



Construction Update

October 2016

Transbay Transit Center



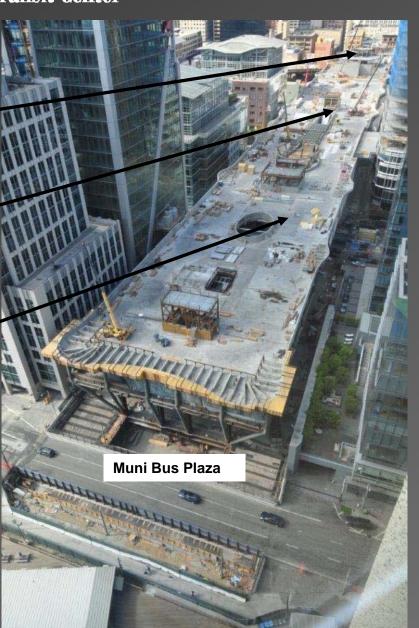


Transbay Transit Center

Western Zone
Gridlines 1 to 10

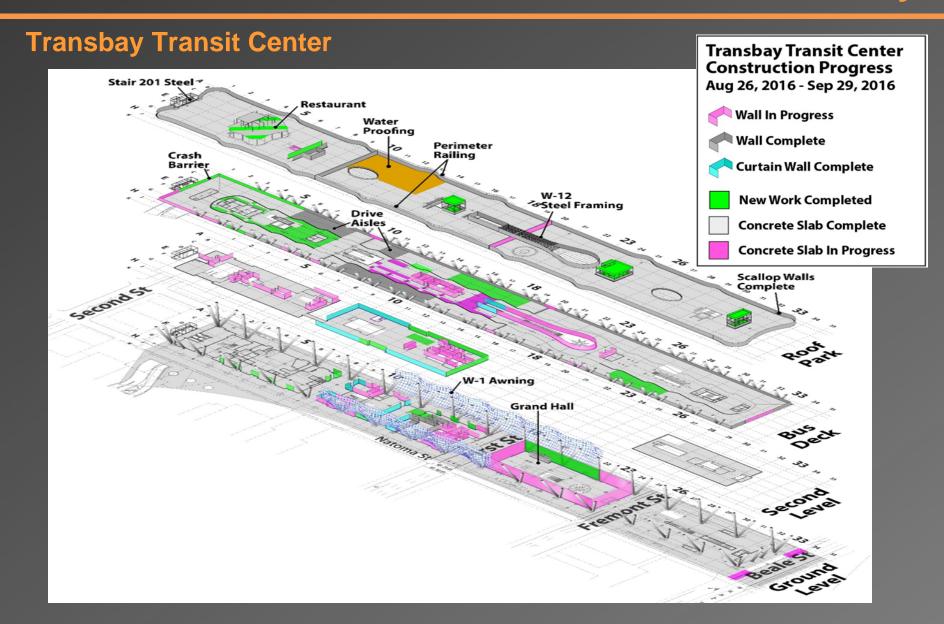
Central Zone
Gridlines 10 to 20

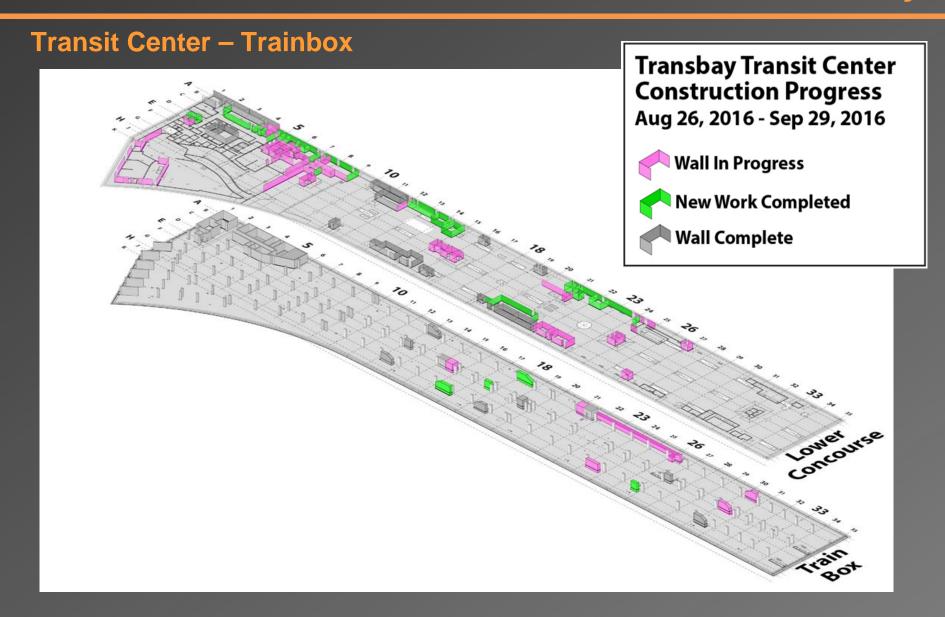
