



CAC

Construction Update

February 11, 2014

Transbay Transit Center

TJPA





Period Summary

- A lost time incident occurred on February 6th. Prior to this incident there was a recordable incident in November involving two lacerated fingers.
- Since our last construction update the micropile work re-started in the eastern portion of the project. All zone 3 micropiles are now complete with 50% complete in zone 4.
- There have been over 965,000 craft hours completed, excluding demolition, through January 31, 2014.
- The AWSS Work continues. In order to coordinate with SFMTA – MUNI, the AWSS work continues to proceed at night along Mission Streets and will continue westward through June.



Period Summary

- All bracing installation and mass excavation has been completed. There remains approximately 500 cubic yards of material to be removed which includes fine grading and pit excavation.
- Bracing removal and rebracing following wall pours continues in the western area of the project, zones 1 and 2.
- Grounding, Geothermal, Mud Slab, Waterproofing and Protection Slab installation has been completed in all available areas. It has now re-started in zone 3 where micropiles have been completed.
- The initial 9 of 15 mat foundation slab pours have been completed (over 34,000 cyd's of concrete).
- In the western area, zones 1 and 2 Wall and Column placement is underway.



Mass Excavation Completed

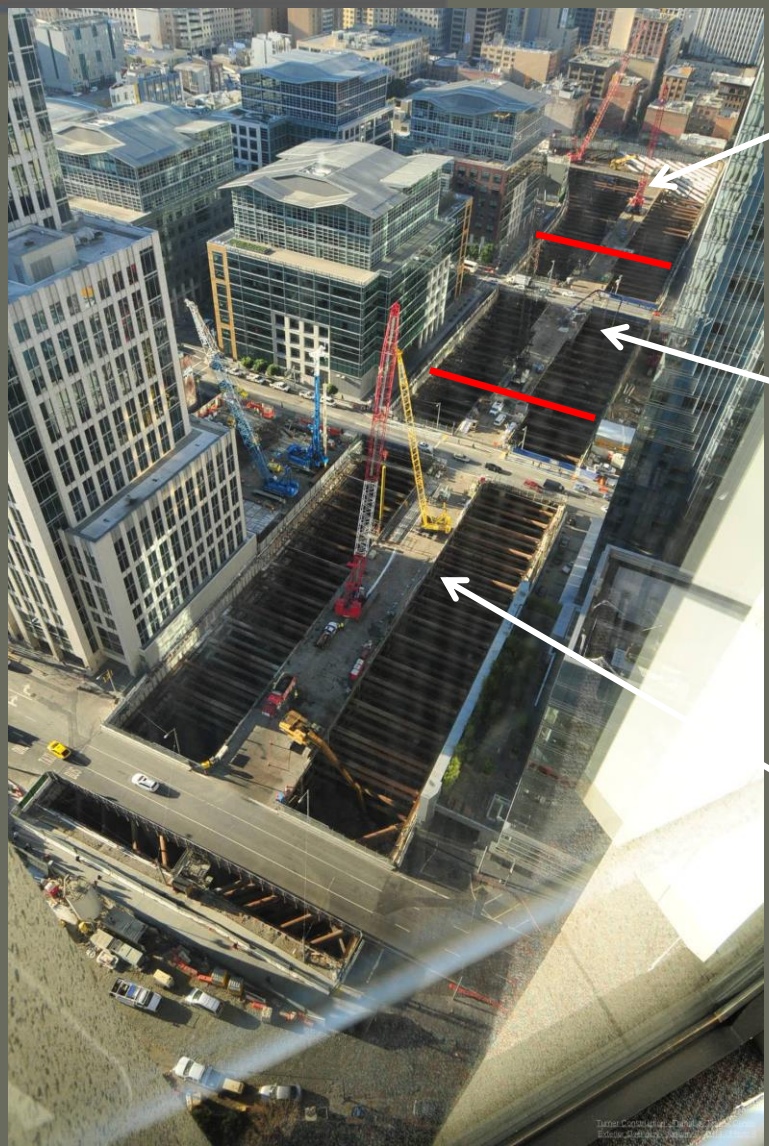
- Over 640,000 cubic yards of material removed.
- Enough material to fill nearly 200 Olympic sized pools.
- Two years time to complete.
- Much of the excavated soil was recycled and used for clean fill





