



# Construction Update

May 2016

## Transbay Transit Center

**TJPA**





## Transbay Transit Center

Western Zone  
Gridlines 1 to 10

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Central Zone  
Gridlines 10 to 20

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Eastern Zone  
Gridlines 20 to 35

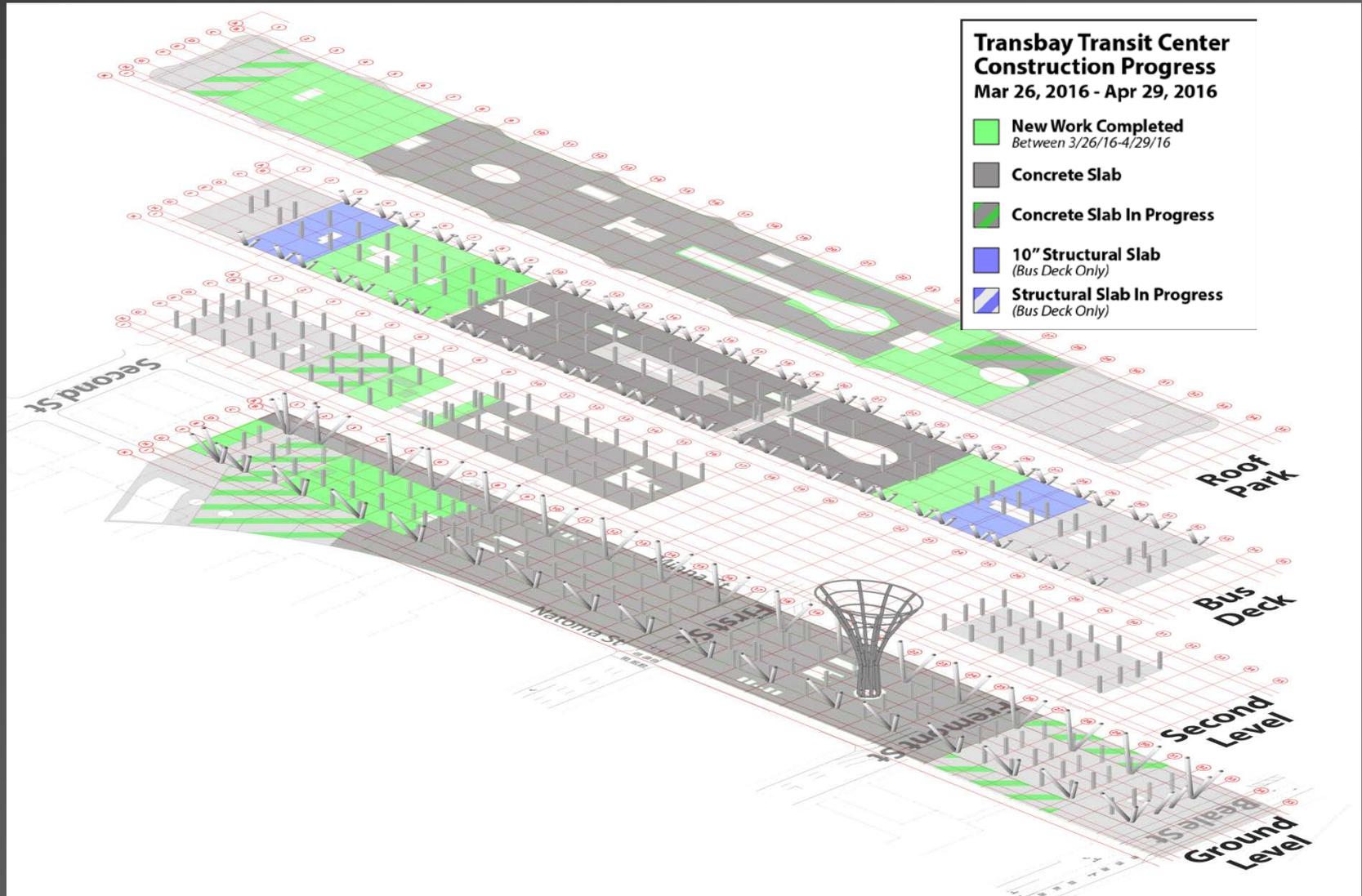


# Project Overview

1. Recent Activity
2. Upcoming Activity
3. Safety & Labor Statistics
4. Budget Overview
5. Contingency Cost
6. Schedule
7. Challenges



## Transit Center





## Western Zone (GL 1-10)

- Formwork, rebar and concrete placement for the southwest part of the Trainbox lid and upper decks continues.
- The concrete columns and upper walls for the Vehicle and Bicycle Ramps continues.
- Concrete foundations for Stair 201 (west end) continues.
- Mechanical/Electrical/Plumbing/Fire Sprinkler (MEPF) sleeves and hangers installation continues.
- Electrical room concrete and CMU walls continue to progress.
- Western zone internal bracing removal is now complete.



