# **Construction Update**

February 2018





# **Project Overview**

**Western Zone Grid Line 1-10** 

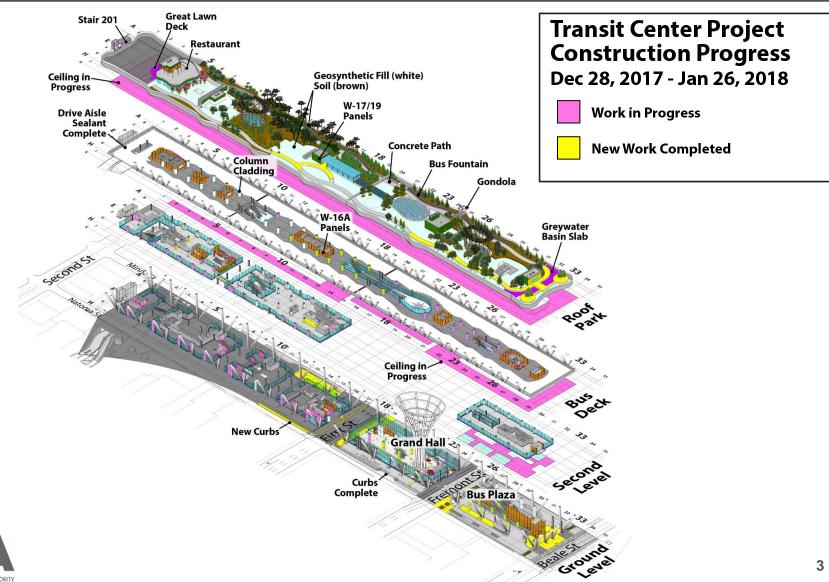
**Central Zone Grid Line 10-20** 

**Eastern Zone Grid Line 20-35** 

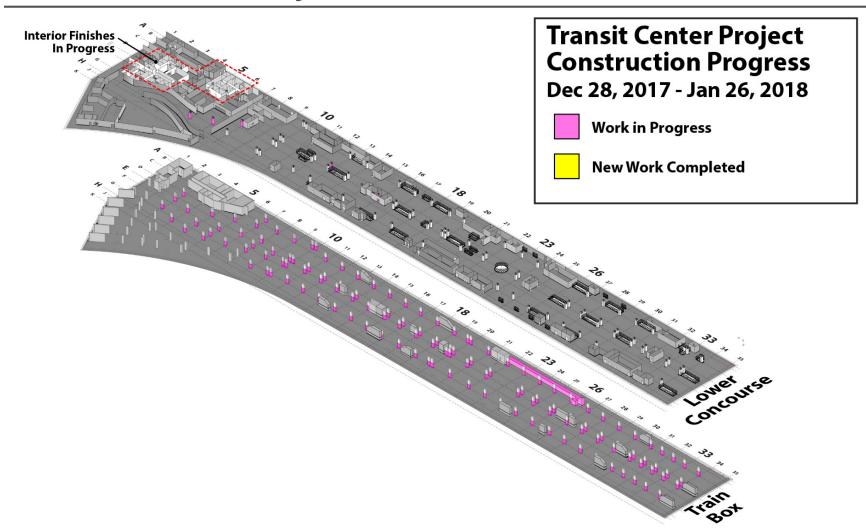




# Recent Activity



### Recent Activity





### **Construction Activity**

#### **Transit Center – West End (GL1-20)** -Roof Amphitheatre construction underway. -Escalator canopy glass panels underway. -Rooftop landscaping well underway. -Rooftop granite pathway pavers underway. -Bus Deck Mechanical, Electrical, Plumbing underway including hydrotesting. -Bus Deck ceiling framing passenger island. -Bus Deck column covers in progress. -Bus Deck drive aisle coating complete. -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