Eastern Zone
Gridlines 20 to 35

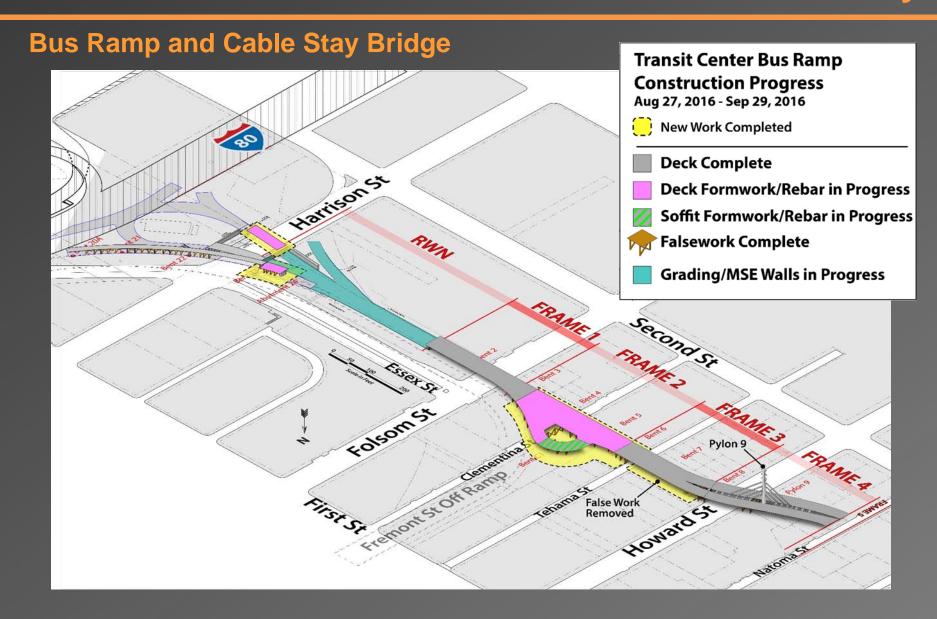


Project Overview

- 1. Recent Activity
- 2. Upcoming Activity
- 3. Safety & Labor Statistics
- 4. Budget Overview
- 5. Contingency Cost
- 6. Schedule
- 7. Challenges