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Current Project Overview



Western Zone – Gridlines 1 to 10

Central Zone – Gridlines 10 to 20

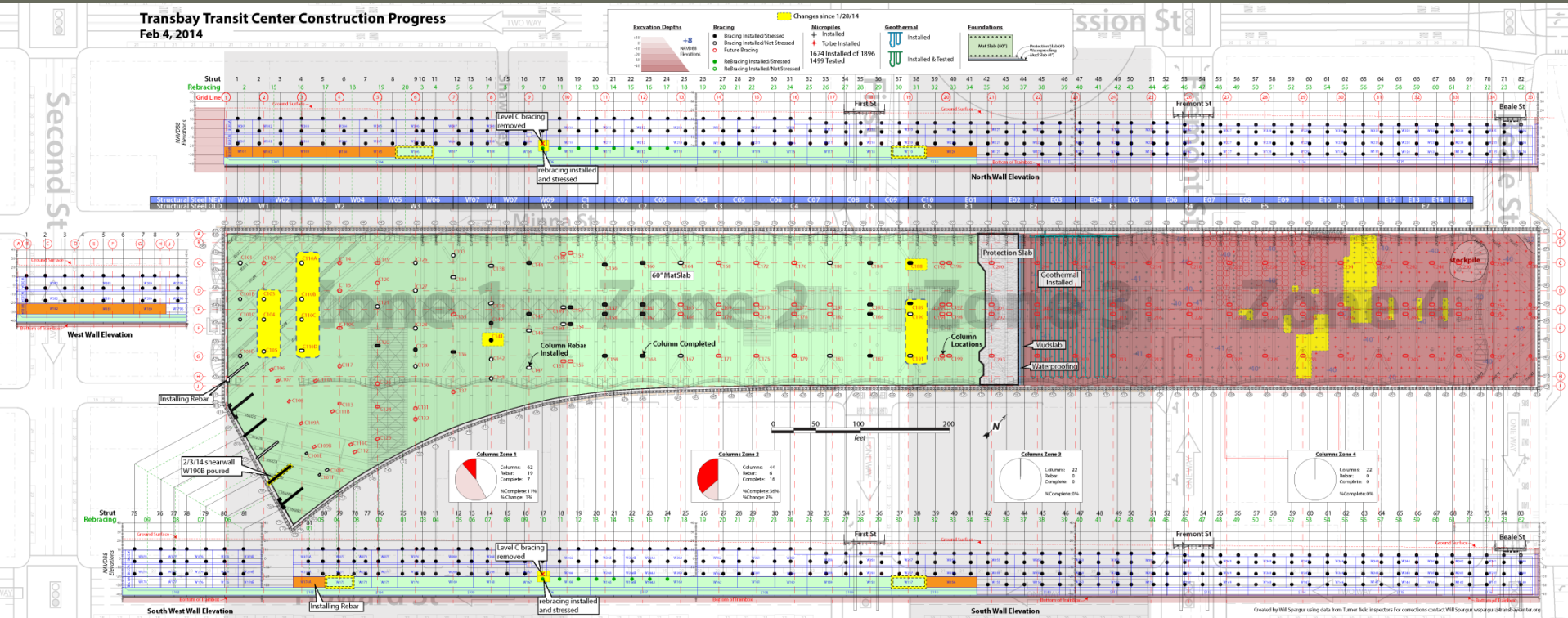
