



Construction Update

May 2017

Transbay Transit Center

TJPA



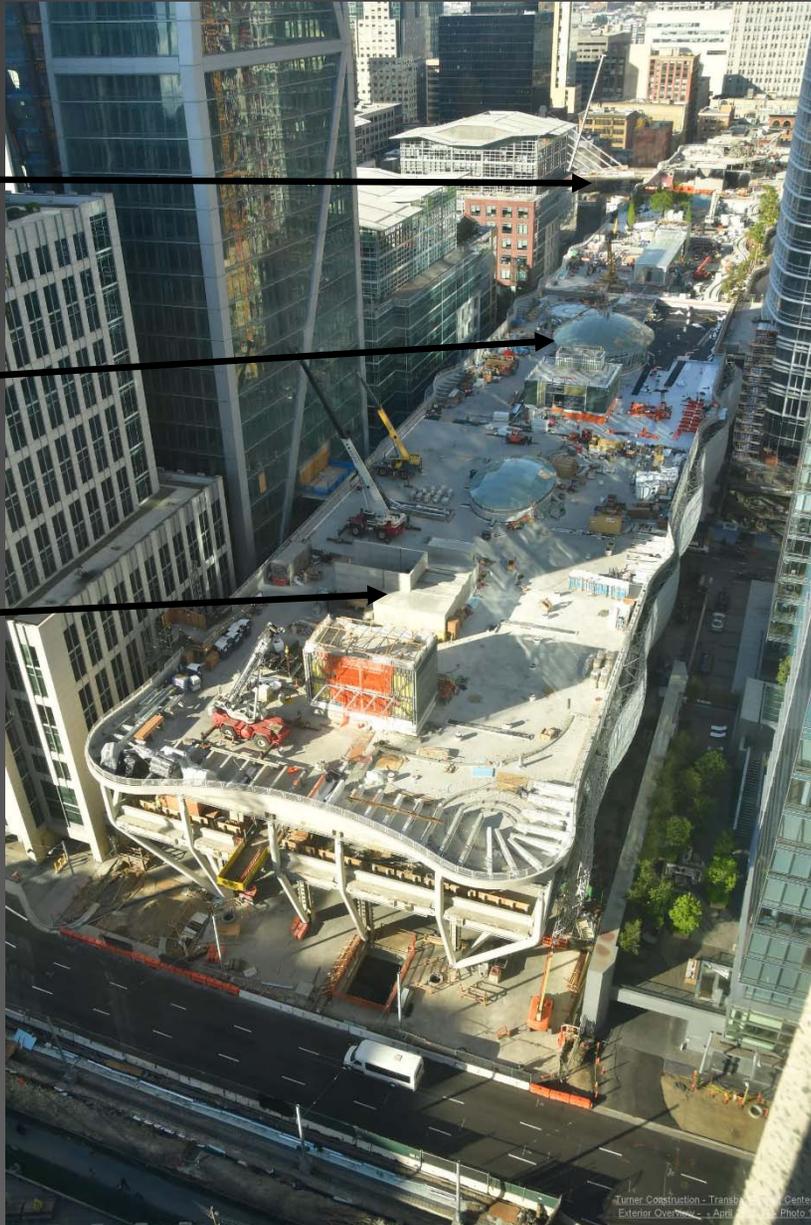


Transbay Transit Center

Western Zone
Gridlines 1 to 10

Central Zone
Gridlines 10 to 20

Eastern Zone
Gridlines 20 to 35



Project Overview

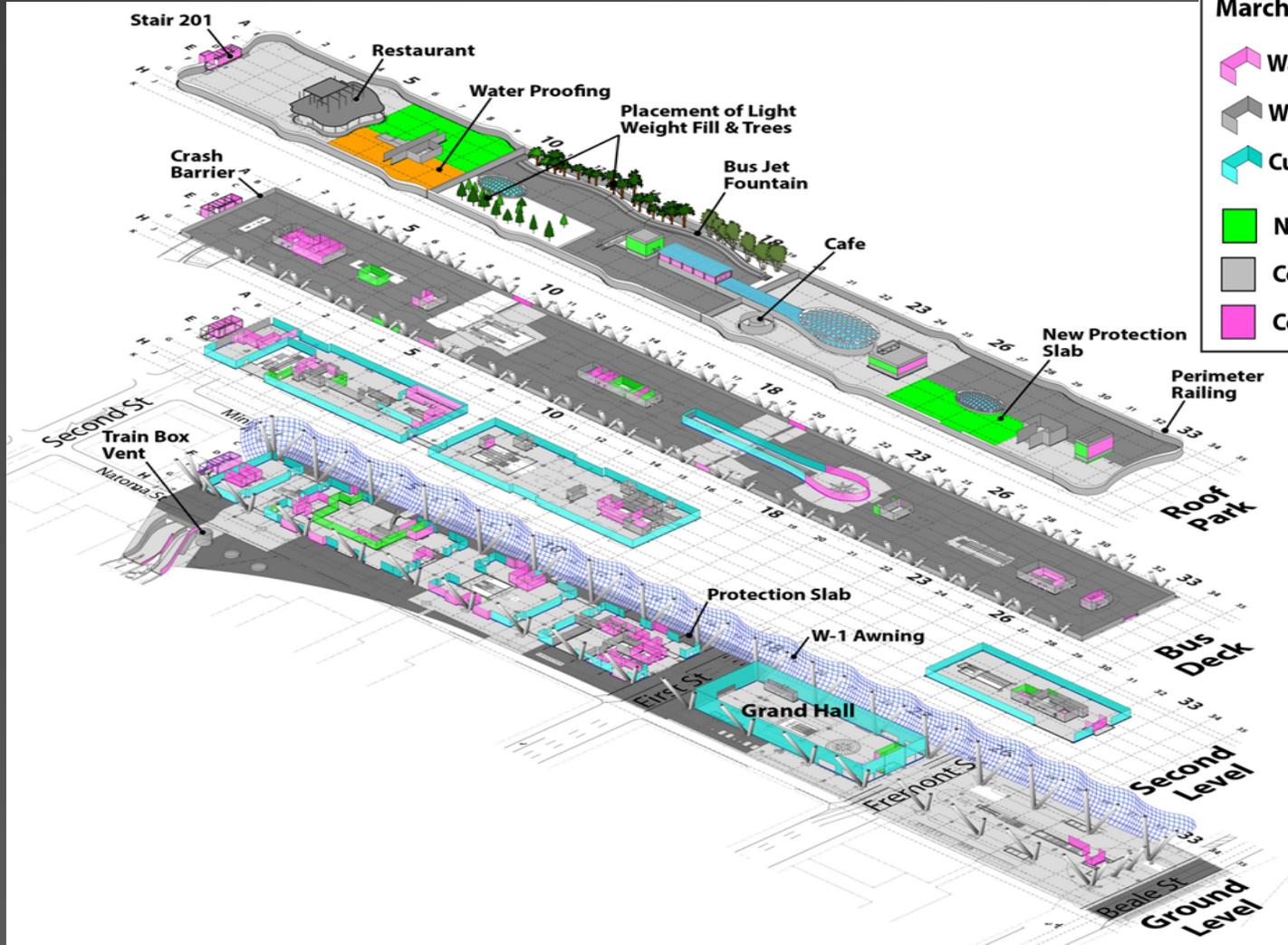
