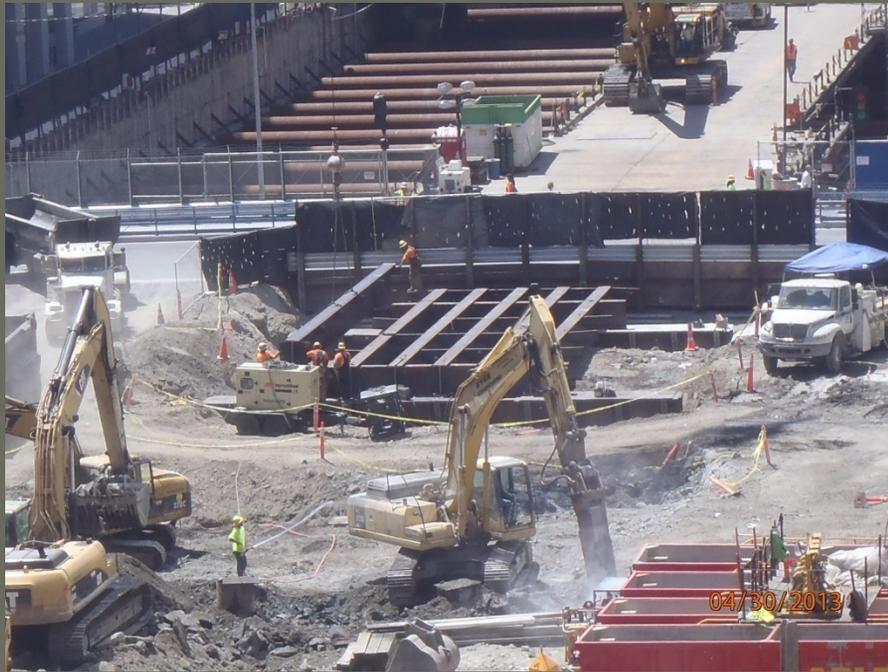


May 2013



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Zone 4 Progress





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Utility Relocation - AWSS Installation Update





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Bay Area Regional Labor Breakdown

Labor by Area	Through April 2013	
Location	Total Hours Completed	Hours Percent
East Bay (Alameda, Contra Costa, Solano)	235,390	31%
North Bay (Marin, Napa, Sonoma)	21,422	3%
South Bay (San Mateo, Santa Clara)	75,908	10%
San Francisco	139,626	19%
Other*	279,189	37%
Totals	751,535**	100%

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

**Total hours are for the Transit Center construction work and do not include the initial Demolition work represented by a total of approximately 55,000 craft hours.



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Labor Breakdown by Trade through April 2013

Classification	TTC Building and RUP's*
Inspectors – Soils / Material Test	38
Carpenters and Related Trades	39
Cement Mason	22
Electrical – Utility Lineman	26
Electrician	25
Field Surveyor	21
Iron Worker	82
Laborer and Related Trades	465
Operating Engineer	290
Pile Drivers	114
Plumber	5
Roofer	7
Sheet Metal	5
Teamsters	156
Tile Setters / Finishers	7
Totals	1,302

* Relocation of Utilities Project



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Questions?