Eastern Zone – Gridlines 20 to 35



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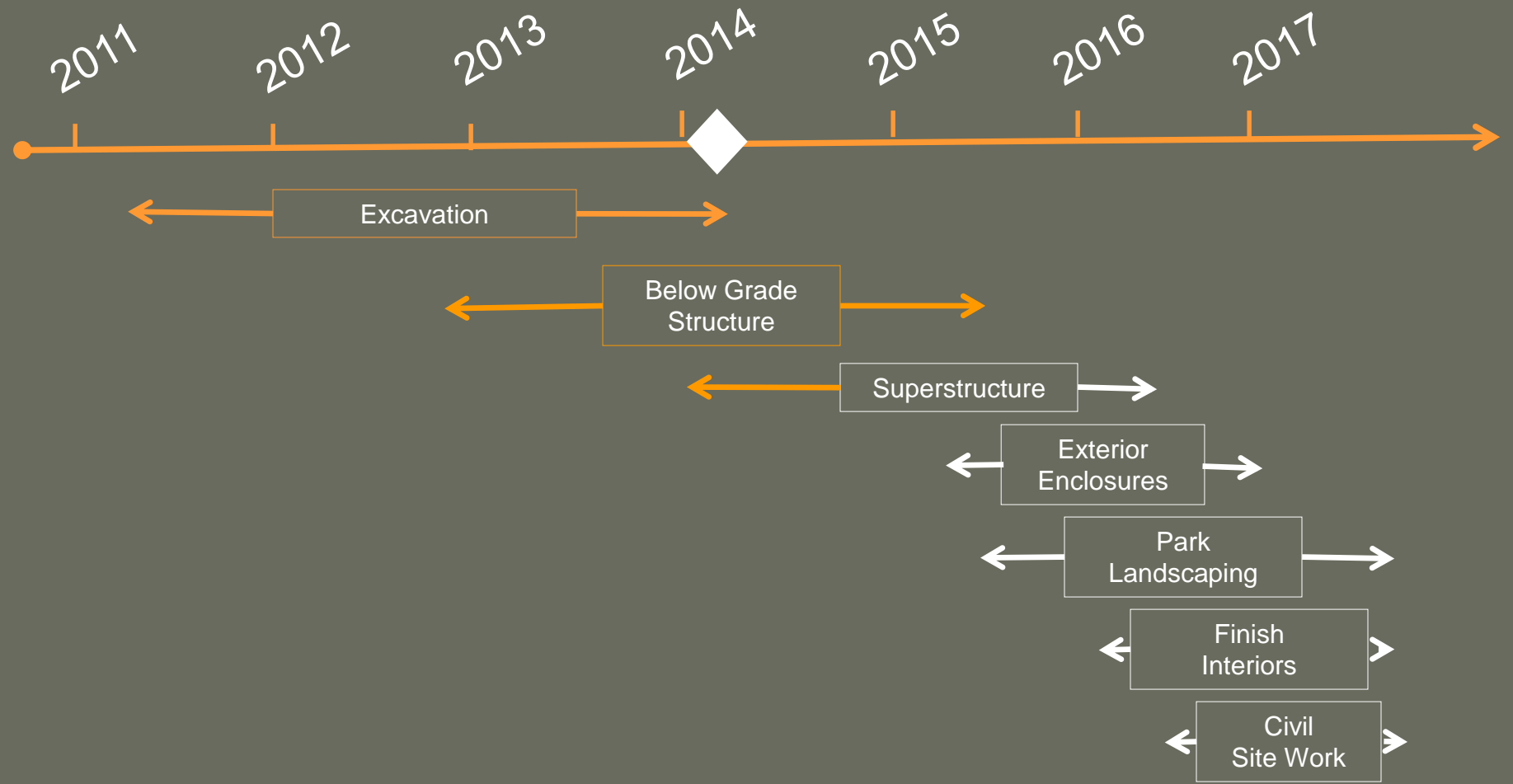
Below Grade Project Status as of February 4, 2014