1. Construction Activity
2. Safety & Labor Statistics
3. Budget Overview
4. Contingency Cost
5. Schedule
6. Risks/Operational Readiness



Transit Center – Upper Levels and Roof Park

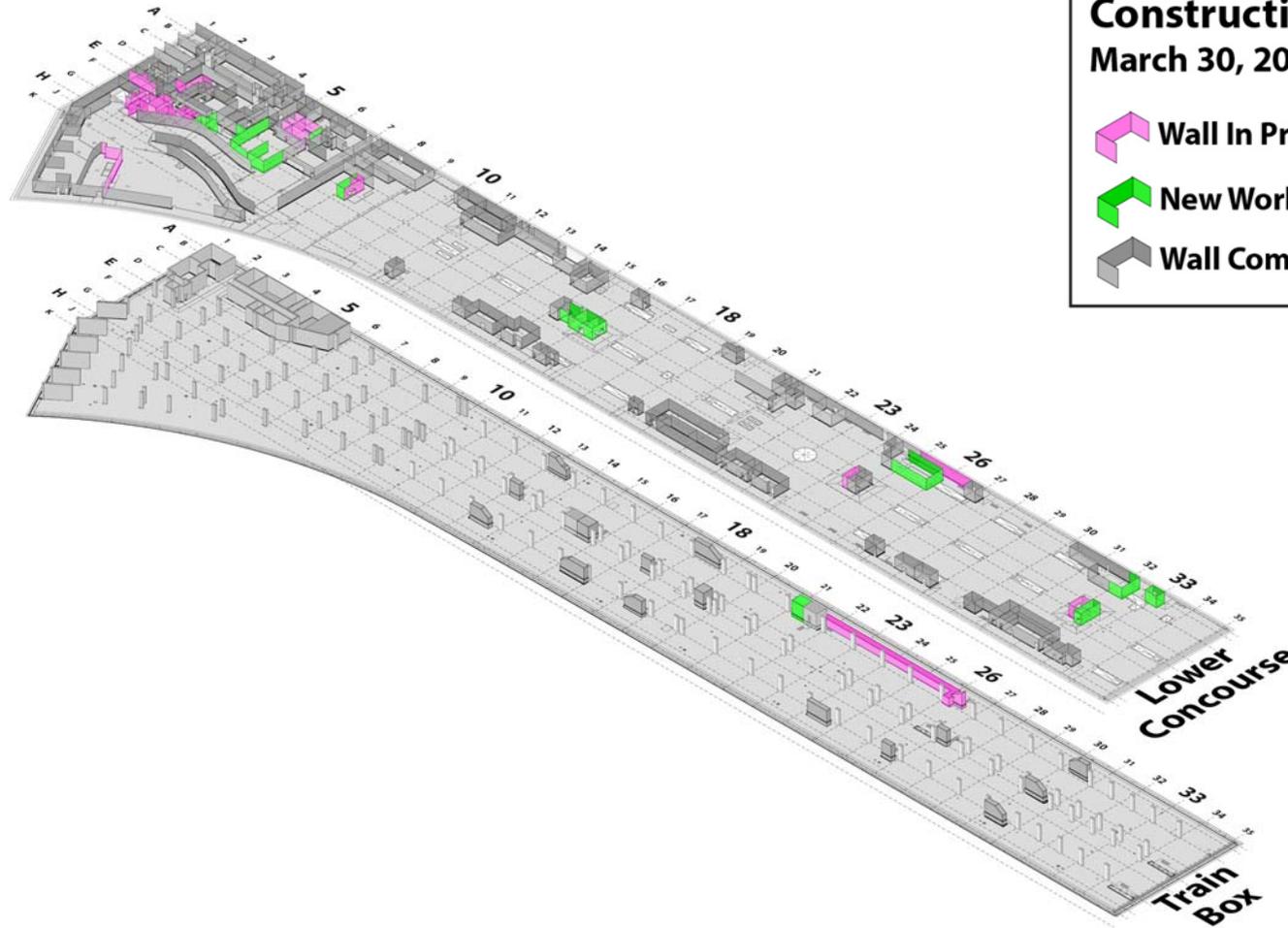
**Transbay Transit Center
Construction Progress
March 30, 2017 - April 27, 2017**

