

Construction Update

October 2017

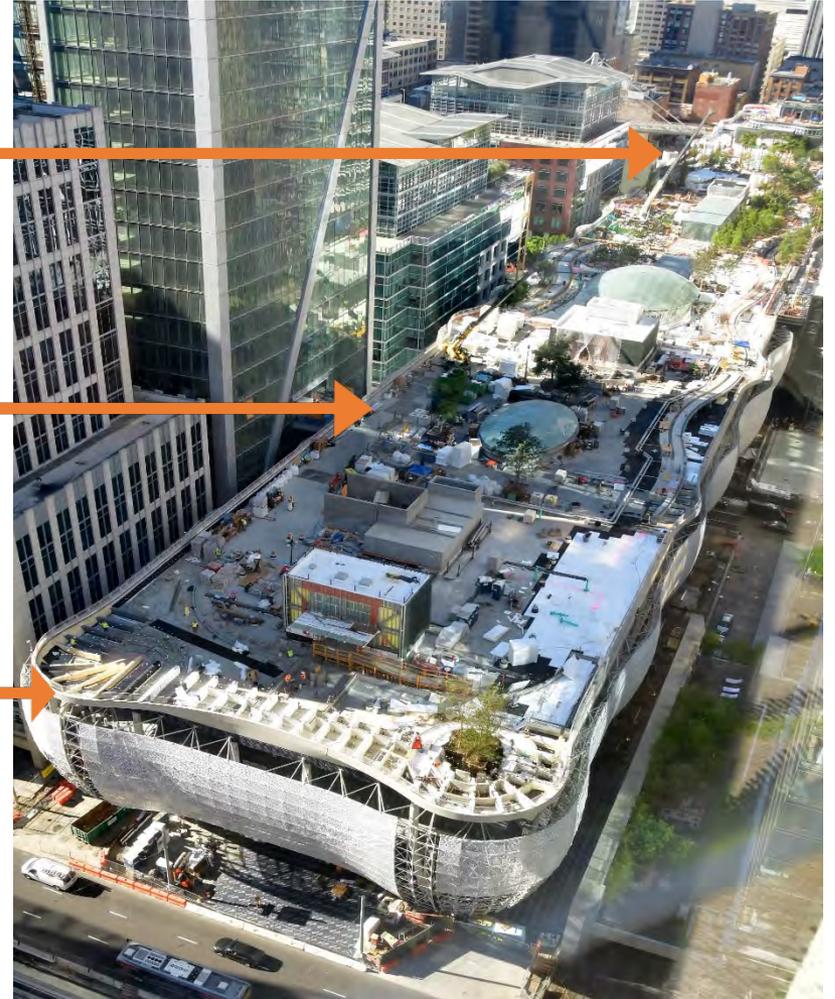


Project Overview

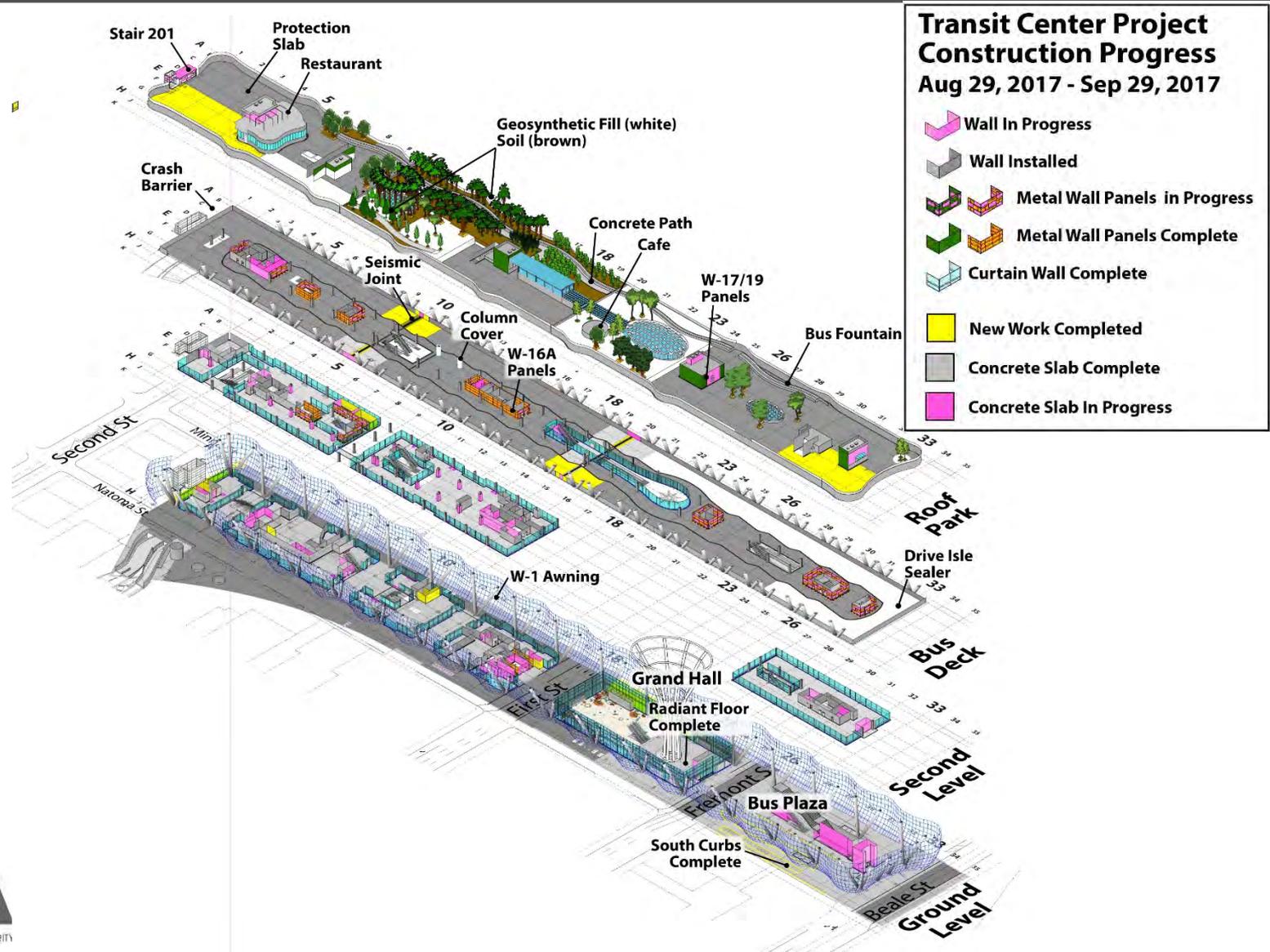
Western Zone Grid Line 1-10

Central Zone Grid Line 10-20

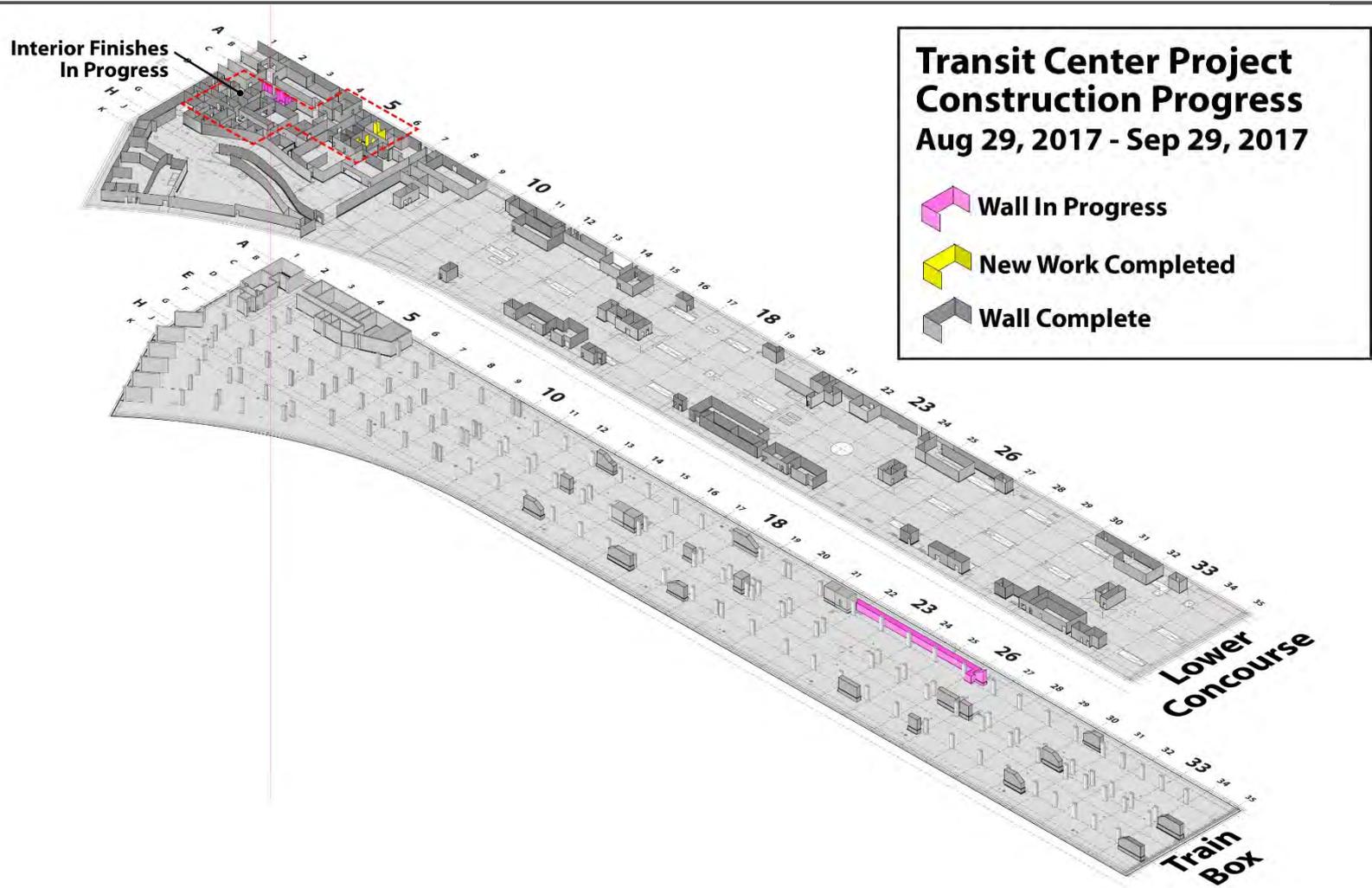
Eastern Zone Grid Line 20-35



Recent Activity



Recent Activity



Construction Activity

Transit Center - West (GL1-20)

- Rooftop waterproofing now complete.
- Rooftop landscaping underway.
- Bus Deck ceiling framing is complete.
- Bus Deck column covers in progress.
- Elevator and Escalator construction and enclosures install underway.