Transbay Transit Center Construction Progress
Feb 4, 2014





Construction Timeline Summary





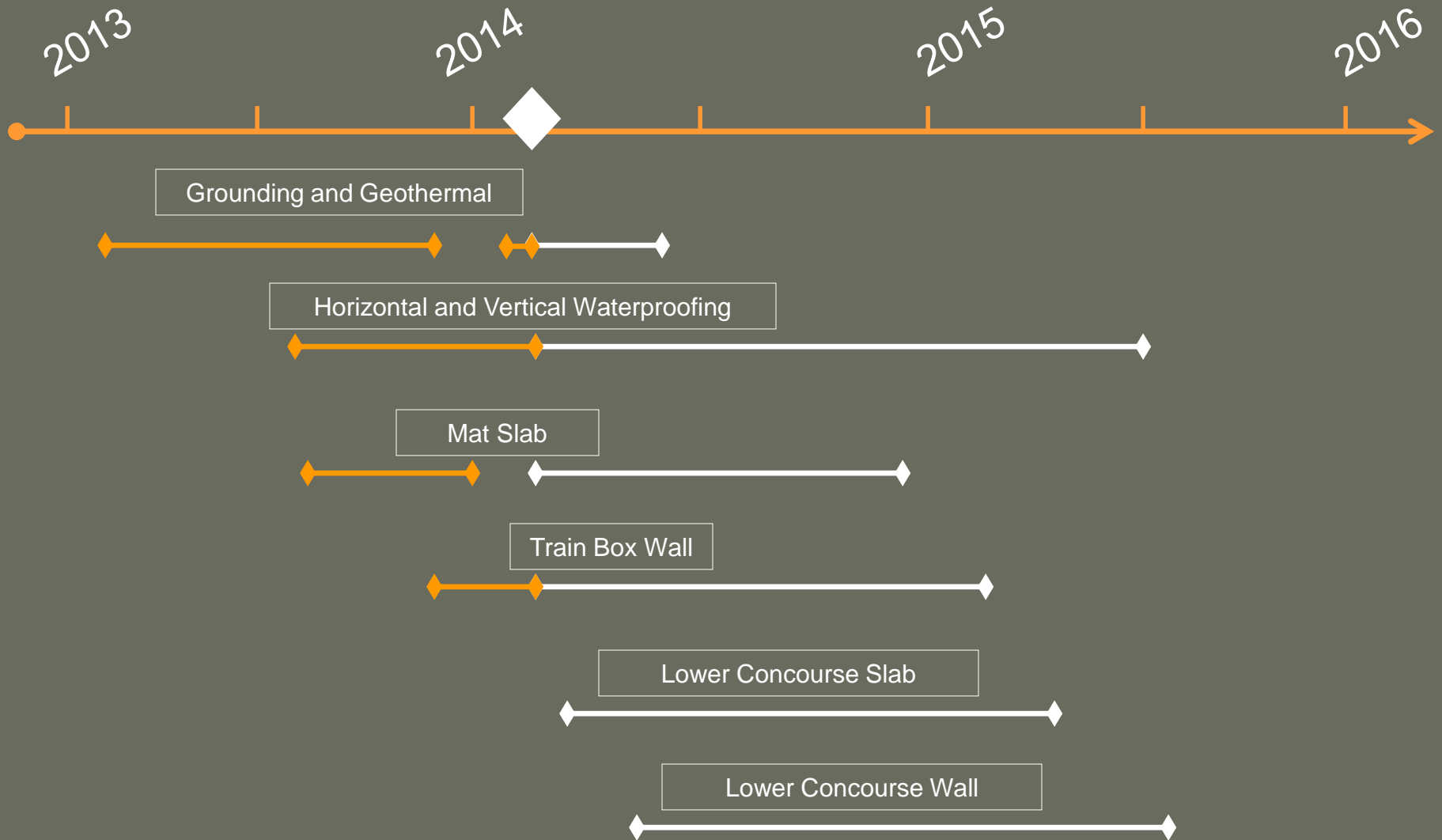
Construction Milestones

Key Schedule Dates	Baseline	25-Nov-13		Float
Complete Utility Relocations	8-Jul-13	7-May-14		857
Complete First Mat Pour	8-Jul-13	9-Sep-13	A	
Complete Zone 2 Mat Pour	27-Aug-13	24-Nov-13	A	
Complete Excavation	6-Jan-14	14-Feb-14		72
Complete Zone 1 Concourse Level Deck	7-Mar-14	8-Oct-14		8
Begin Steel Erection	6-Jun-14	18-Jul-14		0
Complete Steel Superstructure	19-Nov-15	1-Dec-15		0
Connect Bus Ramps to Transit Center	1-May-16	25-Aug-16		44
Complete Rough Interiors	17-Aug-16	1-Dec-16		11
Complete Exterior Curtain Wall	5-Jan-17	23-Nov-16		35
Complete Finish Interiors	25-Jul-17	25-Jul-14		11
Begin Bus Operations	23-Oct-17	23-Oct-17		0
Final Completion	28-Mar-18	21-Jan-18		0

