



Construction Update

February 2017

Transbay Transit Center

TJPA



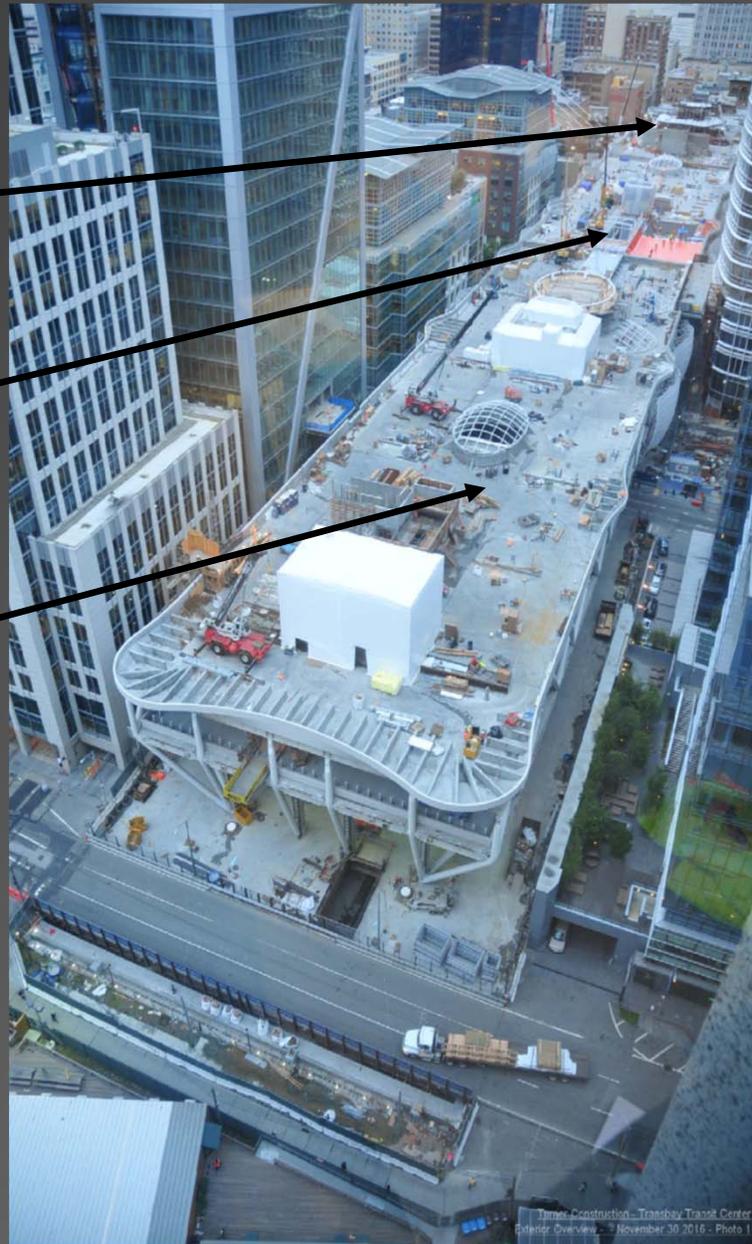


Transbay Transit Center

Western Zone
Gridlines 1 to 10

Central Zone
Gridlines 10 to 20

Eastern Zone
Gridlines 20 to 35



Project Overview

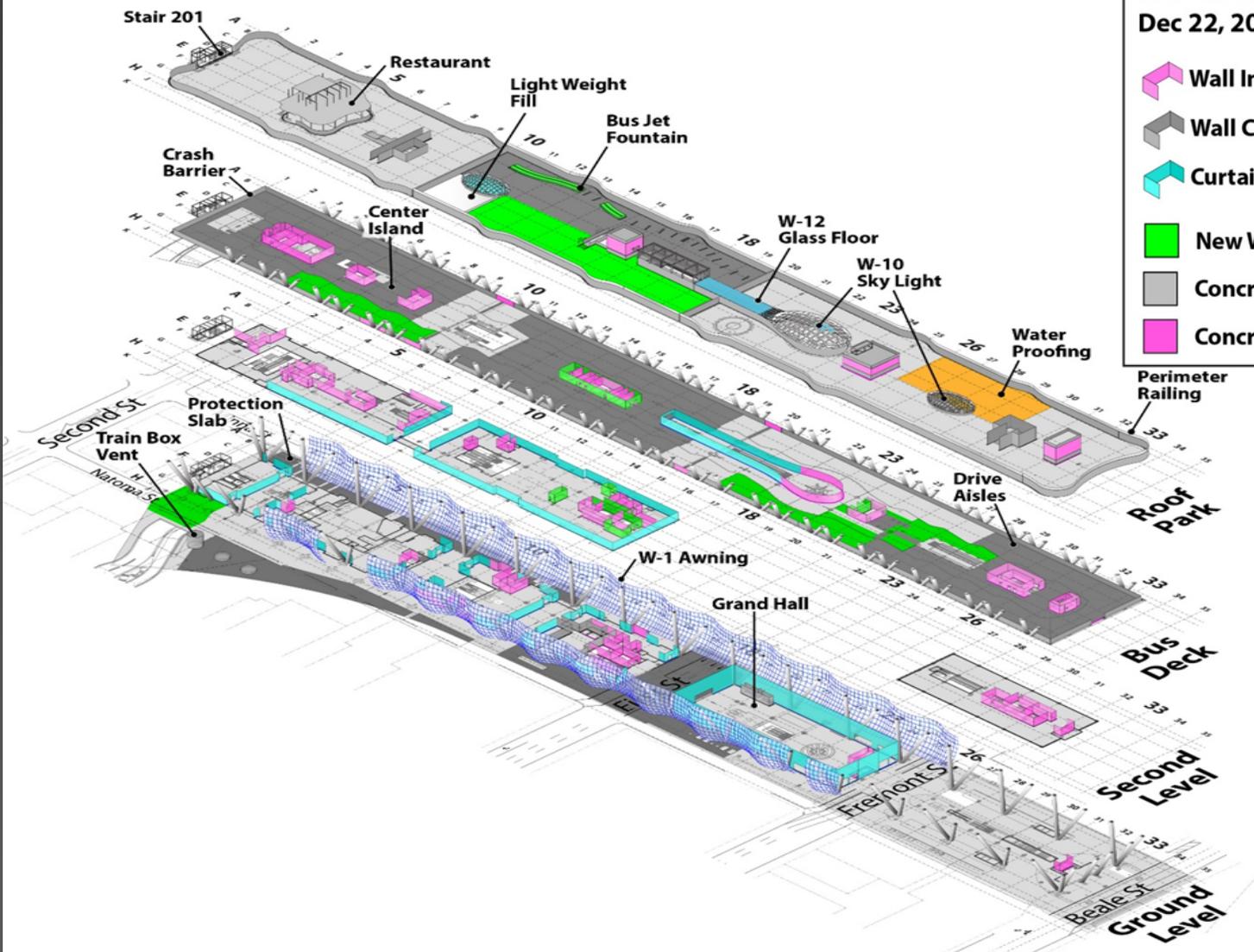
1. Construction Activity
2. Safety & Labor Statistics
3. Budget Overview
4. Contingency Cost
5. Schedule
6. Risks/Operational Readiness



Transit Center – Upper Levels and Roof Park

Transbay Transit Center
Construction Progress
Dec 22, 2016 - Jan 27, 2017

-  Wall In Progress
-  Wall Complete
-  Curtain Wall Complete
-  New Work Completed
-  Concrete Slab Complete
-  Concrete Slab In Progress

