

Construction Update

December 2017



Project Overview

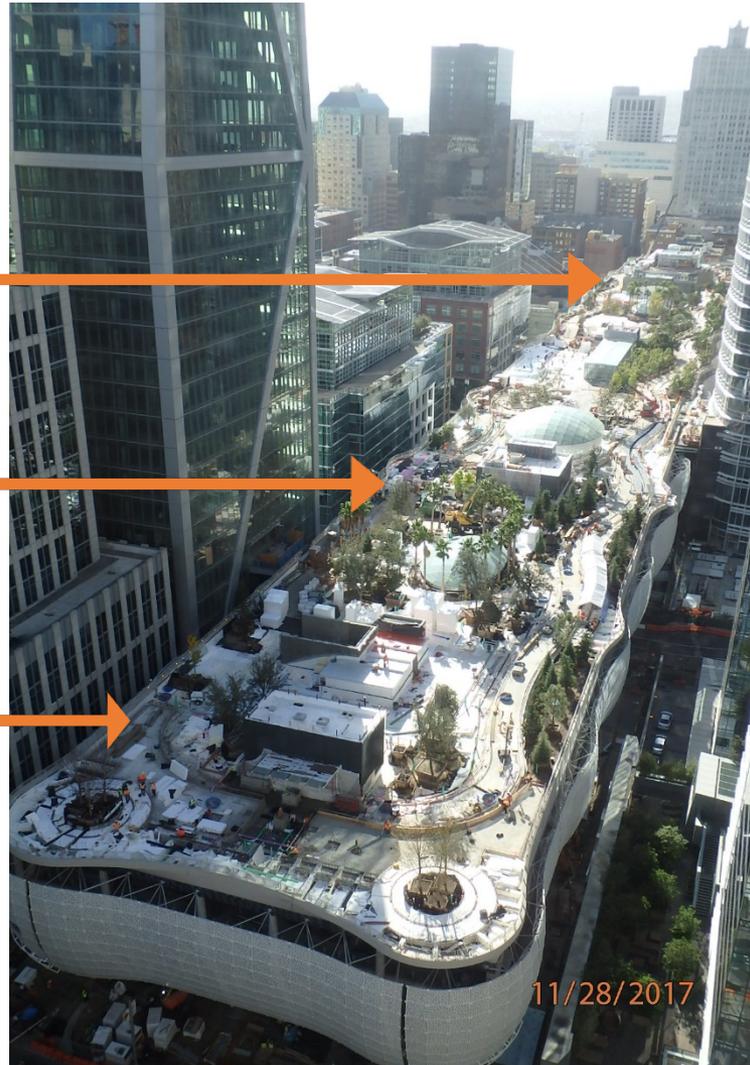
Western Zone Grid Line 1-10



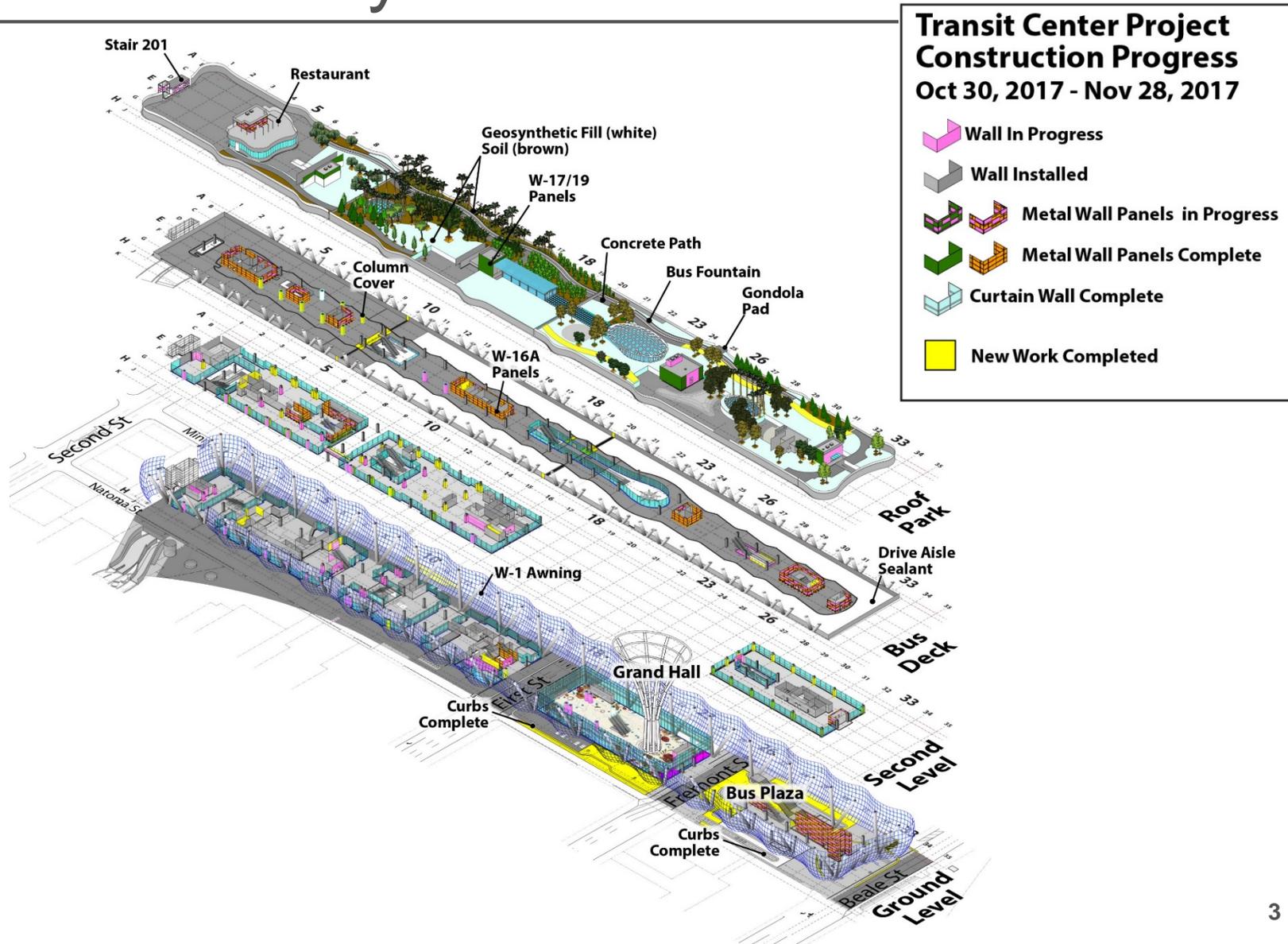
Central Zone Grid Line 10-20



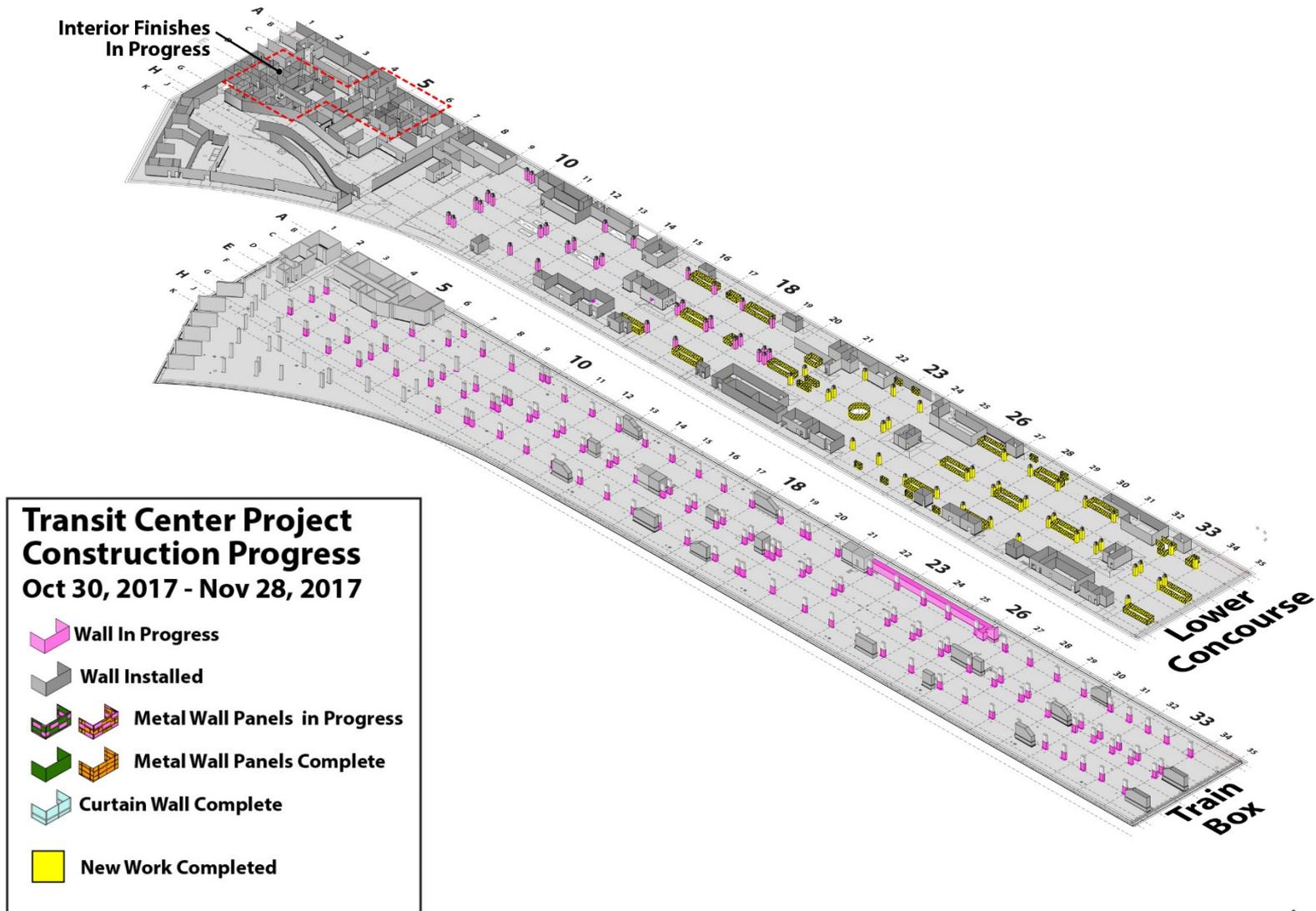
Eastern Zone Grid Line 20-35



Recent Activity



Recent Activity



Construction Activity

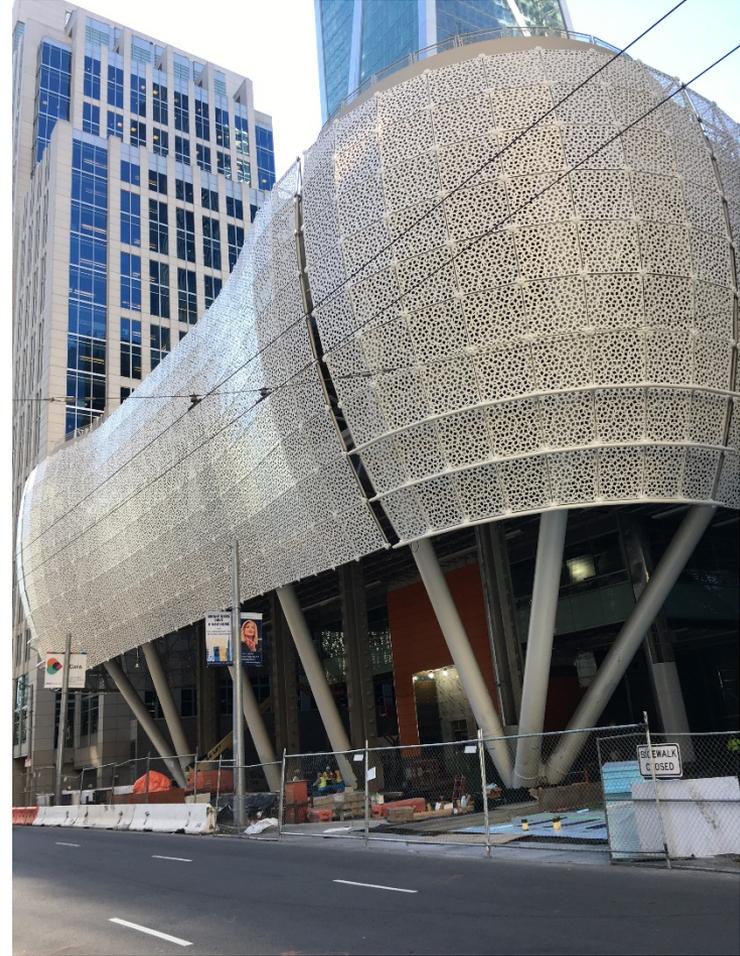
Transit Center – West End (GL1-20)

- Rooftop Restaurant shell continues.
- Rooftop landscaping well underway.
- Rooftop granite pathway pavers underway.
- Bus Deck Mechanical, Electrical, Plumbing underway including hydrotesting.
- Bus Deck ceiling drip panels underway.
- Bus Deck column covers in progress.
- Bus Deck drive aisle coating underway.
- Elevators and Escalators underway.
- Ground Level sidewalks and roadways construction – Minna and Natoma.
- Electrical power cable distribution continues. Electrical conduits continue.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.
- Walls gypsum board and painting and Metal wall panels underway.

Transit Center – East End (GL20-35)

- Rooftop Gondola now under construction.
- Rooftop landscaping well underway.
