



Construction Update

June 2015

Transbay Transit Center

TJPA



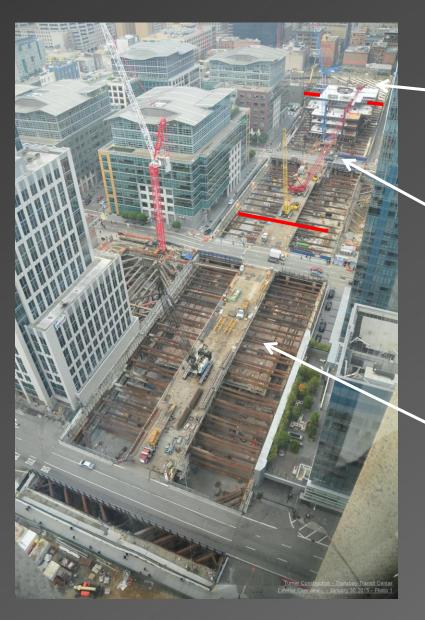


Current Project Overview

Western Zone – Gridlines 1 to 10

Central Zone – Gridlines 10 to 20

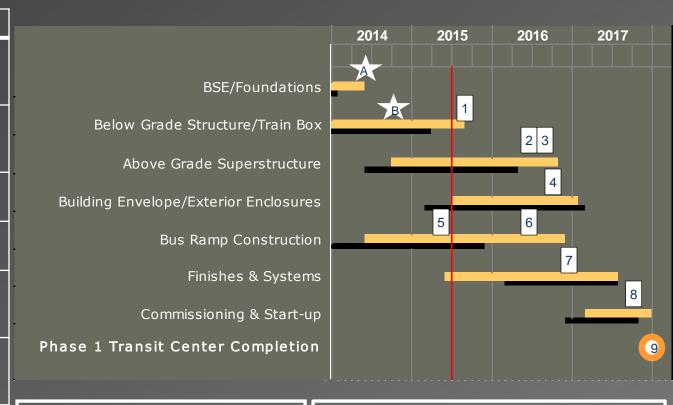
Eastern Zone – Gridlines 20 to 35





Project Status – Schedule

| # | Milestone | Current |
|---|---|------------|
| 1 | Complete TG 6.0 Below Grade Concrete | Q3 2015 |
| 2 | Complete Structural Steel Erection and Welding | Q2 2016 |
| 3 | Complete Above Grade Concrete | Q3 2016 |
| 4 | Building Watertight | Q3 2016 |
| 5 | Complete Bus Ramp Below Grade Concrete | Q2 2015 |
| 6 | Complete Bus Ramp Viaduct and Cable Stay Bridge | Q2 2016 |
| 7 | Permanent Power to Building | Q4 2016 |
| 8 | Building Ready for Bus Driver Training | Q3 2017 |
| 9 | Substantial Completion | Q4 2017 |



* The current critical path of the project is as follows; structural steel fabrication and erection, and wall lift 3 and re-bracing in the eastern zone.

Current Schedule

Baseline Schedule

= Completed Work; A) excavation through "rat" slab installation (re-bracing remains). B) mat foundation slabs.