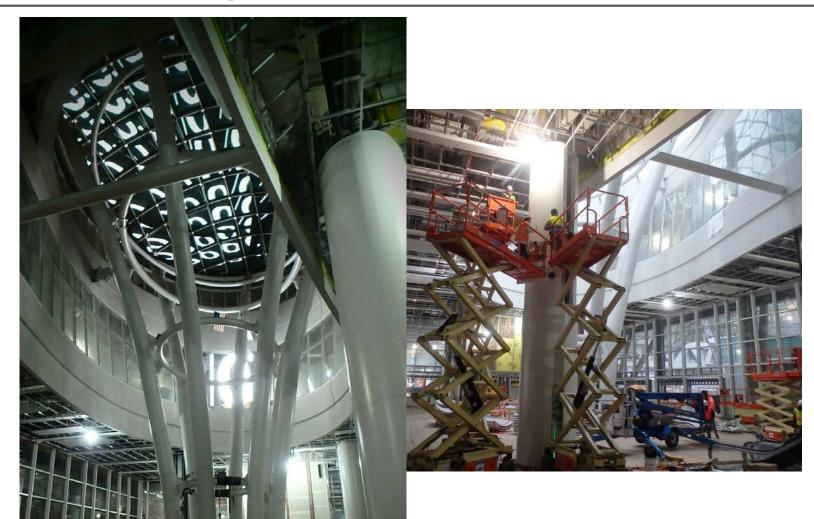
Metal wall panels underway.

#### **Transit Center – East End (GL20-35)**

- -Rooftop 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 complete.
- -Elevator and Escalators underway.
- -Grand Hall sidewalks and roadways construction –Natoma in progress.
- -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.

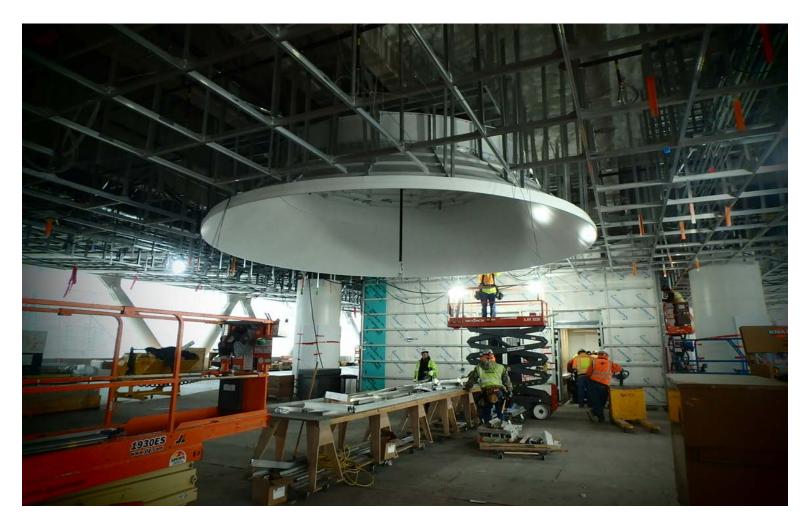


# **Grand Hall progress**





### Bus Deck Level – Bus Passenger Island





## Construction progress –Eastern Zone

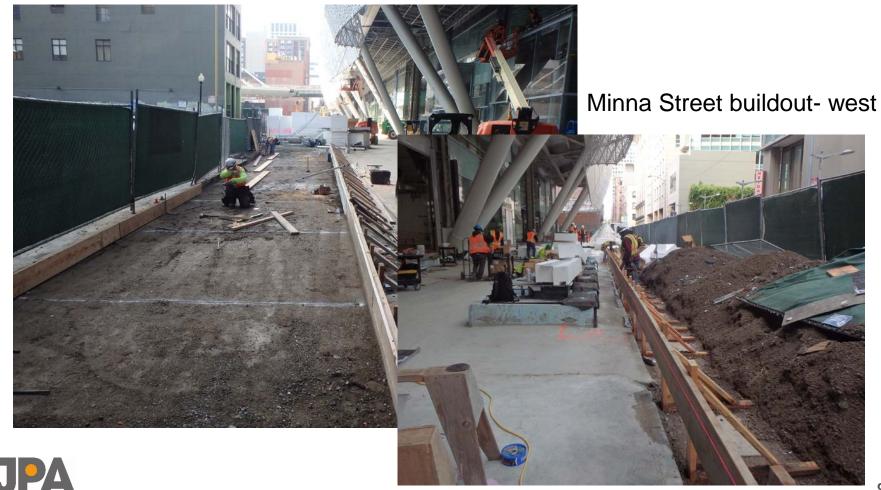
Retractable wedge barrier at Fremont Muni Bus Plaza south