-  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
March 30, 2017 - April 27, 2017**

-  Wall In Progress
-  New Work Completed
-  Wall Complete



Western Zone (GL 1-10)

- Rooftop waterproofing and protection is underway.
- W1 Exterior Awning nearing completion.
- Bus Deck ceiling framing well underway.
- Main Distribution Frame (MDF) Room and Intermediate Distribution Frame (IDF) Rooms are underway. Electric switchgear and transformer rooms near completion.
- Equipment rooms buildout in progress. (Fire water tanks, Pumps, HVAC Units)
- Metal stud framing of walls, gypsum board, and curtain wall systems install underway.





Central Zone (GL 10-20)

- Rooftop landscaping and fountain is underway in the north and south.
- All rooftop glass (W10 skylight, W8 glass canopy wall) is installed with trim and leak testing underway.
- Rooftop and Bus Deck seismic joint assembly/ install is in progress.
- Glass Curtain Wall systems install at the Bus Deck level and Ground level are nearing completion.
- Wall framing, gyp board, and metal wall panel enclosures in progress.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) install continues.
- Buildout of the Main Electrical, Switchgear and Main Transformer rooms continues.





Construction Activity March and April 2017



Eastern Zone (GL 20-35)

- Rooftop Café walls complete.
- Rooftop Light Column “Oculus” Skylight W4 Glass Curtain wall is installed with trim underway.
- Rooftop waterproofing and slab protection continues.
- W1 Exterior Awning installation now in progress.
- Bus Deck concrete drive aisle and pedestrian island nearing completion awaiting scaffold removal and bollards around Light Column.
- All levels now have metal stud framing of walls, gypsum board, curtain wall systems installation underway.
- MEPF systems installation and testing continues at all levels.



Beale Street Bridge Removal March 2017



SEQUENCE

1. Beale Street full closure Friday night March 4, 2017.
2. Bridge Demolition, underground utility work, OCS foundations and poles and
3. Beale Street backfill, compaction, Beale curb and gutter and other Civil work.
4. OCS foundations and poles completed - coordinated with other Projects.
5. Transbay permanent OCS Poles and switches, OCS overhead wires
6. Bus testing completed Friday night March 31, 2017.
7. Beale Street open Saturday April 1, 2017



