

Construction Update

November 2017

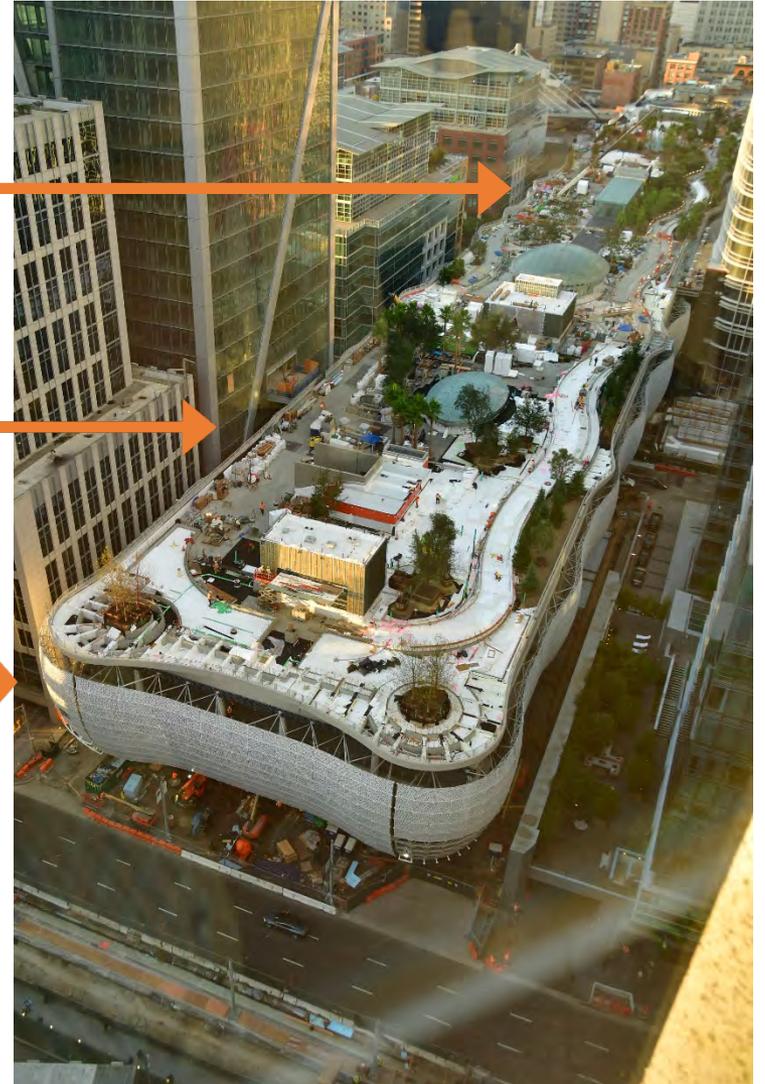


Project Overview

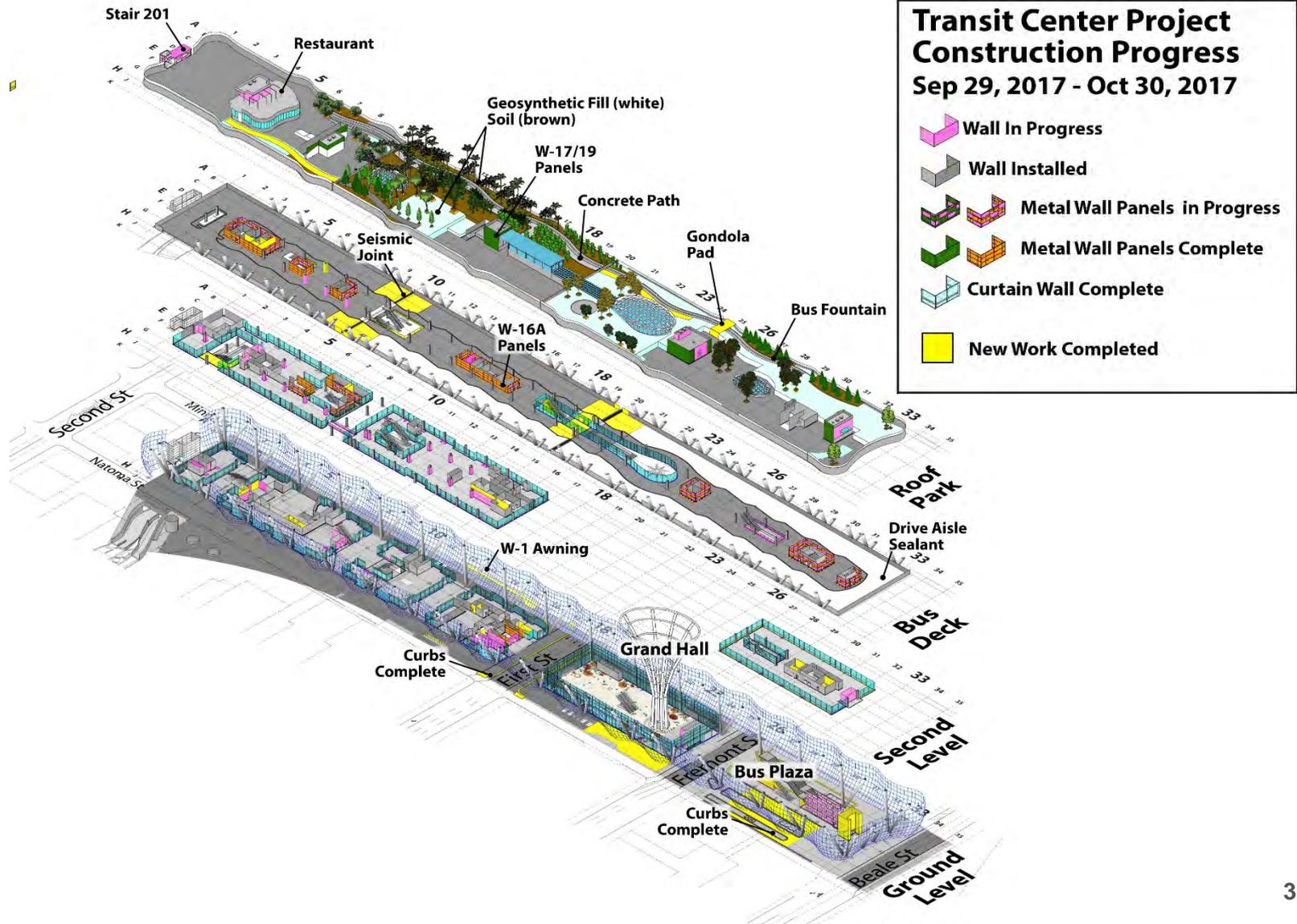
Western Zone Grid Line 1-10

Central Zone Grid Line 10-20

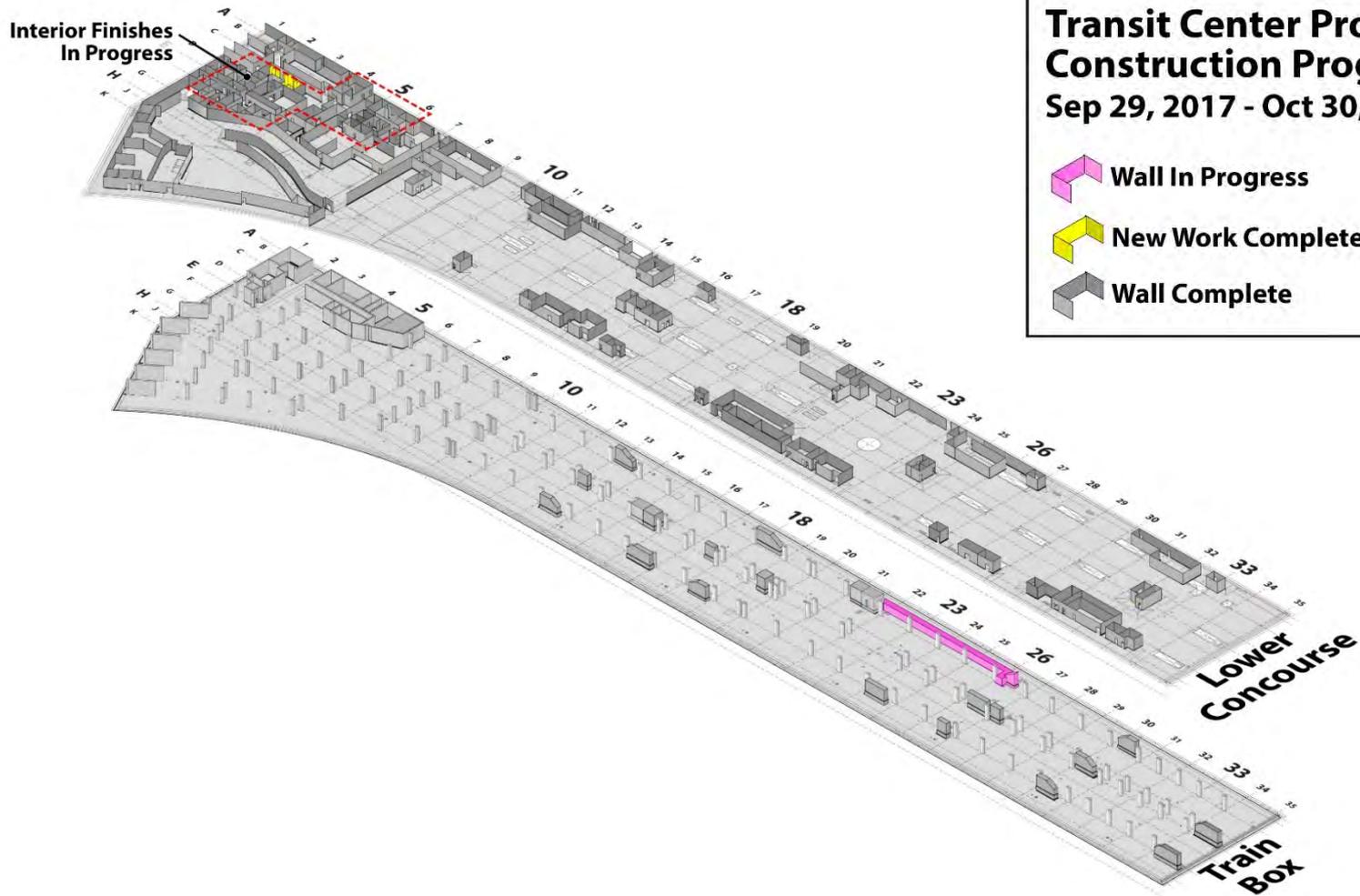
Eastern Zone Grid Line 20-35



Recent Activity



Recent Activity



Construction Activity

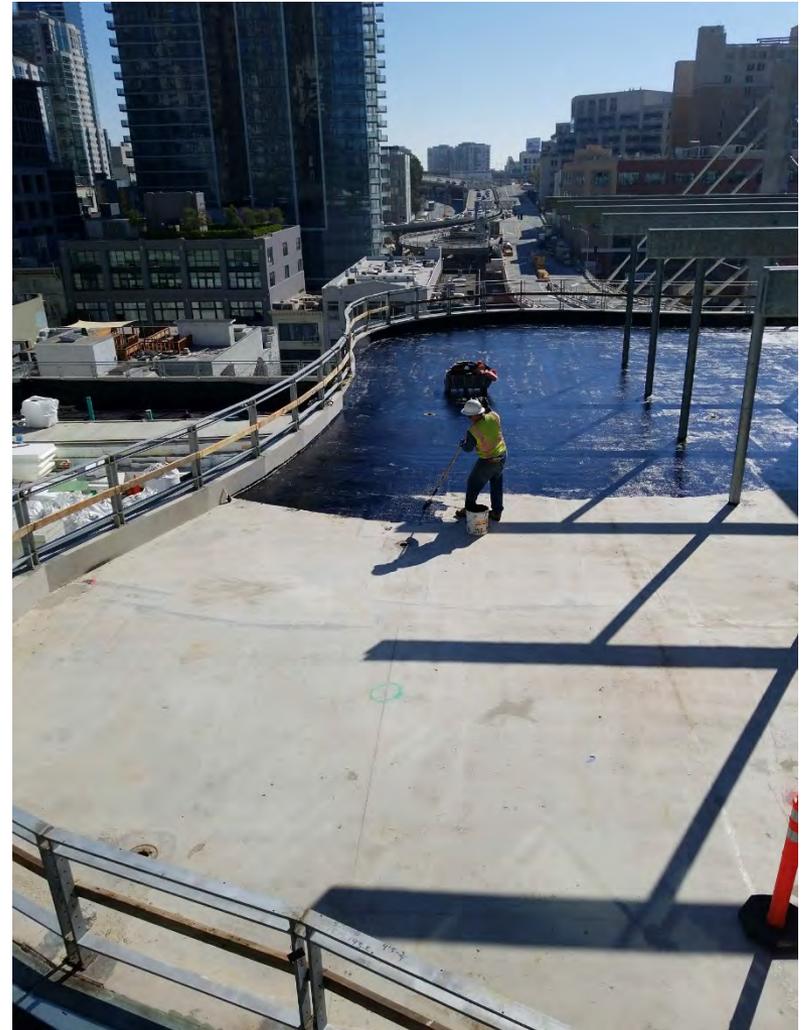
Transit Center - West (GL1-20)

- Rooftop landscaping underway.
- Rooftop granite pathway pavers underway.
- Bus Deck ceiling 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 Sitework sidewalks and roadways under construction.
- Electrical power cable distribution is now underway. 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 (GL20-35)

- Rooftop landscaping underway.
- Rooftop granite pathway pavers underway.
- Bus Deck ceiling Mechanical, Electrical, Plumbing underway including hydrotesting.
- Bus Deck column covers in progress.
- Bus Deck drive aisle coating is complete.
- Elevator and Escalators underway.
- Grand Hall -Terrazzo 70% complete.
- MUNI Bus Plaza drive aisle and pedestrian islands under construction.
- Electrical power cable distribution is now underway. 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.