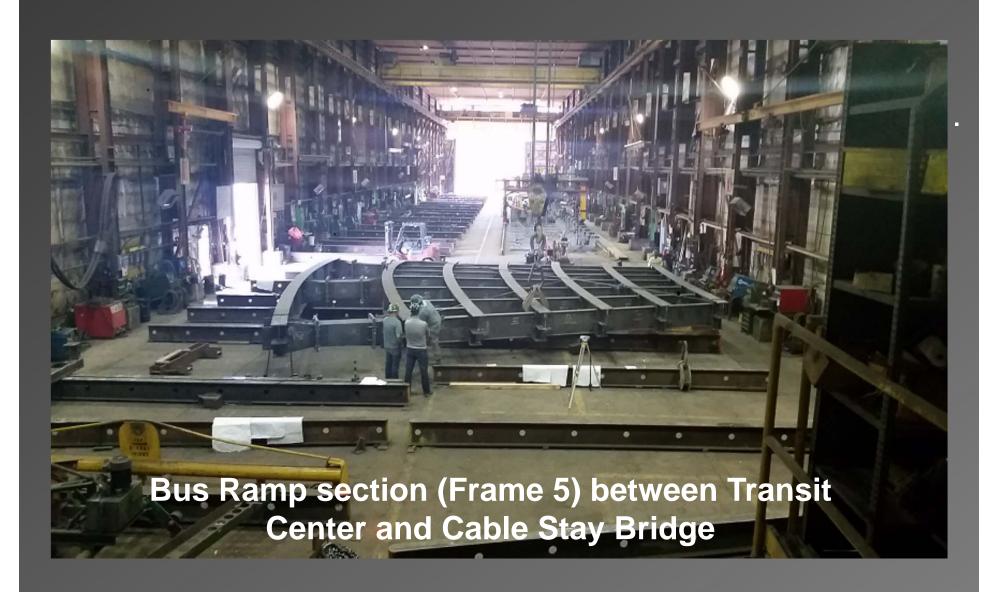
















Western Zone (GL 1-10)

- Stair 201 steel structure welding and metal decking continues.
- Rooftop Stair 301 and Elevator rooms concrete nearing completion.
- Bus Deck level waterproofing and bus curbs and drive aisle continue.
- Spray applied fireproofing completed.
- Glass Curtain Wall continues at Ground Level and Level 2.
- Mechanical/Electrical/Plumbing/Fire Sprinkler hangers and systems installation continues all levels.
- Electrical switchgear and transformer rooms being readied for delivery of equipment in October.
- Concrete Masonry Unit (CMU) wall installation in progress.

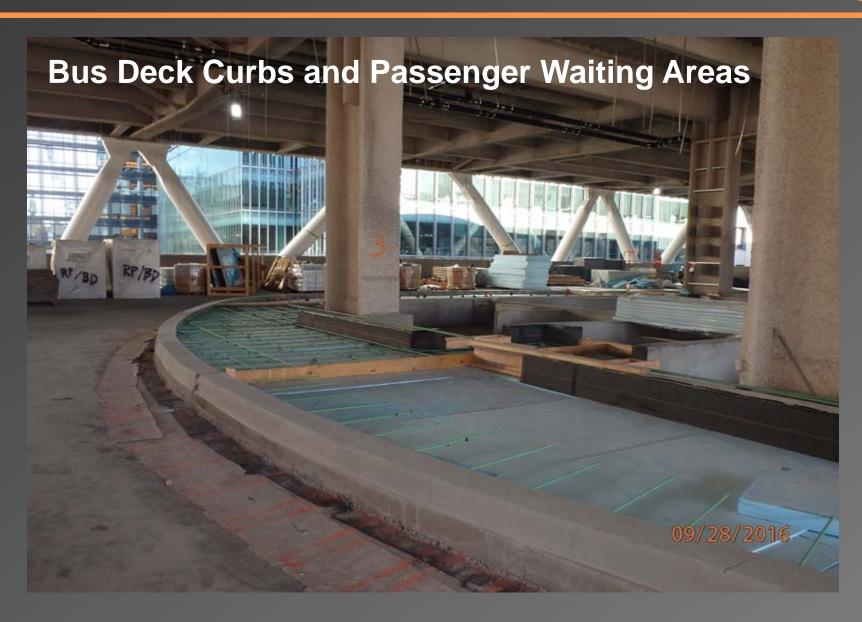
Central Zone (GL 10-20)

- Rooftop Waterproofing system installed along north side.
- Rooftop W12 Glass Floor framing complete and intumescent fireproof coating started.
- Bus Deck curbs completed with both drive aisle and passenger island concrete continuing.
- Continue with (MEPF) hangers and systems installation all levels.
- Continue with Glass Curtain wall systems installation all levels.
- Electrical switchgear and transformer rooms being readied for delivery of equipment in October.
- Offsite electrical utility manholes and conduit duct banks completed to the Central Zone.