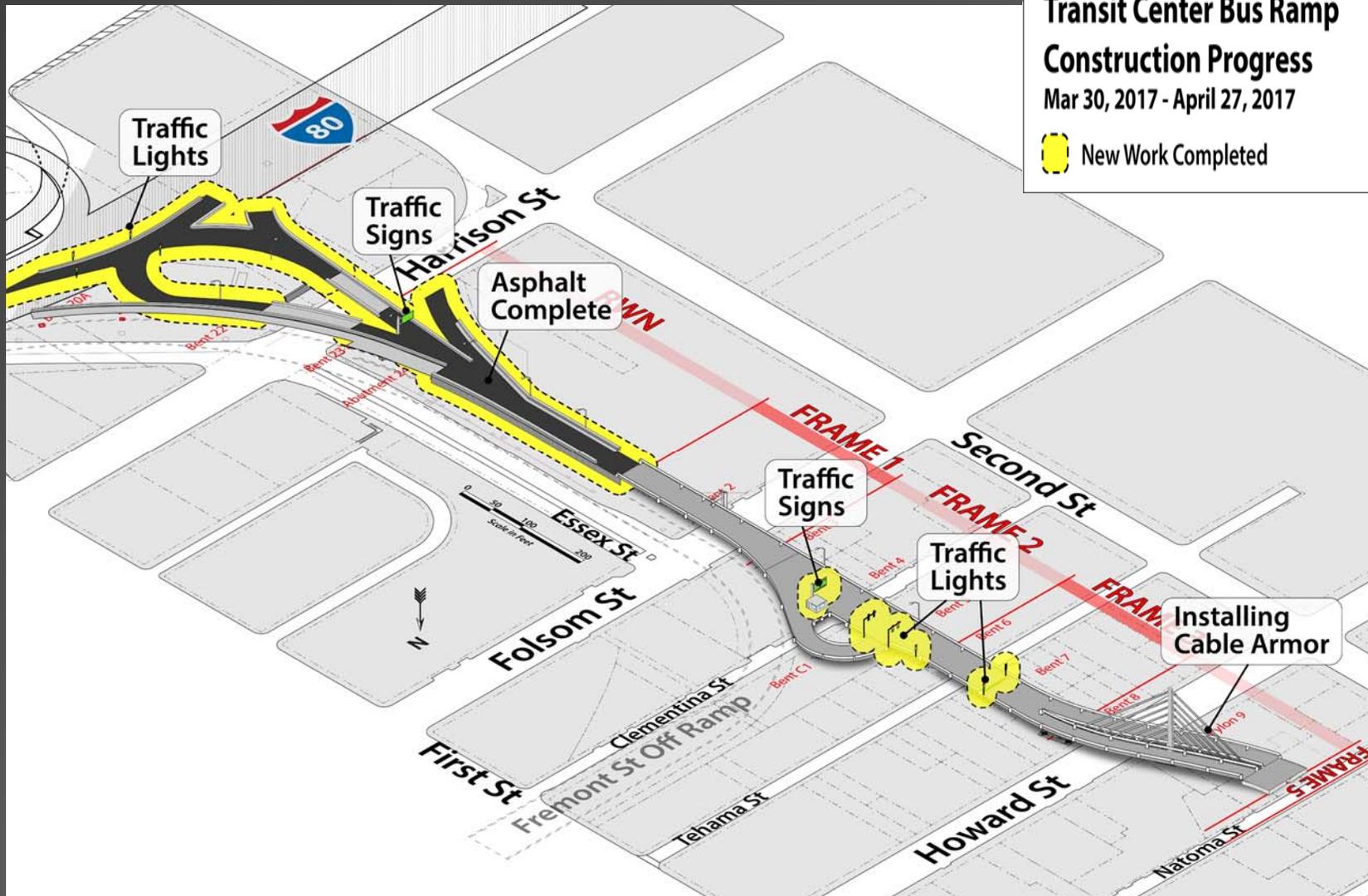
Bus Ramp and Cable Stay Bridge

Transit Center Bus Ramp

Construction Progress

Mar 30, 2017 - April 27, 2017

 New Work Completed





Bus Ramp/Bridge

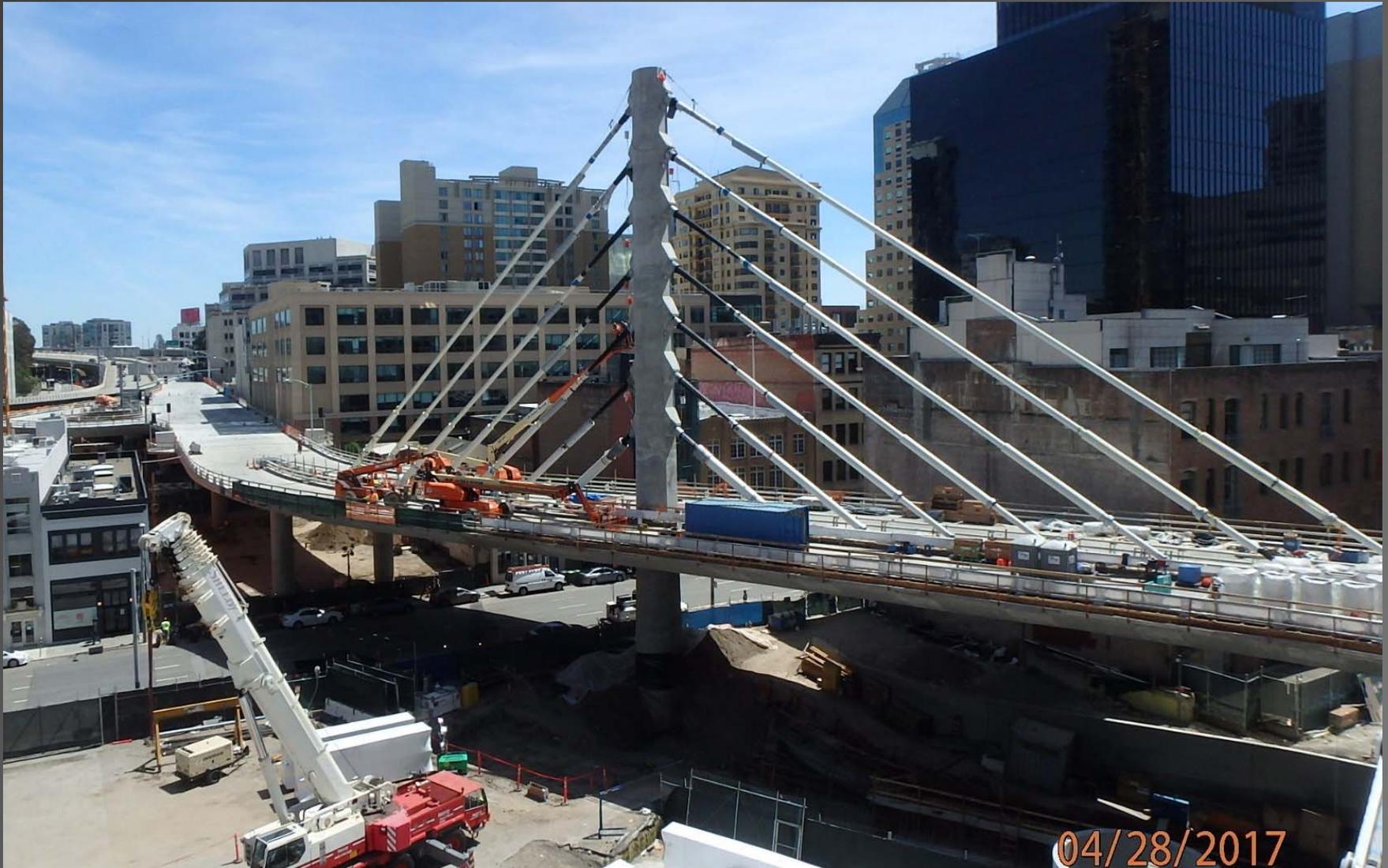
- All approach slabs and final asphalt paving is complete at all areas of the Bus Ramp.
- Concrete barriers and ST-10 steel railings near complete all areas.
- Security Guard Booth and security cameras are in testing.
- Overhead message signs, Ramp street lights and ramp crash cushions are now installed.
- On Ramp Bus Test with both AC Transit and SFMTA for final striping was satisfactorily completed on April 19-20.
- Cable Stay Bridge contractor (VSL) is near completion.





Transbay Transit Center

Construction Activity





Bus Storage Facility

- Contract awarded to Ghilotti Construction Company at March TJPA Board Mtg.
- Project Labor Agreement (PLA) Meeting with Building Trades was held April 19th.
- Pre-Construction (Kick-off) Meeting was held April 20th.
- Archaeology field work was completed May 1st.
- Neighborhood public outreach initiated in April.
- Parking Vendor and patrons notified that all parking will cease on May 15th.
- Construction completion is Summer 2018.



Safety Week 2017





Recordable & Lost Time Incidents:

Recordable Incidents this period – March & April 2017:	2	Lost Time Incidents this period – March & April 2017:	1
Total Recordable Incidents in 2017:	3	Total Lost Time Incidents in 2017:	1
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