Rooftop Park and Restaurant



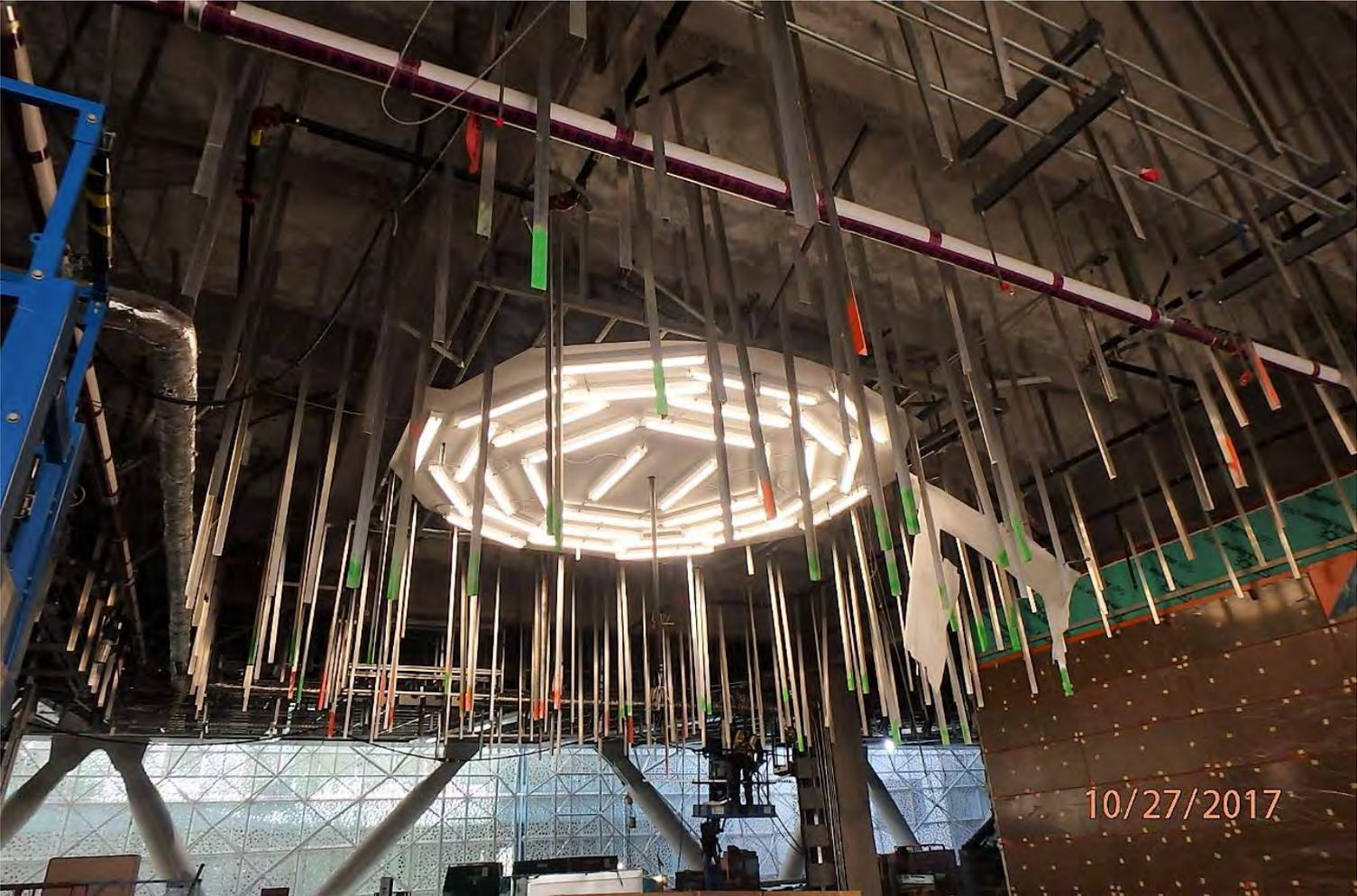
Bus Deck Level – Bus Drive Aisle



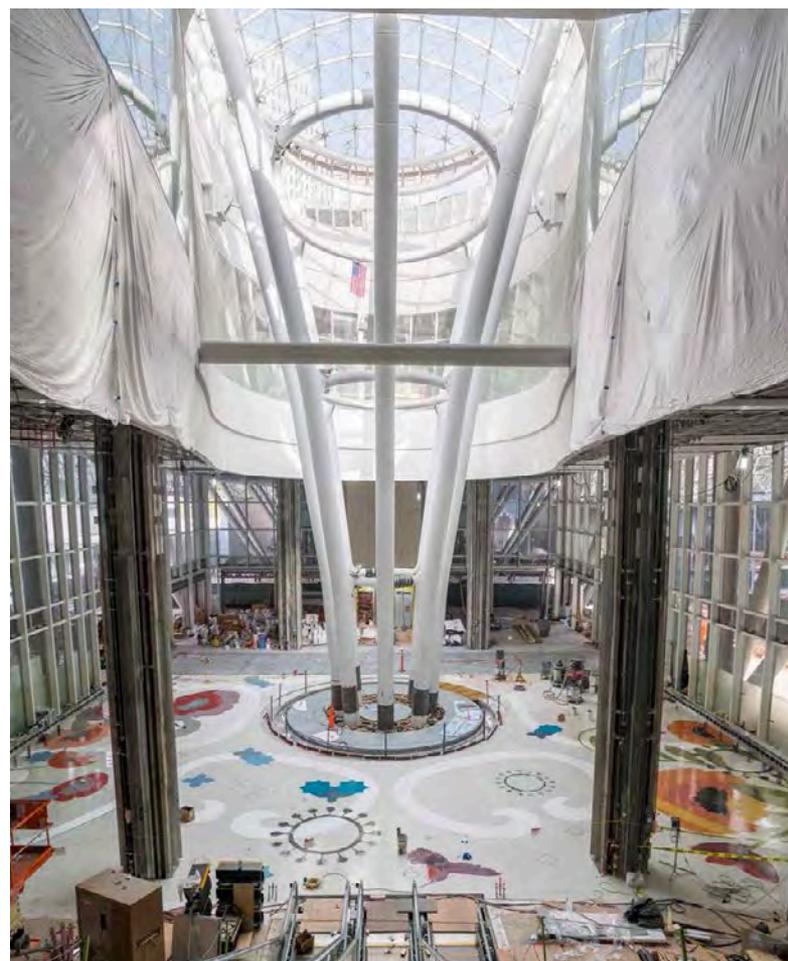
Bus Deck Level – Ceilings



Bus Deck - Ceiling Fan and Backlighting



Grand Hall – Architect/Artist Vision versus Construction progress to date



Grand Hall –Terrazzo



Street Restoration- Minna Street

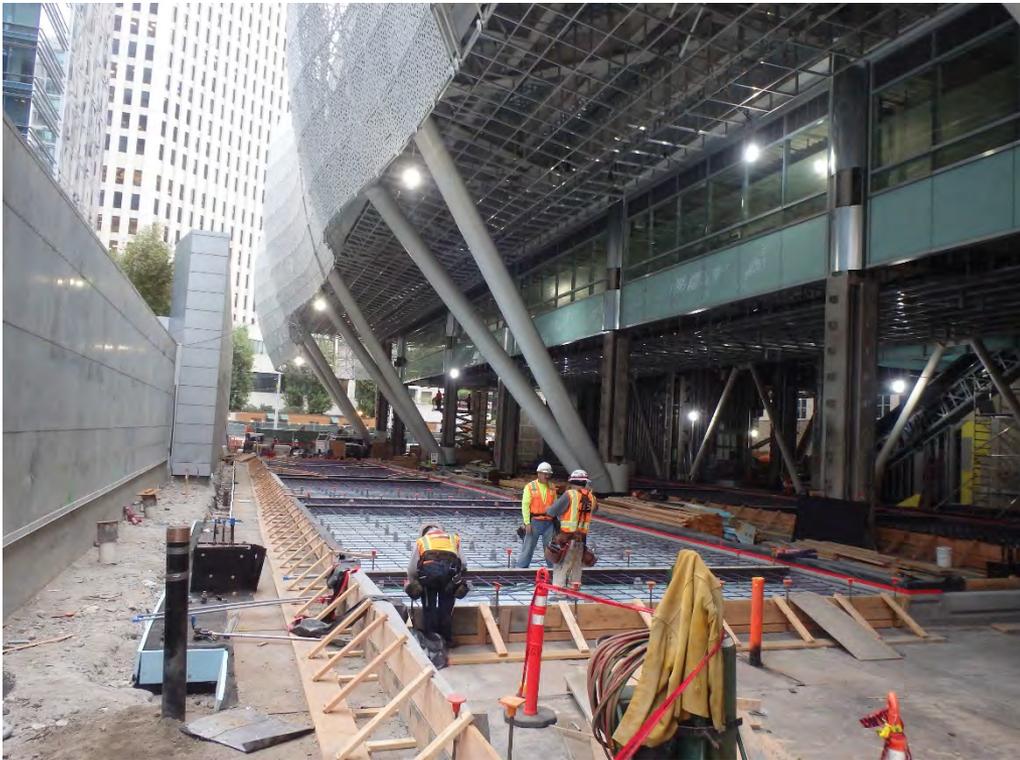


MUNI Bus Plaza –Drive Aisle

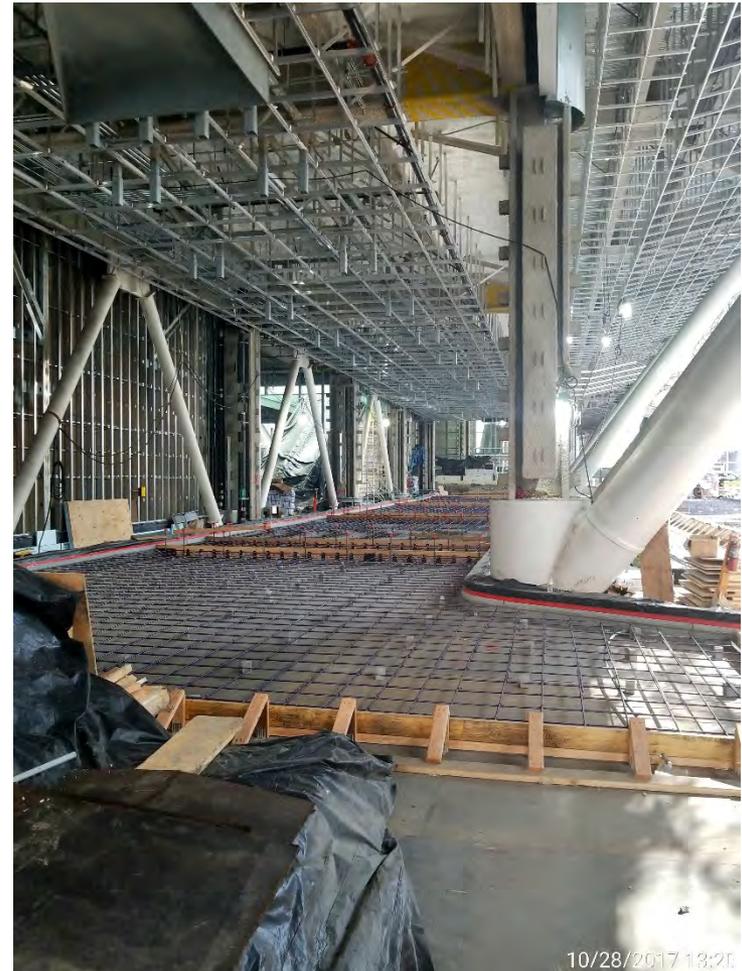


MUNI Bus Plaza – Buildout

Muni Bus Plaza Drive aisle north buildout
Level 2 Offices readied for Tenant Improvement



Muni Bus Plaza drive aisle
and ceiling buildout



Bollards and Equipment Deliveries



Electrical Construction is underway



Electrical Cable pulling Bus Deck

Switchgear Room B1561



Bus Storage Facility

Construction Underway

- Excavation/grading in progress.
- Abutments concrete placed.
- Underground Utilities in progress.
- Bus Link Ramp Viaduct ramp over Second Street formwork underway.
- Bus Link concrete box girder forms.
- Soil Management Plan in progress.

Challenges

- Concrete supply challenge continues and may impact schedule.
- Rebar supply challenge after the Sonoma/Napa wildfires.