## Central Zone (GL 10-20)

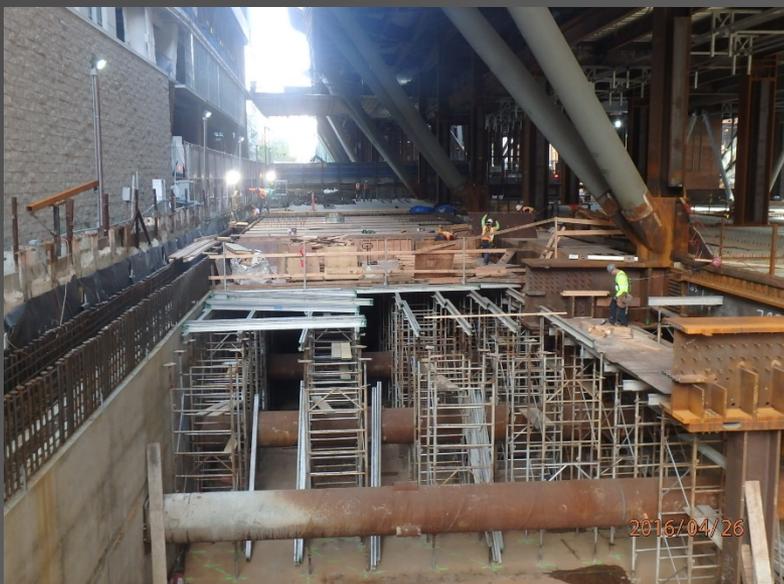
- Spray-Applied Fireproofing continues at all levels.
- MEPF trades continue with piping and HVAC duct work at all levels.
- Waterproofing of the ground level slab continues.
- Stair installation continues (Six of twenty-four stairs complete.)
- Awning, metal closure panel and curtain wall installation began this period.





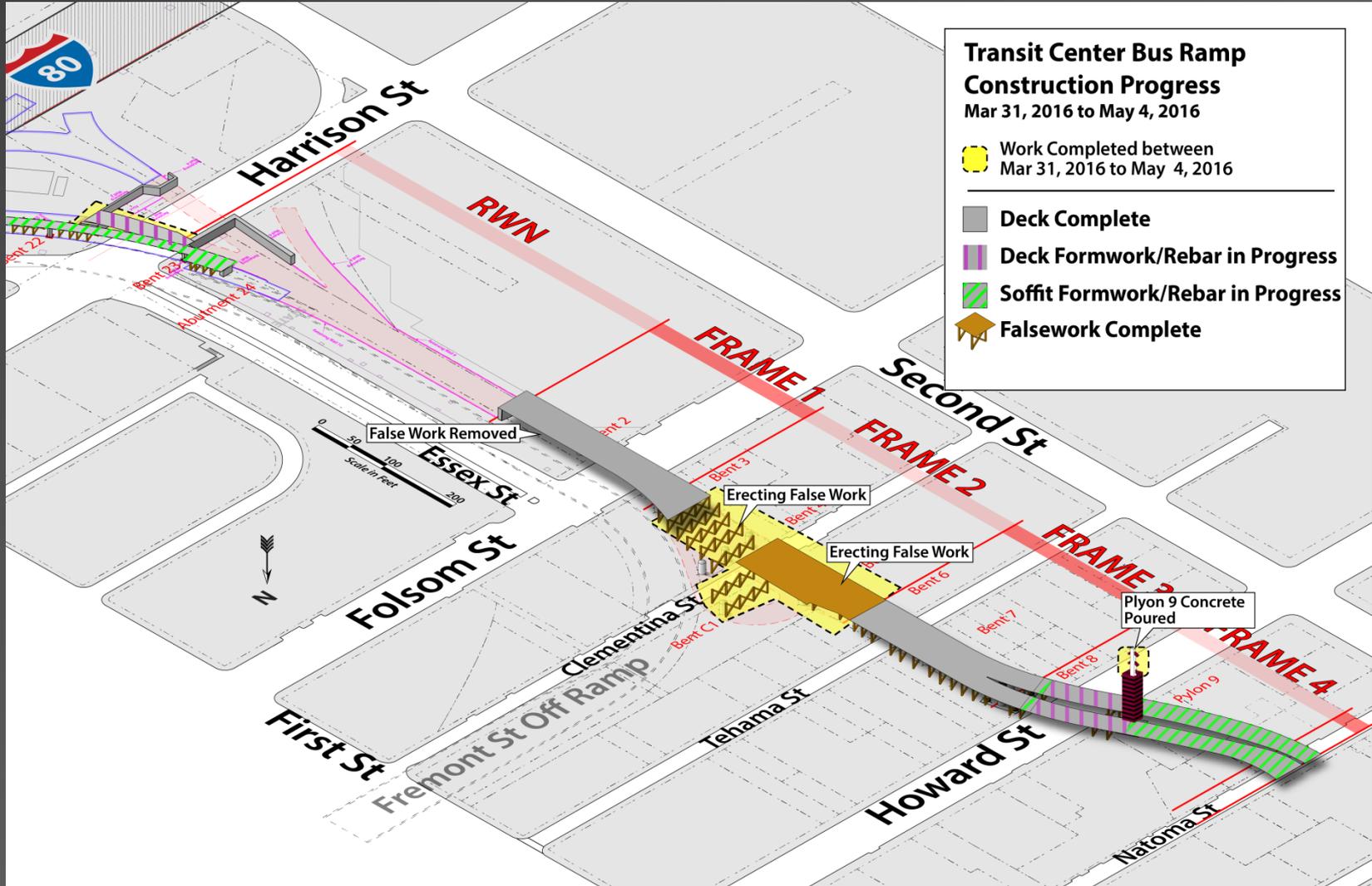
## Eastern Zone (GL 20-35)