Transbay Transit Center

Recent Activity



Eastern Zone (GL 20-35)

- Rooftop concrete scallop and rooftop perimeter walls are now are painted.
- Rooftop W12 Glass Floor framing completed and intumescent coatings has started. Oculus W6 Curtain Wall "ring beam" install has started.
- Exterior Awning installation started.
- Bus Deck waterproofing and bus curb concrete placement has started.
- Grand Hall W3 Glass Curtain Wall framing and glazing work continues.
- Spray applied fireproofing completed with only the Muni Bus Plaza ground level fireproofing remaining.
- Lower Concourse MEPF has started beneath the MUNI Bus Plaza.

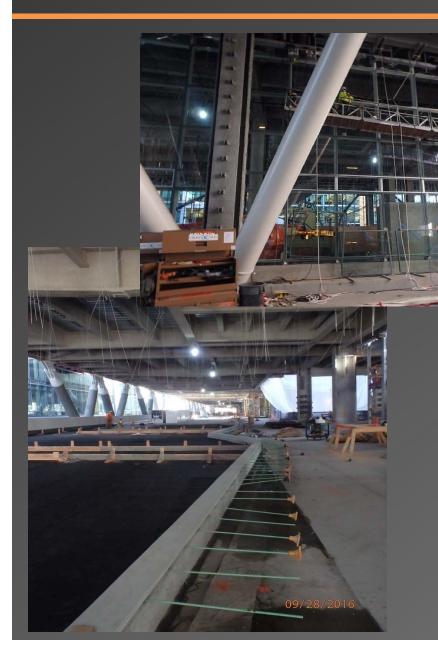
Bus Ramp Bridge

- Underground utilities work at Caltrans substation continues.
- Mechanically Stabilized Earth (MSE) walls and retaining wall work continues.
- Rebar and embedded items continue @ Viaduct Frame 2 and Bus Turnaround @ Clementina in readiness for mid October pour.
- Cable Stay Bridge specialty contractor, VSL, completed the installation and stressing of 4 of 7 cables.
- Frame 5 drop-in span offsite fabrication continues.





Upcoming Activity



Central Zone

- Complete Rooftop Waterproofing north section including the protection slab.
- Continue the Rooftop W12 Glass Floor framing and start W12 glazing.
- Complete the Bus Deck waterproofing.
- Continue with Bus Deck curbs/drive aisle/passenger island concrete.
- Rig & Install Switchgear & Transformers.
- Continue Lower Concourse MEPF.

Eastern Zone

- Continue Rooftop Glass Floor framing.
- Continue Bus Deck crash rail concrete, waterproof and curb/drive aisle concrete.
- Continue Grand Hall glass curtain wall.
- Complete Spray on Fireproofing.
- Rig & Install Switchgear & Transformers.
- Complete Trainbox steel and concrete pour under Beale St. by end of October.



Upcoming Activity





Western Zone

- Continue Bus Deck curb and drive aisle concrete.
- Continue Mechanical, Electrical and Plumbing and Fire Sprinklers.
- Continue ground level Trainbox Lid vents and waterproofing (Parcel F).
- Rig & Install Switchgear and Transformers into Electric rooms.

Bus Ramp and Bridge

- Continue Cable Stay Bridge cable install/stressing finish late October.
- Complete steel drop-in span fabrication and coatings in October.
- Harrison Street "Left Bridge" concrete deck pour October 6.
- Clementina Street bus turnaround stem & soffit concrete placement late October.

Safety and Labor Statistics

Recordable & Lost Time Incidents:

Recordable Incidents in September time period:	0	Lost Time Incidents in September time period:	0
Total Recordable Incidents in 2016:	8	Total Lost Time Incidents in 2016:	0
WOJV Average Annual Recordable Incident Rate 2011 Through 2015	4.35	WOJV Average Annual Lost Time Incident Rate 2011 Through 2015:	0.75
Nat'l./ State Annual Average Recordable Incident Rate 2011 Through 2015:	3.43	Nat'l./ State Annual Average Lost Time Incident Rate 2011 Through 2015:	1.85

Craft Hours:

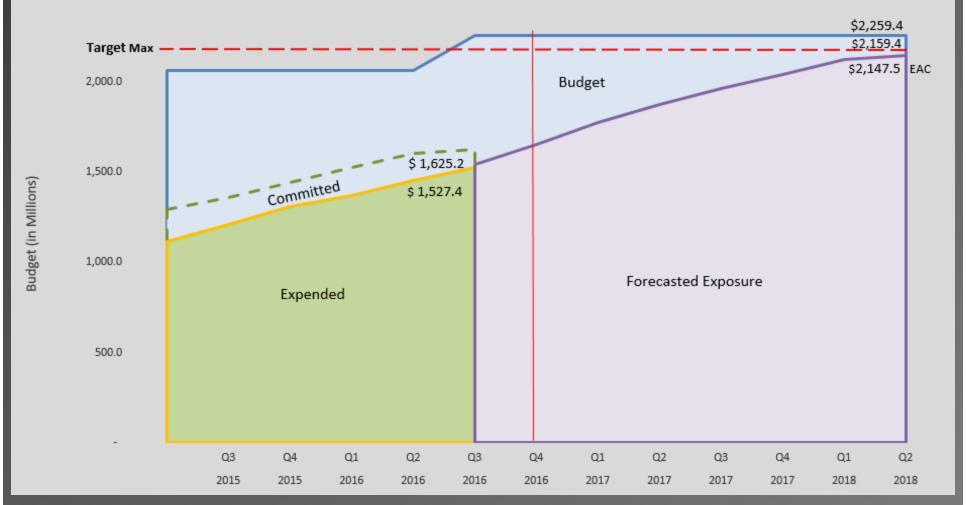
Total Transit Center Craft Hours through Sept. 2016:	Increase since last update:	Total Year 2016 Craft Hours:	
2,644,886	108,004	718,559	



Budget Overview



Data thru: August 16



68% Program Budget 82% Contract Time

Contingency Cost

Contingency Tracking (\$millions)

Contingency Tracking	Construction Contingency	CM/GC Contingency		Total Contingency & Reserve
Baseline Budget Amounts	\$61.8	\$32.5	\$116.9	\$211.3
Contingency Usage Through Aug 2016	(\$11.0)	(\$0.1)	(\$0.0)	(\$11.1)
Remaining Baseline Budget Amounts (Aug 2016)	\$50.8	\$32.4	\$116.9	\$200.2
Total Draws/Adds Sep 2016	(\$0.6)	(\$0.7)	\$8.0	\$6.7
Remaining Balances	\$50.2	\$31.7	\$124.9	\$206.9

Uses of Contingency this period

- Final Below Grade Package TG6.0 changes, Misc. changes to TG7.2 Superstructure concrete packages.
- Savings from TG27.1 Data Network and Systems Integration bid package award added to Program Reserve.