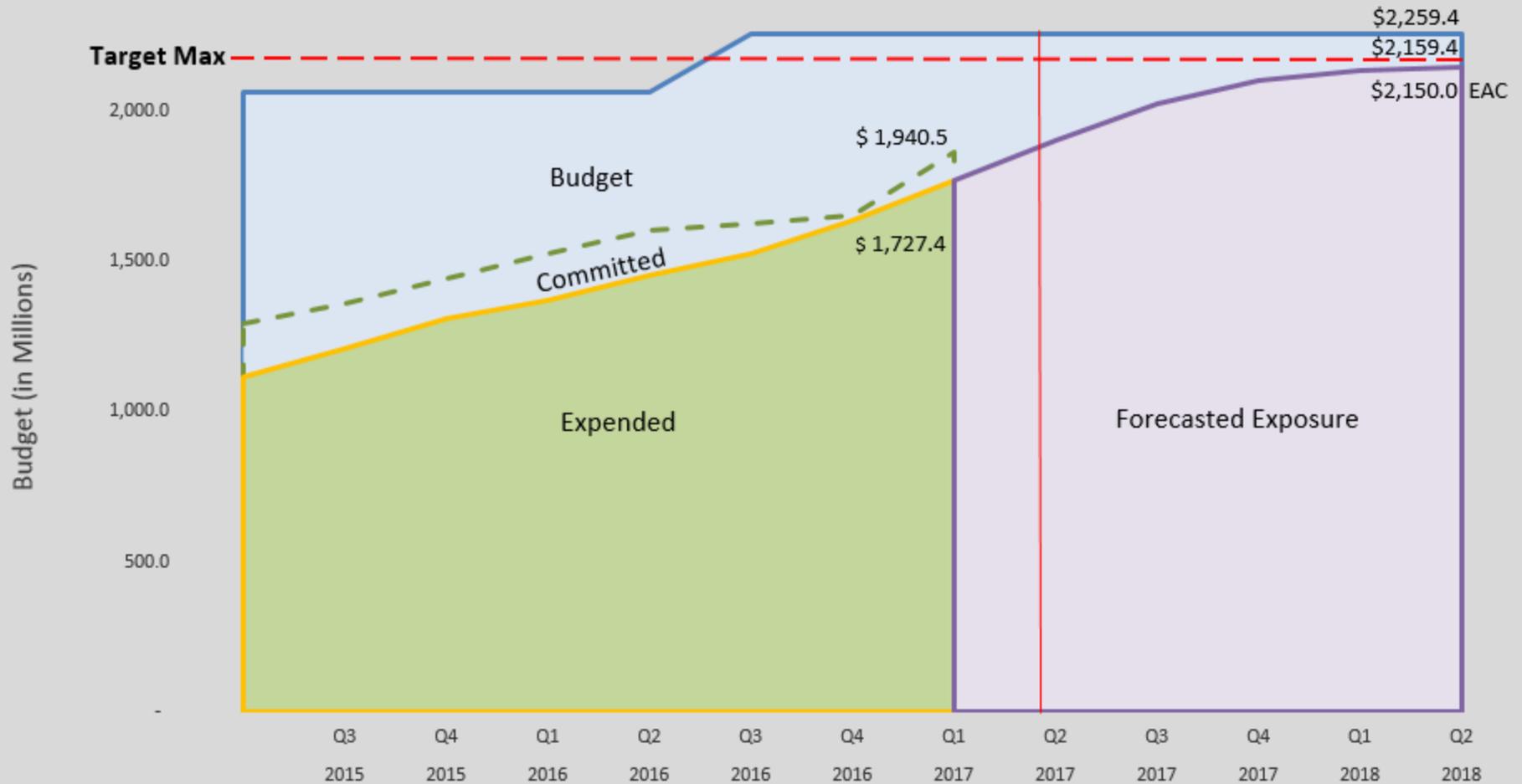
Craft Hours:

Total Transit Center Craft Hours Year 2011 - YTD 2017 :	Total Hours this Period – <u>March & April 2017:</u>	Total Transit Center Craft Hours YTD 2017 :
3,423,919	376,839	578,004



Phase 1 Transbay Transit Center

Data thru: March 17



76% Program Budget
90% 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 Feb 2017	(\$22.1)	(\$2.0)	\$5.1	(\$19.2)
Remaining Baseline Budget Amounts (Feb 2017)	\$39.7	\$30.5	\$122.0	\$192.2
Total Draws/Adds March 2017	(\$0.5)	(\$0.1)	(\$0.0)	(\$0.6)
Remaining Balances	\$39.2	\$30.4	\$122.0	\$191.6

Uses of Contingency this period:

Misc. Metals changes, Misc. Electrical changes, Civil Works and MEP trades and Fireproofing. Bus Ramp Project misc. changes.