- Rooftop granite pathway pavers underway.
- Bus Deck Mechanical, Electrical, Plumbing underway including hydrotesting.
- Bus Deck ceiling drip panels underway.
- Bus Deck column covers in progress.
- Elevator and Escalators underway.
- Grand Hall -Terrazzo 100% complete.
- MUNI Bus Plaza drive aisle and pedestrian islands construction in progress.
- Electrical power cable distribution continues. Electrical conduits continue.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.
- Walls gypsum board and painting and Metal wall panels underway.

Awning – Architect/Artist Vision versus Construction progress to date



November 27, 2017

Bus Deck Level – Bus Drive Aisle Testing



December 7, 2017

Bus Deck Level – Bus Drive Aisle Testing

December 7, 2017



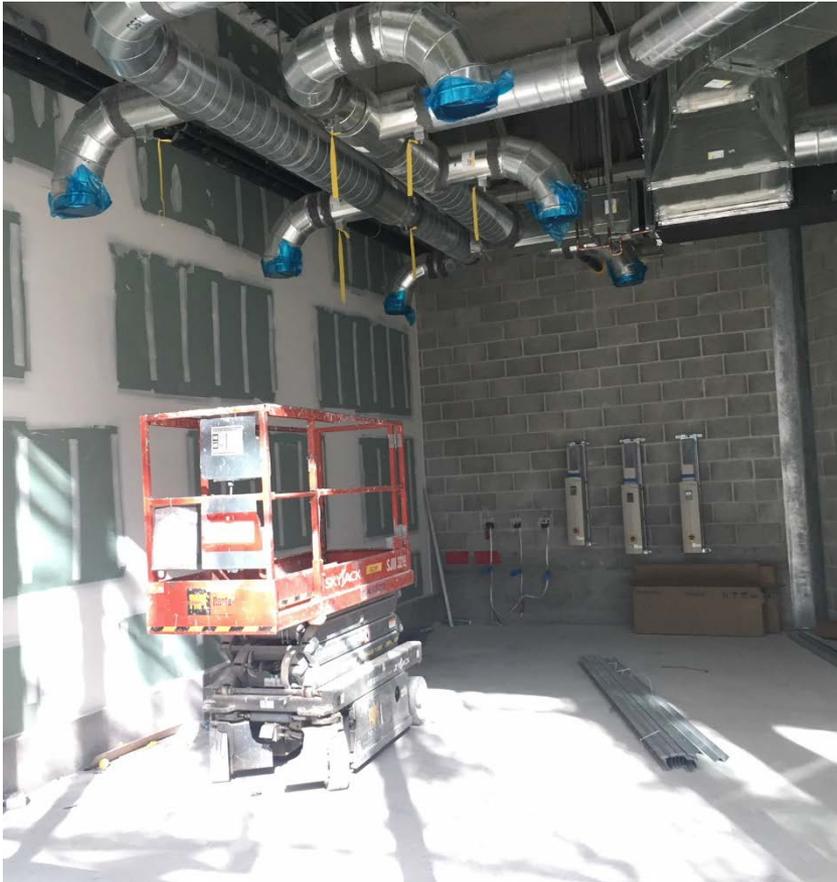
MUNI Bus Plaza – Buildout & Testing



First bus to enter the Muni plaza for testing on December 6th.

Room Readiness

*Mail Room 1380
being readied for turnover.*



*Greyhound Package Area Room 1221
Equipment Delivered.*



Utility Construction progress



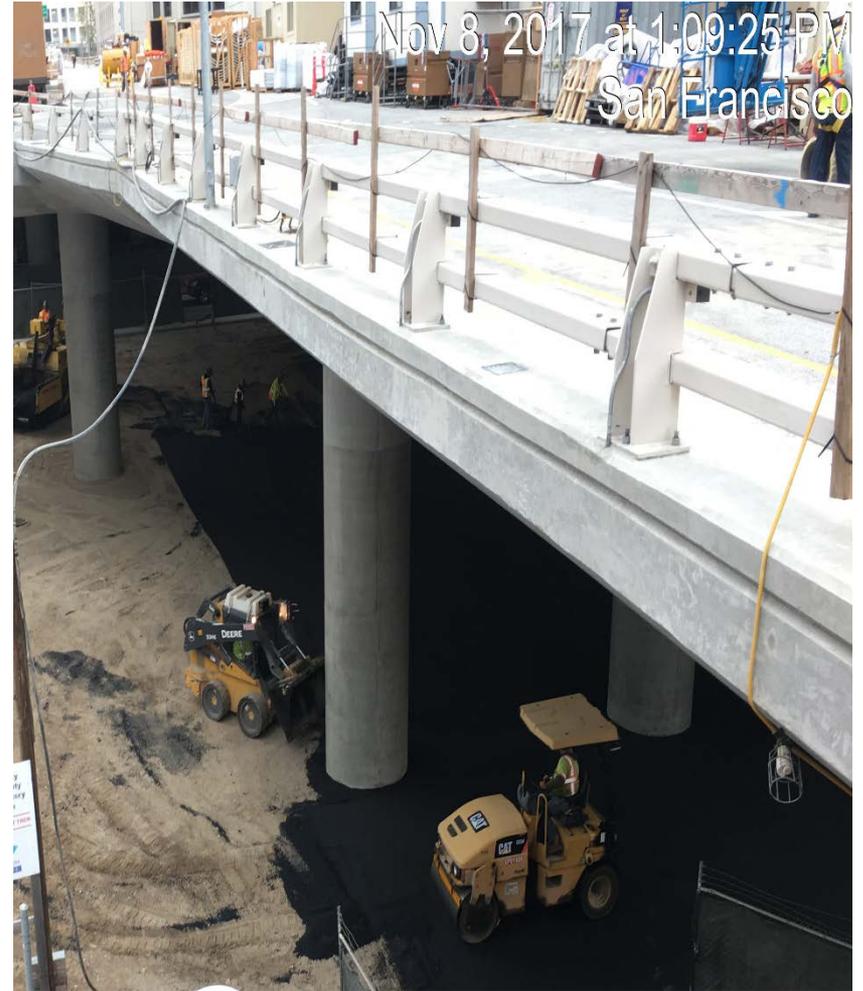
Rooftop Park Gondola - Drive Assembly saddles and Rooftop tension frame