Forecasted Contingency Use

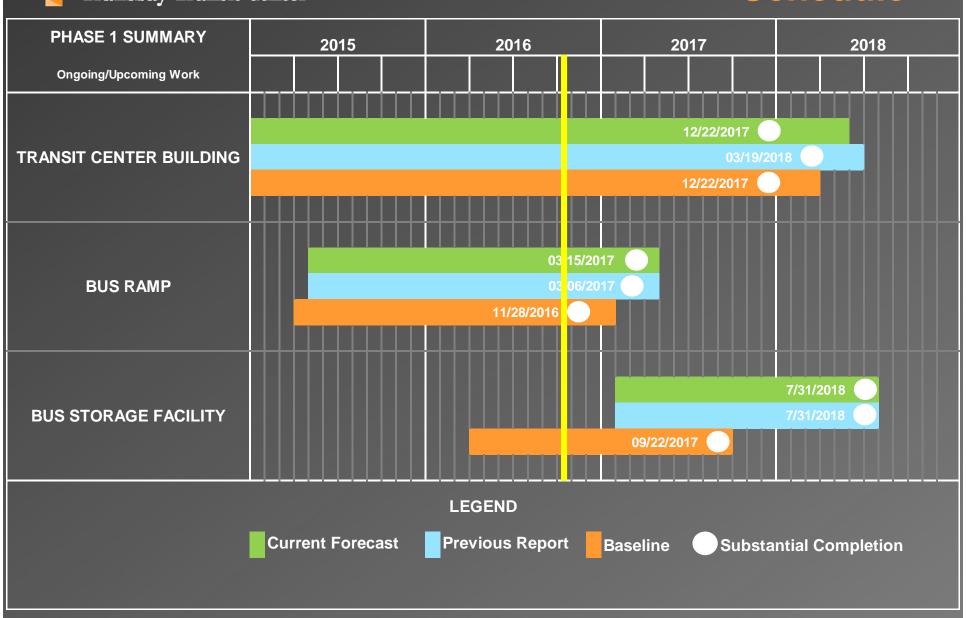
• CM/GC: \$0.1

• Construction: \$0.2

Program Reserve: \$0

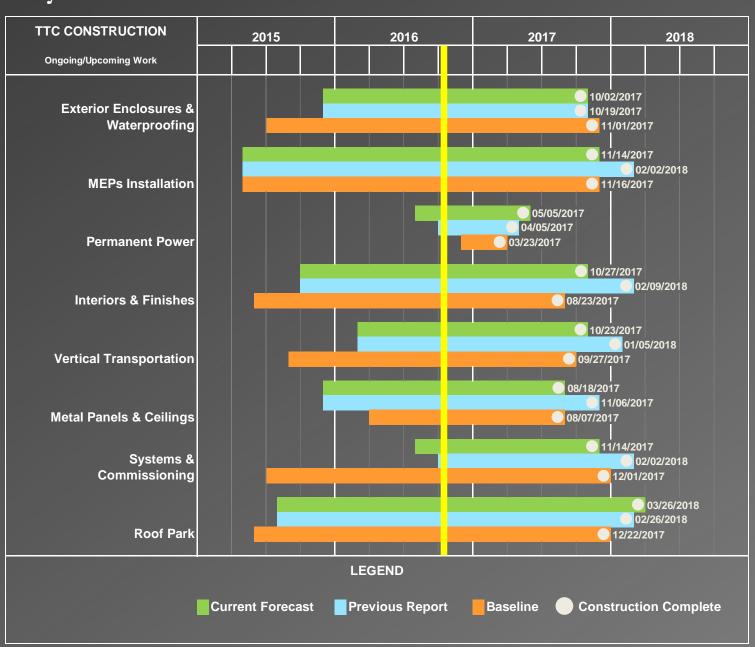


Schedule



Transbay Transit Center

Schedule



Schedule

Recovery Schedule presented by CM/GC meeting Contract Substantial Completion

Mitigation Update

- 1. Strategic overtime work focused around Grand Hall.
- 2. Re-sequenced work to support better trade flow relative to Grand Hall critical path.
- 3. Studying prefabrication of terrazzo design.
- 4. Recovery Schedule focused on Transit Center delivery with elements of Park Completion to follow during final completion activities.

Buy America

- 1. Resolved significant items advancing as planned:
 - Building Management Control System (BMCS)
 - Fire Management System (FMS)
 - Public Address System (PA)
- 2. Buy America certified bid received and ready to award:
 - Audio Visual Systems (A/V) Trade Package 27.2R
- 3. Landscaping Contractor's Buy America issues with Park Paving Stone selection and fabrication resolved.

Mitigation Strategy: Continue to Monitor throughout Submittal Process

Change Management

AC Transit Bus Deck Reconfiguration Request

Mitigation Strategies:

TJPA Interim Executive Director & AC Transit General Manager met:

- Operationalize with As-Planned and As-Built Configuration.
- Develop funding plan for future optimization after operational.
- Committed to timely and engaged Transition Planning through 2017.

Operational Readiness

Concerns:

- 1. Master Lessee Delayed On-Boarding Impact
 - Building Systems Commissioning
 - Building Systems Testing, Training and Hand Off
- 2. Timely Transit Operator's Transition
 - Route "Sign-On" & Driver Training Schedules
 - Transit Operator's Tenant Improvements, Fixtures, Furniture, & Equipment

Mitigation Strategies:

- 1. Master Lessee engagement first quarter 2017 January preferred
- 2. Bi-weekly Transition Planning Meetings will continue throughout 2017
- 3. Schedule Transit Agency Work Sessions for Training, Tenant Improvements, Fixtures, Furniture, & Equipment (FF&E) Planning / Coordination