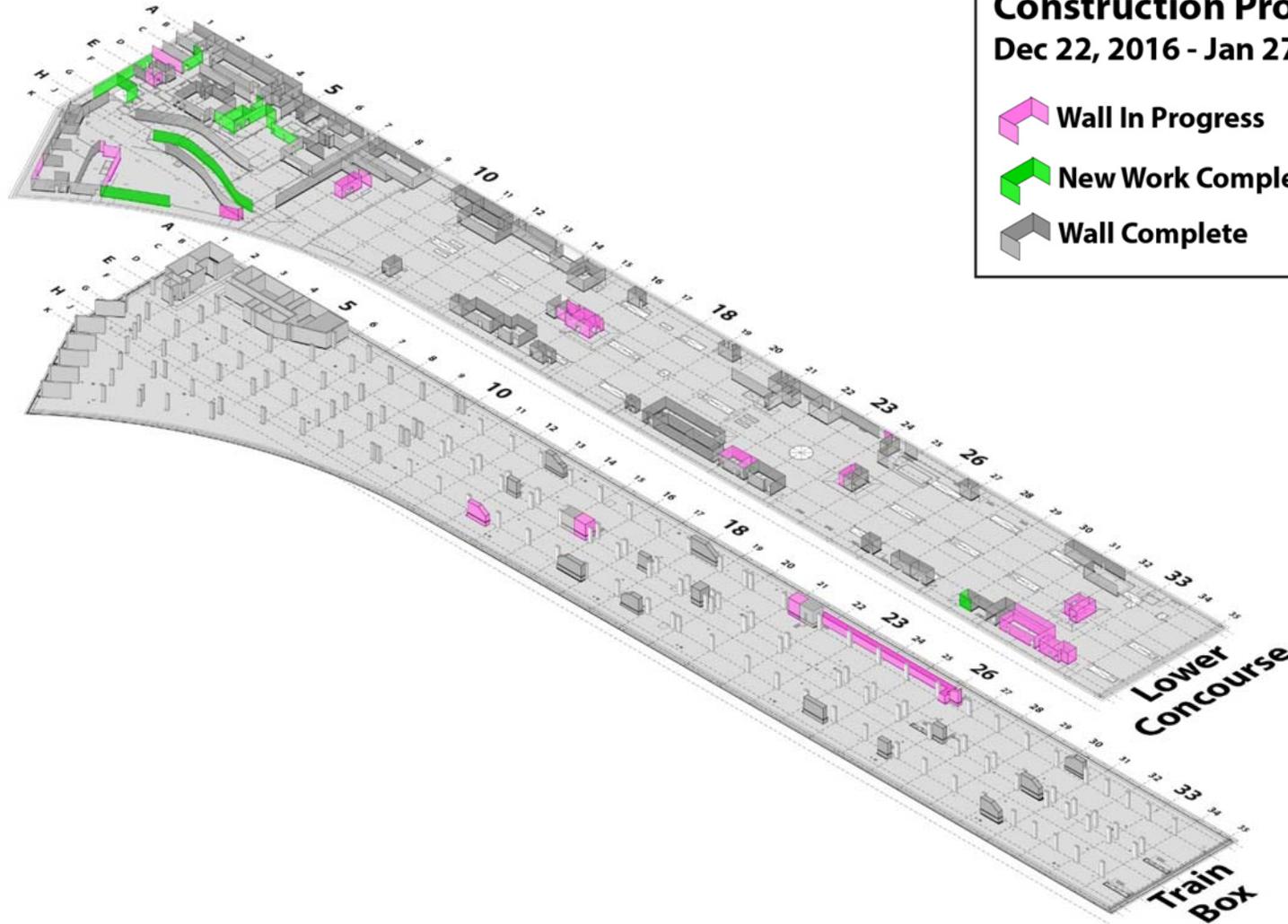




Transit Center- Trainbox Lower Levels

**Transbay Transit Center
Construction Progress**
Dec 22, 2016 - Jan 27, 2017

-  Wall In Progress
-  New Work Completed
-  Wall Complete





Western Zone (GL 1-10)

- Rooftop Western Skylight glazing installed and tested.
- Rooftop restaurant walls and decks rebar and concrete continues.
- Bus Deck drive aisle and pedestrian island concrete is complete.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) systems installation continues all levels.
- Main Electric, Switchgear and transformer rooms buildout in progress and readied for energization.
- Concrete Masonry Unit (CMU) wall installation nearing completion.
- Vehicle and Bicycle architecturally exposed ramp walls shotcrete in progress.



Central Zone (GL 10-20)

- Rooftop trees are being delivered!
- Rooftop Landscaping underground conduit, piping and fountain precast is underway both north and south.
- Rooftop Glass Canopy framing at Escalator 407/408 is completed.
- All levels metal stud framing walls with MEP rough-in, also Glass Curtain wall systems installation continues.
- All levels continue with MEPF systems installation.
- Main Electric, Switchgear and transformer rooms buildout in progress and being readied for energization.
- First Street temporary bridge all steel removed in early January with concrete infill in progress and waterproofing, backfill and asphalt to follow in February.





Construction Activity



Eastern Zone (GL 20-35)

- Light Column “Oculus” Skylight glazing panels in progress.
- Rooftop Waterproofing has commenced in the eastern zone.
- Bus Deck drive aisle is complete with pedestrian island with crash bollards concrete remaining to complete.
- All levels metal stud framing walls and MEP rough-in, also Glass Curtain wall systems installation continues.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) systems installation continues all levels.
- Lower Concourse Elevator Fronts and machinery being installed.
- Concrete Masonry Unit (CMU) wall installation nearing completion.