November 17, 2017



Bus Ramp and Cable Stay Bridge



Bus Storage Facility

Construction Progress

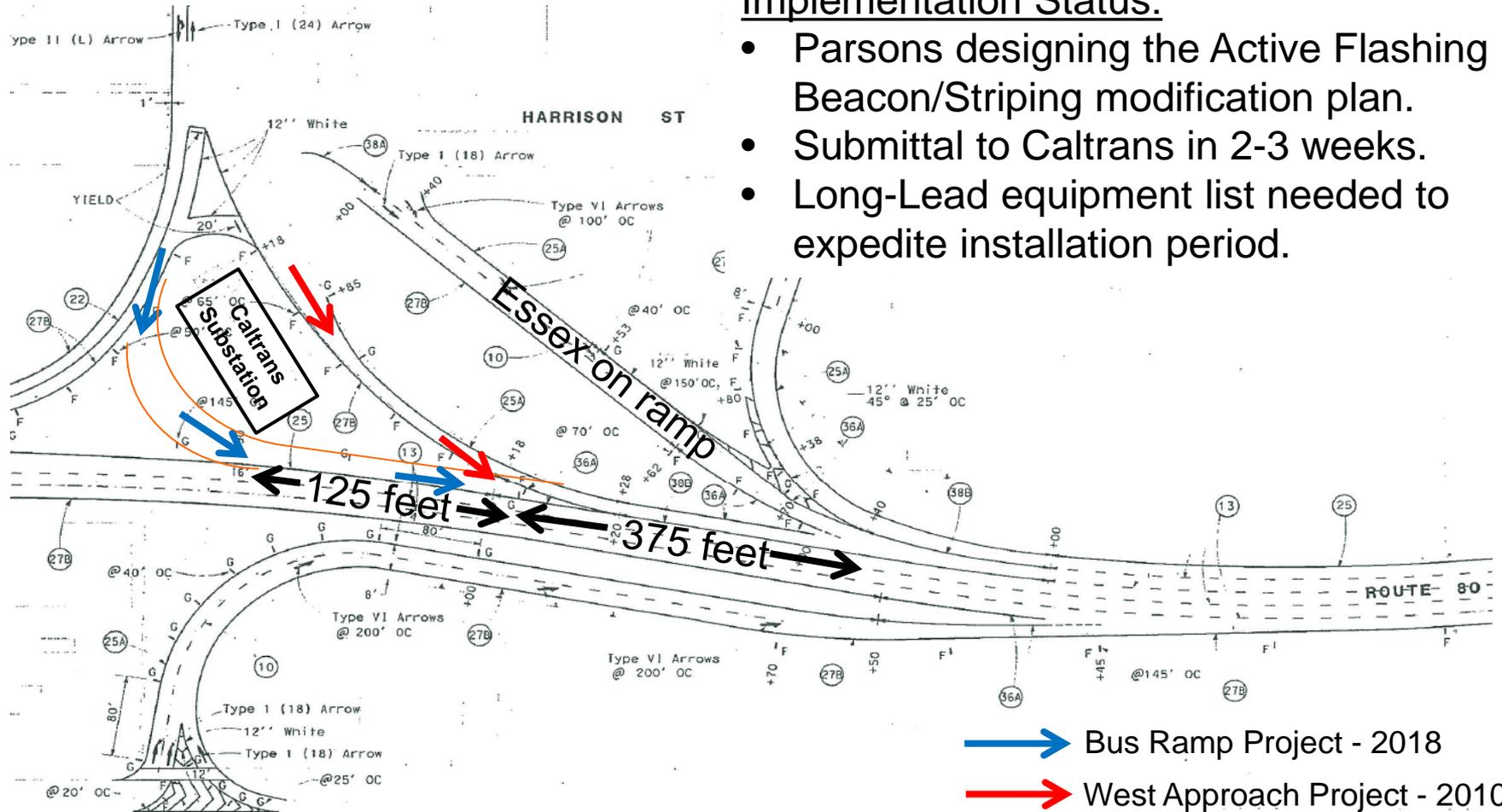
- Excavation/grading ongoing.
- Underground Utilities in progress.
- Retaining Wall Rebar & concrete pours ongoing.
- Bridge stem & soffit poured December 4th.
- Upcoming bridge deck pour on December 21st.
- 2nd street closed for nighttime pour.



Bus On-Ramp Merge

Implementation Status:

- Parsons designing the Active Flashing Beacon/Striping modification plan.
- Submittal to Caltrans in 2-3 weeks.
- Long-Lead equipment list needed to expedite installation period.



Eastbound Bay Bridge Approach

Safety and Labor Statistics

Recordable & Lost Time Incidents:

Recordable Incidents this period November 2017:	2	Lost Time Incidents this period November 2017:	0
Total Recordable Incidents –Year 2017:	11	Total Lost Time Incidents - Year 2017:	3

WOJV Average Annual Recordable Incident Rate 2011 Through 2016	2.99	WOJV Average Annual Lost Time Incident Rate 2011 Through 2016:	0.33
Nat'l/ State Annual Average Recordable Incident Rate- Public Works 2011 Through 2016:	2.90	Nat'l/ State Annual Average Lost Time Incident Rate 2011 Through 2016:	1.36

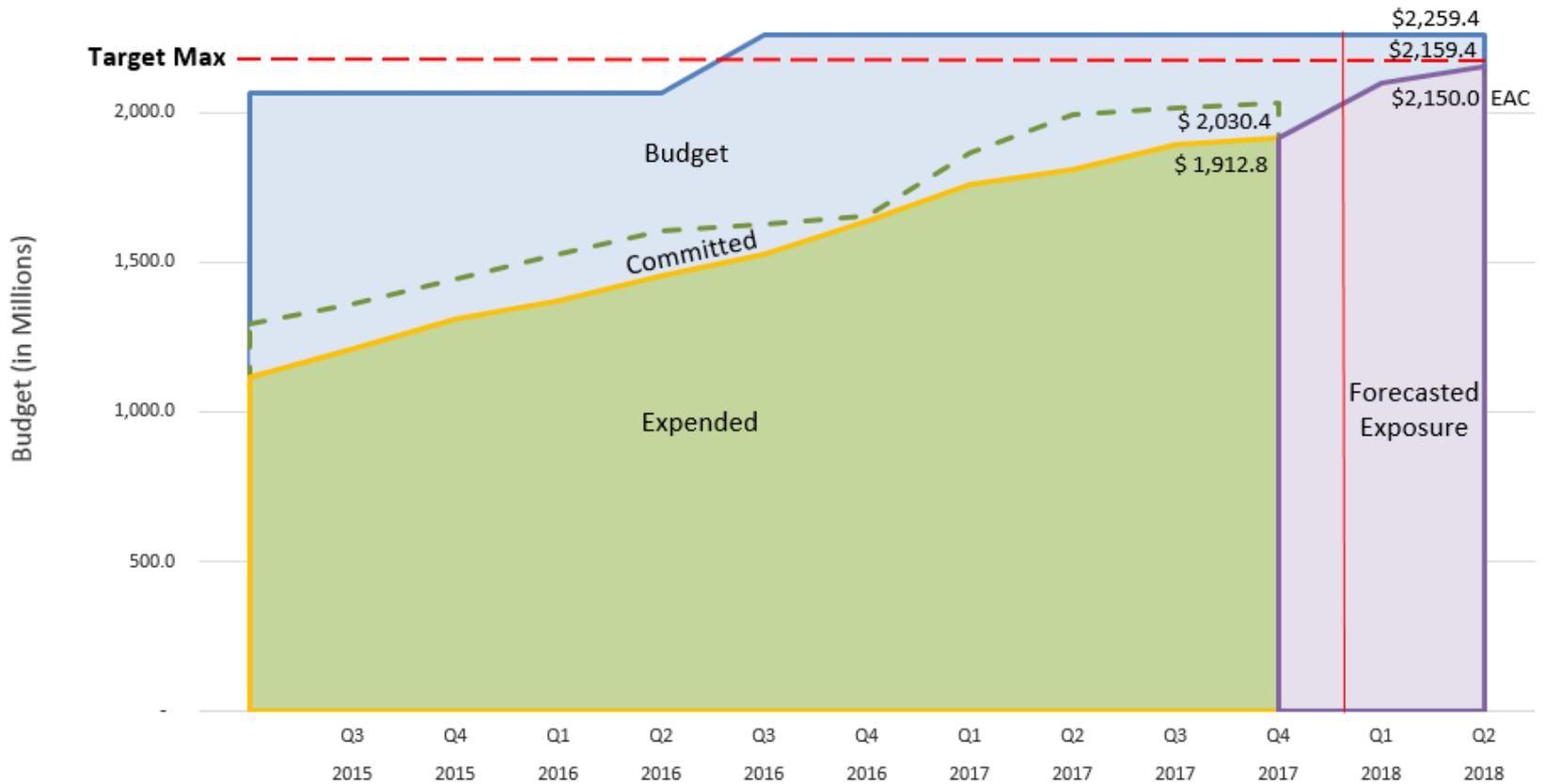
Craft Hours:

Total Transit Center Craft Hours 2011 - YTD 2017 :	Total Craft Hours <u>Nov. 30, 2017:</u>	Total Transit Center Craft Hours YTD 2017 :
4,329,369	120,687	1,483,454

Budget

Phase 1 Transbay Transit Center Program

Data thru: October '17



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 Oct 2017	(\$31.6)	(\$4.0)	\$1.1	(\$34.5)
Remaining Baseline Budget Amounts (Oct 2017)	\$30.2	\$28.5	\$118.0	\$176.7
Total Draws/Adds November 2017	(\$8.4)	(\$0.1)	(\$0.0)	(\$8.5)
Remaining Balances	\$21.8	\$28.4	\$118.0	\$168.2

Uses of Contingency this period

Structural Steel revisions due to W Systems, Temporary Facilities additional scope, Plumbing Vent changes, ASI 141 added scope to Metal Panels.