Safety and Labor Statistics

Recordable & Lost Time Incidents:

| | | | |
|---|----------|--|----------|
| Recordable Incidents this period October 2017: | 1 | Lost Time Incidents this period October 2017: | 0 |
| Total Recordable Incidents –Year 2017: | 9 | 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 |

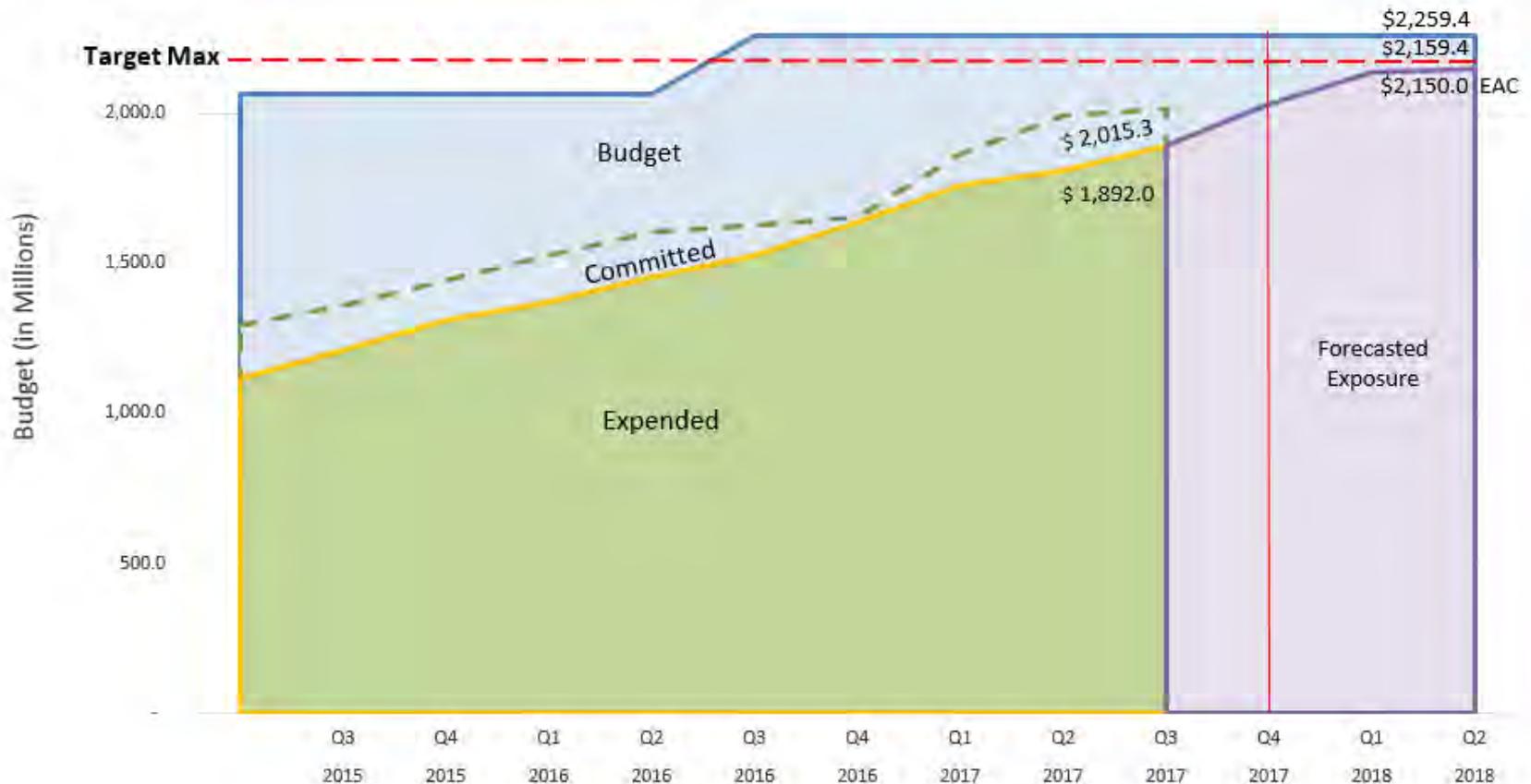
Craft Hours:

| | | |
|---|---|--|
| Total Transit Center Craft Hours 2011 - YTD 2017 : | Total Craft Hours <u>October 2017:</u> | Total Transit Center Craft Hours YTD 2017 : |
| 4,208,682 | 174,916 | 1,362,767 |

Budget

Phase 1 Transbay Transit Center Program

Data thru: September 17



84% Program Budget
97% 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 Sept 2017 | (\$28.9) | (\$4.0) | \$4.7 | (\$28.3) |
| Remaining Baseline Budget Amounts (Sept 2017) | \$32.9 | \$28.5 | \$121.6 | \$183.0 |
| Total Draws/Adds October 2017 | (\$2.7) | (\$0.0) | (\$3.6) | (\$6.3) |
| Remaining Balances | \$30.2 | \$28.5 | \$118.0 | \$176.7 |

Uses of Contingency this period

301 Mission Wall agreement, Zone 4 Bus Shelters, Add'l Sidewalks/Curb/Gutter at Bus Ramp.
 Program Reserve for legal expenses, and financing expenses related to City and Bridge financing.