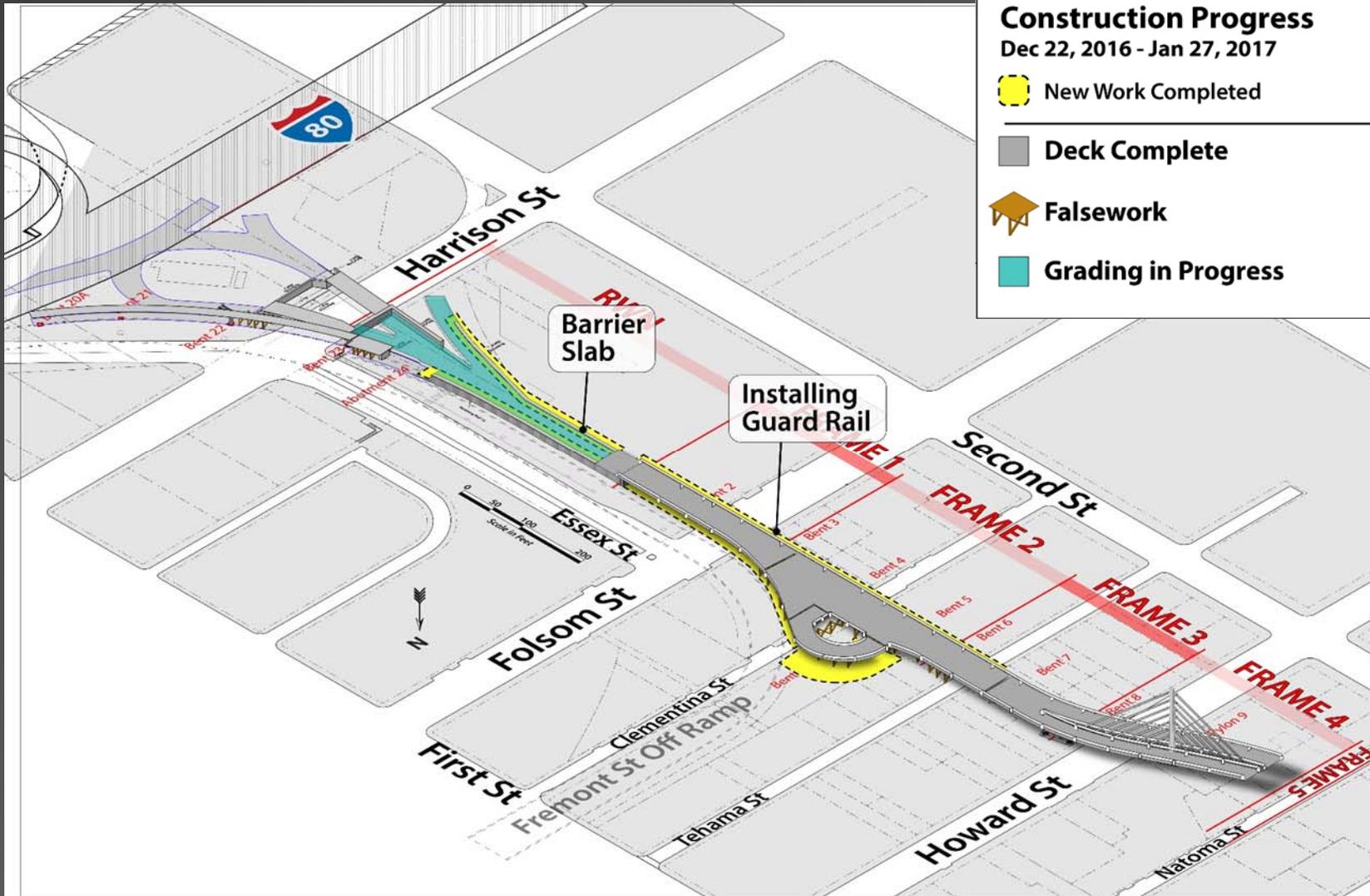
Bus Ramp and Cable Stay Bridge

Transit Center Bus Ramp

Construction Progress

Dec 22, 2016 - Jan 27, 2017

-  New Work Completed
-  Deck Complete
-  Falsework
-  Grading in Progress





Bus Ramp Bridge

- All Cable Stay Bridge ST-10 Railings are installed with cut and cap of cables starts early February.
- Bridge drop-in steel span connection to Transit Center being delivered to site early February.
- Mechanically Stabilized Earth (MSE) and retaining wall work progressing.
- Earthwork grading work in progress.
- Underground utility work continues.
- Viaduct electrical utility work continues.
- Viaduct bus turnaround (Frame 2 @ Clementina Street) completed with Falsework removal scheduled early February.





