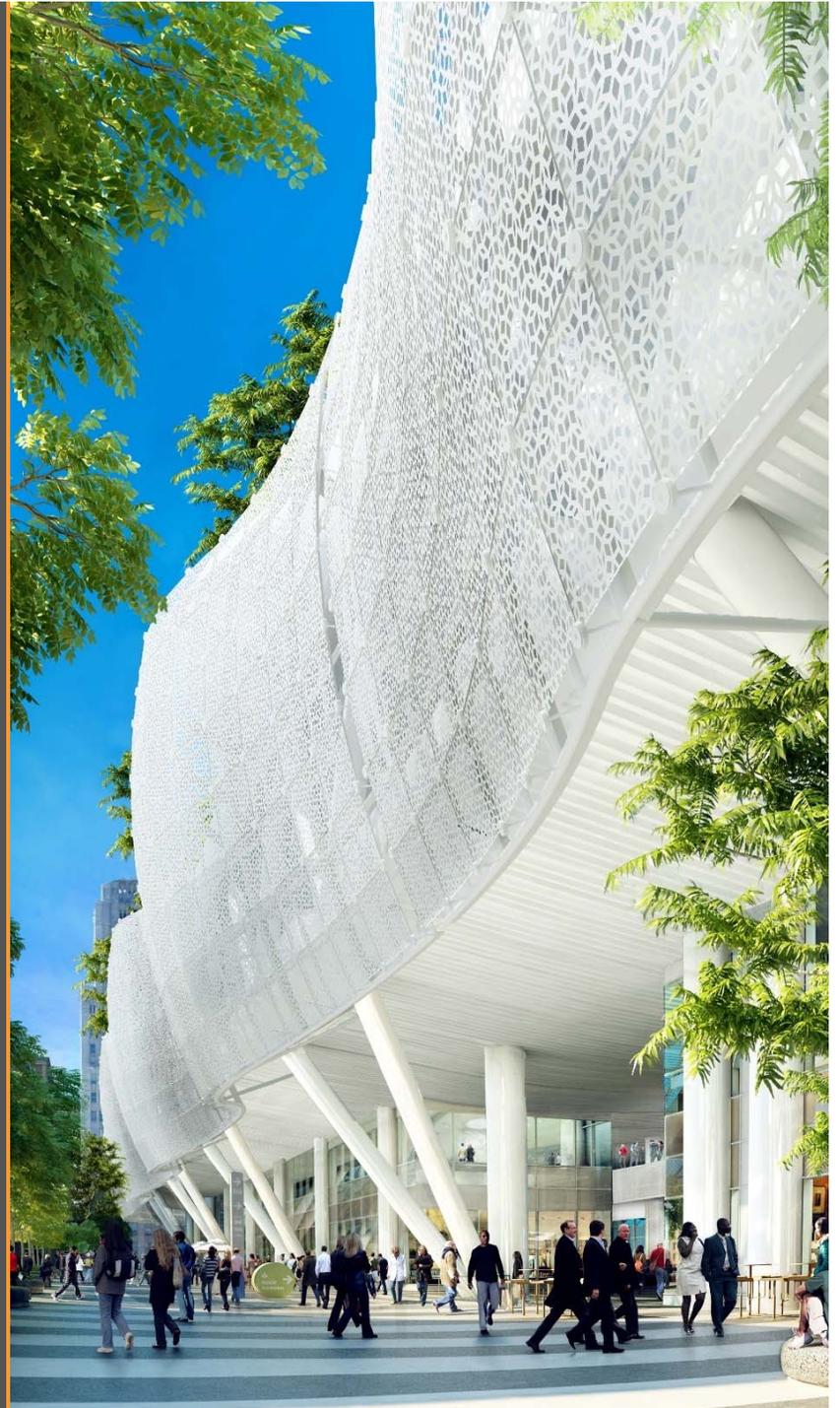


CRC Item No. 5 - May 18, 2018

Construction Update



Project Overview

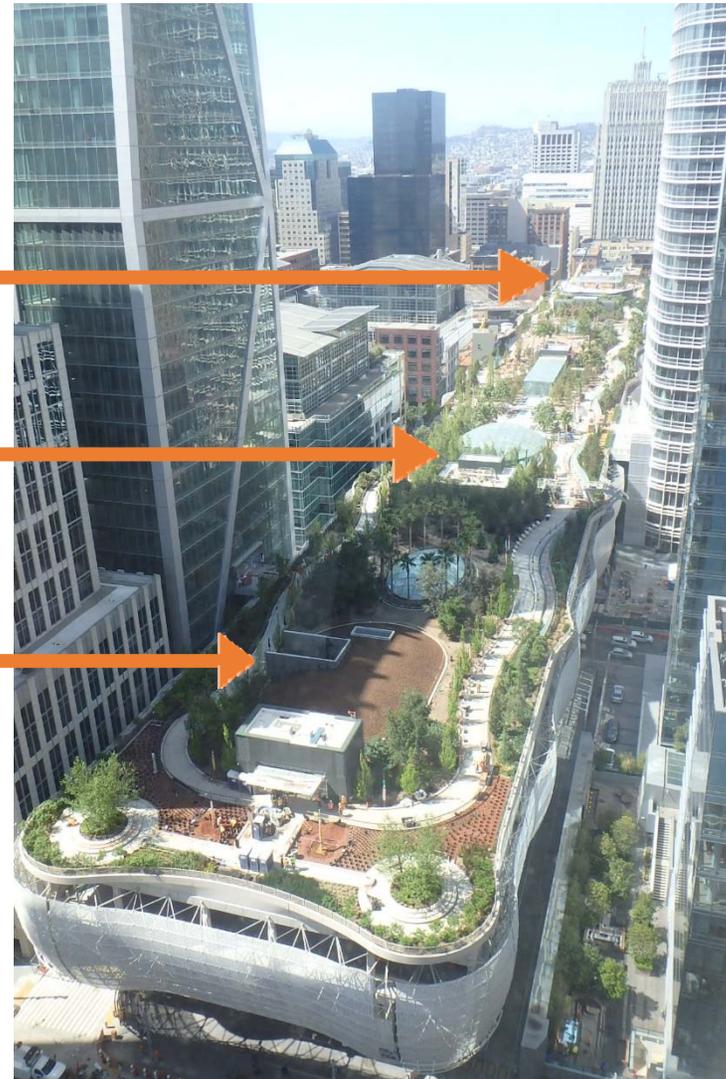
Western Zone Grid Line 1-10



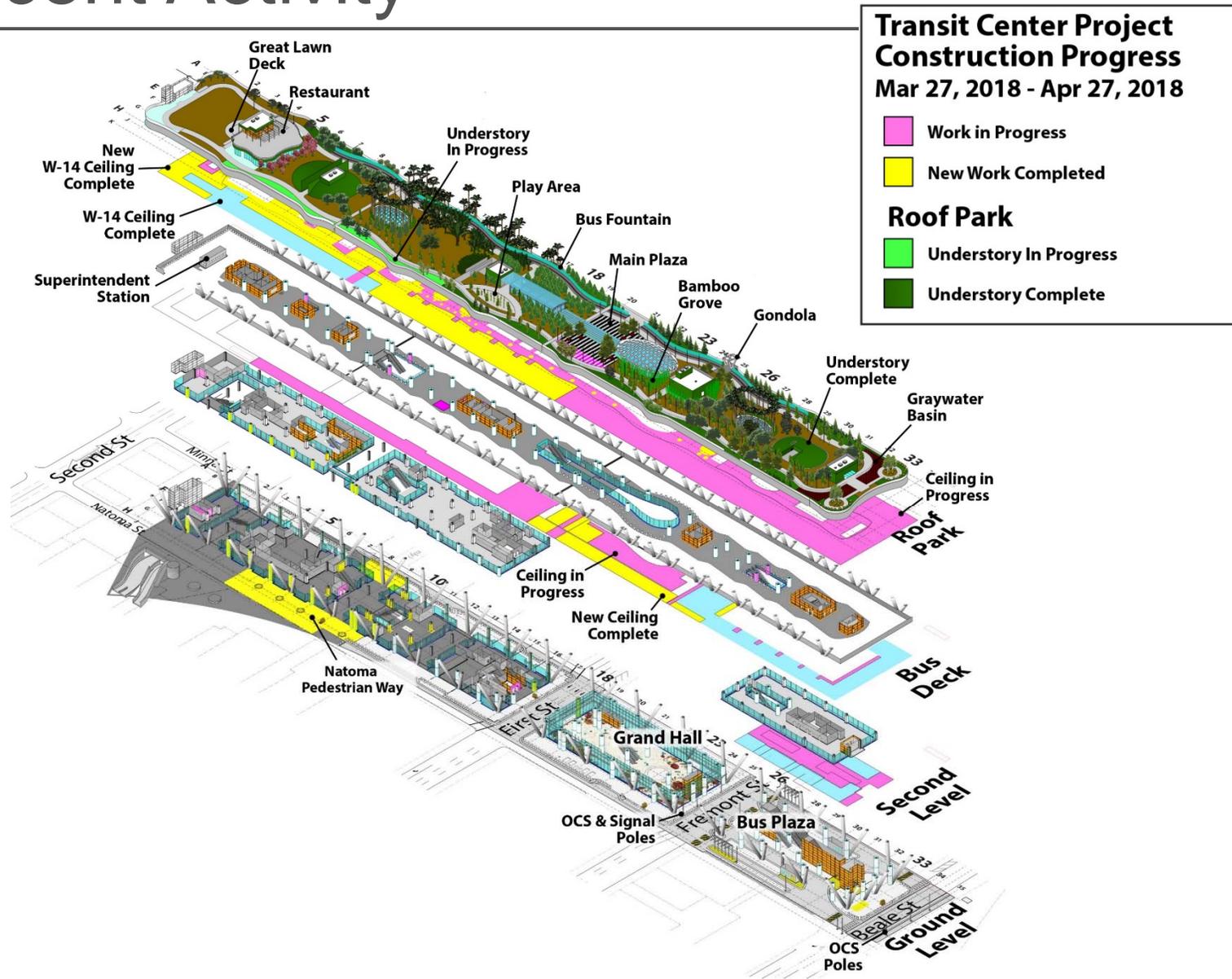
Central Zone Grid Line 10-20



Eastern Zone Grid Line 20-35

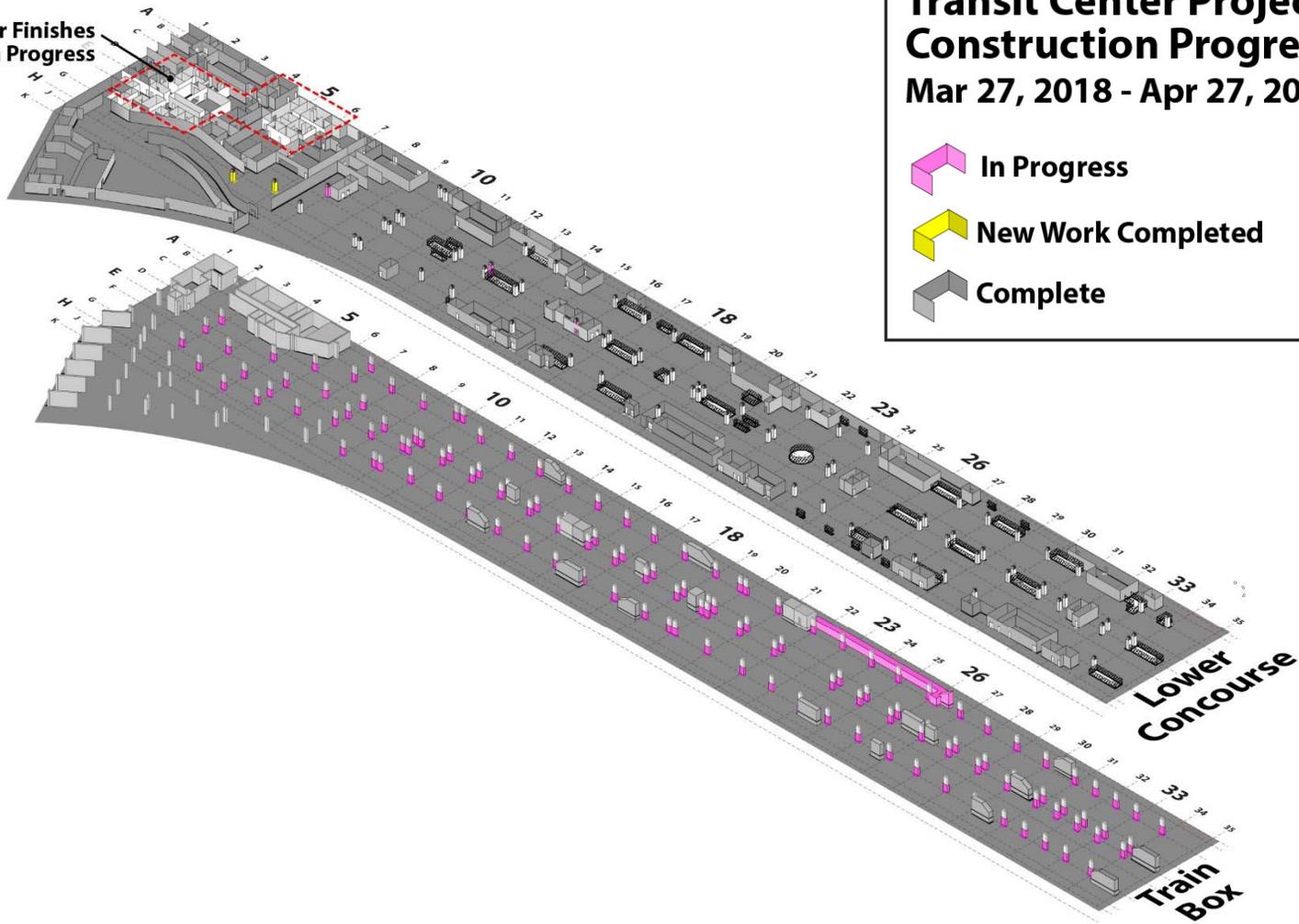


Recent Activity



Recent Activity

Interior Finishes
In Progress



Construction Activity

Transit Center – West End (GL1-20)

- Roof Amphitheatre construction underway.
- Rooftop landscaping plantings in progress.
- Rooftop escalator and elevator landings concrete placement, connect to pathways.
- Bus Deck Drive aisle ceiling panels well underway, near completion.
- Bus Deck Passenger Island ceiling framing and fans in progress.
- Bus Deck AC Transit Superintendent Booth delivered and installation in progress.