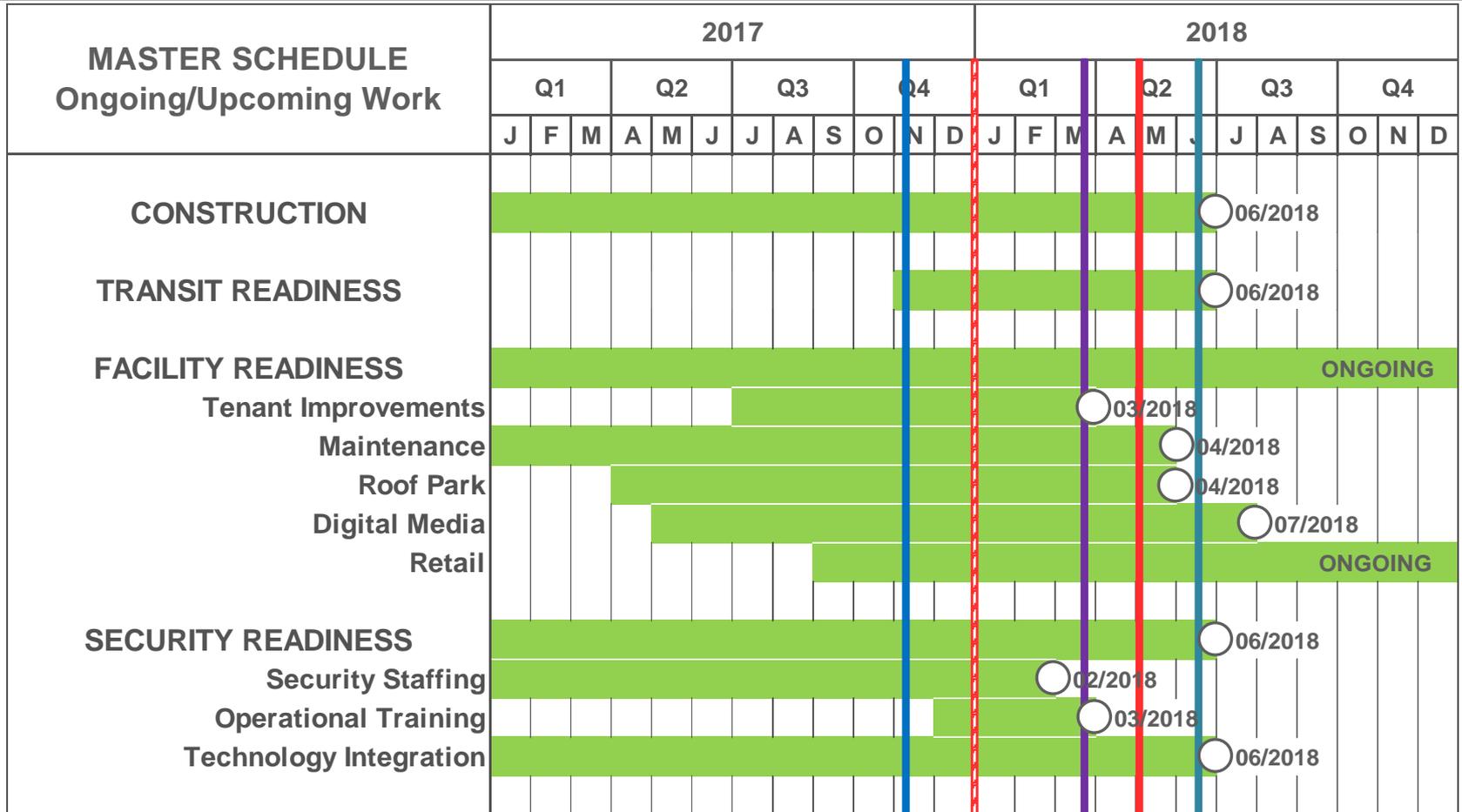
Forecasted Contingency Use

CM/GC: \$0.6

Construction: \$6.0

Program Reserve: 0.0

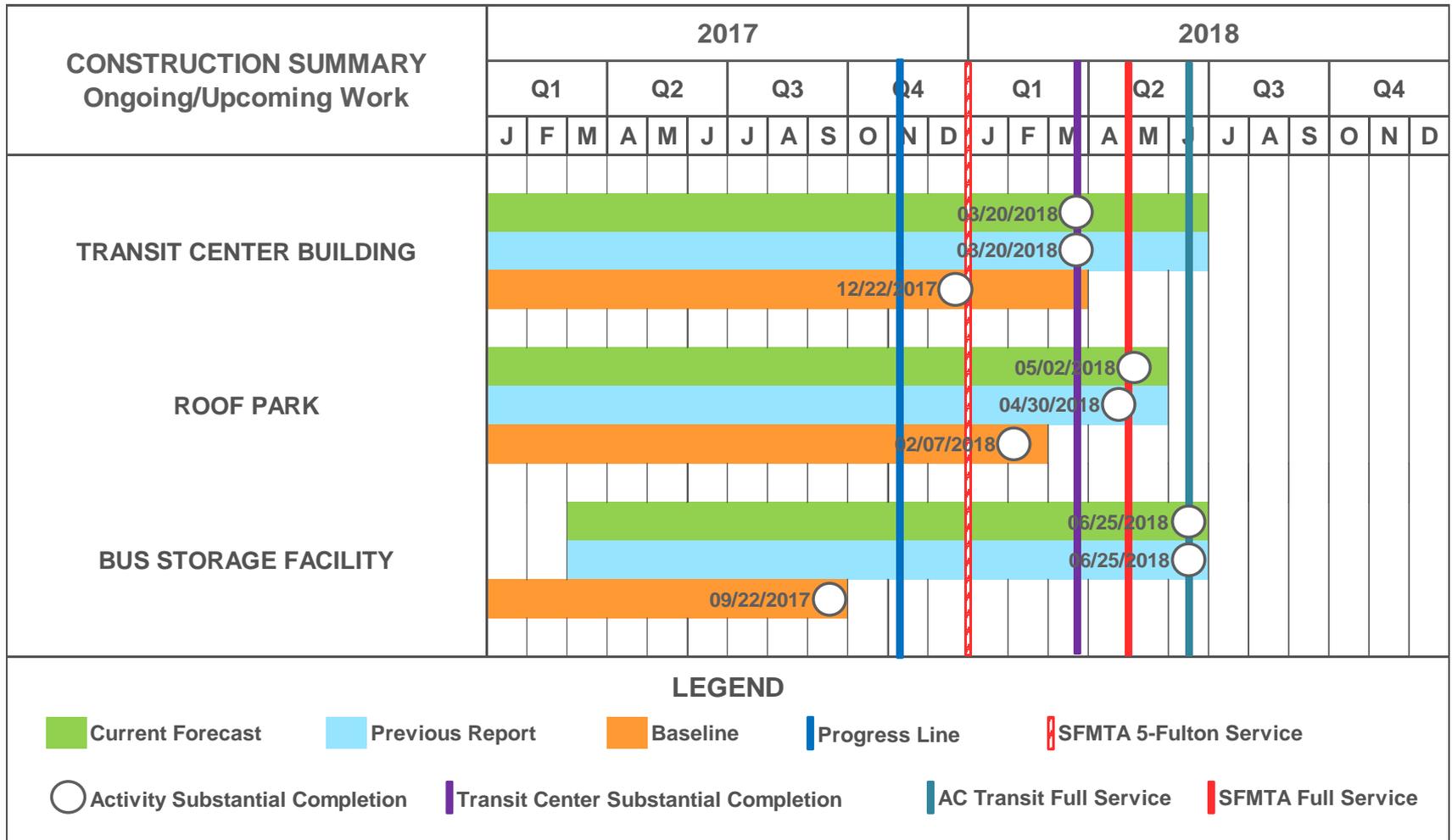
Schedule



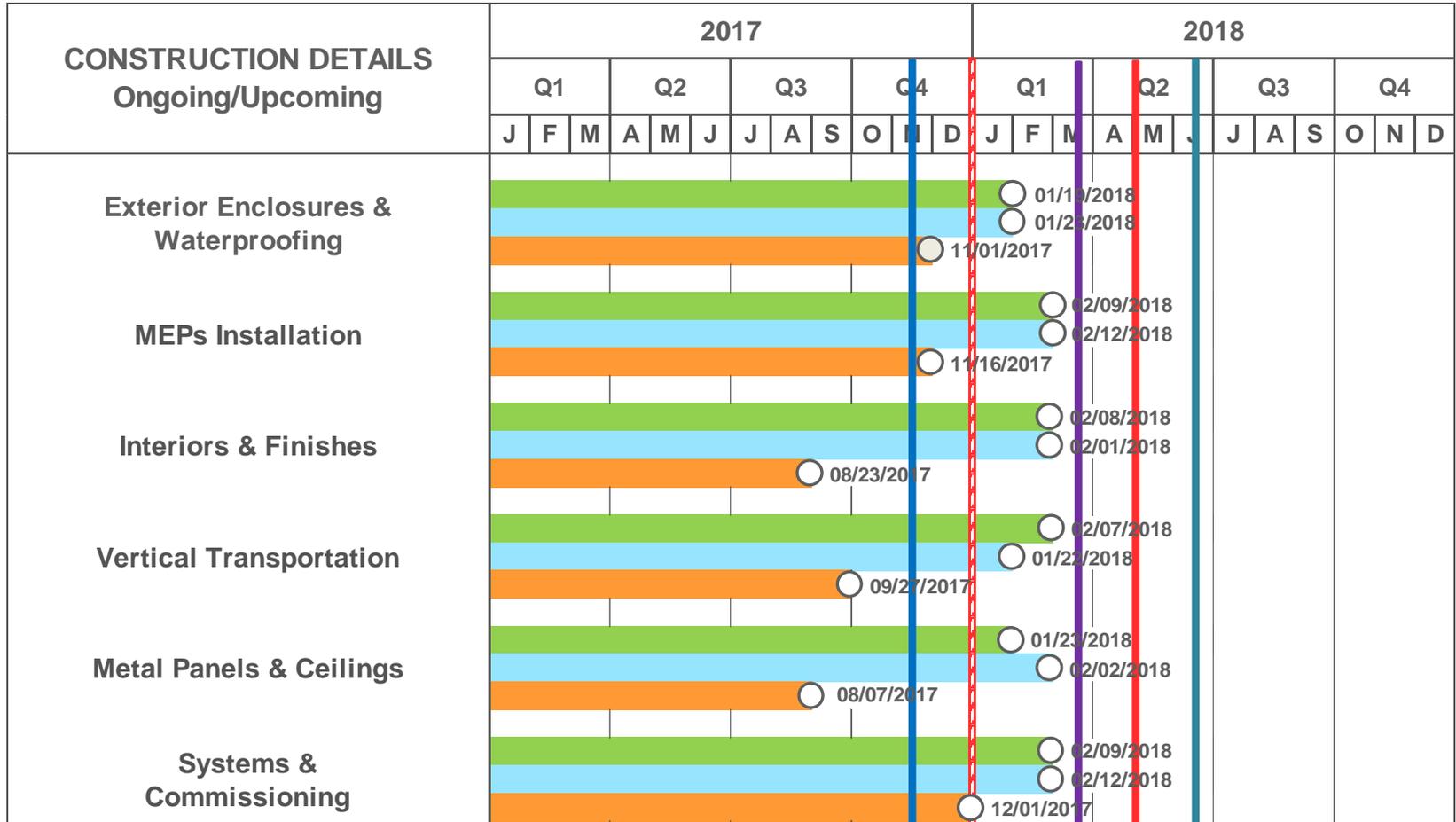
LEGEND

- Current Forecast
- Previous Report
- Baseline
- Progress Line
- SFMTA 5-Fulton Service
- Activity Complete
- Transit Center Substantial Completion
- AC Transit Full Service
- SFMTA Full Service