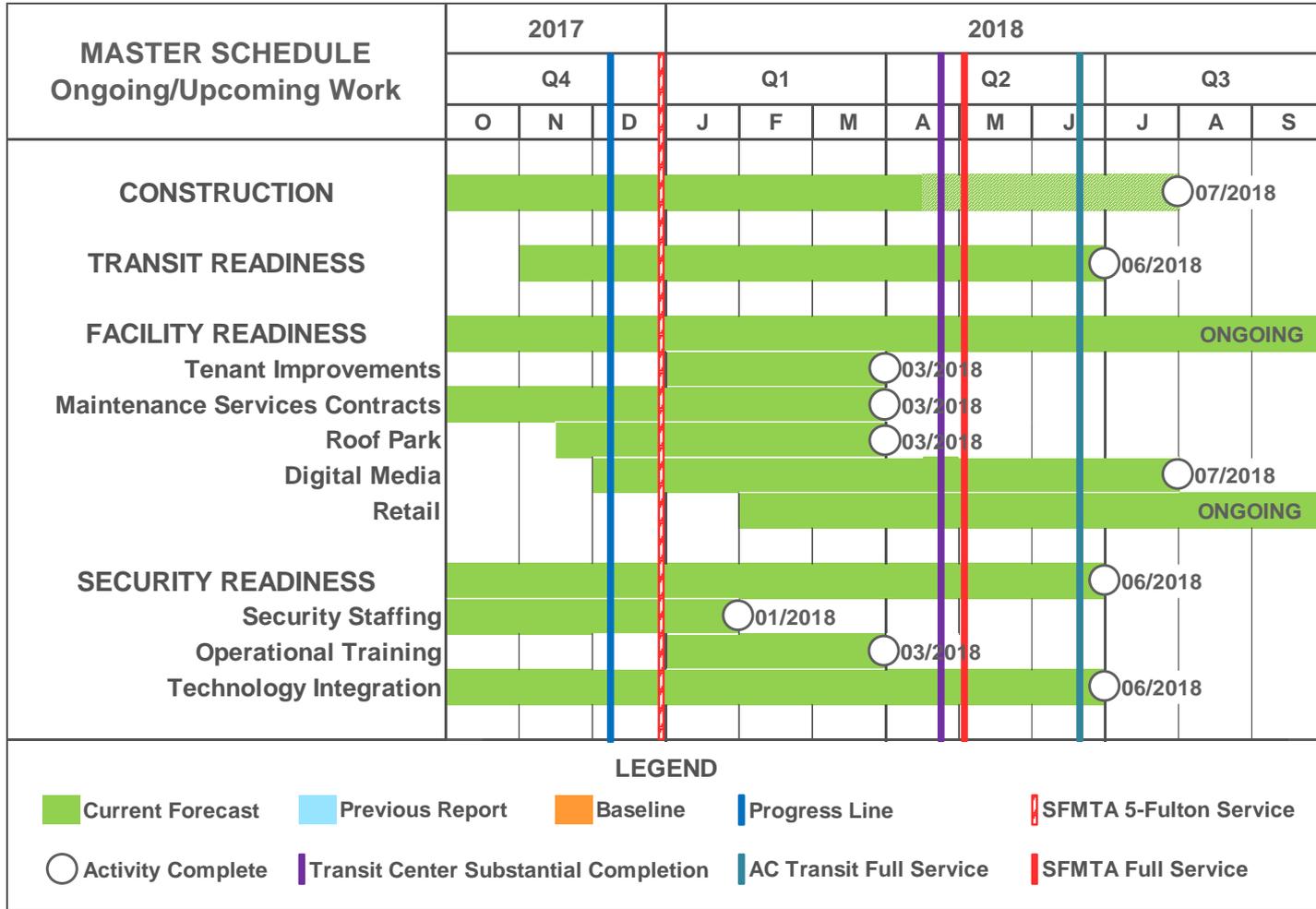
Forecasted Contingency Use

CM/GC: \$0.4

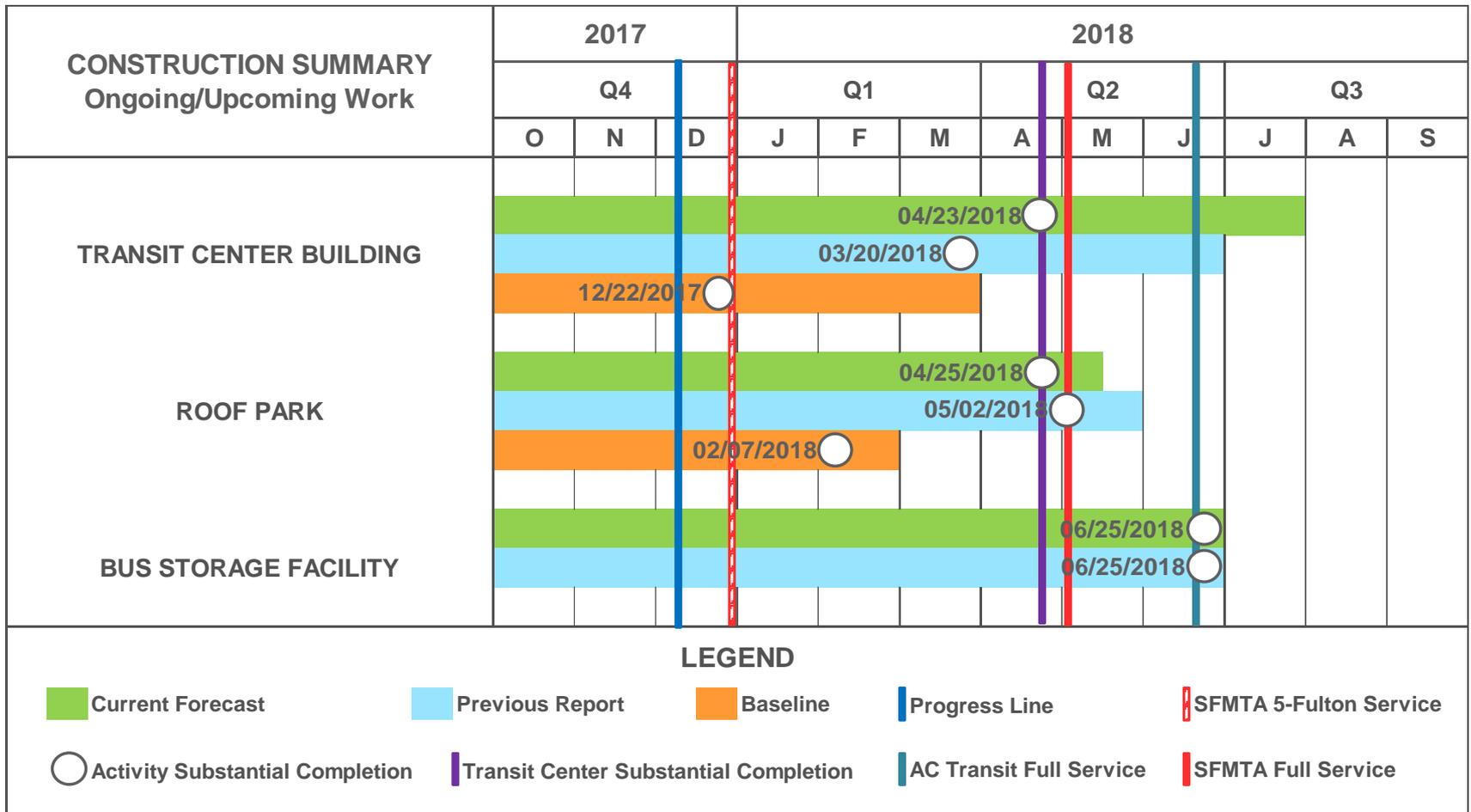
Construction: \$0.5

Program Reserve: \$25.0