- Main Electric Room DBI Green Tag received 9/22/17. PG&E energized the Transit Center 9/23/17!
- Electrical power cable distribution is now underway. Electrical conduits continue.
- Main Distribution Frame (MDF) Room and Intermediate Distribution Frame (IDF) Rooms are underway.
- Equipment rooms buildout in progress. (Fire water tanks, Pumps, HVAC Units).
- Walls gypsum board and painting and Metal wall panels underway.

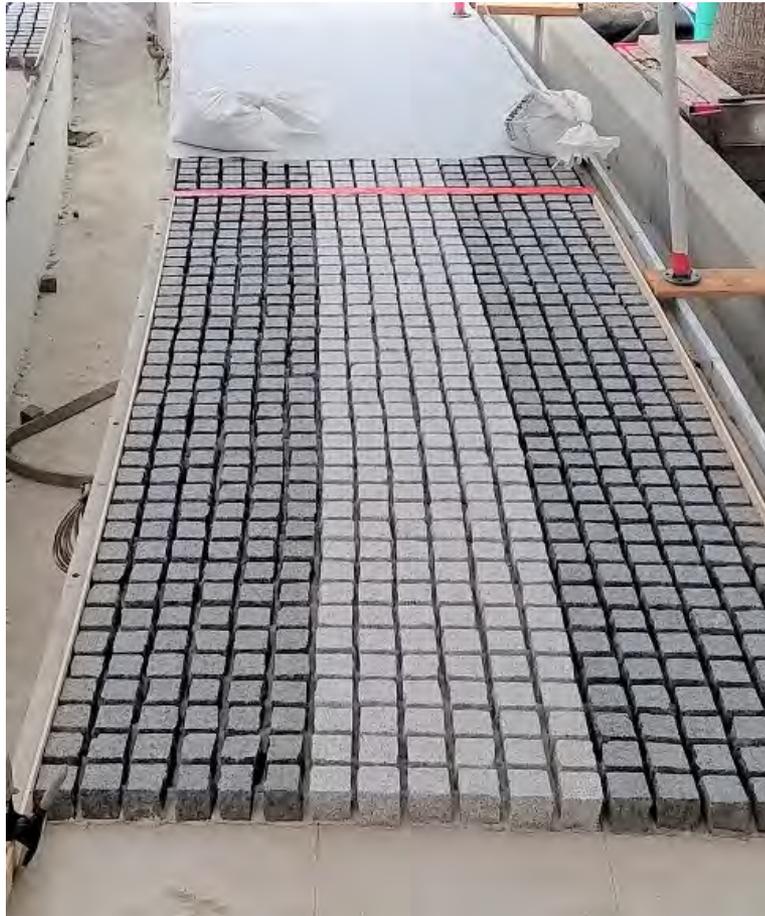
Transit Center - East (GL20-35)

- Rooftop waterproofing now complete.
- Rooftop landscaping underway.
- Rooftop granite pavers and pathway hardscaping underway.
- and pathway construction underway.
- Bus Deck drive aisle coating is underway.
- Bus Deck ceiling framing is underway.
- Grand Hall-Radiant Heating completed.
- Terrazzo 50% complete at Grand Hall.
- Elevator and Escalator construction and enclosures install underway.
- Electrical power cable distribution is now underway. Electrical conduits continue.
- Main Distribution Frame (MDF) Room and Intermediate Distribution Frame (IDF) Rooms are underway.
- Equipment rooms buildout in progress. (Fire water tanks, Pumps, HVAC Units).