Schedule



Schedule

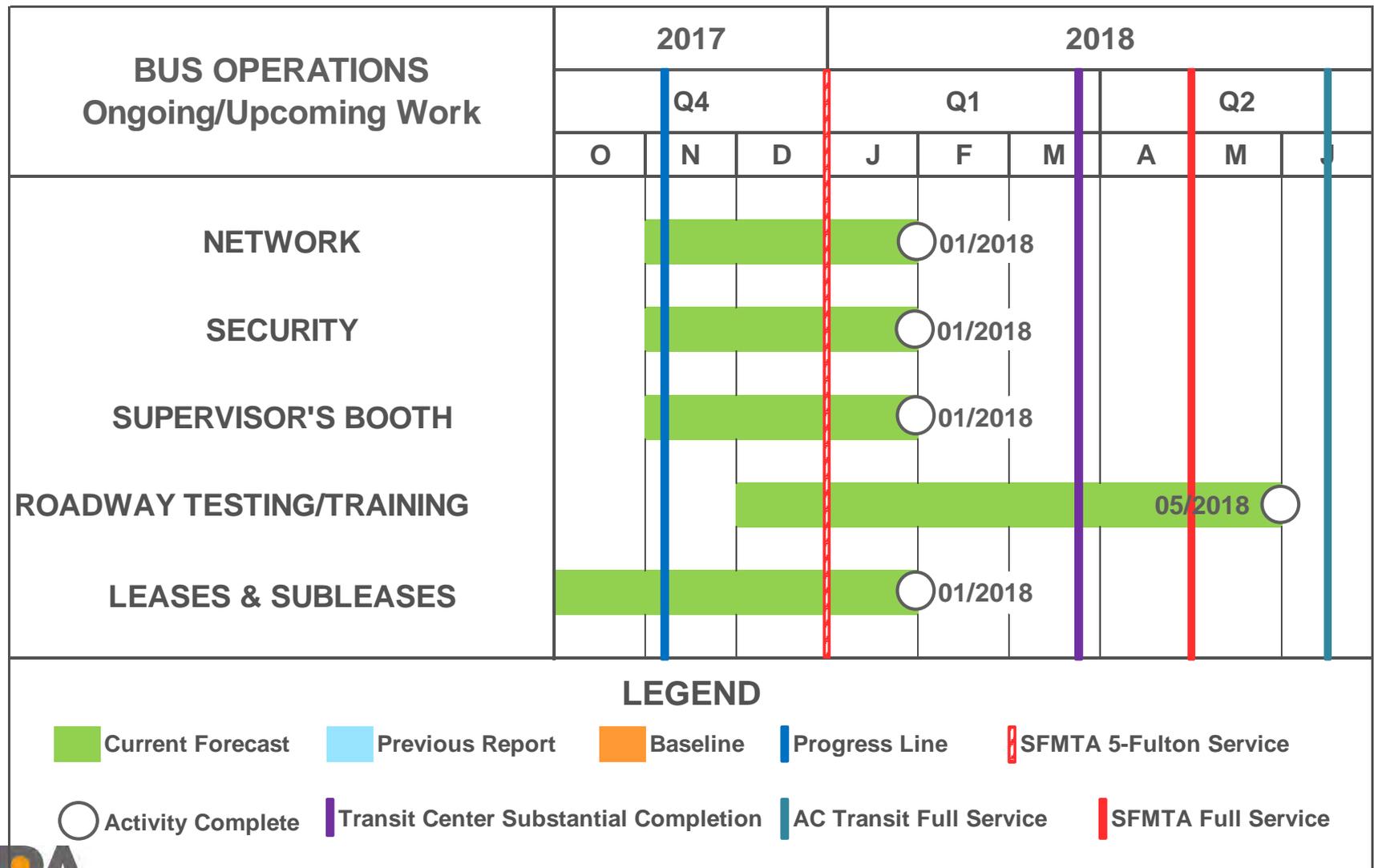


TIME BETWEEN ACTIVITY COMPLETION & SUBSTANTIAL COMPLETION IS INSPECTIONS/CORRECTIONS.

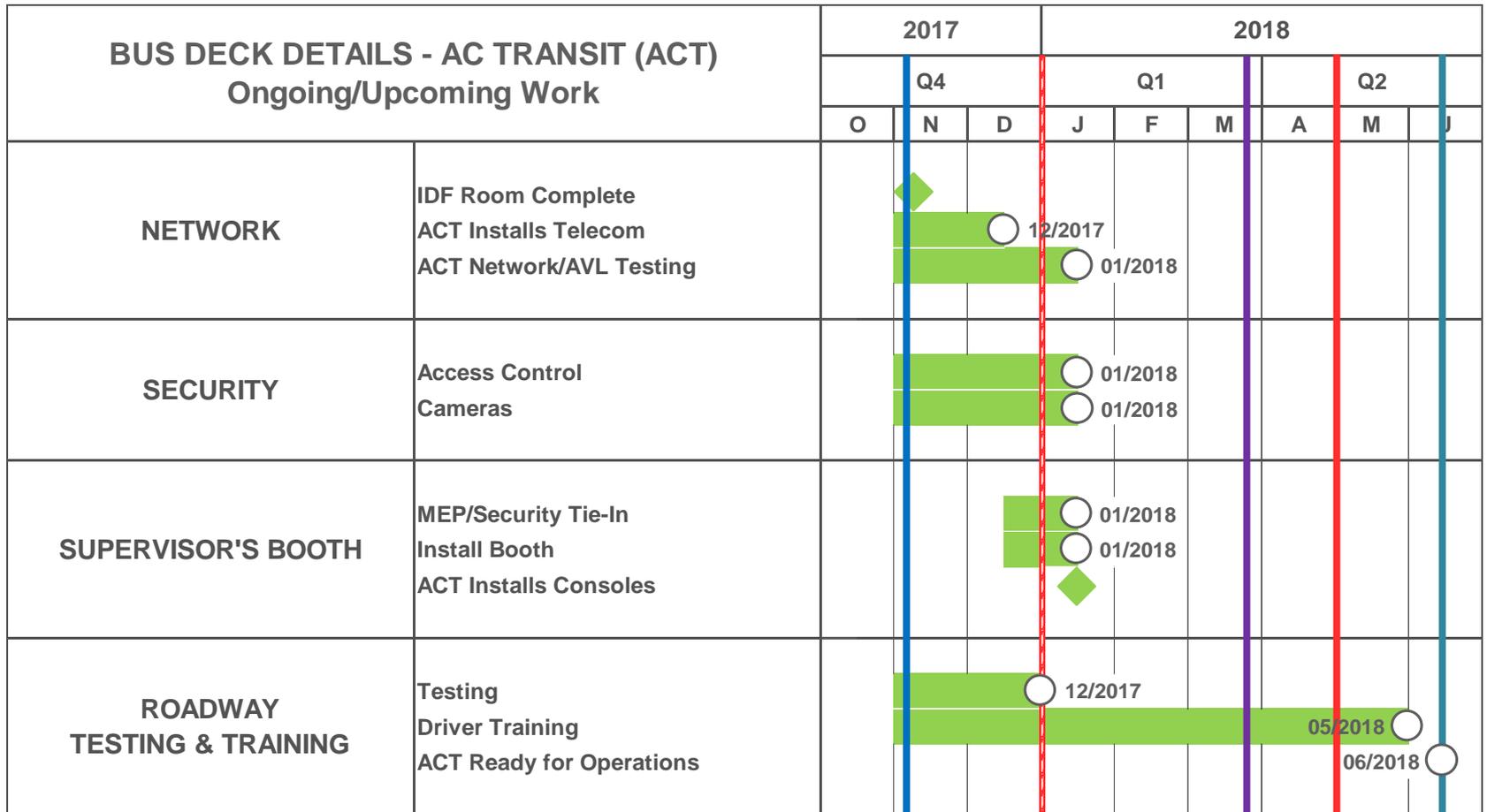
LEGEND

- Current Forecast
- Previous Report
- Baseline
- Progress Line
- SFMTA 5-Fulton Service
- Transit Center Substantial Completion
- AC Transit Full Service
- SFMTA Full Service
- Activity Complete