A = Actual Completion Date



Below Grade Concrete Timeline Summary





Western Zone Activity (zones 1 and 2)

Re-bracing in progress



Wall reinforcing steel





Western Zone Activity (zones 1 and 2)



Wall reinforcing, northwest corner





Central Zone Activity (zones 2 and 3)



Final Mat Slab pour of first group





Transbay Transit Center

Central Zone Activity (zones 2 and 3)

Waler and cross lot
bracing removal





Central Zone Activity (zones 2 and 3)



Column and Wall
formwork in progress



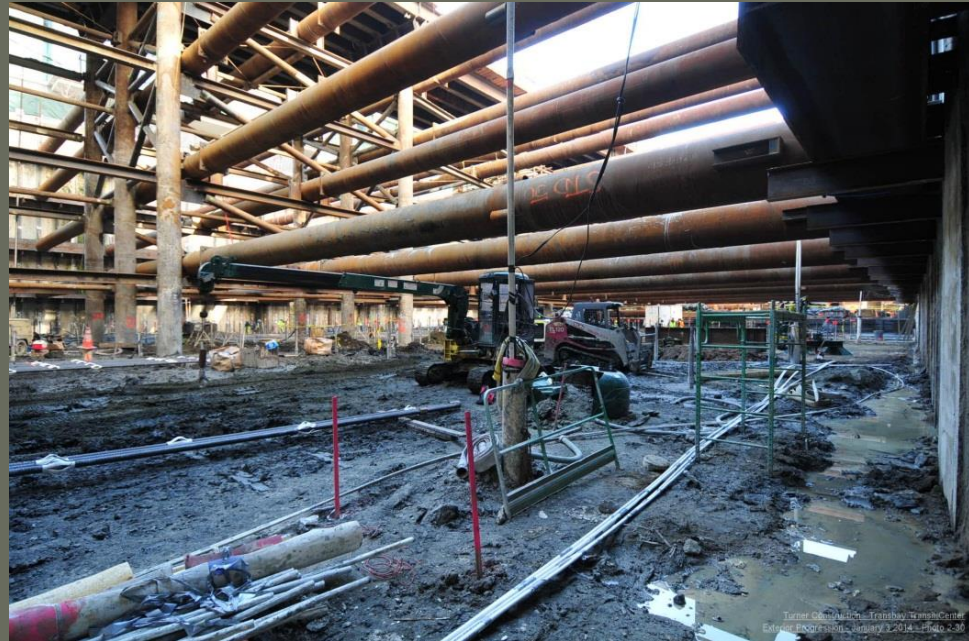


Eastern Zone Activity (zones 3 and 4)

Completing Excavation



Micropiles in Progress





Eastern Zone Activity (zones 3 and 4)



Geothermal in Progress





Cast Node Fabrication as of January 24, 2014

Cast Nodes	Bradken Casting Totals	In-Process Pattern Completion	In-Process Casting Machining	Shipped to Skanska (6 Shipments)
Ground Level	35	9	14	0
Bus Deck Level	75	18	6	0
Roof Level	138	2	12	0
Light Columns	56	19	13	0
Total Cast Nodes	304	48	45	0

Note: The project QA/QC Team is visiting both Bradken Foundries (Kansas and Louisiana) the week of 2/10/14