Forecasted Contingency Use

CM/GC: \$0.6

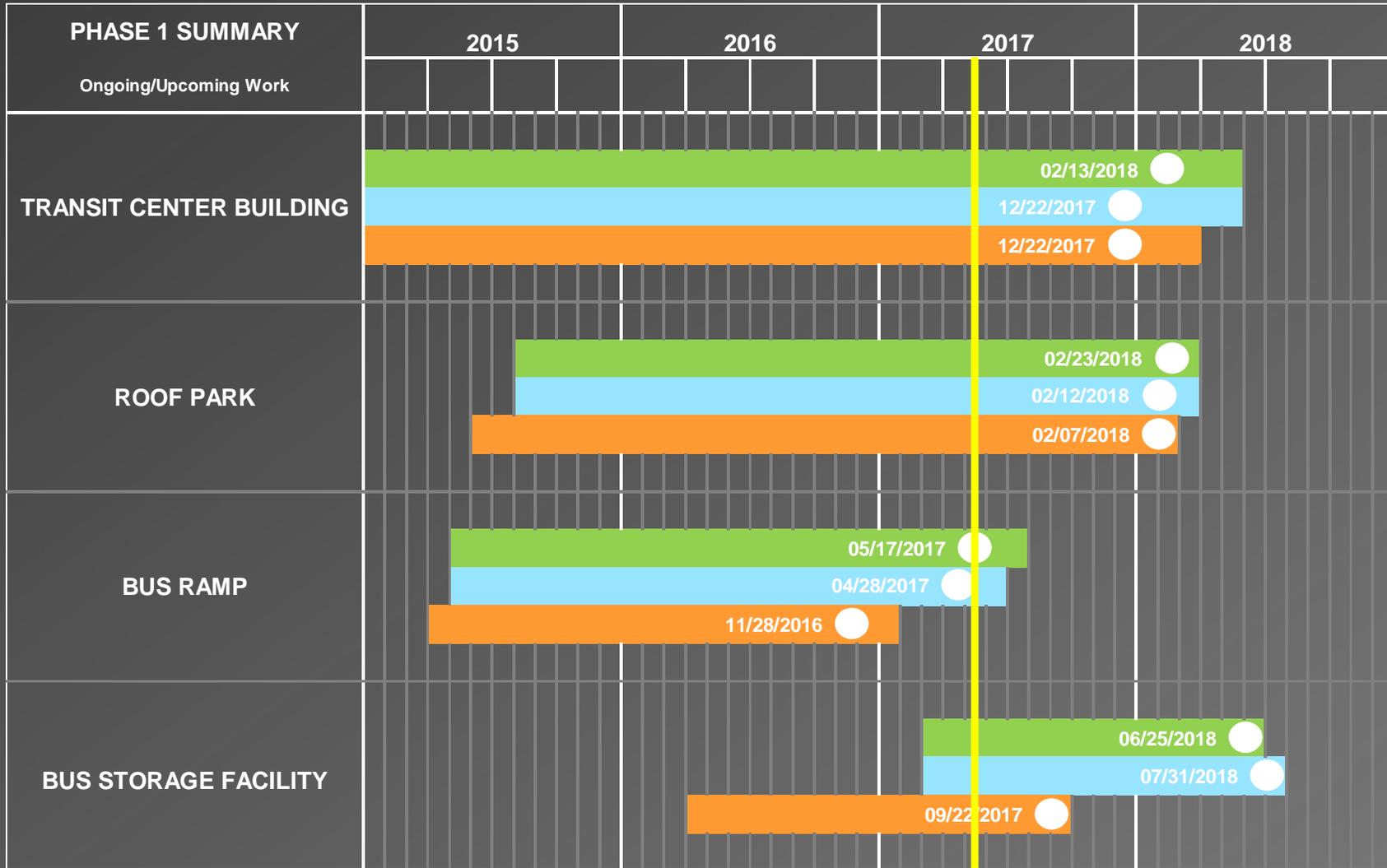
Construction: \$3.7

Program Reserve: \$0



Transbay Transit Center

Schedule



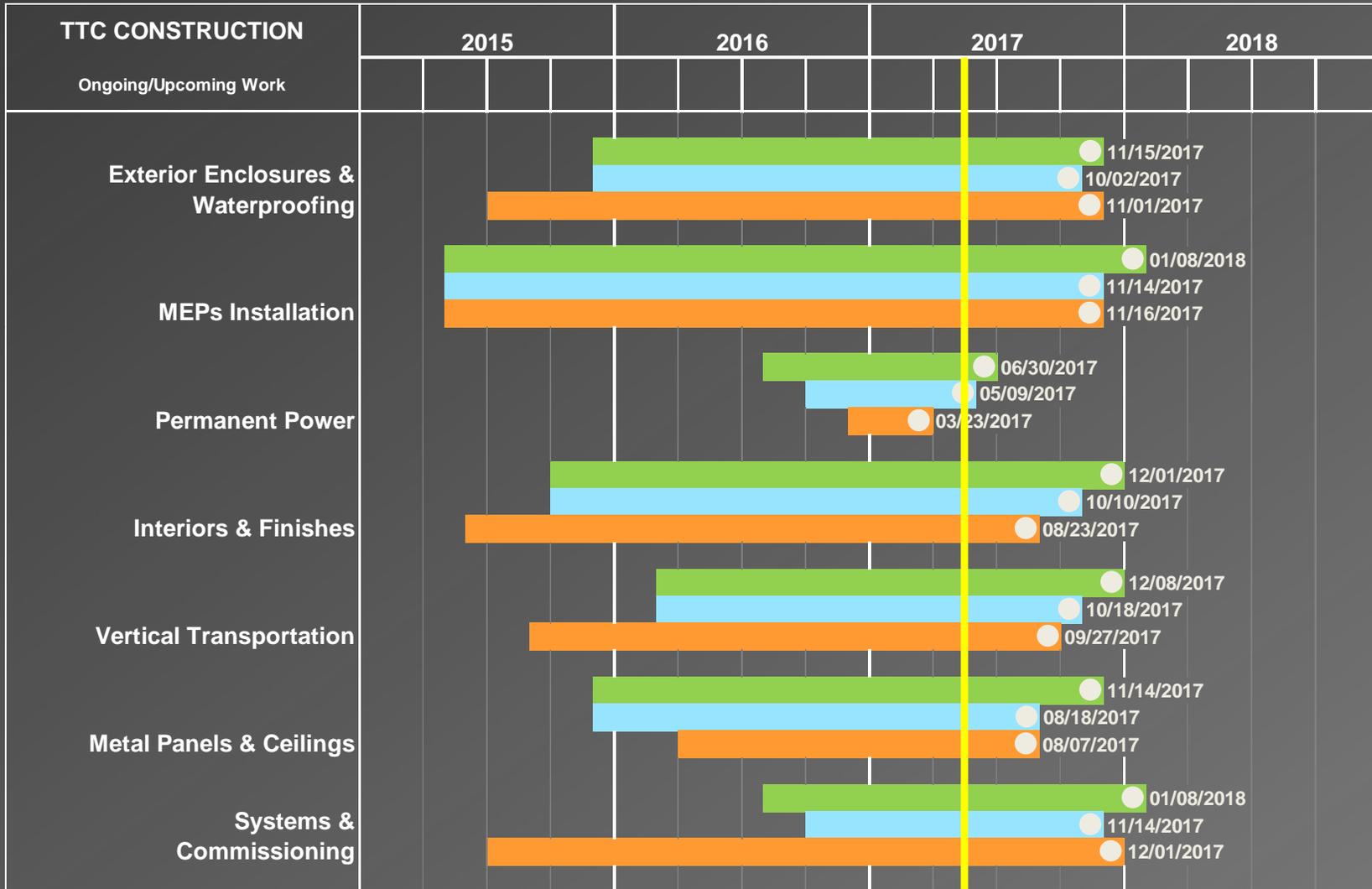
LEGEND

- Current Forecast
- Previous Report
- Baseline
- Substantial Completion



Transbay Transit Center

Schedule



LEGEND

- Current Forecast
- Previous Report
- Baseline
- Construction Complete



Schedule

Schedule currently indicating a 7 week slippage on Substantial Completion.

Challenged Activities include:

1. Electrical Subcontract both Normal Voltage and Low Voltage Distribution.
2. Main & Intermediate Distribution Frame Rooms. (MDF & IDF Rooms)
3. Concern on Roof Park soil installation.

Mitigation Measures

1. Enlisted additional 2nd Tier Electrical Subcontractors for selective work.
2. Implementation of strategic premium time work hours on weekends.
3. WOJV elevated focus on Commissioning with new personnel.
4. Project Leadership issue resolution forum continues to avoid delays.



Systems Installation & Commissioning

Building Management, Fire / Life Safety and Security Systems installation and commissioning activities will drive the schedule as we approach Substantial Completion.

Pre-Mitigation Strategy

1. Focus of Bi-monthly Temporary Certificate of Occupancy (TCO) Meetings.
 - Activity Concentration on Priority Electrical and Data Rooms.
 - Permanent Power to Power to Building.
2. SFFD Fire Alarm Review and Approvals followed on Risk List closely.
3. Specific Items to monitor:
 - Roof Park Pylons relationship to Fire Alarm System as well as Emergency Communication System / Mass Notification.
 - Door Hardware interface & coordination with Building Management Systems & Security Systems.



Concerns

1. Asset Manager 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.
3. Establishment of Operational Budget & Plan.
 - Security Staffing.
 - Facility & Park Operations Staffing.



Concerns

4. Completion of MOU's and Agreements with Transit Operators.