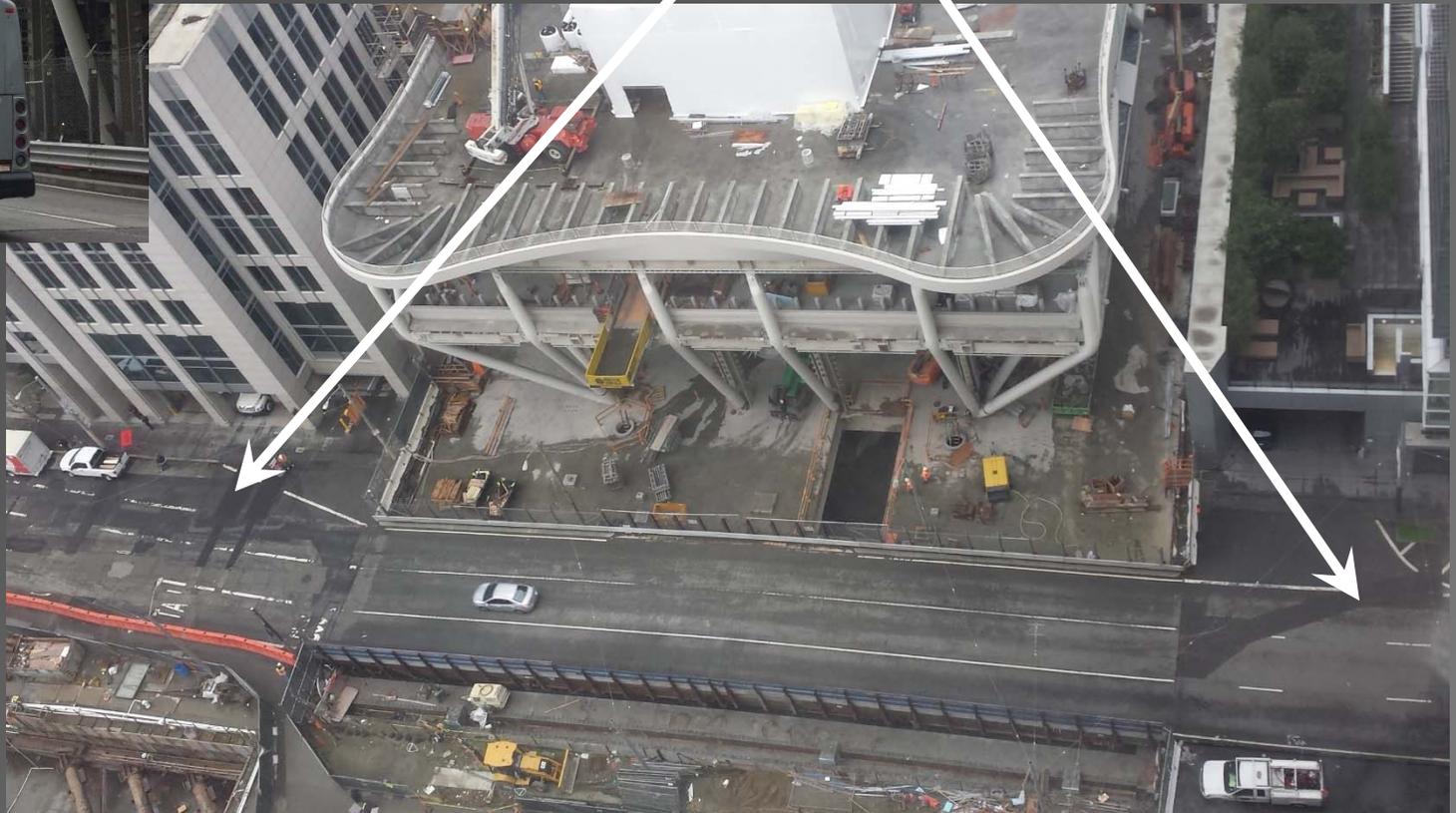
Transbay Transit Center

Temporary Steel Bridge Removal and Replacement at Beale Street



OCS Lines

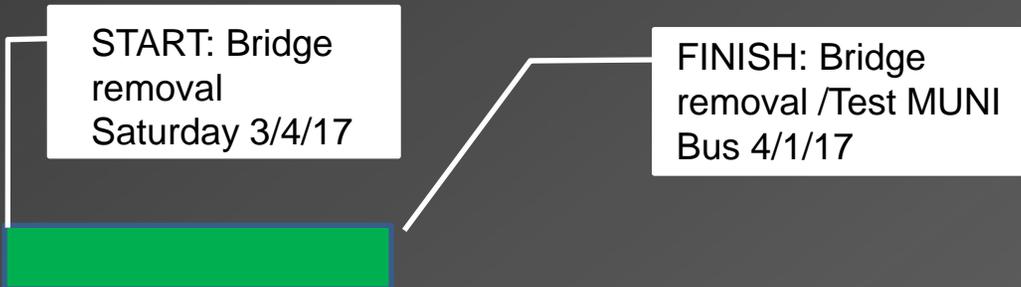
Limits of Work





Transbay Transit Center

Temporary Steel Bridge Removal and Replacement at Beale Street



28 DAY PLAN: Complete temp bridge removal and final street restoration working two 8 hour shifts 6AM - 11:00PM (16 hours per day) including Saturday. Sundays days for other contractors – waterproofing, low voltage conduits and other low noise work.