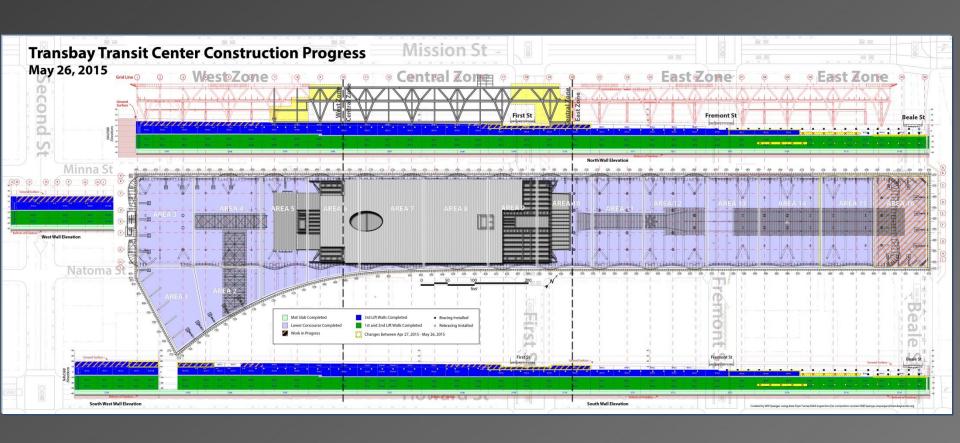
Transbay Transit Center

Project Status – Active Milestones

| # | Milestone | Planned | Actual / Current |
|---|--|------------|-------------------|
| 1 | Complete TG 6.0 Below Grade Concrete | Q3 2015 | Q3 2015 |
| | Milestone Activity Start | March 2013 | Jul 17, 2013 (A) |
| | Milestone Activity Finish | June 2015 | September 2015 |
| | Percent Complete as of May 31, 2015 | 97% | 97% |
| 2 | Complete Structural Steel Erection and Welding | Q1 2016 | Q2 2016 |
| | Milestone Activity Start | July 2014 | Oct. 29, 2014 (A) |
| | Milestone Activity Finish | Dec. 2015 | Apr. 2016 |
| | Percent Complete as of May 31, 2015 | 61% | 34% |



Project Status Diagram





Project Status – Contingency Tracking (\$millions)

| Trend | Design Contingency | Construction Contingency | CM/GC Contingency | Program Reserve | Escalation | Total Contingency & Reserve |
|---|-----------------------|-----------------------------|----------------------|--------------------|------------|-----------------------------------|
| Baseline Budget Amounts (July 2013) | \$8.2 | \$62.5 | \$36.4 | \$87.5 | \$30.3 | \$224.9 |
| Contingency Usage Through April 2015 | (\$3.4) | (\$24.3) | (\$9.2) | (\$80.4) | (\$11.6) | (\$128.9) |
| Remaining Baseline Budget Amounts (April 2015) | \$4.8 | \$38.2 | \$27.2 | \$7.1 | \$18.7 | \$96.0 |
| BSE Change Orders | | | (\$2.5) | | | (\$2.5) |
| Below Grade Structure Change Orders | | | (\$4.8) | | | (\$4.8) |
| Structural Steel/Concrete Change Orders | | (\$0.1) | | | | (\$0.1) |
| Bus Ramp Change Orders | | (\$0.0) | | | | (\$0.0) |
| Trade Package Awards | (\$0.1) | | | (\$1.6) | (\$1.4) | (\$3.1) |
| Total Draws/Adds May 2015 | (\$0.1) | (\$0.1) | (\$7.4) | (\$1.6) | (\$1.4) | (\$10.6) |
| Remaining Balances | \$4.7 | \$38.1 | \$19.8 | \$5.5 | \$17.3 | \$85.4 |



Project Status – Safety Statistics

| | 2010 / 2011 / 2012 | 2013 | 2014 | 2015 (through May 31 st) |
|--|-----------------------|------------------|------------------|---|
| Total Craft Hours by Year | 627,744 | 315,000 | 375,615 | 196,298 |
| Number of Recordable Incidents | 9 | 3 | 13 | 1 |
| Number of Lost Time Incidents | 1 | 0 | 4 | 0 |
| WO Project Annual RIR / National Annual BLS RIR Average / California RIR Average | 2.87 / 3.6 / 3.8 | 1.90 / 3.8 / 4.0 | 6.92 / tbd / tbd | tbd / tbd / tbd |
| WO Project Annual LTIR / National Annual BLS LTIR Average / California LTIR Average | 0.32 / 1.9 / 1.8 | 0.00 / 1.8 / 1.7 | 1.60 / tbd / tbd | tbd / tbd / tbd |

NOTES:

RIR = recordable incident rate, LTIR = lost time incident rate.

These rates are calculated as follows: RIR and LTIR = (# of recordable or lost time incidents for the year X 200,000) / actual hours worked.

^{*} BLS is the Bureau of Labor Statistics, U.S. Department of Labor and State of California, it takes these agencies more than 18 months to produce the statistics after year's end.