### Construction progress –Western Zone

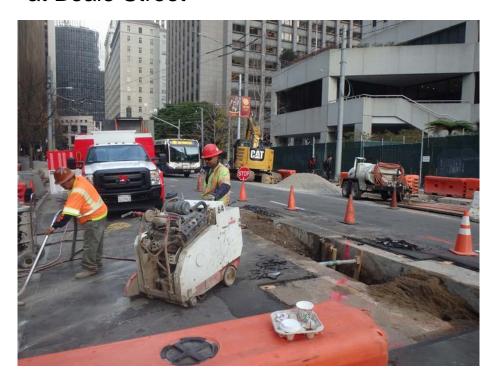
Natoma Street buildout – west of First Street



## Utility Construction progress

Traffic Signal Conduits and pull boxes

Underground Sanitary Sewer connection at Beale Street



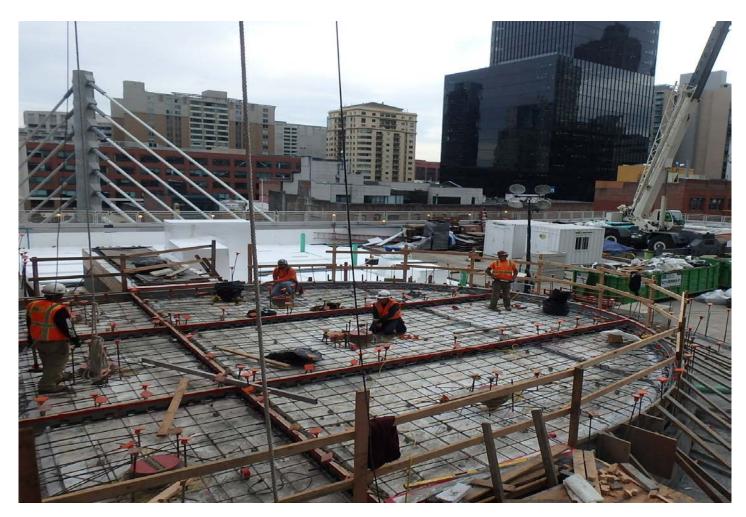


# Rooftop Park –Landscaping buildout



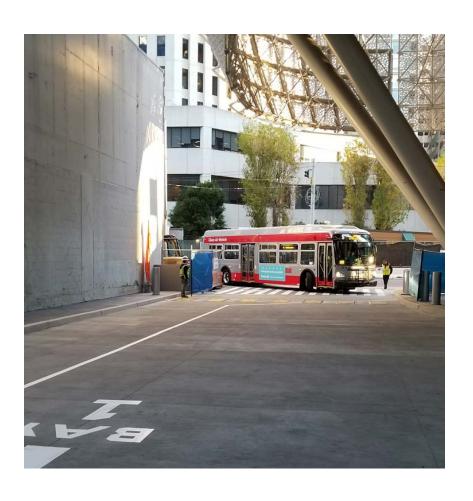


# Rooftop Park –Amphitheater buildout





# MUNI Bus Plaza - Operation





#### 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:

- HVAC Bids advertised and site walk downs complete.
- Wall Framing Bids advertised and site walk downs complete.
- Safety Coordination between Turner Special Projects and Webcor-Obayashi completed.
- Outreach for LBE/SBE contractors completed.
- Outreach to SF Building Trades Council per PLA Project Labor Agreement.