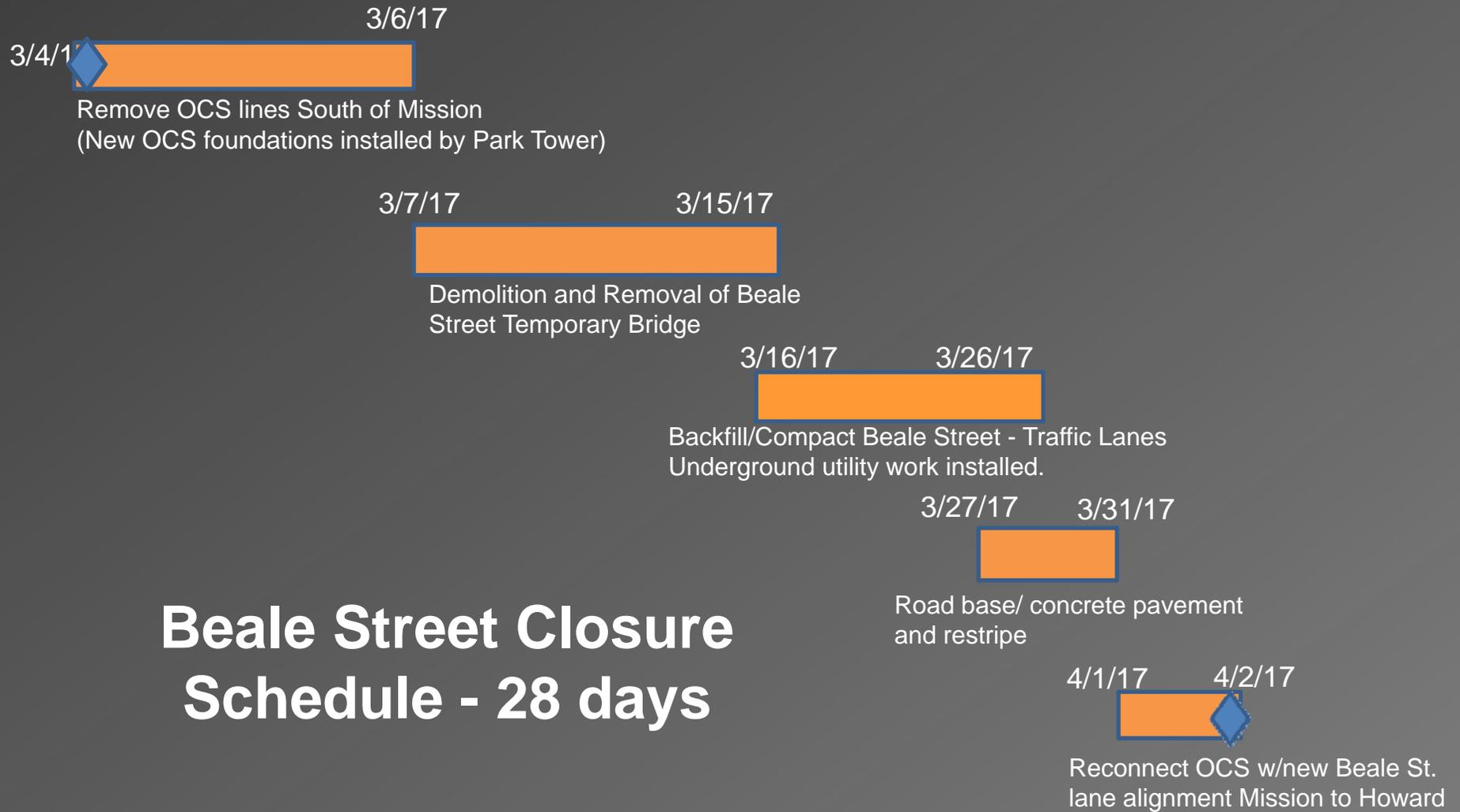


7 MONTH IMPACT: Beale Street traffic lane closures and OCS outage for bridge removal in Phases would take 6-7 months per the contractor. Fremont Bridge removal scheduled to start 7/2/17 would also be impacted.



Transbay Transit Center

Temporary Steel Bridge Removal and Replacement at Beale Street





Recordable & Lost Time Incidents:

Recordable Incidents in January time period:	0	Lost Time Incidents in January time period:	0
Total Recordable Incidents in 2017:	0	Total Lost Time Incidents in 2017:	0
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