 - Transit Agency participation letters / term sheets distributed.
 - Related Tenant Improvement Completion.
 - Sidewalk Legislation Approval – curbside operations.
5. Neighboring Project Work.
 - Street closures and related disruptions.
 - Mission Square completion schedule.



Transition Update

- Final Transition Plan & Schedule now positioned to advance in full force:
 - Facility Manager – Hired and Began Work on April 17, 2017.
 - Chief Security Officer – Hired and Began Work on April 17, 2017.
 - Asset Manager –
 - Contract approved by Board at March Meeting.
 - Contracting and Planning Advancing.
- Forecast for Full Transit Operations Remains:
 - AC Transit : March 2018
 - Muni : March 2018
 - Others : To be determined
- Primary Transition window remains in January & February 2018.

Transit Center Opening

Working Group Convened Communications Staff from Partner Agencies to Discuss Initial Ideas, Identify Best Approaches to Educate Public, and Determine Next Steps

- San Francisco Public Works
- AC Transit
- San Francisco Municipal Transportation Agency
- Additional Partner Agencies, Including Funding Partners, Will Be Incorporated as Planning Process Proceeds (Caltrain, CalTrans, SFCTA, MTC)

Bus Ramp Completion Print and Broadcast Exclusives to Highlight Completion and the Benefits of Direct Bridge Connection for East Bay Bus Traffic

Substantial Completion Series of Targeted Media Tours at Substantial Completion and Press Release to mark Milestone

Proposed Opening Day Event Details

- Media Tours Scheduled for Week Preceding Opening Event
- Flyers and Community Guides at Temporary Terminal
- Program in Grand Hall (Eliminates Weather Uncertainty)
- “Open House” Following Program to Allow Public to Explore TTC and Rooftop Park
- Planned for Week of President’s Day in 2018
- ❖ Falls Immediately After Park Completion and Just Before Beginning of AC Transit Operations
- ❖ Coincides with Congressional Recess