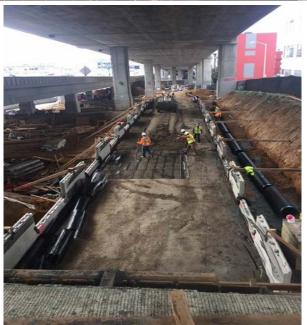


### **Bus Storage Facility**

#### **Construction Progress**

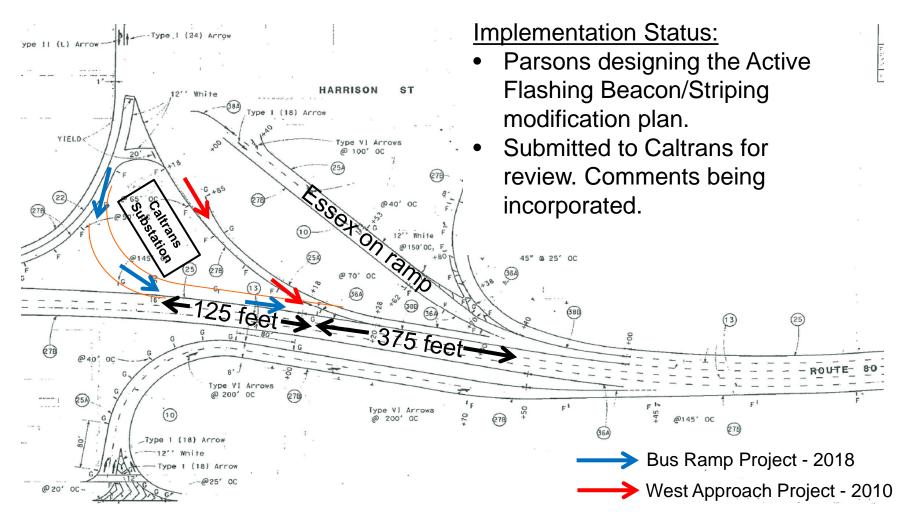
- Excavation/grading ongoing.
- Underground Utilities in progress.
- Retaining Wall Rebar & concrete pours ongoing.
- Bridge stem & soffit poured.
- Bridge deck poured. Falsework removal is completed mid-January.
- MSE Mechanically Stabilized Earth walls in progress and will complete in early February.
- Sound wall (noise attenuation) construction has started.
- Retaining Walls are in progress, near 80% complete.







## Bus On-Ramp Merge Status









## Safety and Labor Statistics

#### **Recordable & Lost Time Incidents:**

WOJV Recordable Incidents this period January 2018:		WOJV Lost Time Incidents this period January 2018:	0
Total Recordable Incidents  -Year 2018	0	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:**

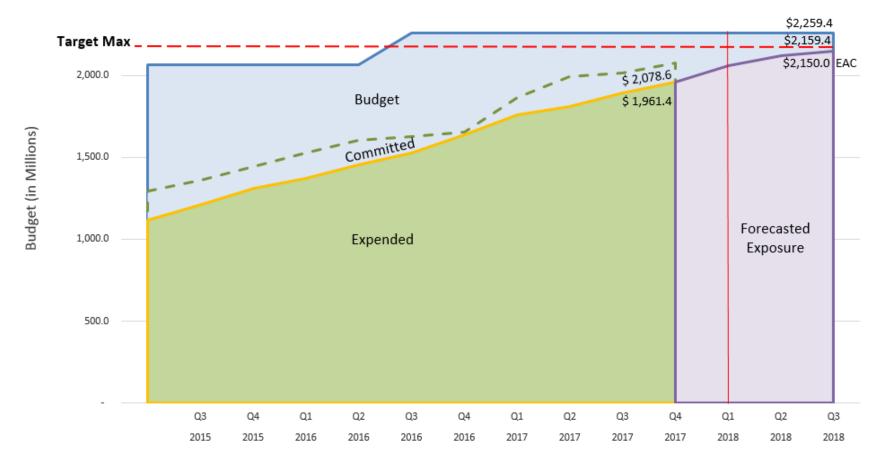
Total Transit Center Craft Hours 2011 - YTD 2018 :		Total Transit Center Craft Hours YTD 2018 :
4,583,812	101,492	101,492



# **Budget**

#### Phase 1 - Transbay Program

Data thru: December '17





87% Program Budget 100% Contract Time

# **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 Dec 2017	(\$40.8)	(\$4.7)	(\$24.0)	(\$69.5)
Remaining Baseline Budget Amounts (Dec 2017)	\$21.0	\$27.8	\$93.0	\$141.8
Total Draws/Adds January 2018	(\$2.0)	\$0.1	(\$0.0)	(\$1.9)
Remaining Balances	\$19.0	\$27.9	\$93.0	\$139.9

#### **Uses of Contingency this period**

Bus Storage off-haul/disposal unit price adjustment and other changes, Transit Center Building revisions to rebar, storm water mitigation and other plumbing changes, changes to wedge barriers, temporary scaffolding.