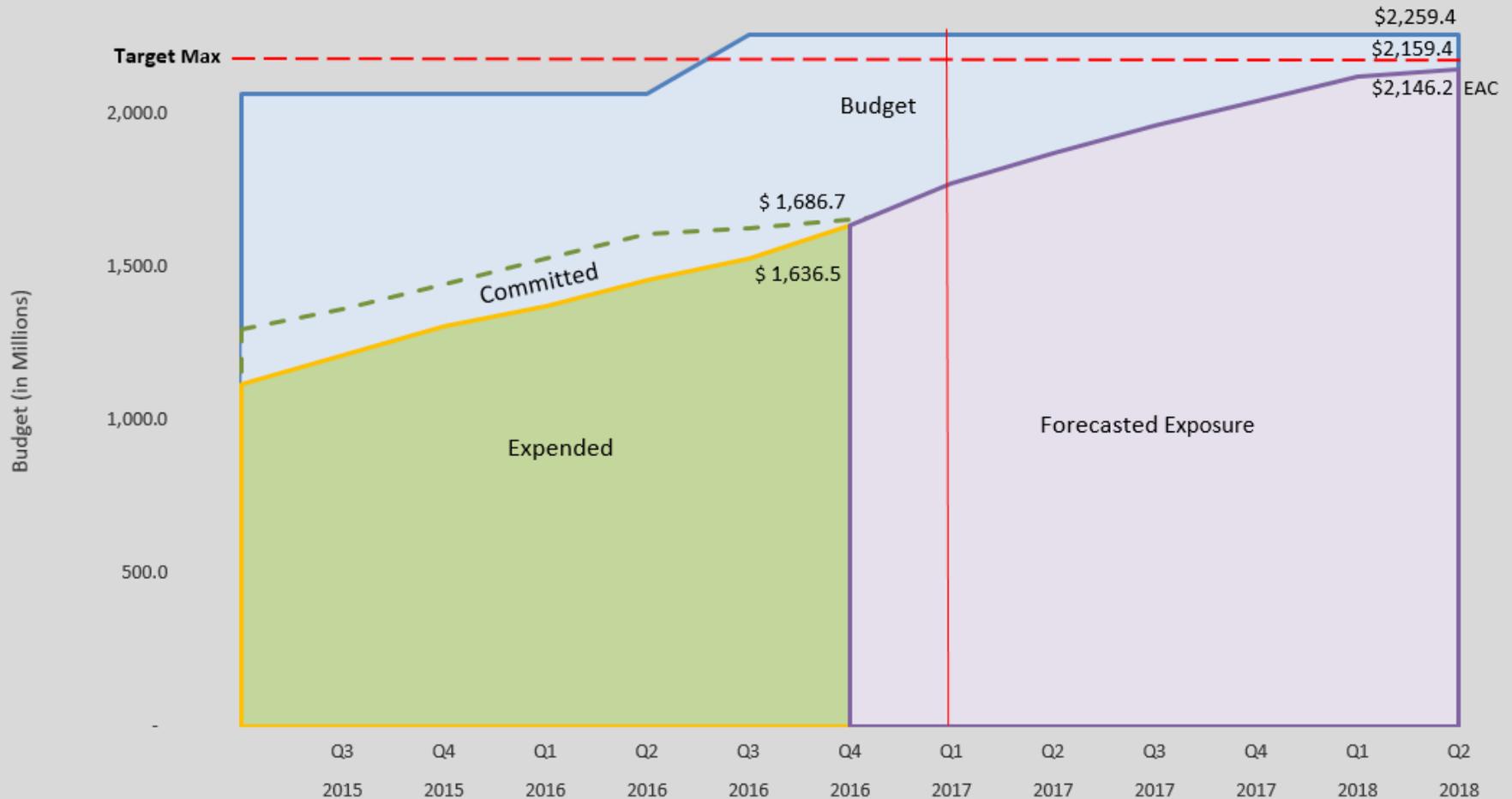
Craft Hours:

Total Transit Center Craft Hours 2011 through 2017:	Increase since last update Dec 31:	Total Transit Center Craft Hours YTD 2017 :
3,059,519	104,216	104,216



Phase 1 Transbay Transit Center

Data thru: December 16



72% Program Budget
86% Contract Time



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 Dec 2016	(\$15.5)	(\$1.3)	\$9.5	(\$7.3)
Remaining Baseline Budget Amounts (Dec 2016)	\$46.4	\$31.2	\$126.4	\$203.9
Total Draws/Addds January 2017	(\$1.7)	(\$0.5)	\$0.0	(\$2.3)
Remaining Balances	\$44.6	\$31.1	\$126.4	\$202.2