Rooftop Park - Landscaping



Rooftop Park - Hardscaping



Rooftop pathway and granite pavers construction is underway.

South African Garden and Palm garden plantings underway.



Bus Deck Level – Bus Drive Aisle



Grand Hall – Radiant Heating protection (prior to Terrazzo)



MUNI Bus Plaza

#5 Bus begins service by the end of December.



Street Restoration – Minna Street

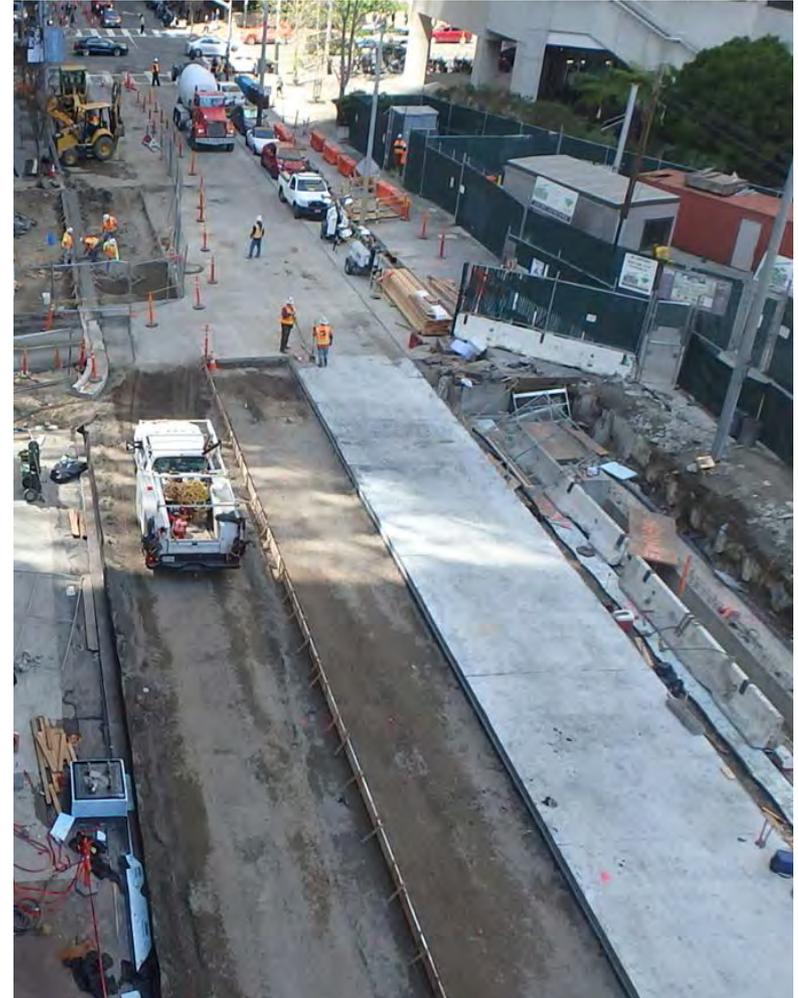


Street Restoration- Natoma Street



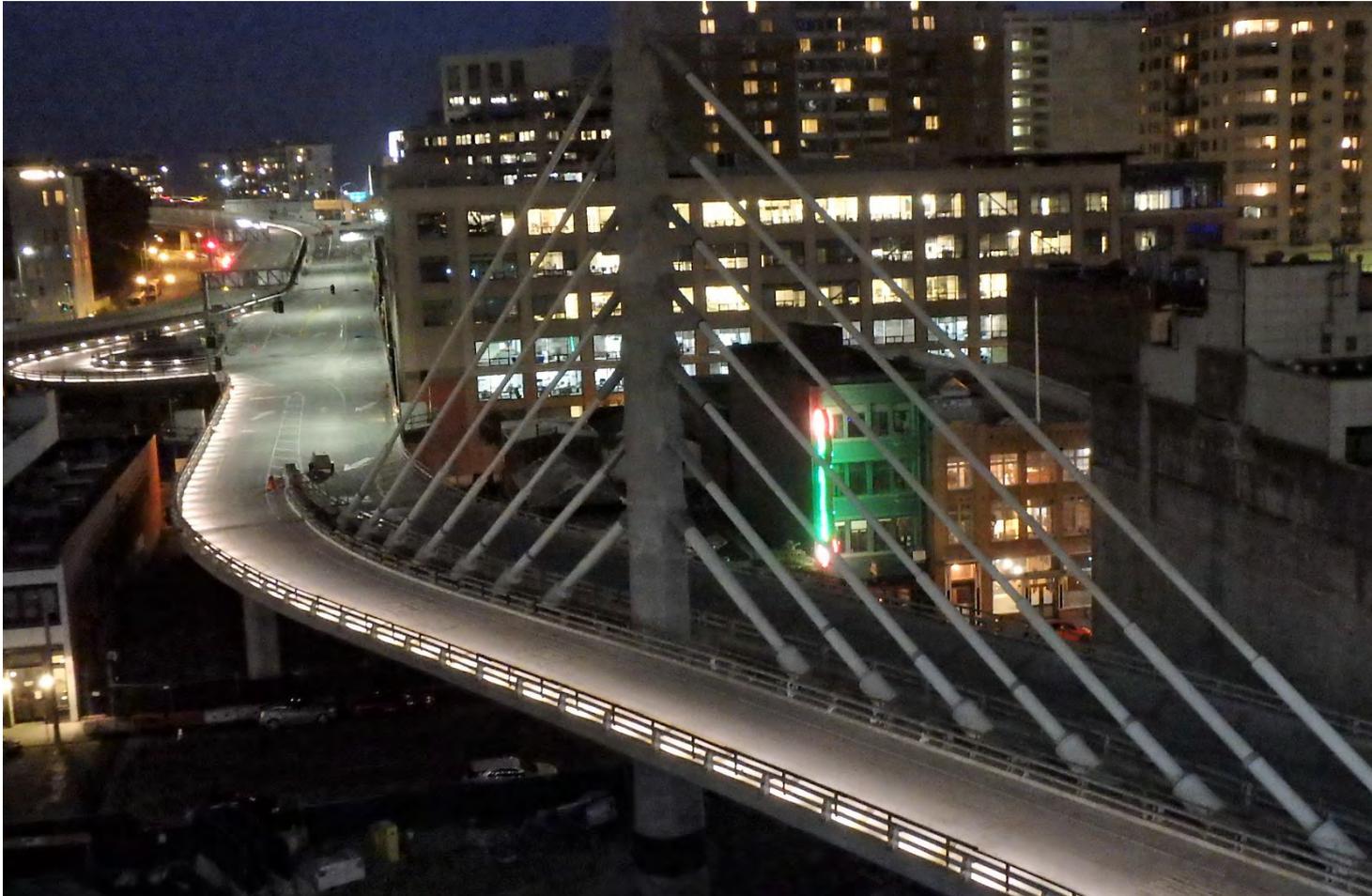
Fremont Street and First Street reconstruction – October 2017

- Fremont Street and First Street Temporary Bridges were removed in August.
- Roadway rebuild is scheduled to reconstruct the concrete road base and new asphalt.
- Nights and weekend work is due to SFMTA traffic requirements for these busy streets.
- Night Noise Permits and Special Traffic Permits obtained in advance.
- Public Outreach to our neighbors performed well in advance.
- Work is coordinated with Salesforce Tower and 181 Fremont Projects.
- First Street restoration is scheduled the weekend of October 13 through October 16.
- Fremont Street restoration is scheduled the weekend of October 27 through October 30.