Period Summary for May 2015

- There were no recordable or lost time safety incidents this period.
- There have been over 1,500,000 craft hours completed, excluding demolition, through May 31, 2015. This is an increase of over 70,000 hours since our last construction update.
- Steel fabrication continues in all Structural Steel fabrication shops.
 For now, Skanska is still taking advantage of six different fabrication facilities.

- Structural steel has been erected from gridline (GL) 8 to GL 20.
 Welding and decking is in progress from GL 15 to GL 20.
 Deck areas have been turned over to follow on trades between GL 10 to GL 15.
- Structural steel erection with Crane #1 continues and is currently in progress eastward from GL 20. Work over First Street will be completed, including welding and decking, this month. Crane #2, steel erection continues west between GL 8 and GL 5.



Period Summary for May 2015

- In the eastern zone, the final Lower Concourse deck placement occurred on May 30th. Re-bracing and 3rd lift wall concrete placement continues.
- In the western zone, falsework, rebar and concrete work on the vehicle / bike ramp as well as interior partition walls continues. In addition, the first Trainbox Lid (eyebrow portion) pour occurred on June 6th between GL 10 and GL12.
- Above Grade concrete work continues; 4th lift walls are complete between GL 7 and GL 16.

- MEP trades have begun rough-in work on the metal deck at both the ground level and 2nd level between GL 10 and GL 15.
- Stair installation, begun last month, continues between GL 10 and GL 15
- Work on the Bus Ramp / Bridge portion of the project continues. A significant milestone was achieved this period with the start of falsework for the viaduct portion of the work. Falsework began at Bent 2 on the south side of Folsom Street.



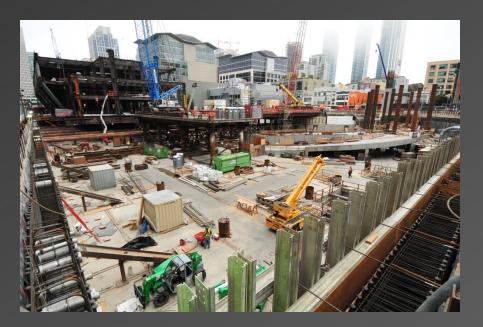
Below Grade Concrete Progress Through May 31, 2015

| Steel Erection Zones | 1st Lift Walls | 1st Lift Walls Poured | 1st Lift Walls Percent | 2nd Lift Walls | 2nd Lift Walls Poured | 2nd Lift Walls Percent | 3rd Lift Walls | 3rd Lift Walls Poured | 3rd Lift Walls Percent |
|----------------------------|-------------------|-----------------------------|------------------------------|-------------------|--------------------------|------------------------------|-------------------|-----------------------------|------------------------------|
| Western | 35 | 35 | 100% | 35 | 35 | 100% | 35 | 35 | 100% |
| Central | 20 | 20 | 100% | 20 | 20 | 100% | 20 | 20 | 100% |
| Eastern | 35 | 35 | 100% | 35 | 35 | 100% | 35 | 18 | 51% |
| Total | 90 | 90 | 100% | 90 | 90 | 100% | 90 | 93 | 81% |

| Steel Erection Zones | Columns | Columns Poured | Columns Percent | Lower Concourse Decks | Lower Concourse Poured | Lower Concourse Percent | 4 th Lift Walls | 4 th Lift Walls | 4 th Lift Walls |
|----------------------------|---------|-------------------|--------------------|-----------------------------|------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| Western | 62 | 62 | 100% | 10 | 10 | 100% | 35 | 9 | 26% |
| Central | 48 | 48 | 100% | 10 | 10 | 100% | 20 | 10 | 50% |
| Eastern | 66 | 66 | 100% | 16 | 16 | 100% | 35 | 0 | 0% |
| Total | 176 | 176 | 100% | 36 | 36 | 100% | 90 | 19 | 21% |



Western Zone Activity



Above Left: View of west end from northwest corner.

Above Right: Ongoing steel erection.

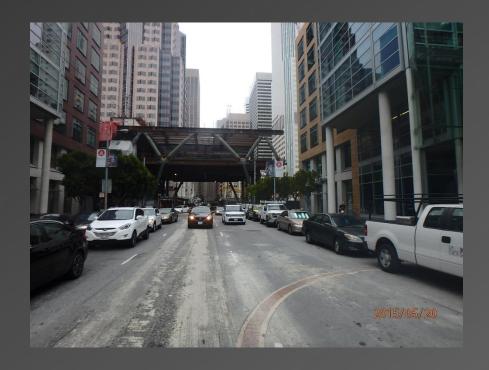
Below Right: Vehicle / bicycle ramps and future temporary support of cable stay bridge.