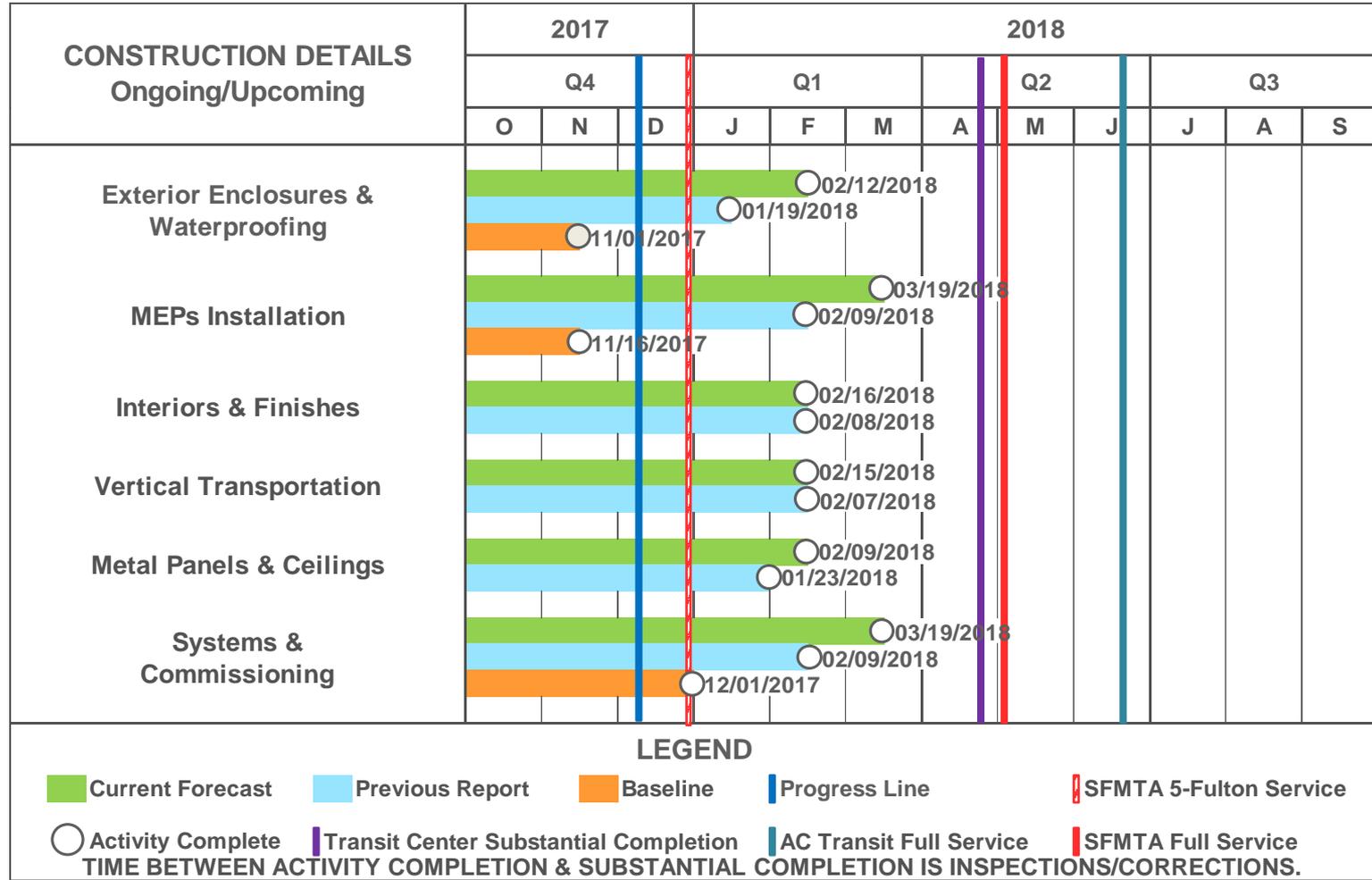
Schedule



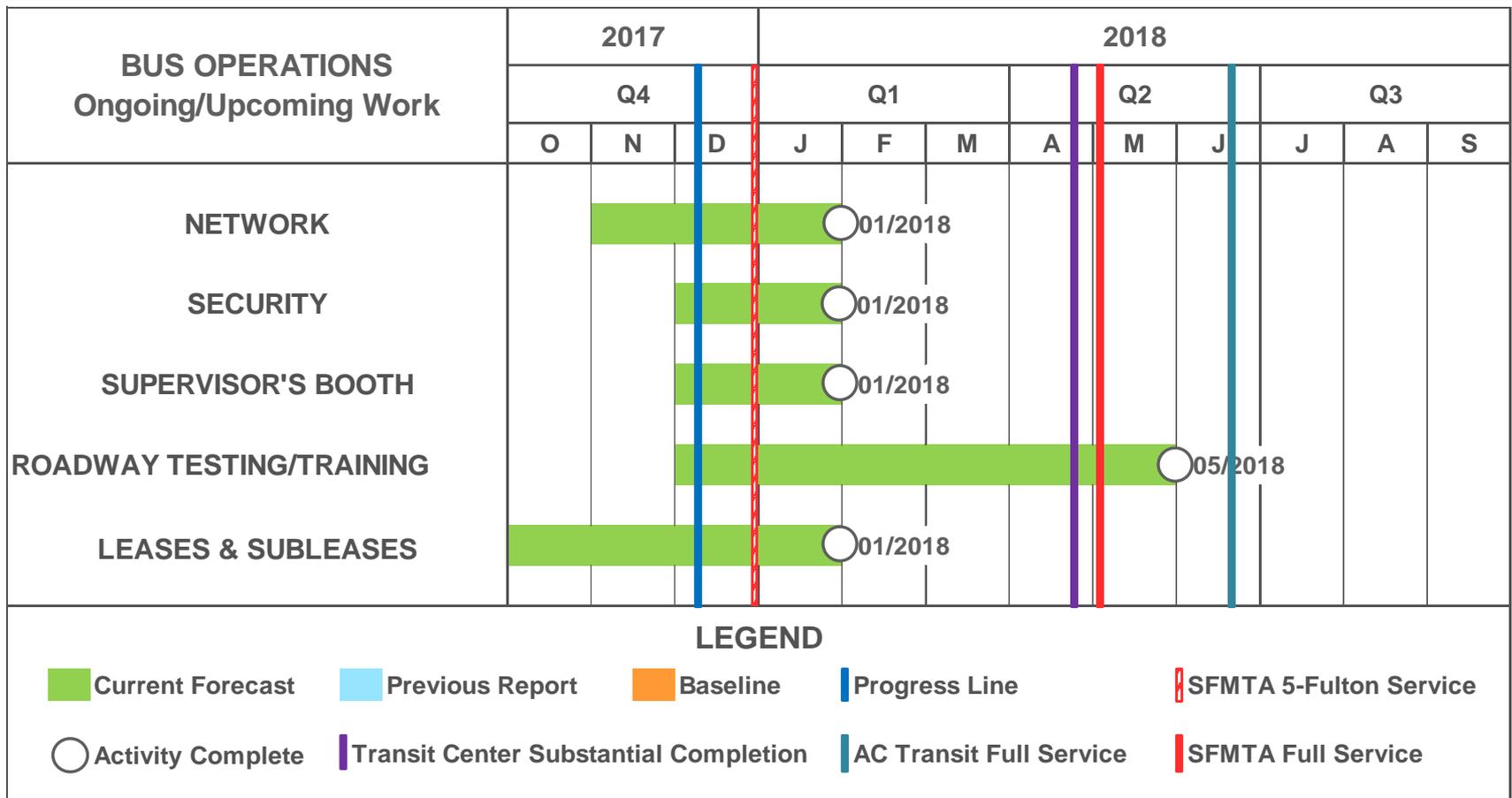
Schedule



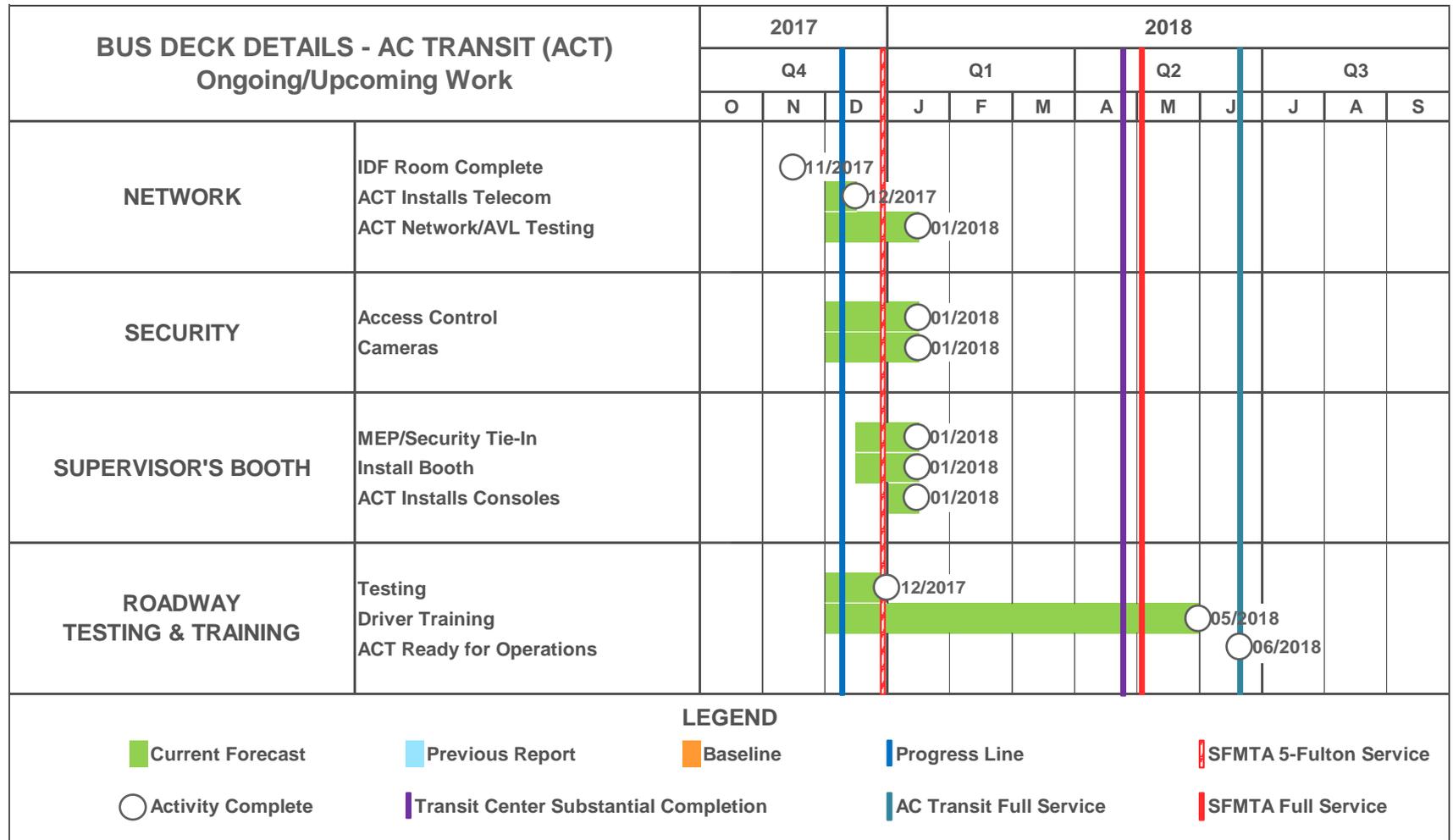
Schedule



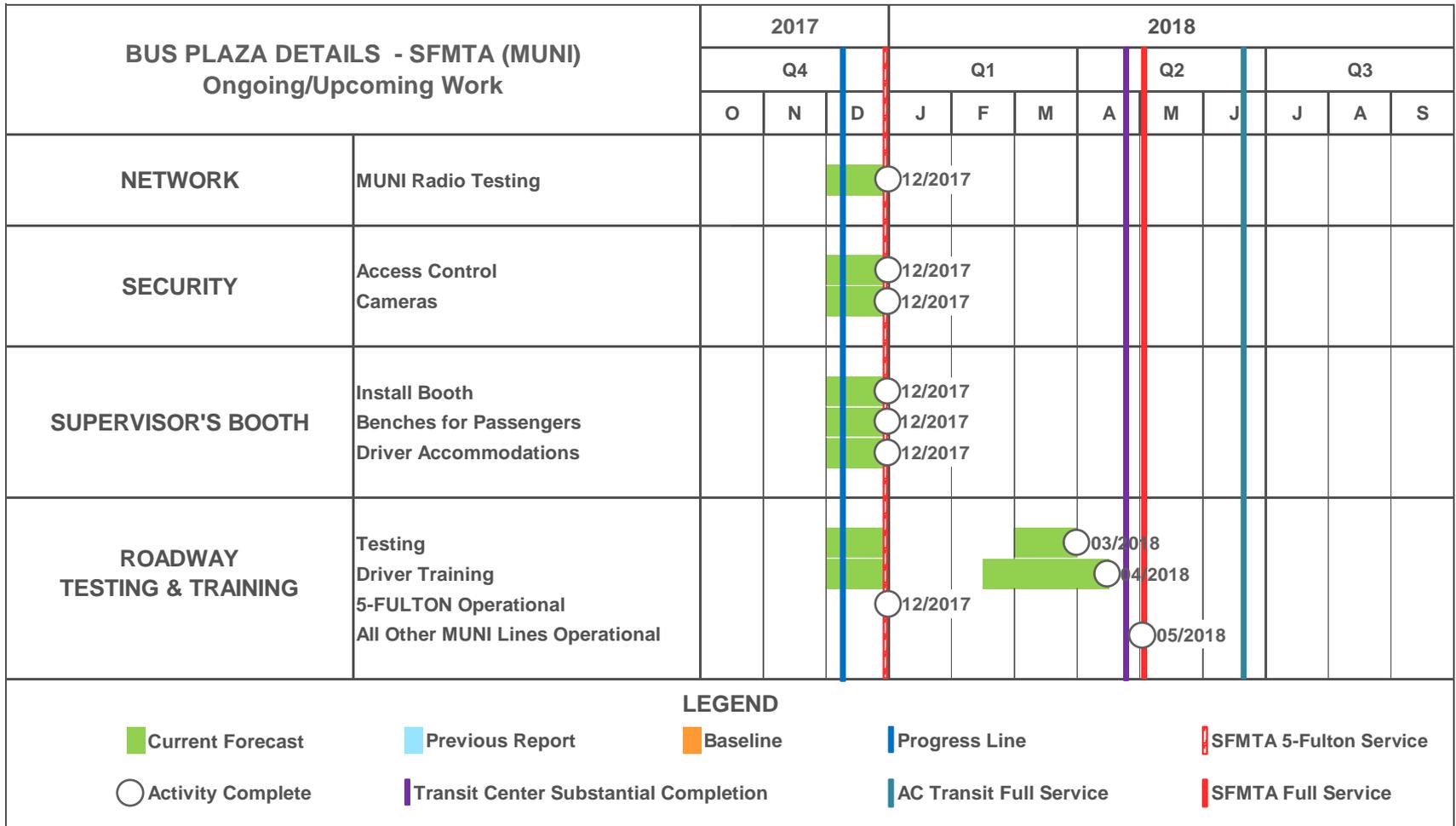