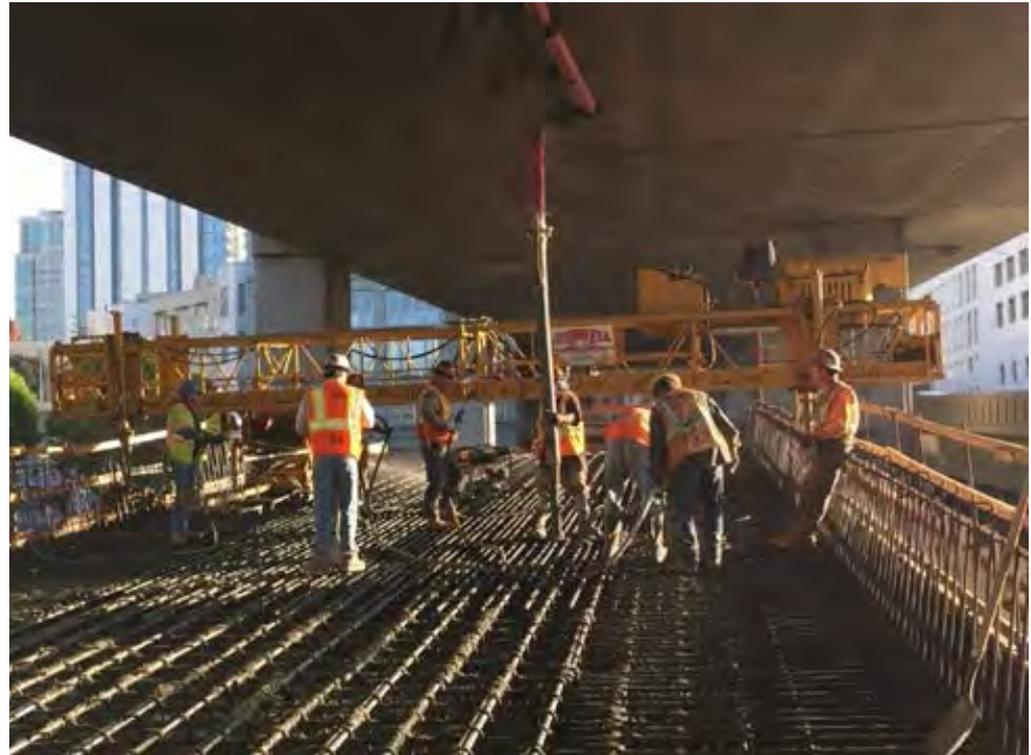
Bus Ramp and Cable Stay Bridge

Cable Stay Bridge at night



Bus Storage Facility

- Excavation/Grading in progress.
- Underground Utilities in progress.
- Falsework over Second Street successfully completed the weekend of September 22 through 25. Fine grading on October 9 with full closure.
- First Bridge Deck pour occurred on Oct. 3rd.
- Concrete Supply continues to be a challenge to monitor for impact.



Safety and Labor Statistics

Recordable & Lost Time Incidents:

Recordable Incidents this period September 2017:	1	Lost Time Incidents this period September 2017:	0
Total Recordable Incidents –Year 2017:	8	Total Lost Time Incidents - Year 2017:	3

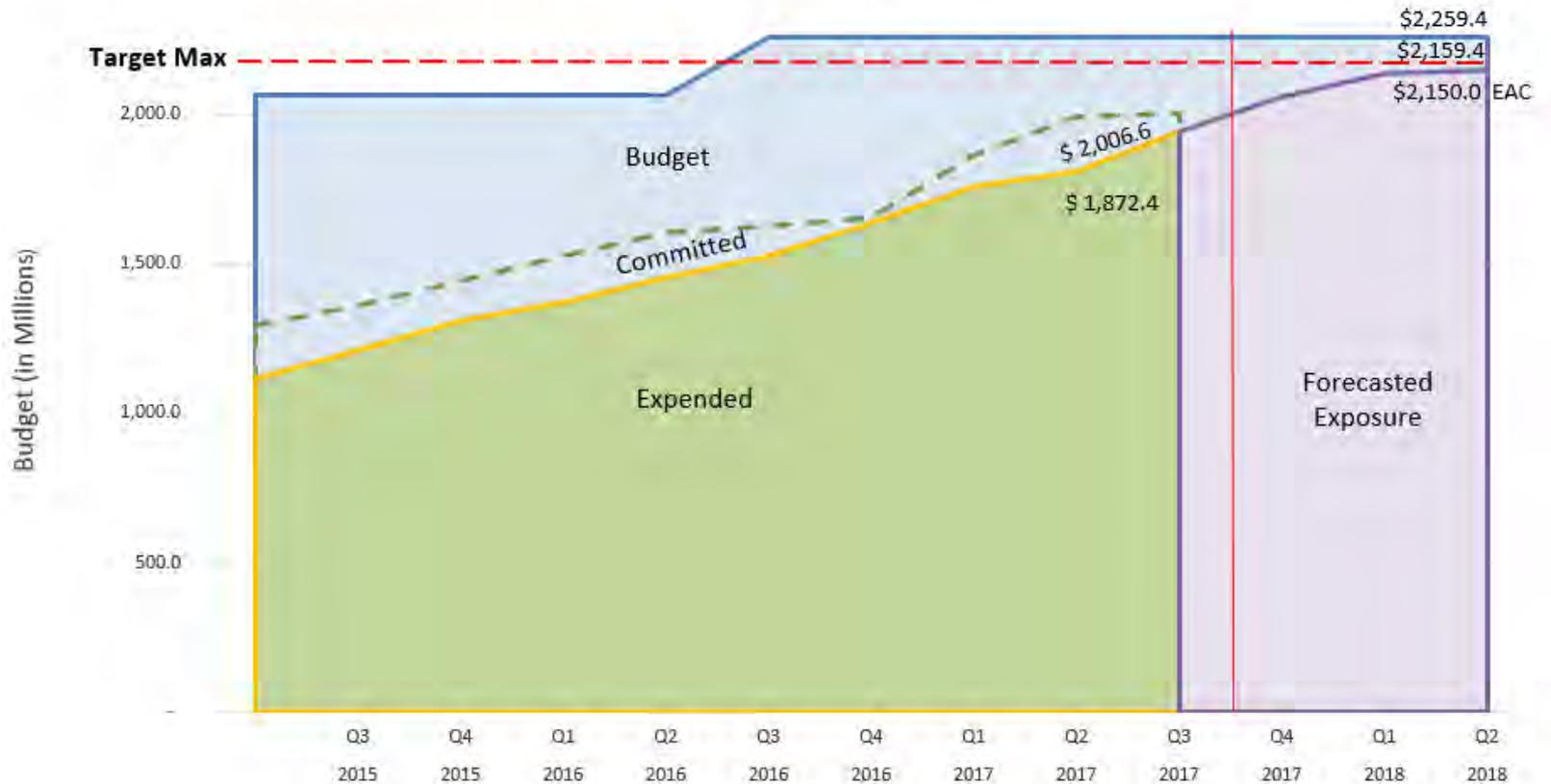
WOJV Average Annual Recordable Incident Rate 2011 Through 2015	3.04	WOJV Average Annual Lost Time Incident Rate 2011 Through 2015:	0.38
Nat'l/ State Annual Average Recordable Incident Rate 2011 Through 2015:	2.76	Nat'l/ State Annual Average Lost Time Incident Rate 2011 Through 2015:	1.36