- Elevators and Escalators final assembly and finishes underway.
- Ground Level sidewalks and roadway construction continues Minna and Natoma.
- Priority Equipment Rooms and Turnover Rooms have Punchlist work in progress.
- Electrical conduits and power cable distribution continues.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.

Transit Center – East End (GL20-35)

- Rooftop landscaping nearing completion.
- Gondola assembly and landings nearing completion.
- Rooftop hardscaping around the Oculus and Glass Floor nearing completion.
- Bus Deck, Grand Hall and Bus Plaza overhead Mechanical and Electrical in progress, nearing completion.
- Bus Deck column covers in progress.
- Bus Deck Passenger Island ceiling framing, panels and fans in progress.
- Bus Deck, Grand Hall and MUNI Bus Plaza Metal wall panels near completion.
- Elevators and Escalators final assembly and finishes underway.
- MUNI Bus Plaza drive aisle and pedestrian islands construction nearing completion.
- Electrical conduits and power cable distribution continues.
- Main Distribution (MDF) and Intermediate Distribution Frame (IDF) Rooms underway.
- Equipment rooms buildout in progress.

Rooftop Park – Seating at the Bamboo Grove



Rooftop Park – Understory Planting



Roof Park – Seating at Perimeter Walkway



Roof Park Restaurant – Terrace Level



Bus Deck – AC Transit Superintendent's Booth



Bus Deck – Metal Ceiling at Drive Aisle



Bus Deck – Ceiling Fan & Metal Ceiling at Passenger Island



Exterior Doors at the Grand Hall

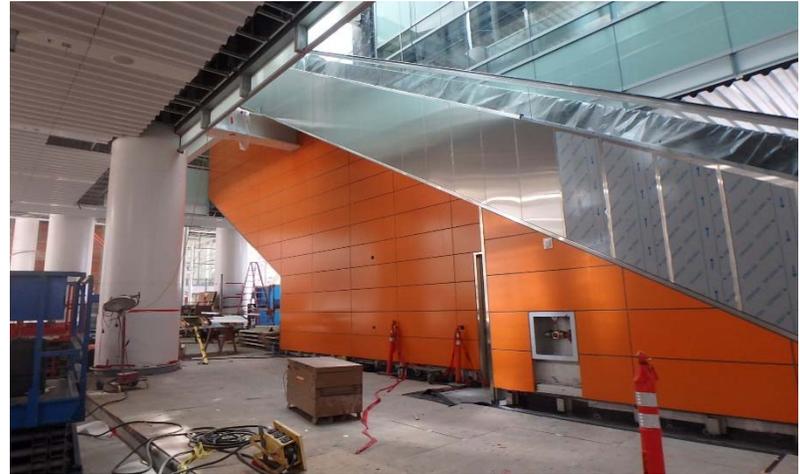


Emergency Generator



Both Emergency Generators have been started and Fuel Oil System is permitted.