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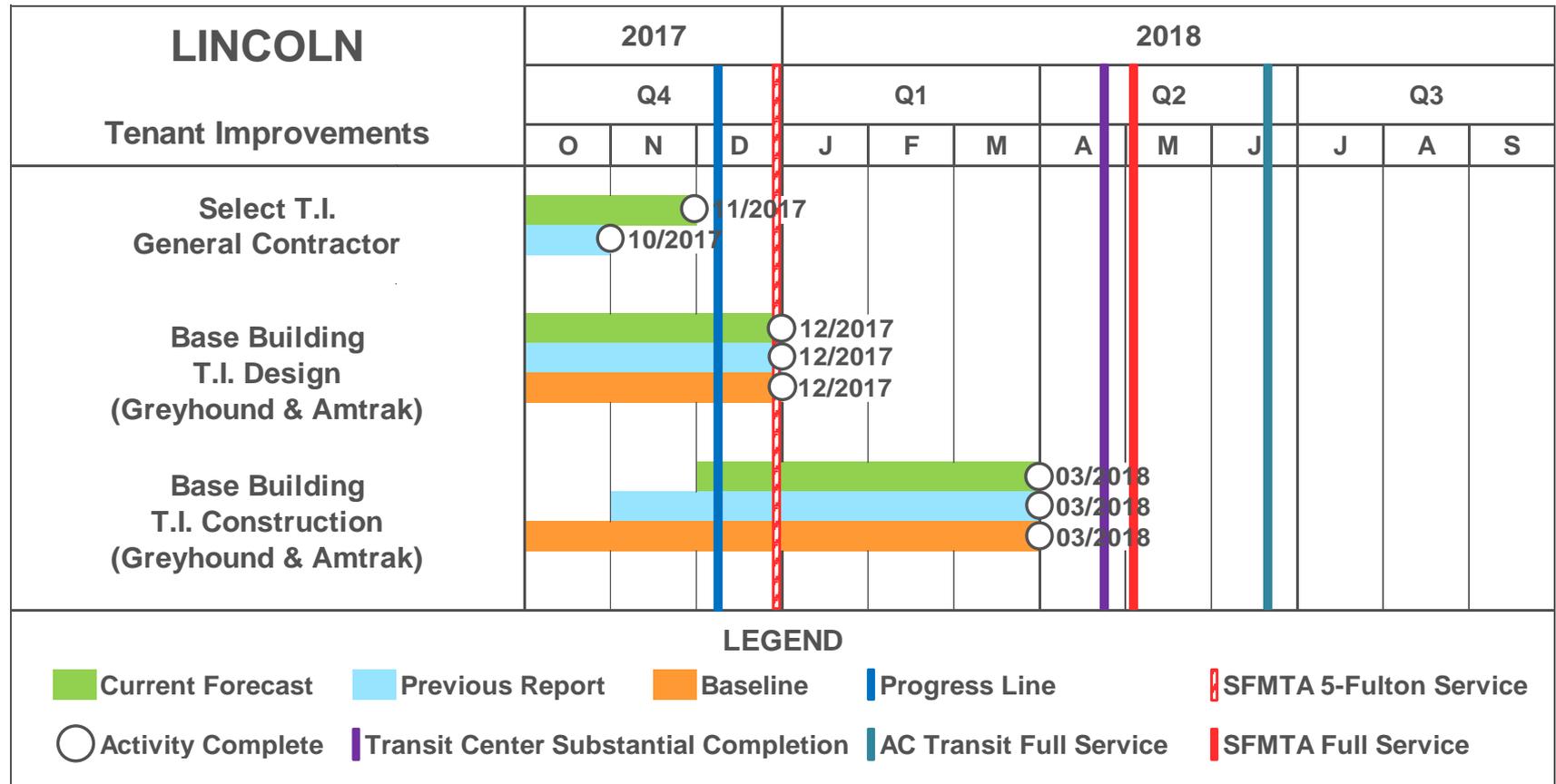
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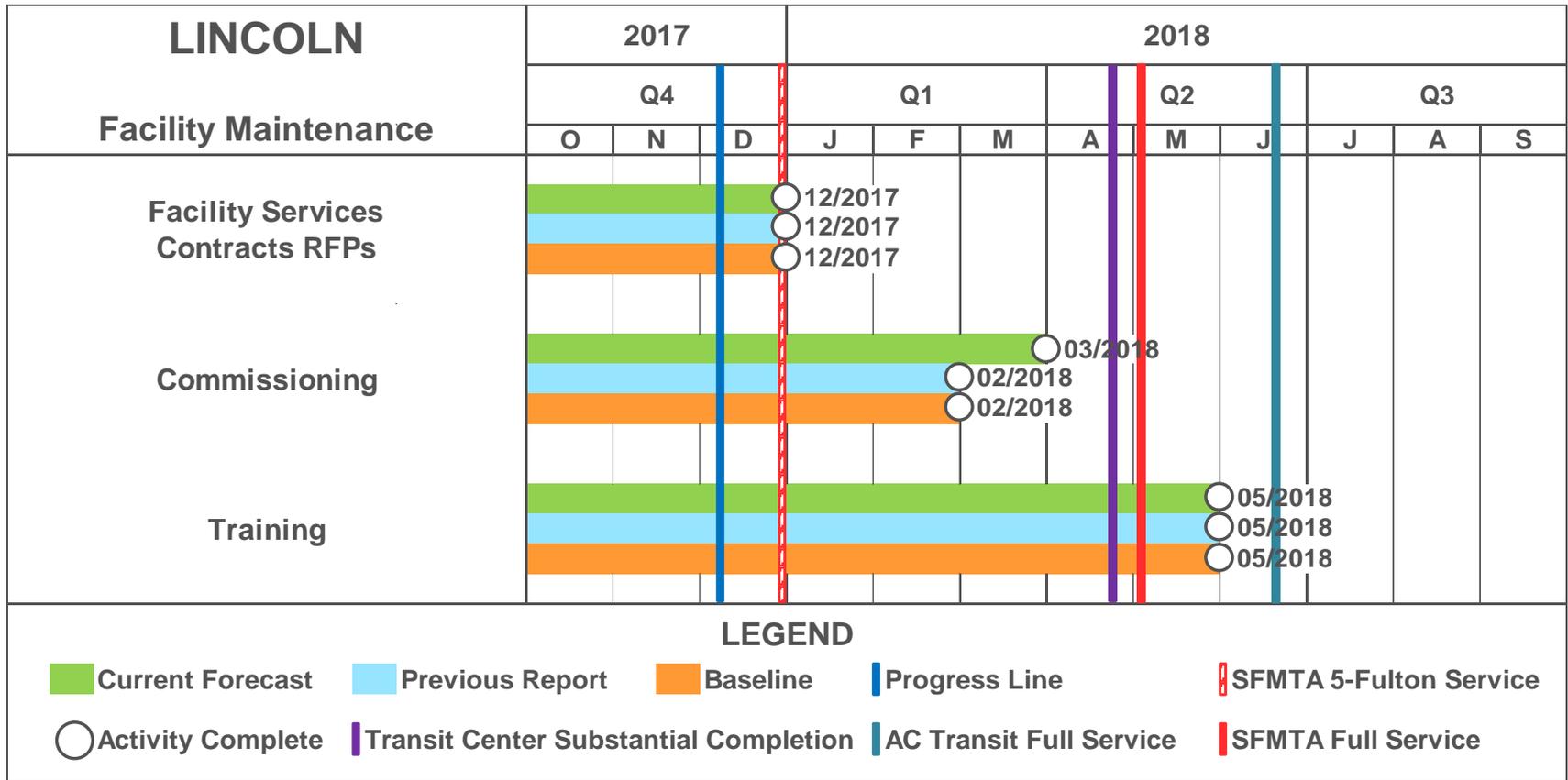
Schedule



