



Construction Update

October 10, 2013

Transbay Transit Center

TJPA



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Period Summary

- There were two minor incidents in September. One was a recordable incident involving a lower back muscle strain resulting in restricted duty. The other was a first aid case involving a bruise to the upper torso. Both workers were placing reinforcing steel. There were no lost time incidents this period.
- There have been over 865,000 craft hours completed, excluding demolition, through September 30, 2013. Over 30,000 completed since the last meeting.
- RUP 4.2, the AWSS Work continued this period. Offset fittings required to complete the First Street intersection were received. First Street to be completed and re-paved by mid-October.



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Period Summary

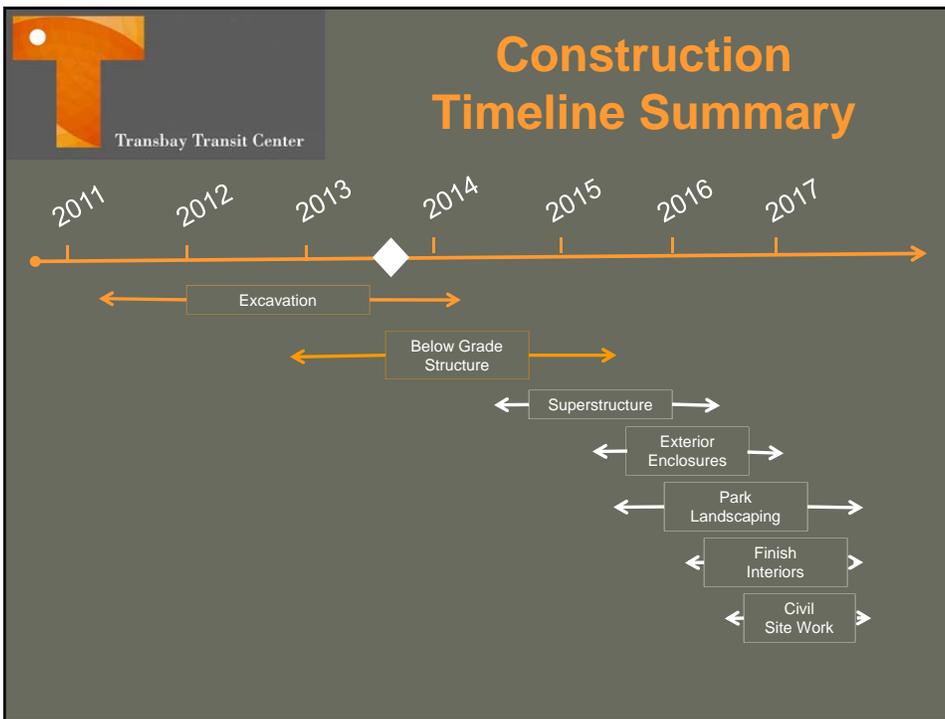
- Overall the excavation work is 87% complete. Bracing installation is complete in Zones 1 and 2; work continues in Zones 3 and 4. In Zone 3 struts are complete at bracing levels A, B and C. At level D bracing is 70%. In Zone 4 struts are complete at bracing levels A and B and 15% complete at level C.
- Grounding, Geothermal and Mud Slab installation has caught up with the excavation and is complete through Zones 1, 2 and approximately 60% of Zone 3. Along with micropiles, this work will re-commence in Zones 3 and 4 in the first quarter of 2014.
- Placed two foundation mat slab sections (areas 1 and 3) in Zone 1 this period.



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Construction The Next 90 Days