Muni Plaza



Tenant Improvement Construction planning

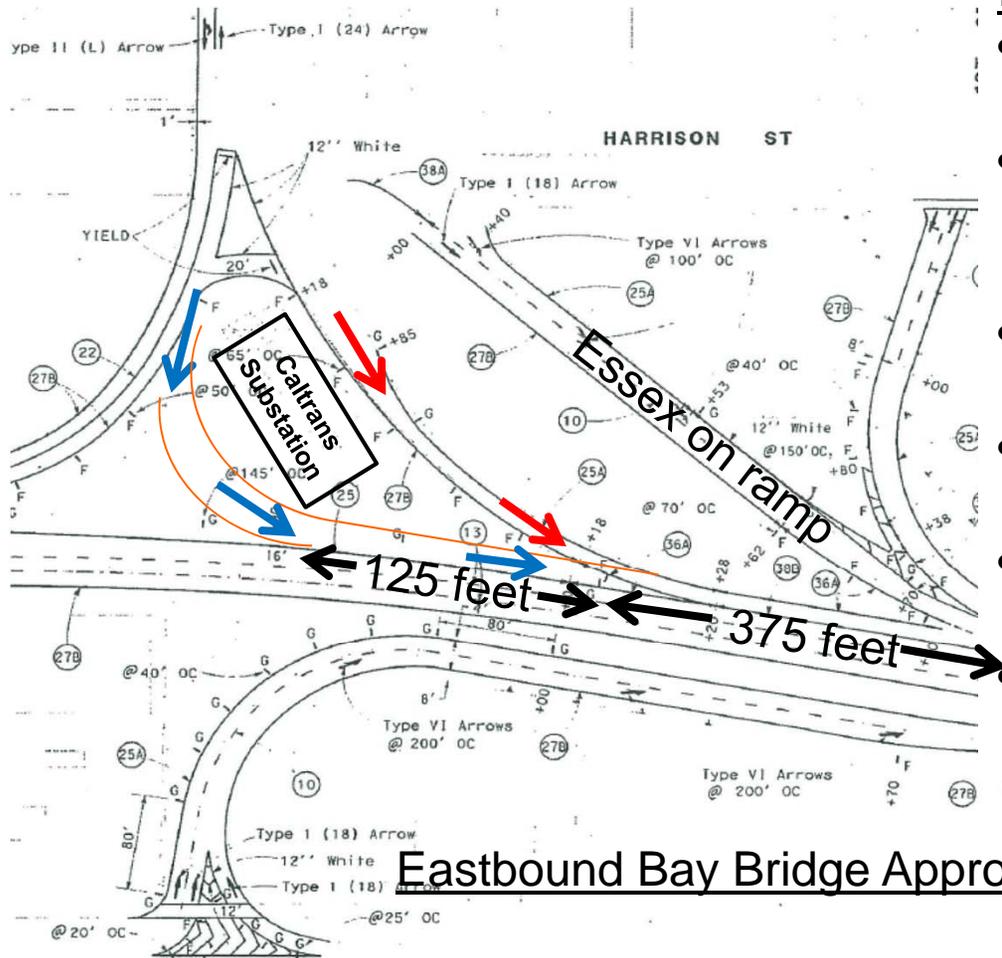
Webcor Priority Room turnover to Lincoln Properties:

- Transit Center Mail Room #1380- Ground level.
- Greyhound Package Area Room #1221- Ground level.
- Greyhound [Amtrak] Passenger Waiting Area Room #02220 – Level 2.
- Greyhound Passenger Service Room #3228 – Bus Deck level.
- Office Space - TJPA Offices Room # 02620- Level 2.

Lincoln Properties Room Buildout – Design Build:

- Architectural and MEP drawings (Greyhound/Amtrak) are under review by CCSF. Permit imminent.
- Fire Protection / Fire Alarm design has been submitted to SFFD for Permit.
- TJPA/LPC/Mail Room design complete. Bidding by subcontractors in process.
- Room Turnover Work completion list and Punchlist coordination between Turner SPD and Webcor-Obayashi and Architects in progress.

Bus On-Ramp Merge



Implementation Status:

- Caltrans approval granted on AC Transit design.
- Construction Change Order approved for \$255k. Funded by Program Reserve.
- Flashing Beacons, Loops and conduit already installed.
- Concrete Barrier installation is ongoing.
- Awaiting delivery of the controller cabinet to complete construction. Last activity is striping to be completed in mid-May.



Bus Storage Facility



Current Work Activities

- Sound wall work completed.
- Modular Admin Building delivery enroute.
- MSE wall work completed.
- Concrete Pavement 90% Completed.
- On track for June 26th Substantial Completion.