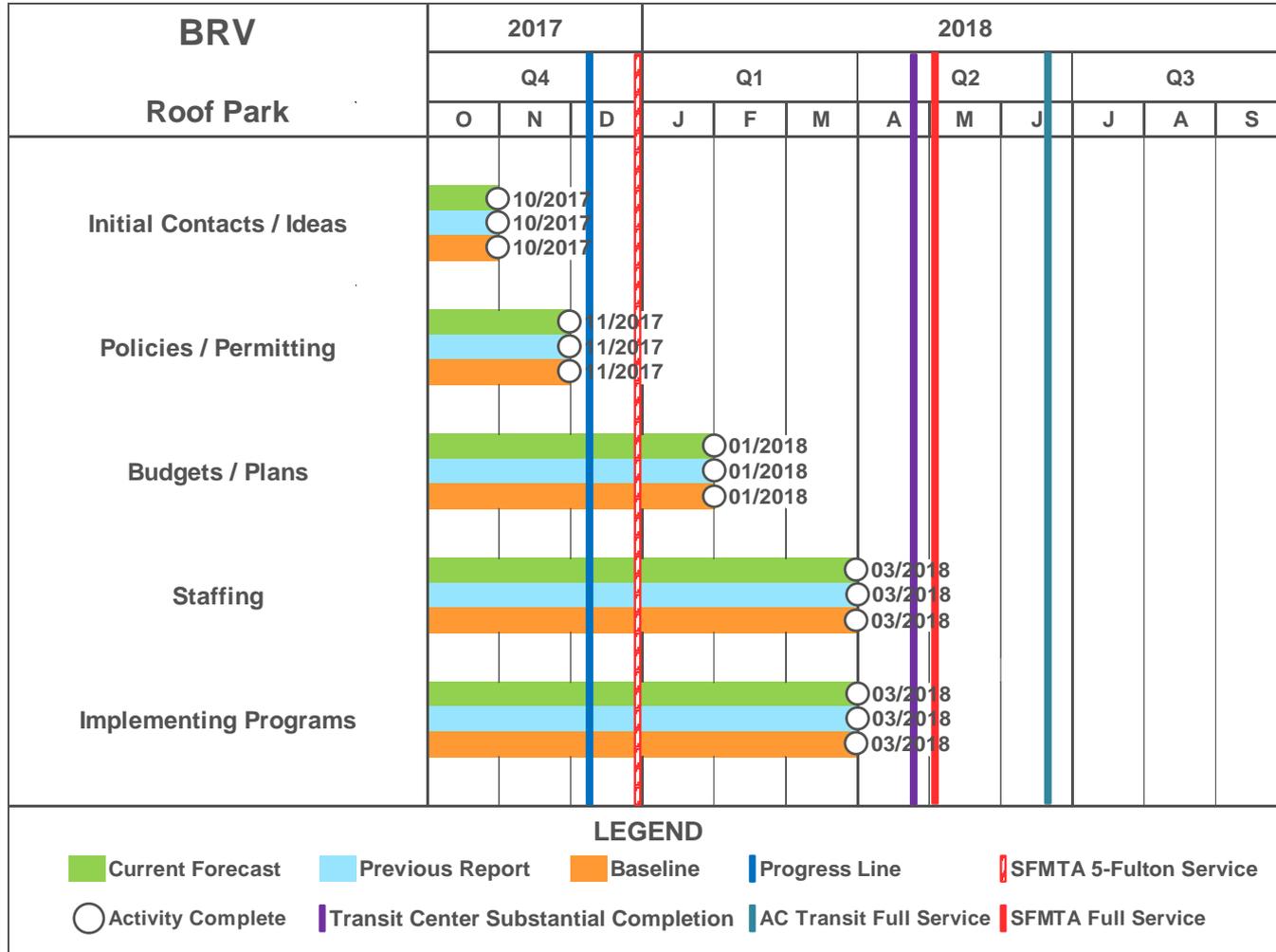
Facility Readiness – Lincoln Tenant Improvements



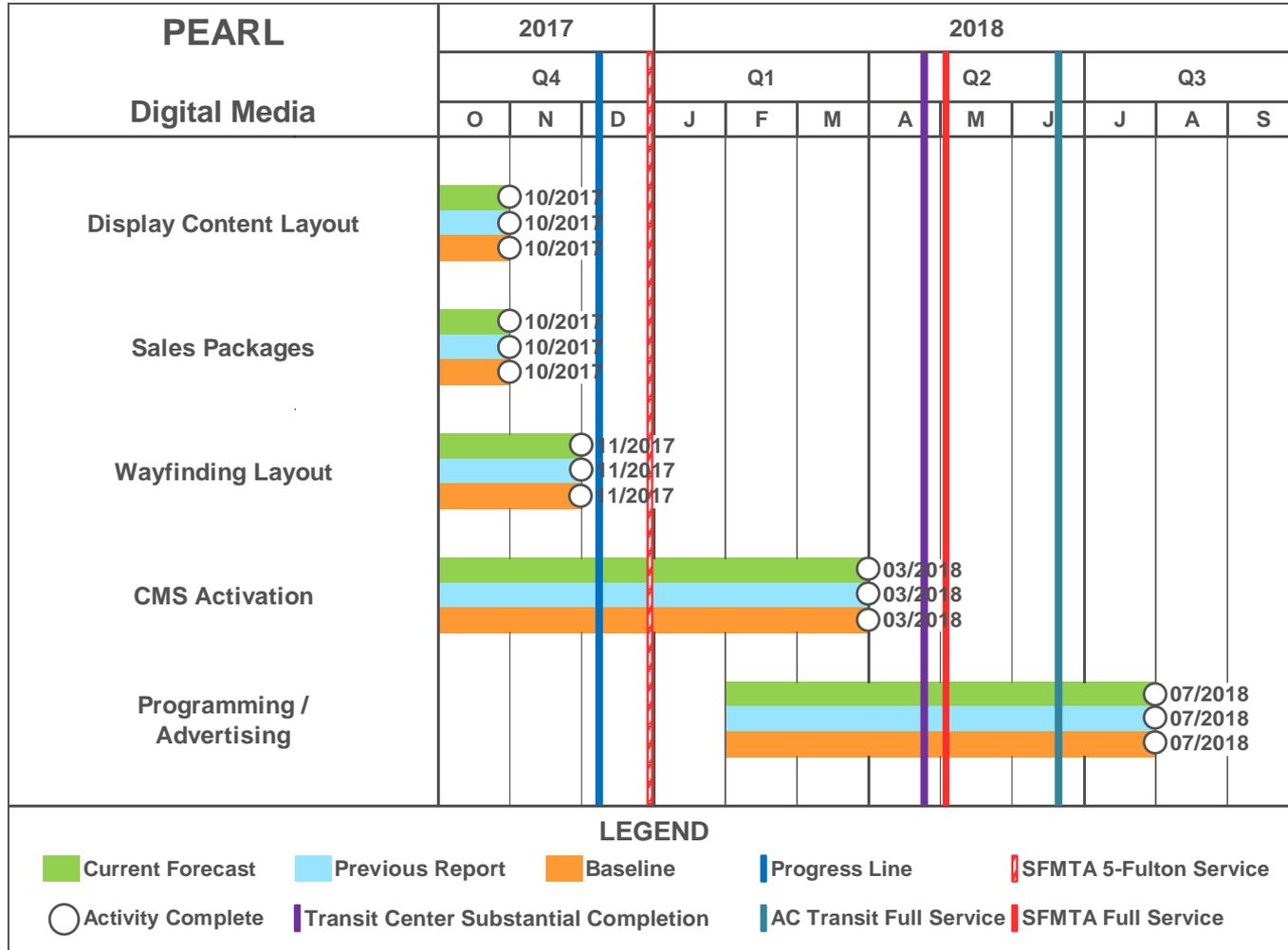
Facility Readiness – Lincoln Facility Maintenance