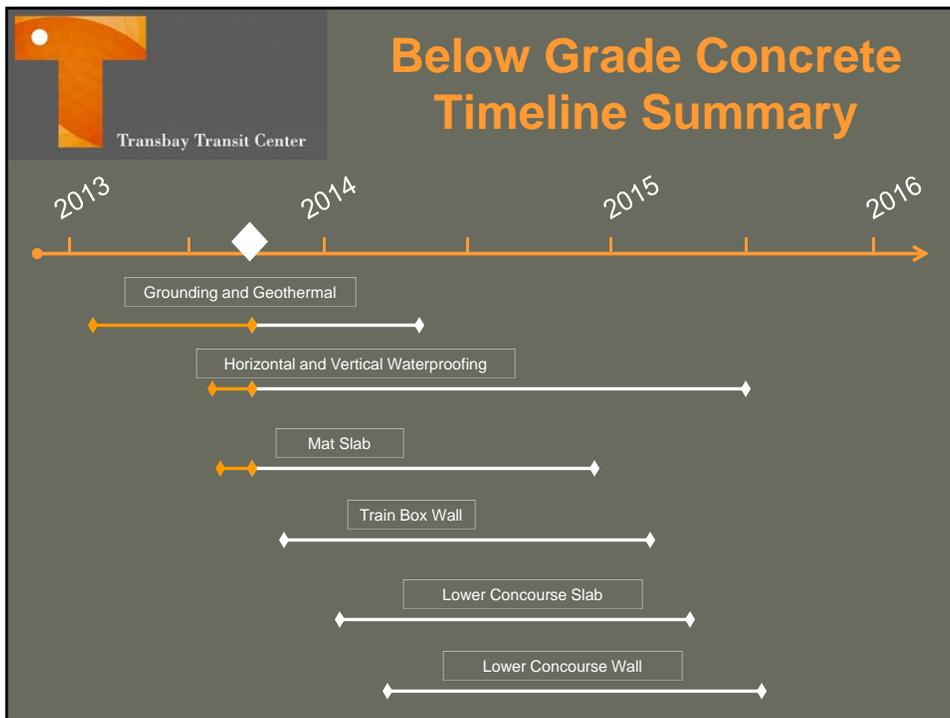
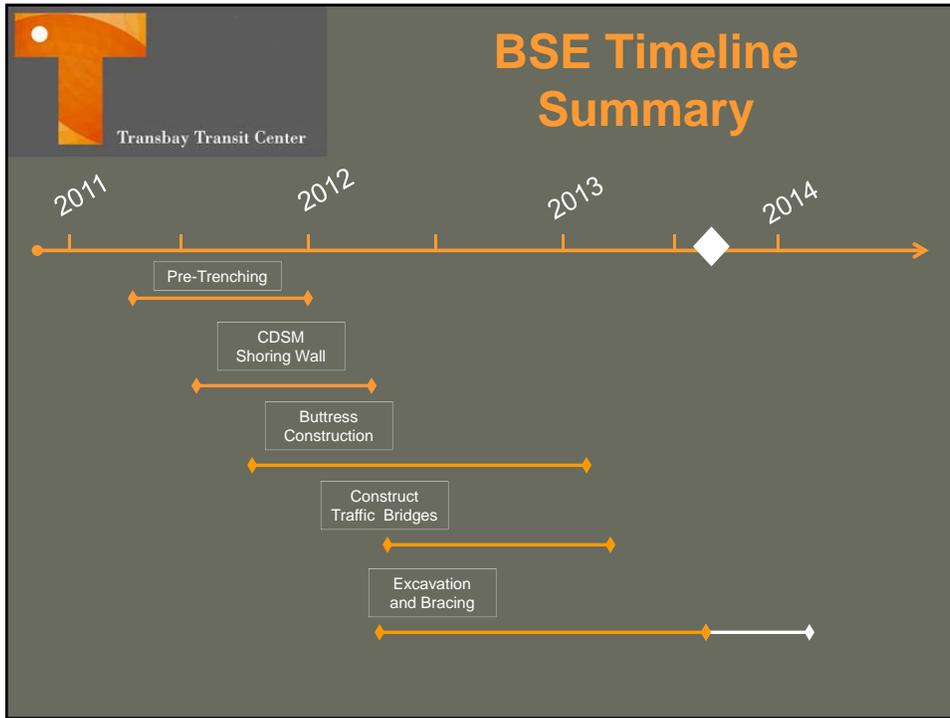
- Next 30 Days (October)
 - Complete Zone 3 and 4 Level C Bracing.
 - Install Beale Street PG&E duct bank under traffic bridge.
 - Start Zone 2 waterproofing and protection slab install.
 - Continue to install reinforcing steel, prep and place Structural Mat Slab sections in Zone 1 (Areas #2, 4, 6) and Zone 2 (Areas #7, 8).
 - Continue Cast Node first article fabrication.
 - AWSS work to begin at Main and Mission Streets.
- In 60 Days (November)
 - Complete demolition of buttress tops through level 4 in Zone 4.
 - Continue to install reinforcing steel, prep and place Structural Mat Slab sections in Zone 1 (Area #5) and Zone 2 (Areas #9, 10).
 - Start foundation walls and re-bracing operation in Zone 1
- In 90 Days (December)
 - Complete Zone 4 Level D Bracing.