Central Zone Activity



2015/05/06

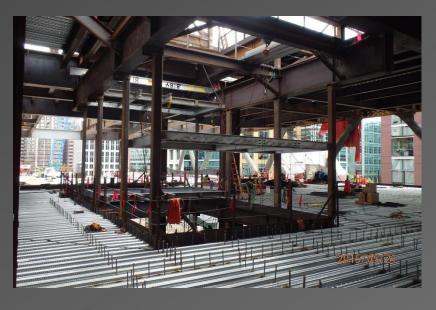
Structural steel erection crossing First Street.





Central Zone Activity





Above: 4th lift wall preparation.

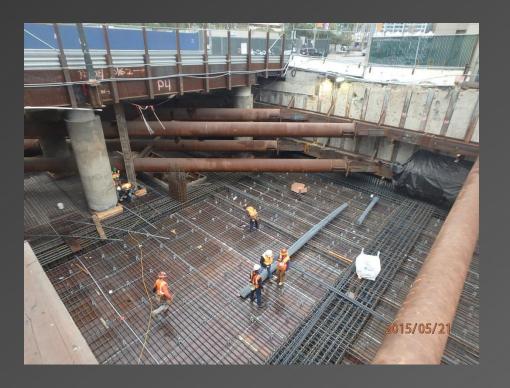
Above Right: Stair installation work continues.

Below Right: Formwork for Train Box lid (eyebrow) concrete placement.

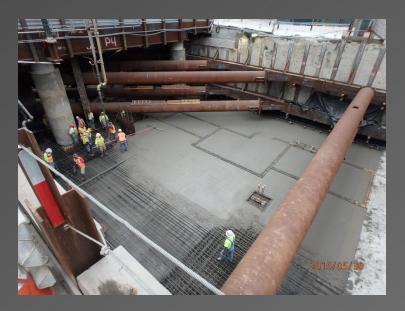


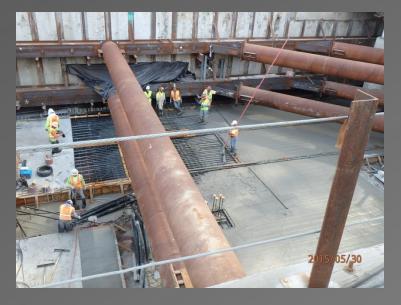


Eastern Zone Activity



Final Lower Concourse concrete placement was May 30, 2015. Bid Package TG 06, Below Grade Concrete, has placed over 98,000 cubic yards of concrete to date.





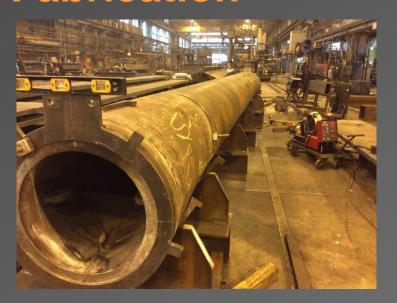


Ongoing Structural Steel Fabrication



Above: Light column ring ready for shipping from XKT in Vallejo.

Above and Below Right: Light column legs in fabrication at XKT in Vallejo.







Cast Node Fabrication as of May 31, 2015

| Casting Group | Totals | Shipments MarMay | Shipment May-June | Shipment August | Shipment September - October | Shipment November - December | Shipment January – April | Total Shipped to Date |
|--|--------|---------------------|----------------------|--------------------|------------------------------------|------------------------------------|-----------------------------|-----------------------------|
| Ground Level - Atchison 19,600 - 46,300 Ibs | 35 | 8 | 6 | 8 | 2 | 0 | 9 | 33 |
| Bus Deck - Amite 9,500 - 22,800 lbs | 75 | 16 | 5 | 10 | 16 | 8 | 20 | 75 |
| Roof Level - Atchison 4,400 - 5,400 lbs | 138 | 32 | 32 | 14 | 24 | 12 | 24 | 138 |
| Light Columns | 56 | 0 | 0 | 8 | 0 | 33 | 15 | 56 |
| Totals | 304 | 56 | 43 | 40 | 42 | 53 | 68 | 302 |