Safety and Labor Statistics

Recordable & Lost Time Incidents:

WOJV Recordable Incidents this period April 2018:	1	WOJV Lost Time Incidents this period April 2018:	0
Total Recordable Incidents -Year 2018	2	Total Lost Time Incidents - Year 2018	0

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

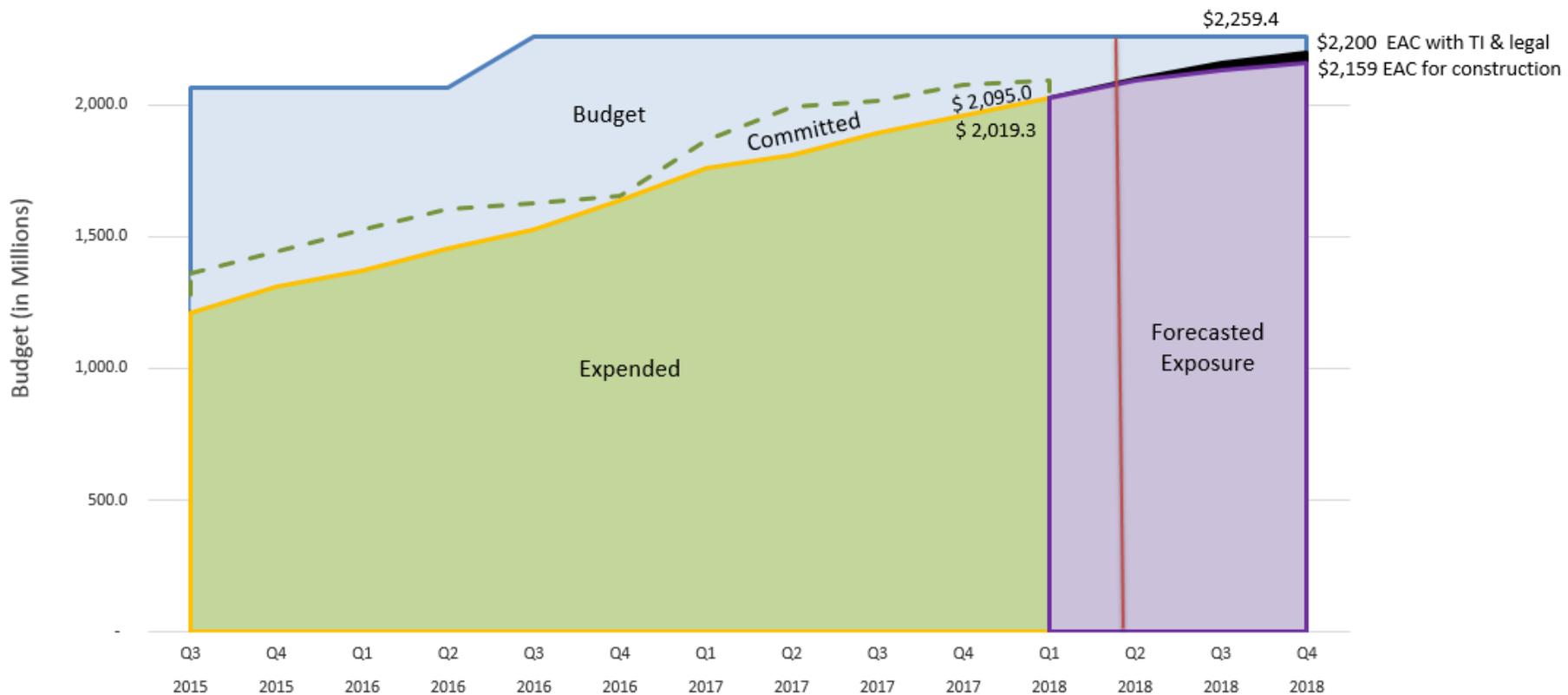
Craft Hours:

Total Transit Center Craft Hours 2011 - YTD 2018 :	Total Craft Hours <u>April 2018:</u>	Total Transit Center Craft Hours YTD 2018 :
5,029,862	173,352	545,352

Budget

Phase 1 - Transbay Program

Data thru: March '18



89% Program Budget
104% Contract Time

Phase 1 Budget & Commitments (in millions)

	<u>Budget</u>	<u>Committed</u>	<u>Expended</u>	<u>Balance</u> (Budget less Committed Costs)
Construction Costs	\$1,528.5	\$1,497.0	\$1,436.7	\$31.5
Program-wide Costs (Soft Costs)	\$611.1	\$598.0	\$582.6	\$13.1
Contingencies & Reserves	\$119.8	\$0.0	\$0.0	\$119.8
TOTAL	\$2,259.4	\$2,095.0	\$2,019.3	\$164.4

Contingency Cost

Contingency Tracking (\$millions)

	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
Baseline Budget Amounts	\$61.8	\$32.5	\$117.0	\$211.3
Contingency Usage Through Mar 2018	(\$47.6)	(\$11.3)	(\$26.2)	(\$85.1)
Remaining Baseline Budget Amounts (at Mar 2018)	\$14.2	\$21.2	\$90.8	\$126.2
Total Draws/Addds Apr 2018	(\$3.0)	(\$3.5)	(\$2.5)	(\$9.0)
Remaining Balances	\$11.2	\$17.7	\$88.3*	\$117.2

Uses of Contingency this period

Additional costs for temporary facilities, traffic signal and street lighting refinements per SFMTA, E2 pylon louvers and frosted lens, civil scope transfer from TG12.1 to TG07.6, revisions to DTIS and OCS poles, added scope for DTIS at Beale Street. Program reserve drawdown is for the Board approved amount during April meeting for Turner CM services.