Schedule



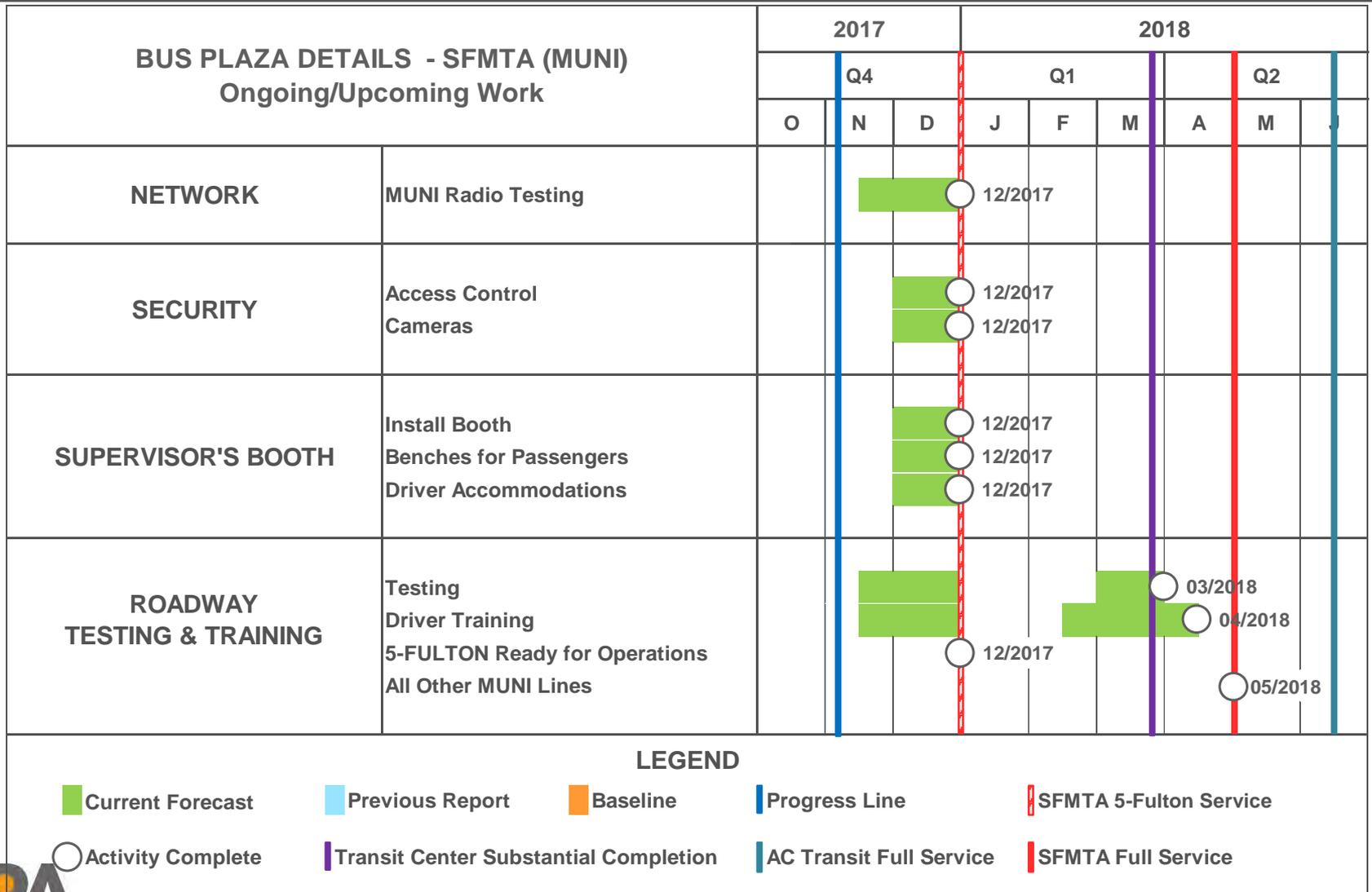
Schedule



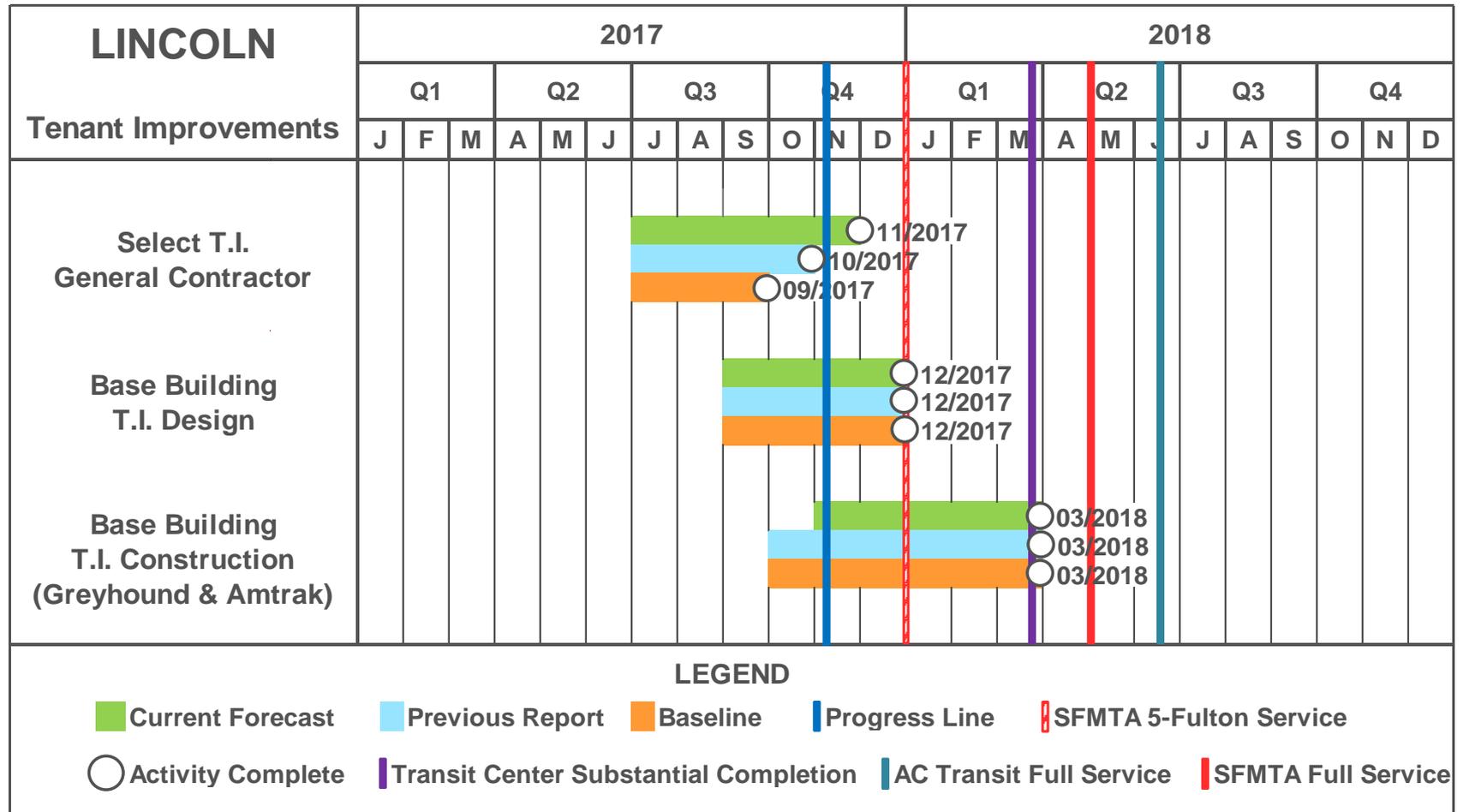
LEGEND

- Current Forecast
- Previous Report
- Baseline
- Progress Line
- SFMTA 5-Fulton Service
- Activity Complete
- Transit Center Substantial Completion
- AC Transit Full Service
- SFMTA Full Service