Of the 304 total cast nodes required for the project, a total of 302, or 99%, have shipped. The two remaining nodes (Beale Street, ground level) will ship this month



Bus Ramp and Bridge as of May 31, 2015

Current Status

- All columns have been placed.
- Pylon 9 formwork and concrete placement continues.
- Bent number 8 and the associated columns for the south end of the Cable Stay Bridge were completed.
- Cable Stay Bridge saddle materials are in fabrication.
- Abutments and retaining walls, near Folsom and Harrison Streets, are in progress.
- Falsework submittals were completed and approved this month. Falsework began the first week on June.





Bus Ramp and Bridge



Above: Looking south at Pylon 9 for Cable Stay Bridge.

Right: Start of falsework for Bus Ramp viaduct at Bent 2, south side of Folsom Street.





Construction The Next 90 Days

- Next 30 Days (Jun.)
 - Continue 3rd lift walls and re-bracing in the eastern zone.
 - Continue structural steel fabrication and complete cast node fabrication.
 Ship final cast nodes.
 - Continue Bus Ramp abutment and MSE wall work, above grade concrete and viaduct falsework.
 - Continue structural steel erection and 4th lift wall construction in the western and central zones.
 - Continue MEPF Coordination and rough-in for decks in central zone.
 - Continue stair and ladder fabrication. Continue stair installation.

- Next 60-90 Days (Jul. Aug.)
 - Continue 3rd lift walls and rebracing work in eastern zones.
 - Continue Bus Ramp and Bridge work including falsework, abutments, columns and Pylon 9.
 - Continue structural steel fabrication and delivery.
 - Continue trestle removal and structural steel erection in the western and central zones.
 - Continue installation of stairs and ladders.
 - Continue superstructure concrete in central zone.
 - Continue MEPF deck rough-in of embeds, blockouts and sleeves



Bay Area Regional Labor Breakdown

| | Through May 2015 | | | | |
|--|-----------------------|------------------|--|--|--|
| Location | Total Hours Completed | Percent of Total | | | |
| | | | | | |
| East Bay (Alameda, Contra Costa, Solano) | 556,900 | 37% | | | |
| North Bay (Marin, Napa, Sonoma) | 52,593 | 3% | | | |
| South Bay (San Mateo, Santa Clara) | 137,900 | 9% | | | |
| San Francisco | 259,752 | 17% | | | |
| Other* | 507,512 | 34% | | | |
| | | | | | |
| Totals | 1,514,657** | 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.



Bay Area Regional Apprentice Hours Breakdown

| | Through May 2015 | | | |
|--|-----------------------|------------------|--|--|
| Location | Total Hours Completed | Percent of Total | | |
| | | | | |
| East Bay (Alameda, Contra Costa, Solano) | 77,935 | 30% | | |
| North Bay (Marin, Napa, Sonoma) | 13,004 | 5% | | |
| South Bay (San Mateo, Santa Clara) | 33,674 | 13% | | |
| San Francisco | 75,417 | 29% | | |
| Other* | 58,907 | 23% | | |
| | | | | |
| Totals | 258,937* | 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.



Labor Breakdown by Trade through May 2015

| Classification | TTC Building and RUP's* |
|------------------------------------|-------------------------|
| Inspectors – Soils / Material Test | 43 |
| Carpenters and Related Trades | 233 |
| Cement Mason | 78 |
| Electrical – Utility Lineman | 28 |
| Electrician | 55 |
| Field Surveyor | 38 |
| Iron Worker | 622 |
| Laborer and Related Trades | 748 |
| Operating Engineer | 452 |
| Pile Drivers | 200 |
| Plumber | 26 |
| Roofer and Waterproofer | 40 |
| Sheet Metal | 5 |
| Teamsters | 178 |
| Tile Setters / Finishers | 7 |
| Water Well Driller | 9 |
| Totals | 2,762 |

^{*} Relocation of Utilities Project



Questions?