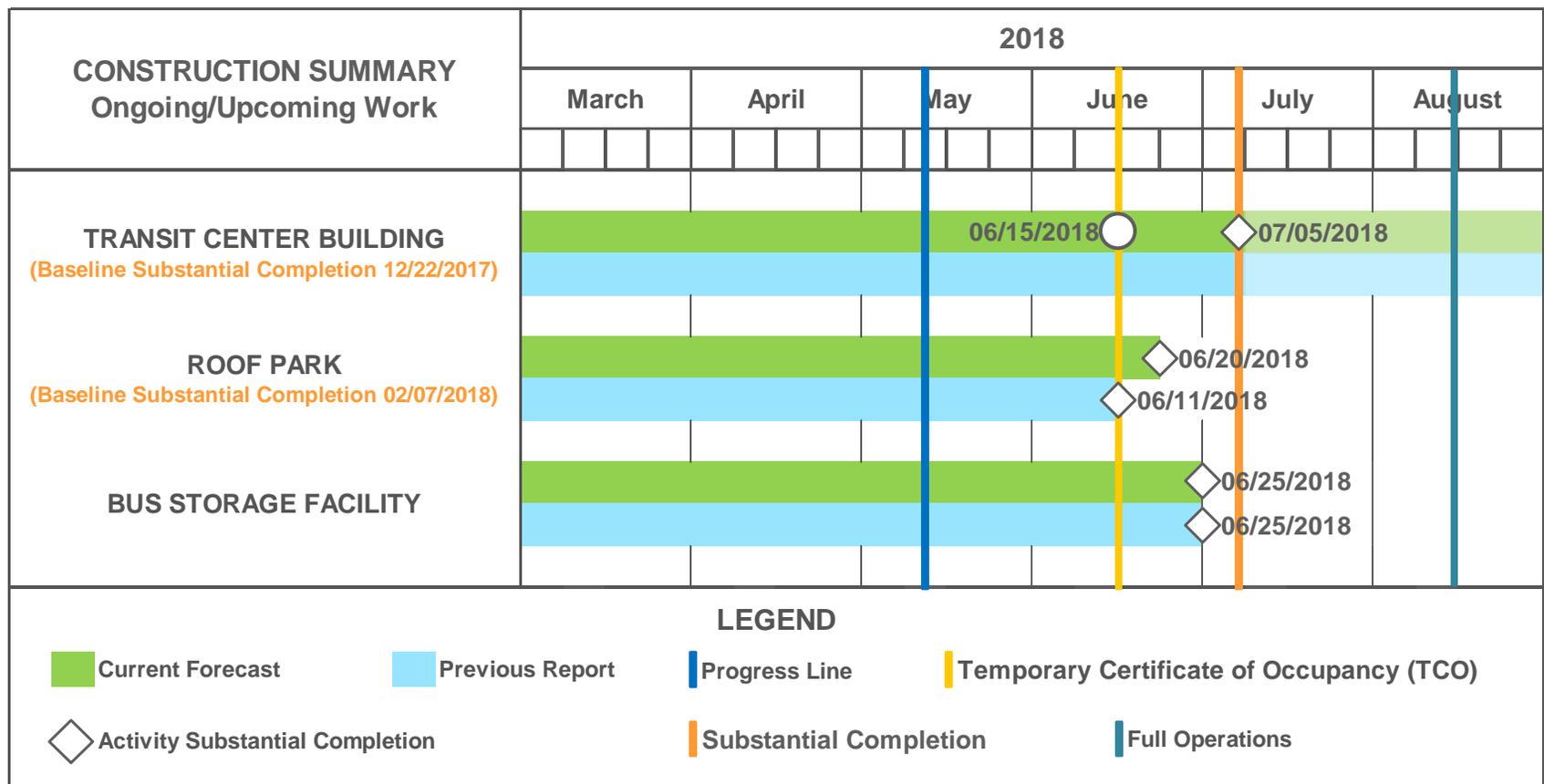
Forecasted Contingency Use

CM/GC: \$0.2M

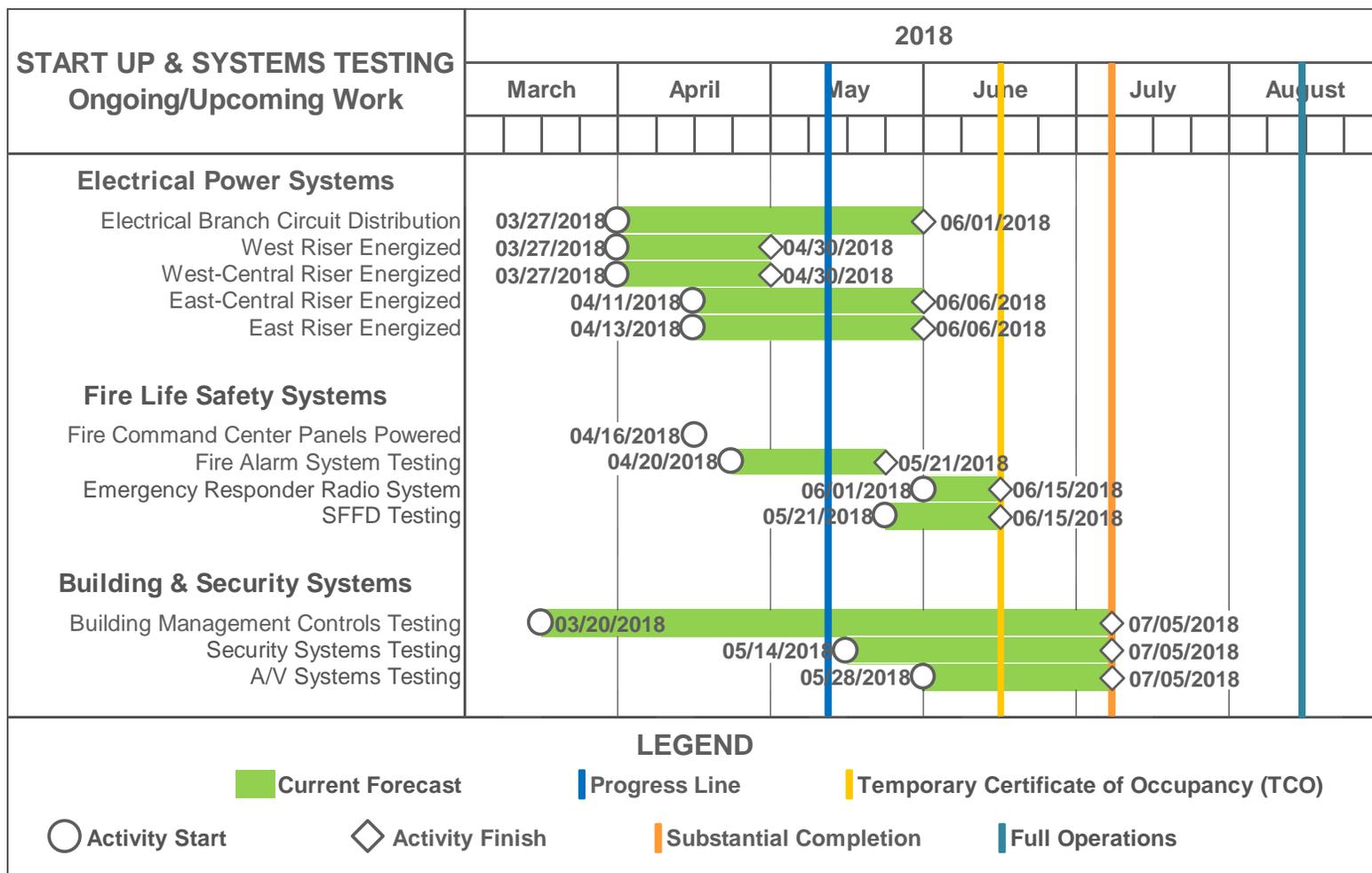
Construction: \$1.1M

Program Reserve: \$0.0

Schedule



Schedule

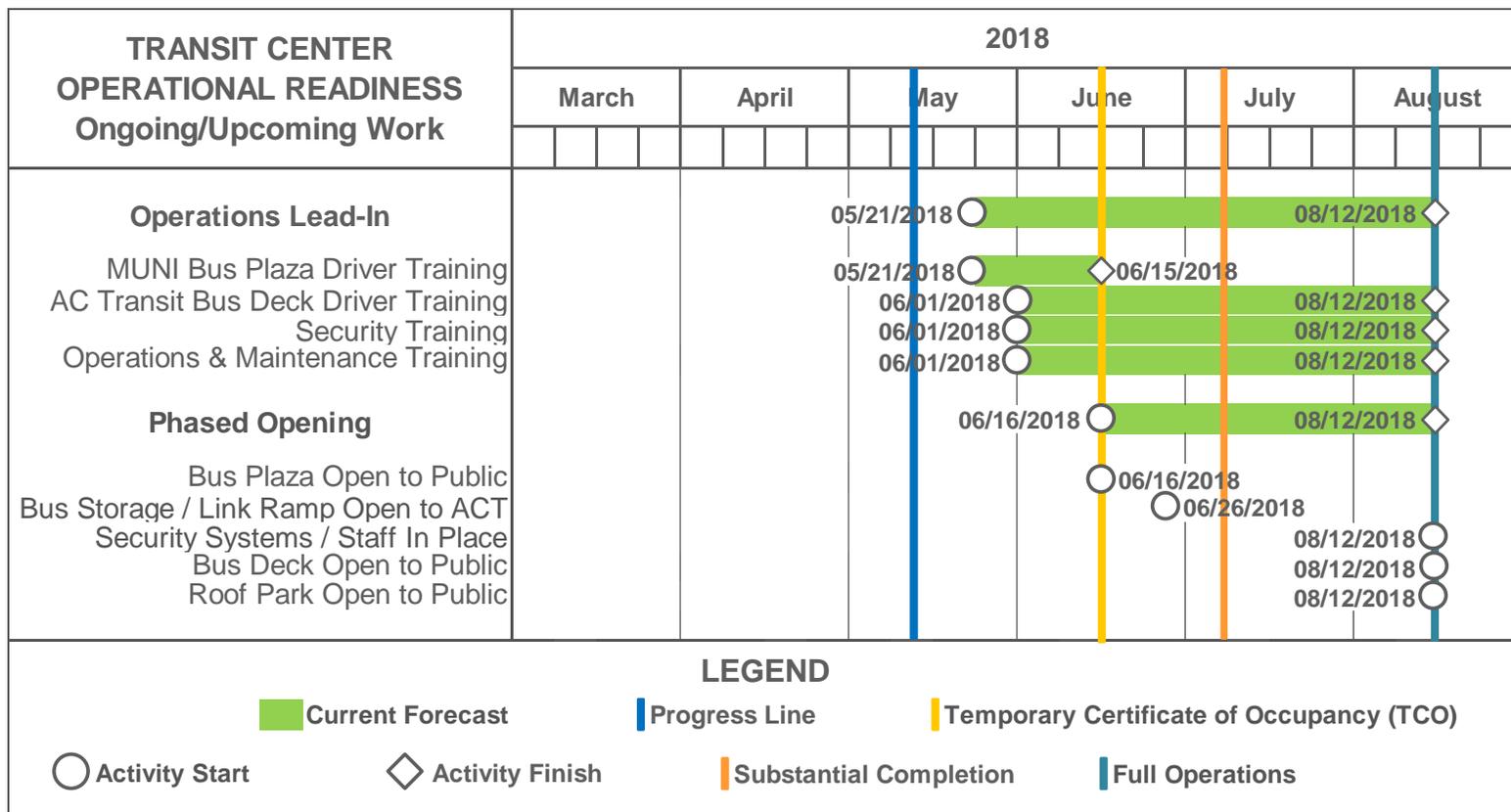


LEGEND

- Current Forecast
- Progress Line
- Temporary Certificate of Occupancy (TCO)
- Activity Start
- ◇
 Activity Finish
- Substantial Completion
- Full Operations

TIME BETWEEN TCO & SUBSTANTIAL COMPLETION IS INSPECTIONS/CORRECTIONS.

Schedule



LEGEND

- Current Forecast
- Progress Line
- Temporary Certificate of Occupancy (TCO)
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- Activity Finish
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- Full Operations

TIME BETWEEN TCO & SUBSTANTIAL COMPLETION IS INSPECTIONS/CORRECTIONS.