Cast Node Fabrication

Pattern Development and Molding





Cast Node Fabrication



Heat Treatment

Casting





Cast Node Fabrication

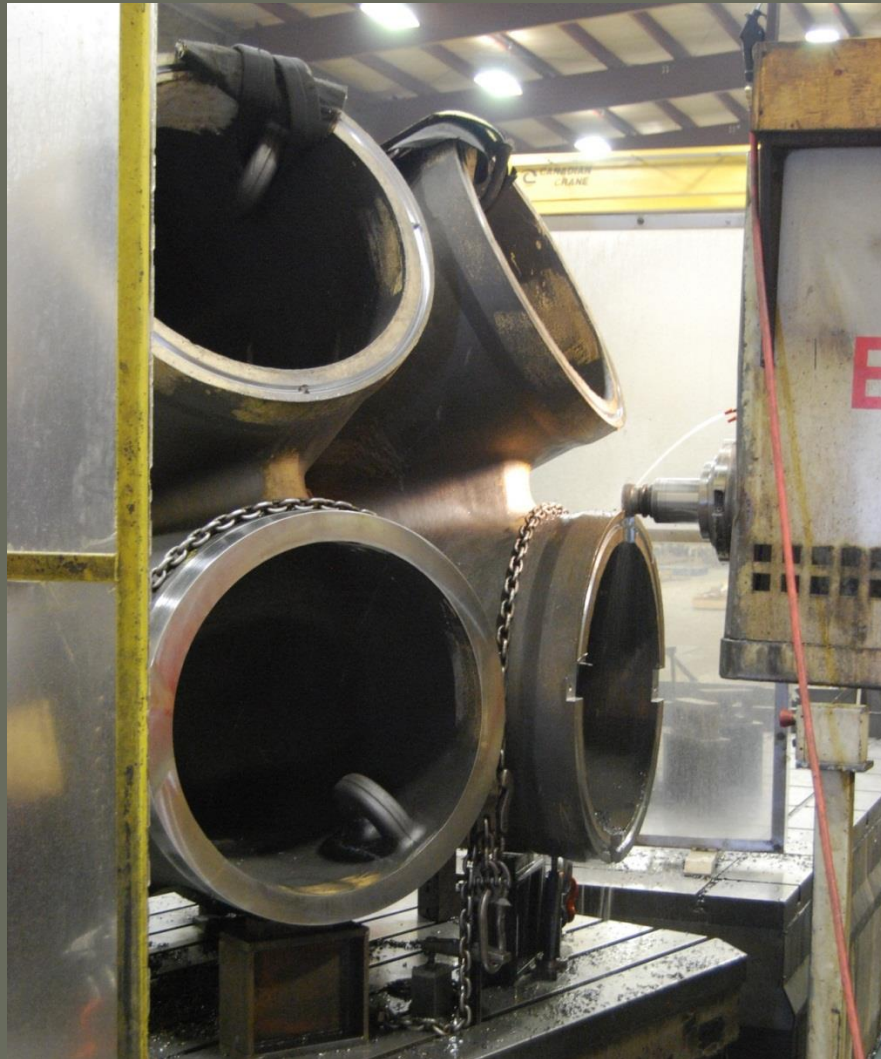


Nodes ready for machining





Cast Node Fabrication



Machining in progress



Utility Relocation - AWSS Installation Update

- AWSS work continues at night to accommodate bus traffic.
- Work continues on Mission Street from working west from Main to Beale Streets.





Construction The Next 90 Days

- Next 30 Days (February)
 - Complete fine grading and pit excavation.
 - Continue foundation walls in Zones 1 and 2.
 - Complete Zone 4 micropiles.
 - Complete Zone 3 grounding and geothermal installation.
 - Continue Cast Node fabrication.
 - Continue AWSS work between along Mission.
 - Begin work on Lower Concourse slab in the western zone.
- In 60 Days (March)
 - Complete Zone 3 mud slab, waterproofing and protection slab installation.
 - Continue Zone 4 micropiles.
 - Continue foundation walls, columns and re-bracing in West & Central zones.
 - Place mat slab 11 in Zone 3
- In 90 Days (April)
 - Continue work on Lower Concourse slab, Zone 2.
 - Pour mat slab 12 in Zone 3.
 - Continue work on walls, column, and lower concourse slab in western zone.



Questions?