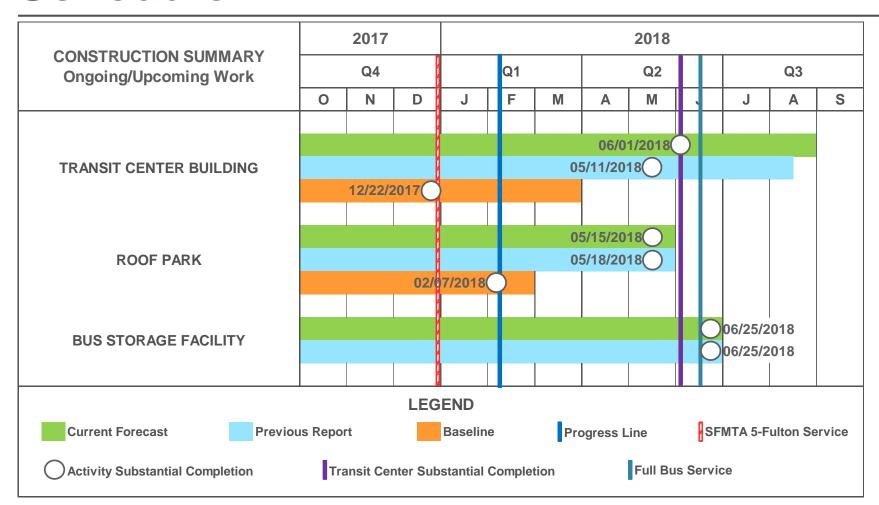
#### **Forecasted Contingency Use**

CM/GC: \$0.8M

Construction: \$1.6M Program Reserve: \$0.0

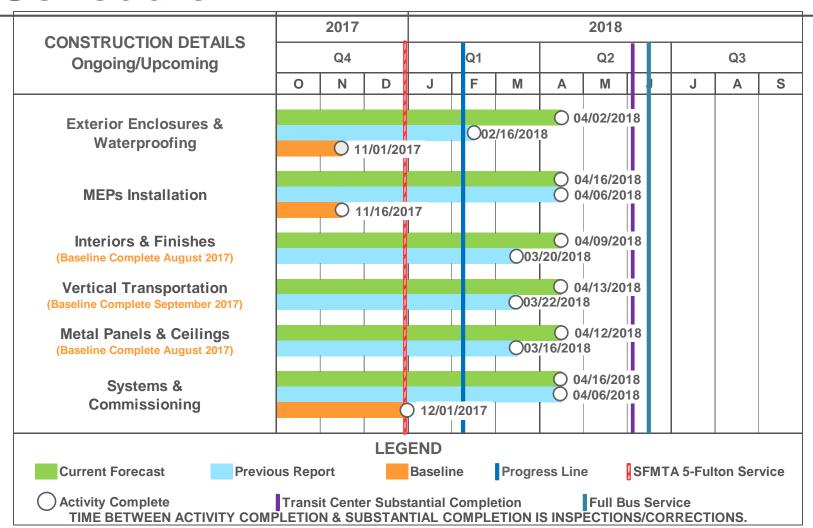


#### Schedule





#### Schedule





#### Risks

#### **Schedule**

Increased monitoring of Schedule Milestones indicate a mix of met and missed milestones yielding a net loss of schedule in the past month. Substantial Completion is currently forecasted for June 1, 2018.

#### Challenged Activities include:

- Electrical Subcontractor continues meet an unsatisfactory level of milestone achievement.
- Electrical Subcontractor's unmet commitments to Fabrication and Installation of E2 Pylons at Roof Park Level schedule.
- Completion and Energizing of SFPUC power distribution vaults.
- 4. State of Completion Inspection Readiness.



#### Risks

#### Mitigation Measures

WOJV Mitigation Strategy Update:

- 1. Recent Low Voltage Scope transfer from Fisk to Rosendin Electric.
- 2. Additional Supplementation of Normal Voltage Electrical Work continues.
- 3. Scope Shift Between Subcontractors for Site Concrete Continues.
- 4. Column Cover Installation Progressing with Original Subcontractor.
- 5. Addressing Interior Finish concerns with Supplementation of Crews.
- 6. Concentrated effort between WOJV, SFPUC, and TJPA towards Completion and Energizing of SFPUC power distribution vault.
- 7. WOJV introduced additional Close-out Management to address State of Completion Inspection Readiness concerns.





# Questions?