Craft Hours:

Total Transit Center Craft Hours 2011 - YTD 2017 :	Total Craft Hours <u>September 2017:</u>	Total Transit Center Craft Hours YTD 2017 :
4,033,766	120,058	1,187,851

Budget

Phase 1 Transbay Transit Center Program Data thru: August 17



83% Program Budget
96% Contract Time

Contingency Cost

Contingency Tracking (\$millions)

	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
Baseline Budget Amounts	\$61.8	\$32.5	\$116.9	\$211.3
Contingency Usage Through August 2017	(\$28.2)	(\$3.6)	\$4.8	(\$27.1)
Remaining Baseline Budget Amounts (August 2017)	\$33.6	\$28.9	\$121.7	\$184.2
Total Draws/Adds September 2017	(\$0.8)	(\$0.4)	\$0.0	(\$1.2)
Remaining Balances	\$32.8	\$28.5	\$121.7	\$183.0

Uses of Contingency this period:

Ground level topping slab pass-through. Acceleration of MUNI Bus Plaza and Beale St. Protection Slab.

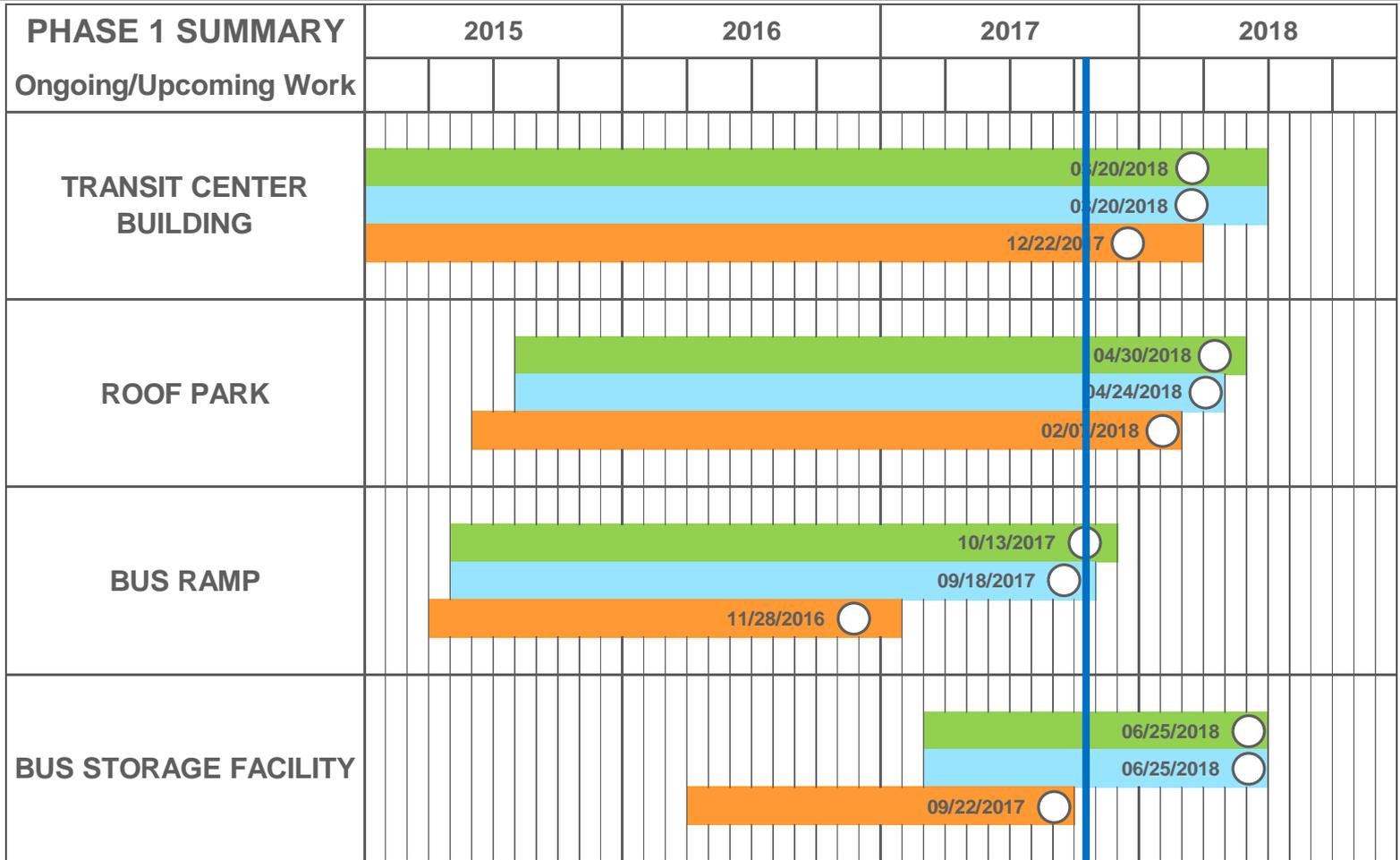
Forecasted Contingency Use:

CM/GC: \$0.1

Construction: \$1.0

Program Reserve: (\$4.9)

Schedule



LEGEND

■ Current Forecast
 ■ Previous Report
 ■ Baseline
 ○ Substantial Completion

TIME BETWEEN TCO AND SUBSTANTIAL COMPLETION IS INSPECTIONS & CORRECTIONS.

Risks

Schedule

Schedule Milestones generally held in past month. Schedule remains about 12 weeks beyond contractual Substantial Completion.

Challenged Activities include:

1. Electrical Subcontract Production Rates in both Normal Voltage and Low Voltage Distribution is single largest obstacle to completion.
2. Fabrication and Installation of Column Covers as well as E2 Pylons at Roof Park level continue to advance to support schedule albeit issues around fit and finish remain to be resolved.
3. Activity focus on Muni Bus Plaza better ensuring Public Transit Operations beginning December 2017.
4. Concentration of work at Grand Hall and Bus Deck continues to support Bus Deck operations by March 2018.

Risks

Schedule

WOJV Mitigation Strategy Update:

1. Supplemental Personnel and Subcontractors particularly with Electrical, Framing and Finish personnel Scope Shift.
2. Resequencing Streetscape / Sidewalk work to support timely activation of Muni Bus Plaza and Retail Tenant Improvements.
3. Site Work and Building Exterior to normalize the neighborhood.
4. Greyhound and Amtrak areas ready for Tenant Improvement (TI) handoff.
5. Grand Hall and Bus Deck systems testing and final inspection.
6. Building Temporary Certificate of Occupancy (TCO) including Bus Deck and Grand Hall.
7. Rooftop park ready for TCO.

Risks

Electrical Sub-Contractor Issues

1. Current production indicates additional electrical work will need to be supplanted or supplemented for betterment of schedule.
2. Fisk is objecting to further reassignment of scope to other electrical subcontractors.
3. WOJV needs to definitively and decisively address Fisk's failures to meet contract time and performance requirements to minimize further delays.
4. Partial Schedule Recovery is all we can expect to materialize given that contractual Substantial Completion is so near.
5. Contractual Substantial Completion remains at December 22, 2017.
6. Accountability for impacts including Liquidated Damages and WOJV internal subcontractor back charge cost will advance in 2018.

Risks

Inefficiency & Time Impact Claims

1. Closeout of Bus Ramp, Concrete & Steel Packages remains impaired by Time Impact Claims but advancement of Work to Complete list is being driven towards end of October 2017.
2. Anticipate Time Impact Claims from WOJV associated with Electrical Scope of Work.
3. Immediate focus on Project Advancement:
 - Maintain December Bus Plaza Initial Operations
 - Maintain March Start of Full Operations
 - Avoid impact to advancing Tenant Improvement
 - Minimize Neighborhood Impact
4. TJPA team reviewing WOJV “Equitable Adjustment” Change Order Request for Extended Staffing.
5. Current exposure accounted for in EAC to extent known and estimated.



Questions?

TJPA
TRANSBAY JOINT POWERS AUTHORITY

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