Construction Milestones

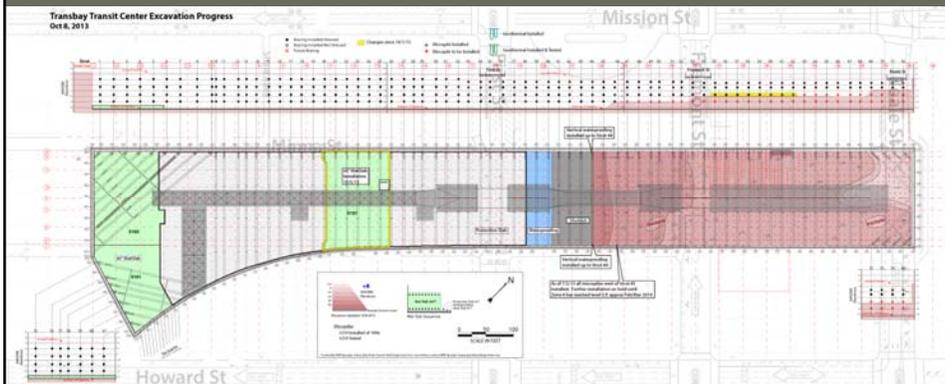
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Key Schedule Dates	Baseline	Sep-13	Float
Complete Utility Relocations	Jul-13	Feb-14	905
Complete First Mat Pour	Jul-13	Sep-13	0
Complete Zone 2 Mat Pour	Aug-13	Nov-13	8
Complete Excavation	Jan-14	Feb-14	45
Complete Zone 1 Concourse Level Deck	Mar-14	Jul-14	16
Begin Steel Erection	Jun-14	Jul-14	0
Complete Steel Superstructure	Nov-15	Nov-15	0
Connect Bus Ramps to Transit Center	May-16	Aug-16	142
Complete Rough Interiors	Aug-16	Jan-17	37
Complete Exterior Curtain Wall	Jan-17	Nov-16	35
Complete Finish Interiors	Jul-17	Aug-17	37
Begin Bus Operations	Oct-17	Oct-17	0
Final Completion	Mar-18	Jan-18	0





Excavation and Bracing Status All Zones October 8, 2013



Central and West Sections Progress



September 2013



October 2013



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Mat Foundation Slab Reinforcing – Zone 1



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Mat Foundation Slab Placement – Zone 1, Area 3





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Mat Foundation Slab Placement – Zone 1, Area 3



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Mat Foundation Slab Reinforcing – Zone 2





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Waterproofing Zones 2 and 3



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Protection Slab – Zones 2 and 3





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East Section Progress



September 2013



October 2013



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Excavation and Bracing – Zones 3 and 4





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Excavation and Bracing – Zones 3 and 4



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Utility Relocation - AWSS Installation Update



Work at First Street Intersection





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Work Begins Next Door with the Demolition of 181 Fremont Street



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Construction Activities Begin at Transit Tower Site





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Contingency Tracking (\$millions)

Trend	Design Contingency	Construction Contingency	CM/GC Contingency	Program Reserve	Escalation	Total Contingency & Reserve
Remaining Baseline Budget Amounts (Aug 2013)	\$8.2	\$60.2	\$36.4	\$87.3	\$30.3	\$222.4
Utility Relocation Change Orders						
BSE Change Orders		(\$.13)				
Below Grade Change Orders						
Design Budget Changes						
Total Draws (Sept 13)	\$0	(\$.13)	\$0		\$0	(\$0.13)
Remaining Balances	\$8.2	\$60.1	\$36.4	\$87.3	\$30.3	\$222.3



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Bay Area Regional Labor Breakdown

Labor by Area	Through September 2013	
	Total Hours Completed	Hours Percent
East Bay (Alameda, Contra Costa, Solano)	277,331	32%
North Bay (Marin, Napa, Sonoma)	27,201	3%
South Bay (San Mateo, Santa Clara)	83,617	10%
San Francisco	157,474	18%
Other*	321,728	37%
Totals	867,351**	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 September 2013

Classification	TTC Building and RUP's*
Inspectors – Soils / Material Test	40
Carpenters and Related Trades	47
Cement Mason	47
Electrical – Utility Lineman	26
Electrician	25
Field Surveyor	26
Iron Worker	158
Laborer and Related Trades	523
Operating Engineer	311
Pile Drivers	128
Plumber	13
Roofer and Waterproofer	25
Sheet Metal	5
Teamsters	166
Tile Setters / Finishers	7
Water Well Driller	9
Totals	1,556

* Relocation of Utilities Project



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Questions?