AC Transit- Bus Deck Readiness

- Completed Successful Executive walkthrough on April 23rd included AC Transit, TJPA, & WOJV.
- Identified AC Transit requirements required for August 12th revenue service start are underway or already accomplished.
- Confirmed State of Completion expectations are aligned and achievable.
- Continuing with weekly Transit Operations Prep meetings continue with stakeholders including refinement of training coordination.

Schedule Risk

Mitigation Status

- 1) Real-Time Issue Resolution Ongoing. (PLT, OAC/Risk, Construction Issues meetings weekly to address any outstanding issues)
- 2) Electrical Related Scope of Work continues to drive Schedule.
 - Maintaining Acceptable Milestone Achievement.
 - Sustaining elevated level of Electrical Personnel & Activity.
 - Diminished occurrence of faltering Subcontractors with many of earlier weaknesses addressed.
- 3) Other Trade Contractors Performance Improved.
 - Milestones for Transition to Tenant Improvement Activity met or on target
 - Site Improvement Completion continues to support Targeted Milestones.

Schedule Risk

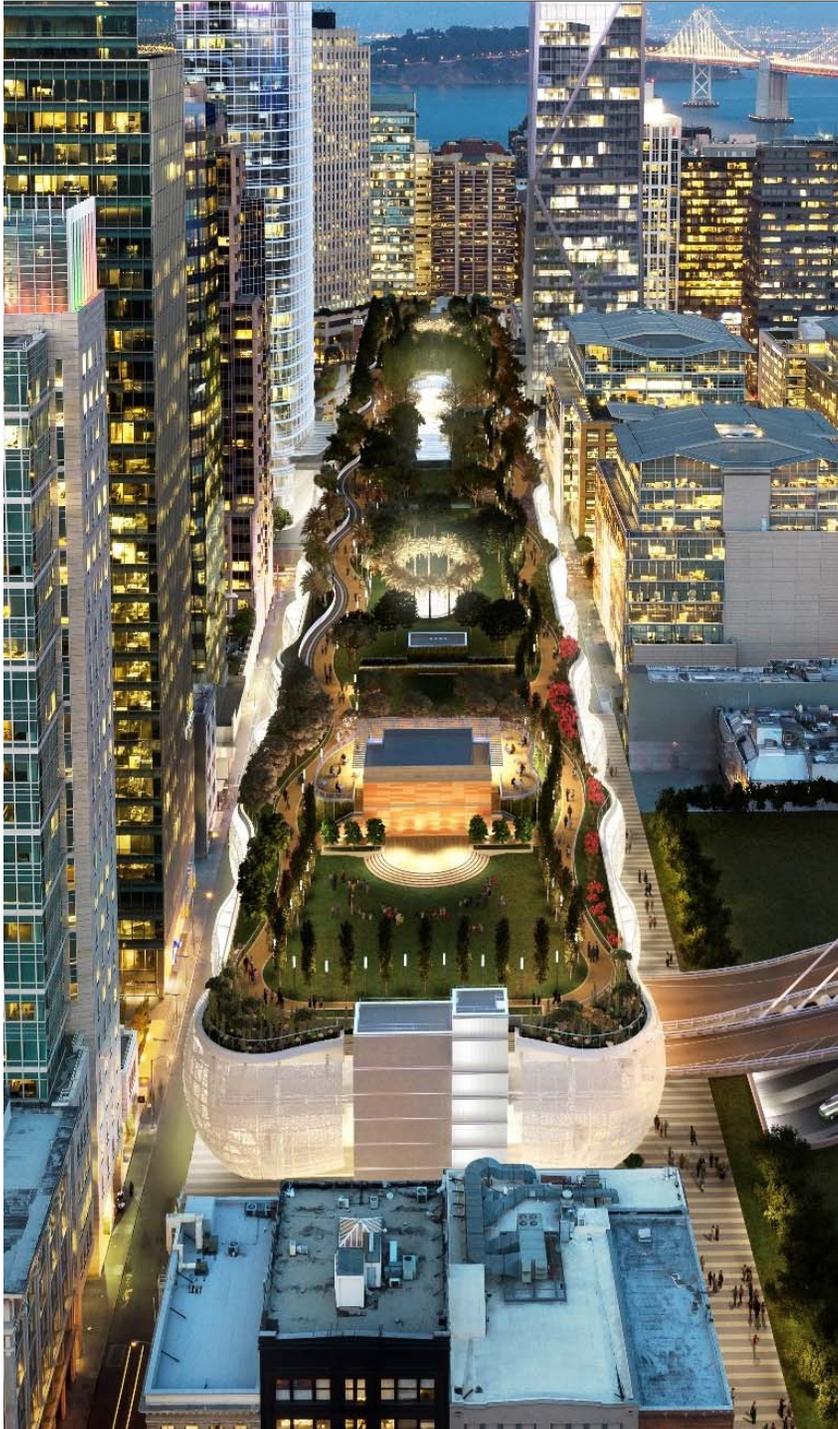
Notable Remaining Risk Elements

- Building Systems Start-up and Commissioning Issues.
- Fire and Life Safety Systems Functional Performance Issues.
- Security Component and Software Functional Issues.
- Delivery, Installation & Commissioning of E2 Pylons.

Schedule Risk

WOJV Electrical & Systems Schedule Refresh Update:

- Applicable Trades working 10 Hr. shifts 6 days/week + Sunday where needed.
- Current Schedule Activities Support 6/15/2018 TCO.
- Power Energization tracking.
- Fire Management System tracking.
- Network installation tracking.
- Start up Activities tracking.



Questions?

TJPA
TRANSBAY JOINT POWERS AUTHORITY

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