Uses of Contingency this period

TG18.1 Bus Ramp Hinge 8 Modifications, TG10.4 Electrical ERRCS

Forecasted Contingency Use

CM/GC: \$0.2

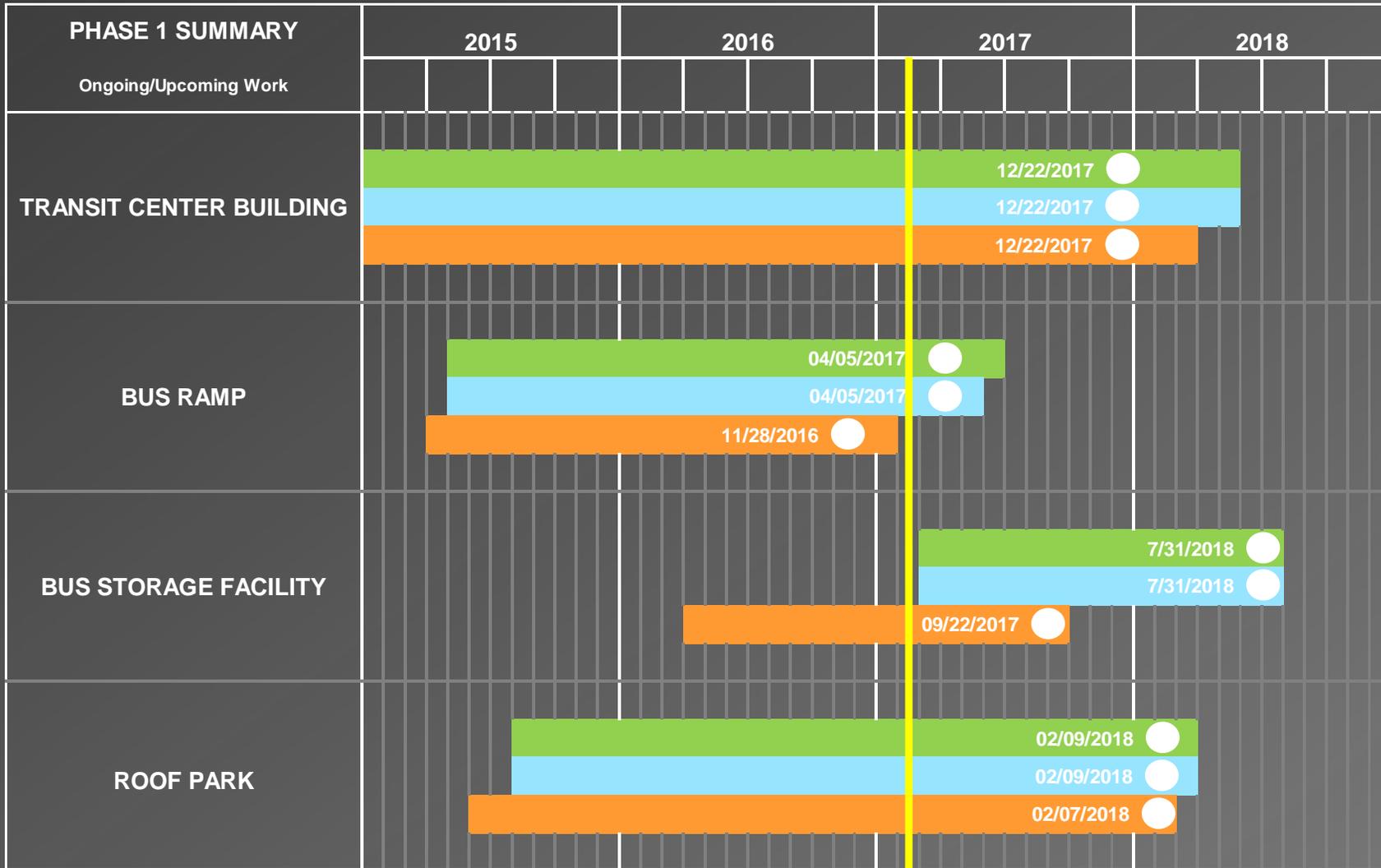
Construction: (\$0.1)

Program Reserve: \$0



Transbay Transit Center

Schedule



LEGEND

- Current Forecast
- Previous Report
- Baseline
- Substantial Completion



Schedule

Recovery Schedule continues to hold while Schedule tightness continues to represent risk to Project.

Active Management

1. All Major Activities treated as Critical.
2. Project Leadership Team encouraging early issue elevation.
3. Continually seeking early warning of next challenge on the Horizon.

Recent Actions

1. Re-sequenced Temporary Bridge Removals at Beale and Fremont Street.
 - Responds to constraints related to neighboring construction.
 - Affords schedule betterment at both locations.
2. Project Leadership issue resolution with languishing submittals & shop drawings including long lead lighting fixtures and signage.



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.

Transition Update:

- AC Transit start of Operations remains with March 2018 forecast.
- Ramped up Transition Planning Meetings to Weekly.
- Transition Communication & Public Relations discussed with AC Transit.
- Muni training timeline also forecast March 2018 full operations.



Discussion:

Constraints of Substantial Completion & Training :

- Creates January & February 2018 transition window.
- Opportunity for “Soft Opening” or “Measured Migration” approach.
- More discussion with all Stakeholders Required.
- 1st Half 2017 Target for firm Transition Plan & Schedule.

Discussion Topics:

- Public Relations & Communication Plan.
 - Transit Operations & TTC Passenger Education.
 - Event Planning & Scheduling.
- Operational Milestones and Expectations.