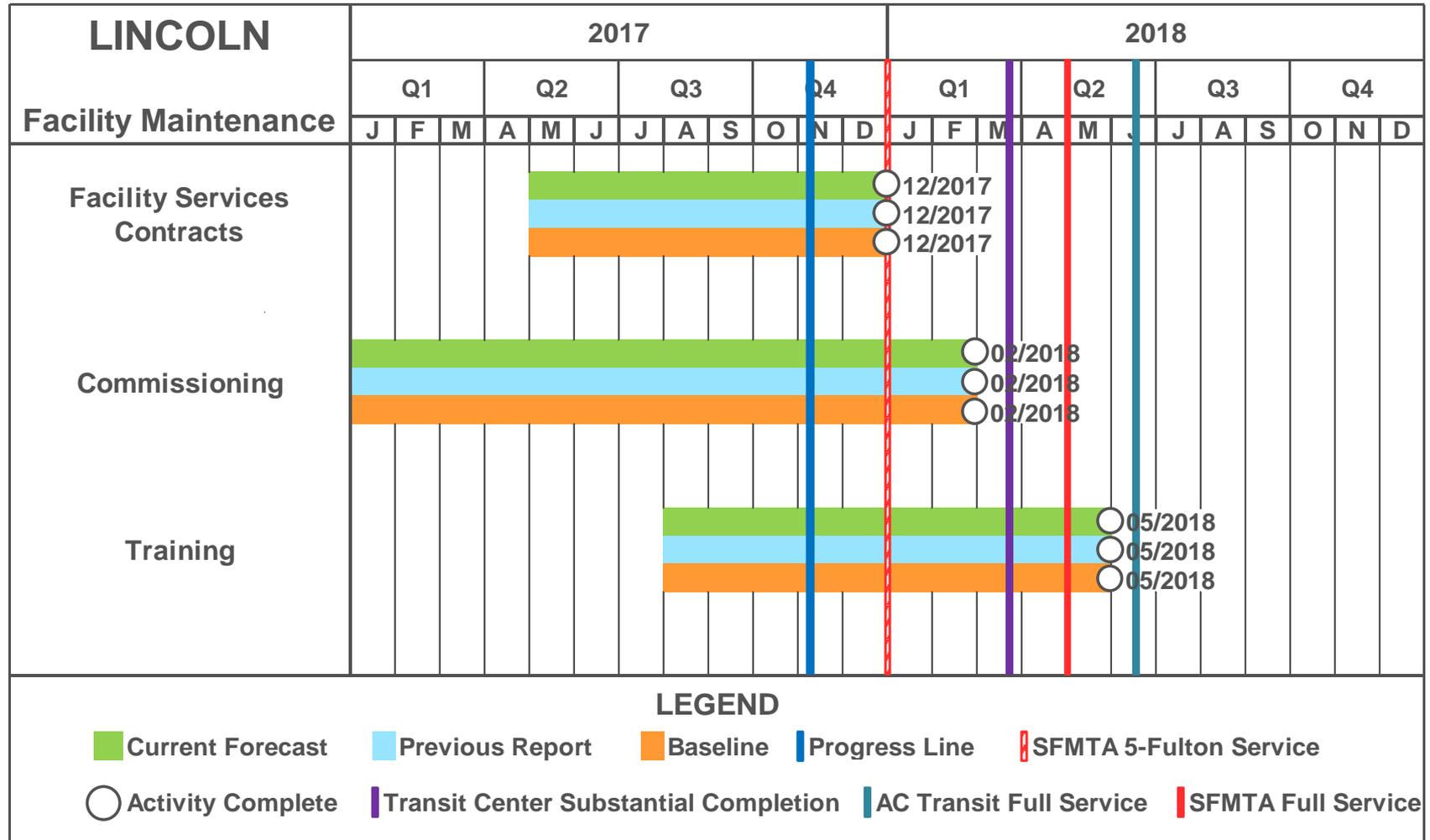
Schedule



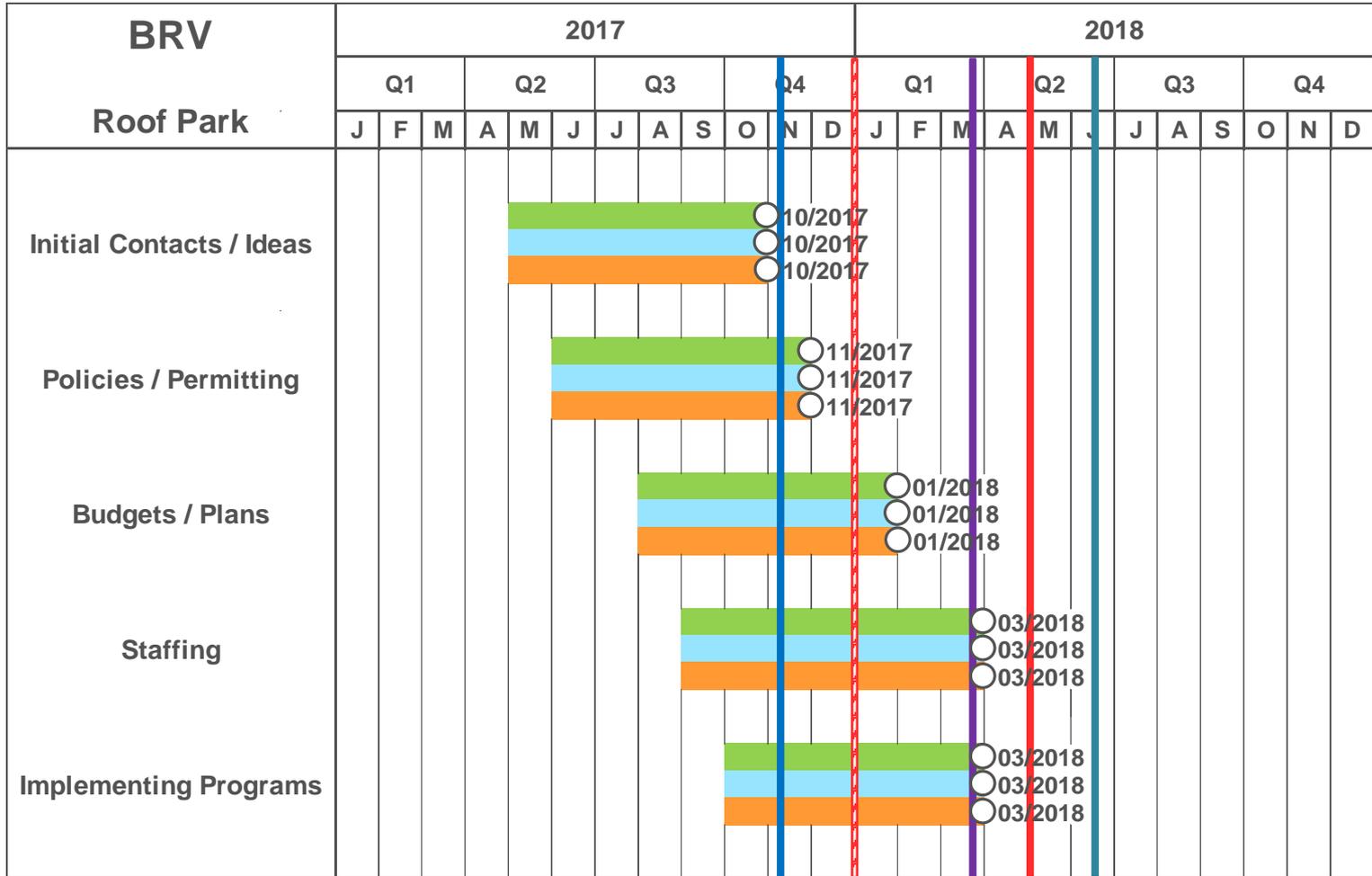
Facility Readiness – Lincoln Tenant Improvements



Facility Readiness – Lincoln Facility Maintenance



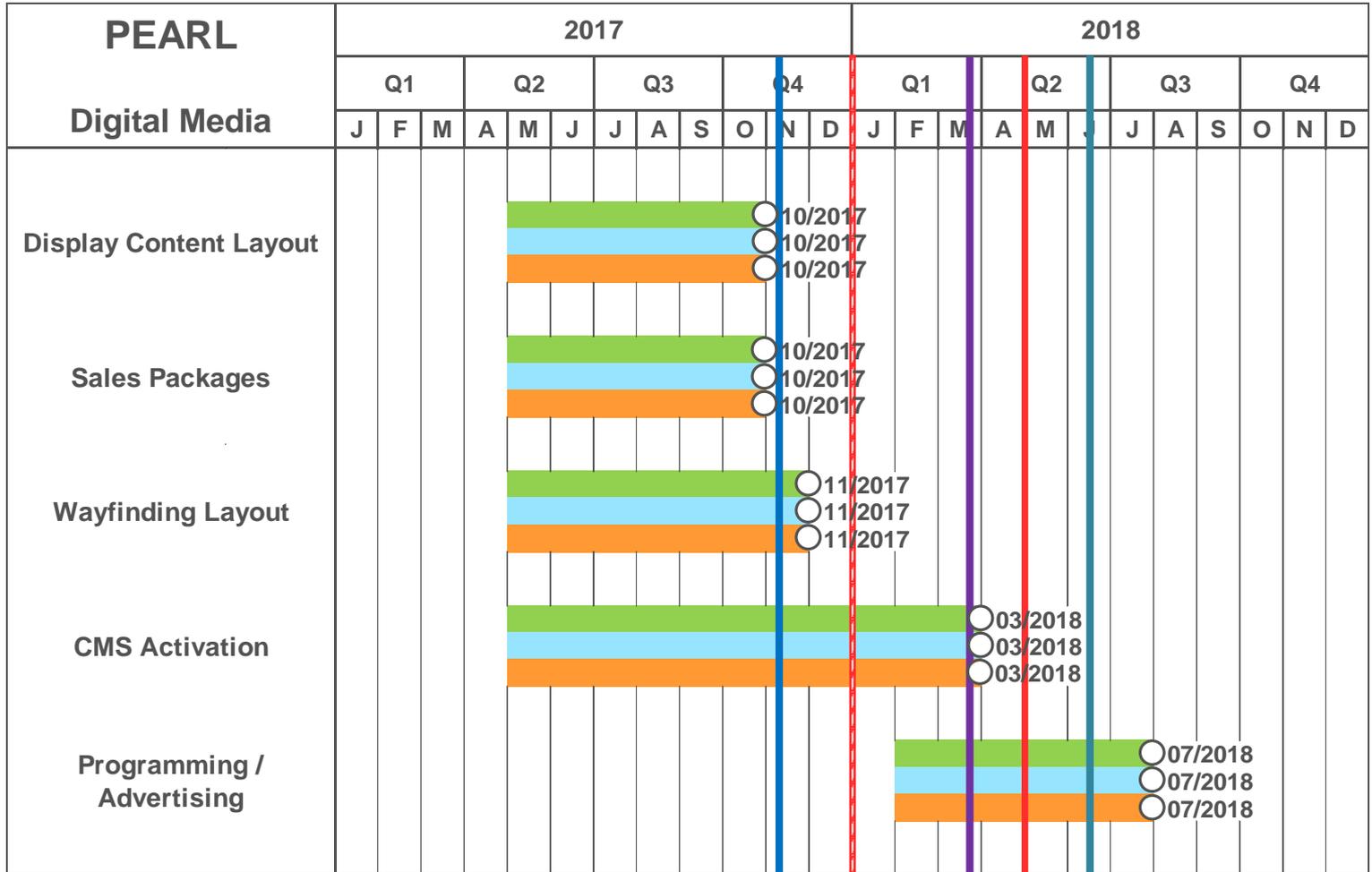
Facility Readiness – BRV Roof Park



LEGEND

- Current Forecast
- Previous Report
- Baseline
- Progress Line
- | SFMTA 5-Fulton Service
- Transit Center Substantial Completion
- AC Transit Full Service
- SFMTA Full Service
- Activity Complete

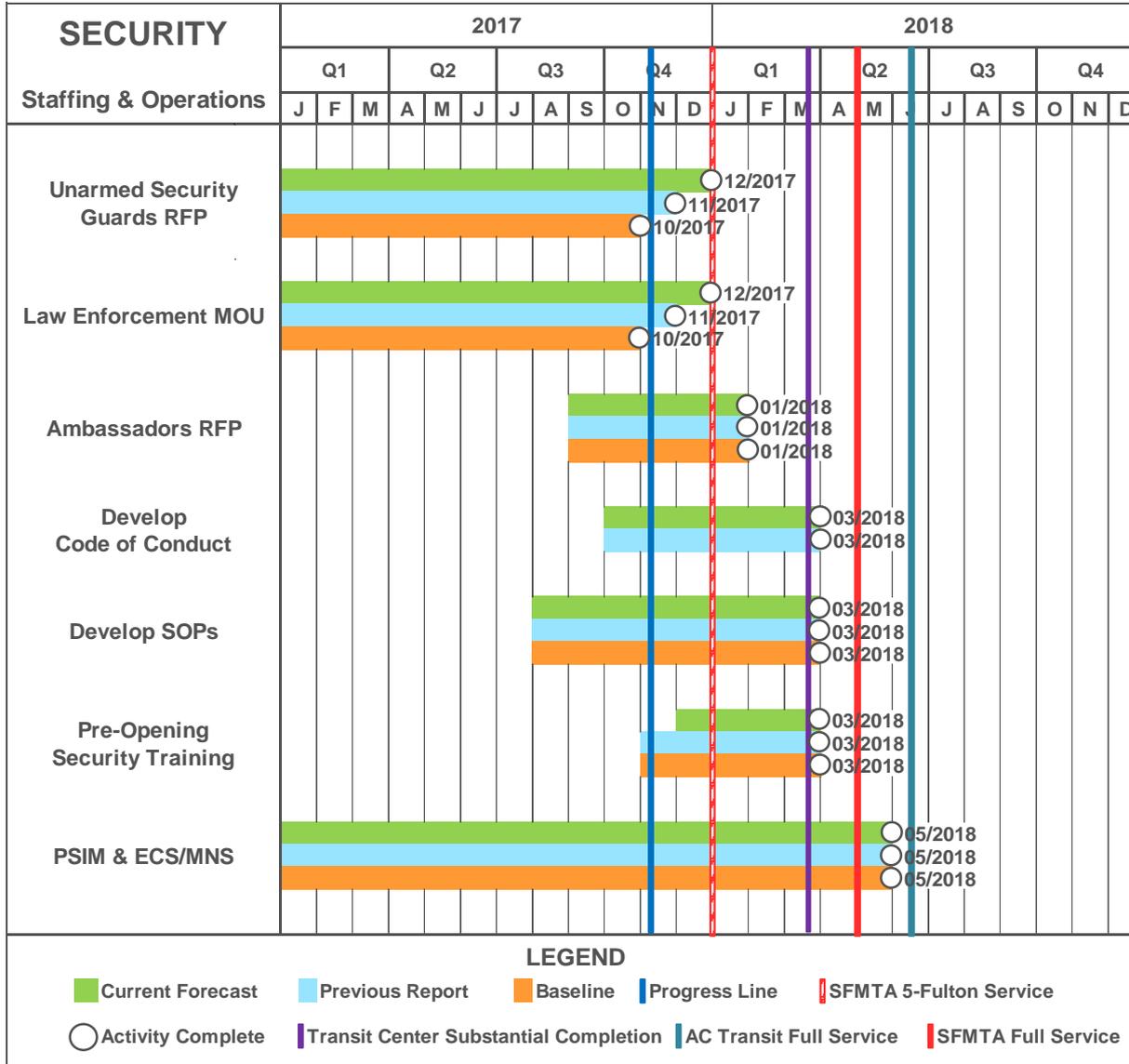
Facility Readiness – Pearl Digital Media



LEGEND

- Current Forecast
- Previous Report
- Baseline
- Progress Line
- SFMTA 5-Fulton Service
- Activity Complete
- Transit Center Substantial Completion
- AC Transit Full Service
- SFMTA Full Service

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.