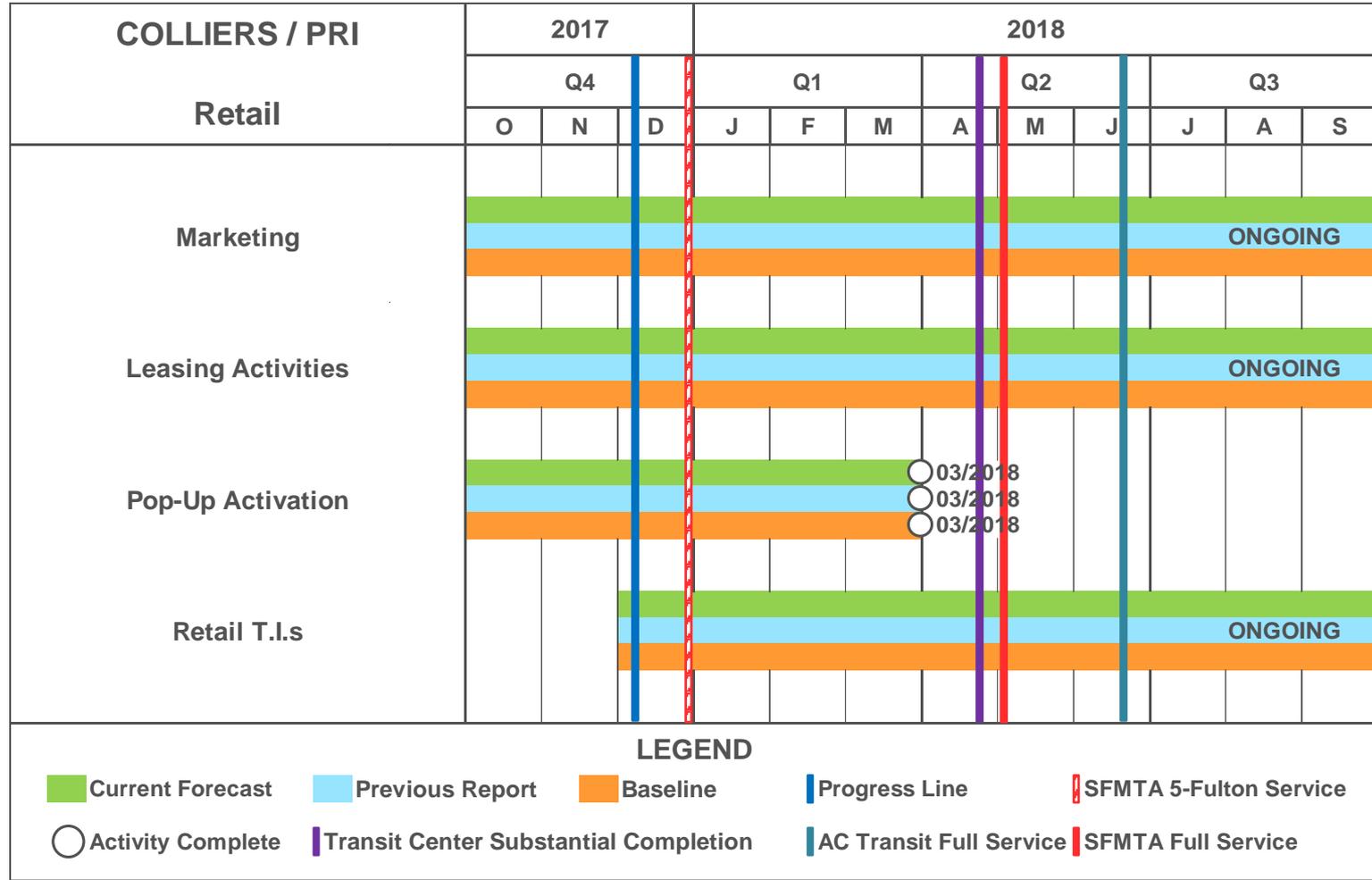
Facility Readiness – BRV Roof Park



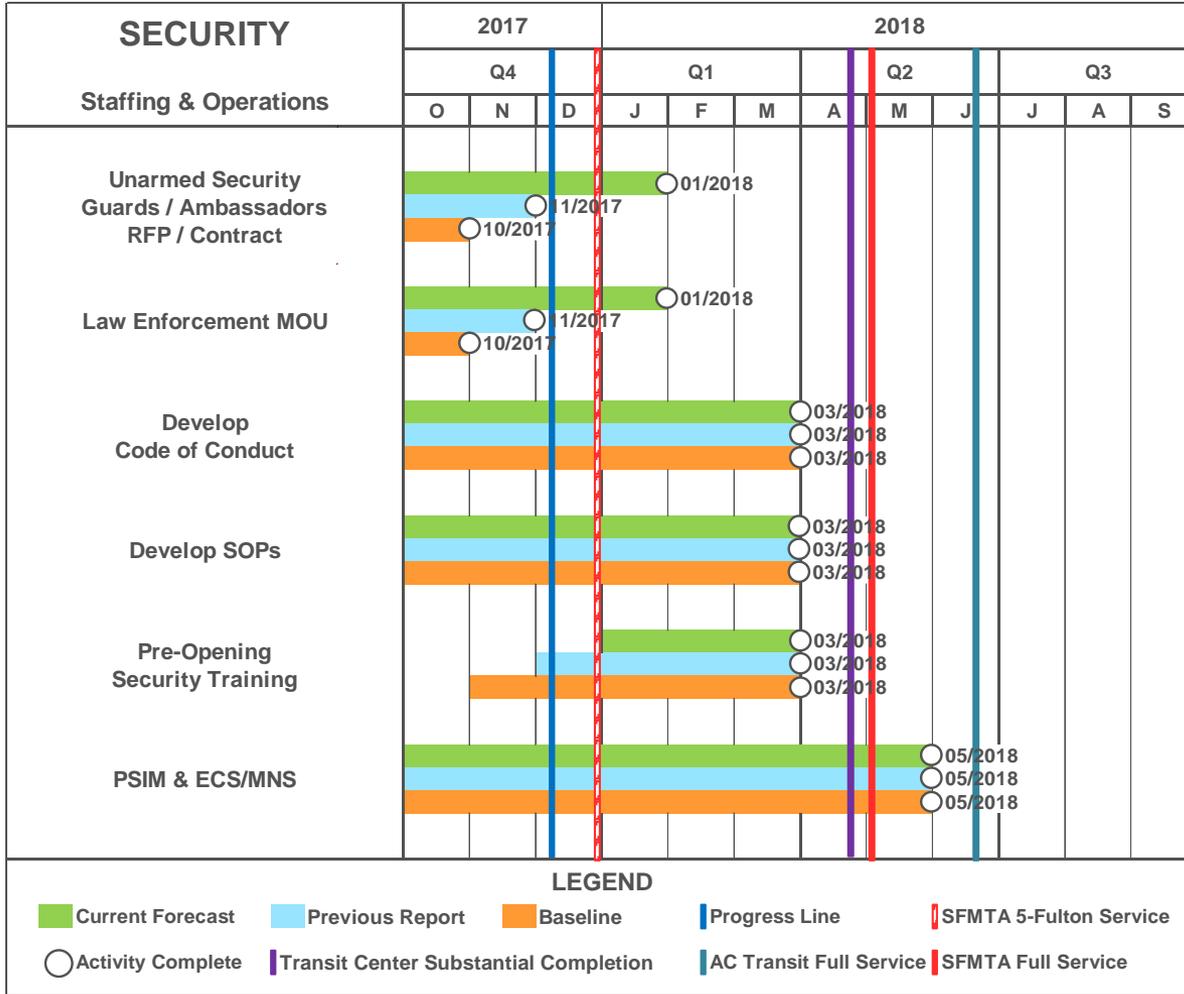
Facility Readiness – Pearl Digital Media



Facility Readiness – Colliers / PRI Retail



Facility Readiness - Security



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 have slipped in the previous reporting period and are of greater concern, but continuously trying to identify workarounds to support the schedule.
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. Targeted Shift Work and Overtime for Critical Trades.
2. Increased Supplementation of Electrical Work.
3. Scope Shift Between Subcontractors for Site Concrete.
4. Possible Future Supplementation for Column Covers.
5. Possible Future Supplementation for Interior Finishes.



Questions?

TJPA
TRANSBAY JOINT POWERS AUTHORITY

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