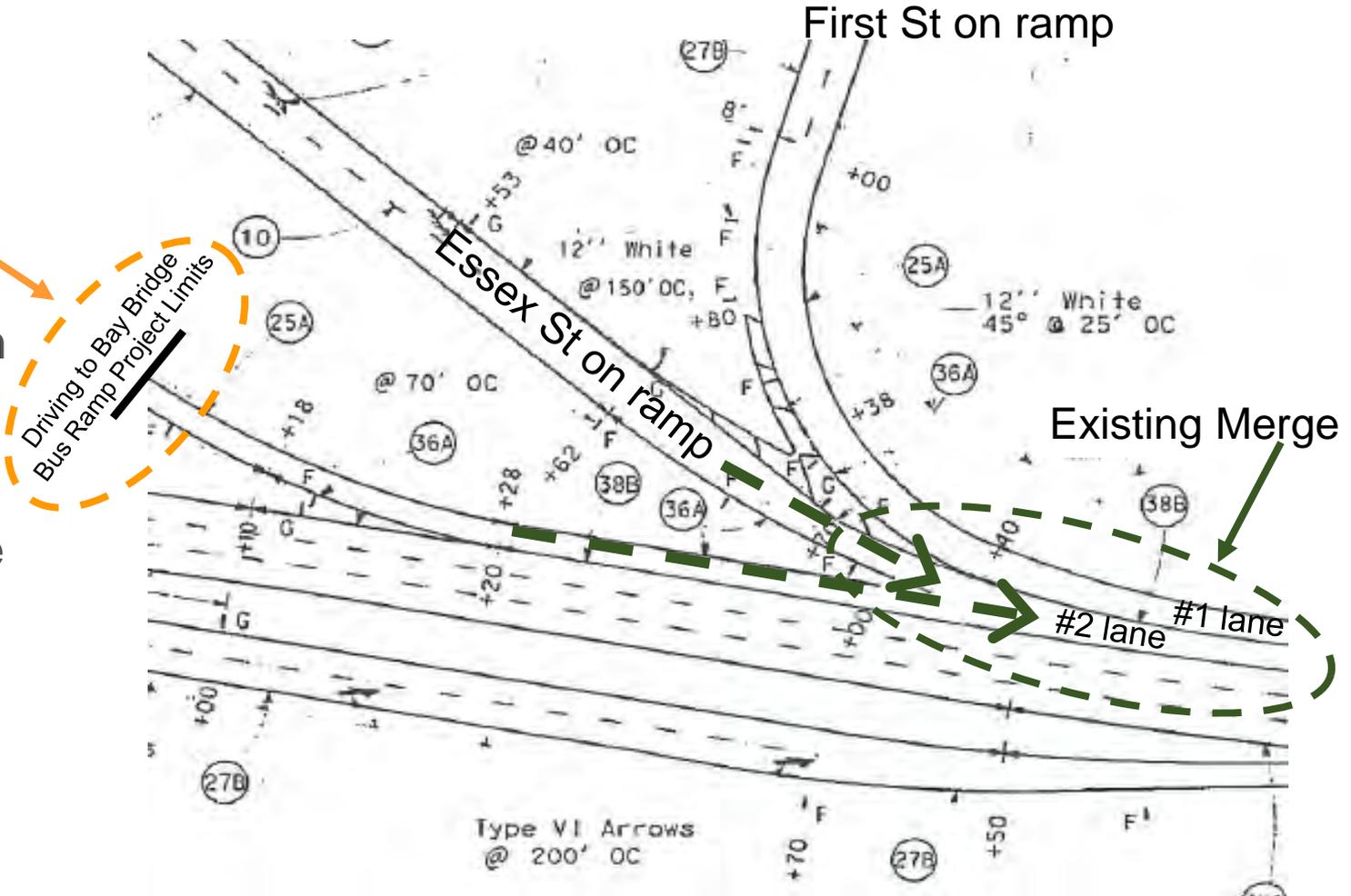
Bus On-Ramp

- Bus Ramp & Essex Street on ramps merge today the same as prior to 2010 (see 2009 photo below)



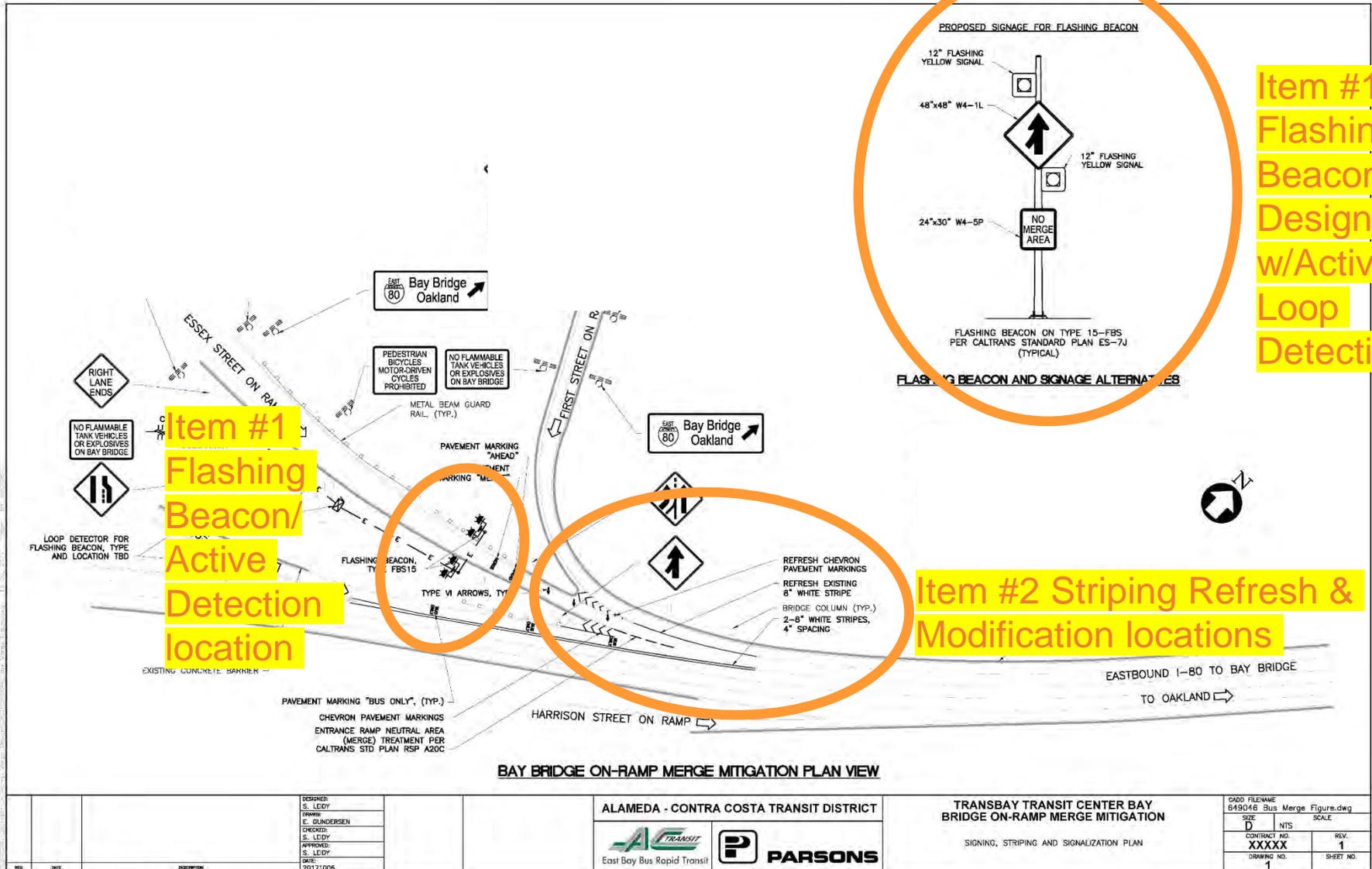
Bus On Ramp/ TJPA Limits

The TJPA's Bus Ramp project limits were based on design review and did not effect the pre-existing merge with Essex.



West Approach project conditions 2009 and today

Bus On-Ramp/AC Transit Proposal



Item #1
Flashing
Beacon
Design
w/Active
Loop
Detection

Item #2 Striping Refresh & Modification locations

| | |
|------------------------|---------------------|
| DESIGNER: S. LEDY | DATE: 2017/10/06 |
| DRAWN: E. GUNDERSEN | |
| CHECKED: S. LEDY | |
| APPROVED: S. LEDY | |

ALAMEDA - CONTRA COSTA TRANSIT DISTRICT

East Bay Bus Rapid Transit

PARSONS

TRANSBAY TRANSIT CENTER BAY BRIDGE ON-RAMP MERGE MITIGATION

SIGNING, STRIPING AND SIGNALIZATION PLAN

| | |
|--|-----------|
| CADD FILENAME: 849046 Bus Merge Figures.dwg | SCALE: |
| SHEET: D | NTS |
| CONTRACT NO. XXXXX | REV. 1 |
| DRAWING NO. 1 | SHEET NO. |

Bus On-Ramp/Action Items

- AC Transit to provide TJPA with a Caltrans approved design of a flashing beacon w/active loop detection along with existing striping refresh and modifications.
- Caltrans has committed to assist in expediting the permit process.
- TJPA is committed to implementing the changes in the field as soon as possible.



Questions?

TJPA
TRANSBAY JOINT POWERS AUTHORITY

201 Mission Street, Suite 2100 San Francisco, CA 94105 • 415.597.4620 • www.tjpa.org