- Structural steel welding and bolting was completed; final punchlist underway.
- Started Spray Applied Fireproofing.
- Bus Deck crash rail rebar and concrete continues.
- Concrete pours for the eyebrows and decks on all levels continues.
- MEPF sleeves and hangers embedded in concrete decks continues.
- Installation for the escalator mid support steel in the Grand Hall began.



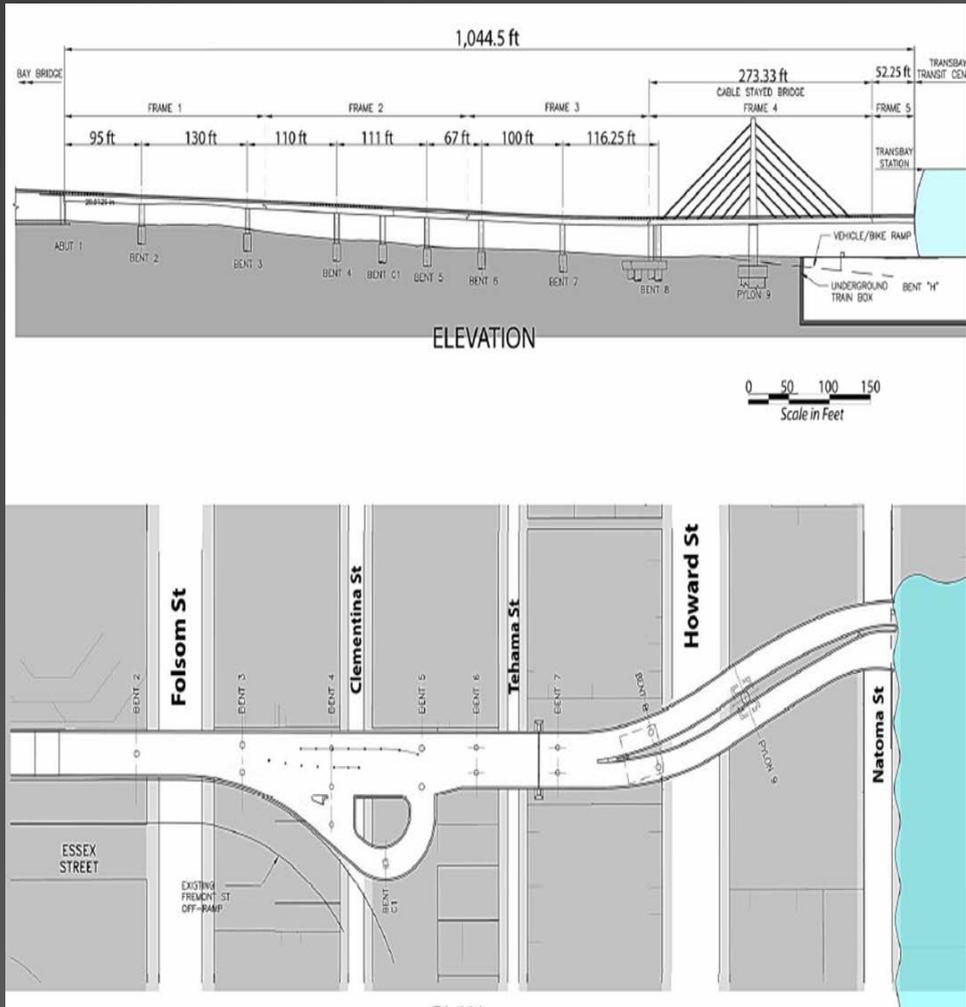


## Bus Ramp and Cable Stay Bridge





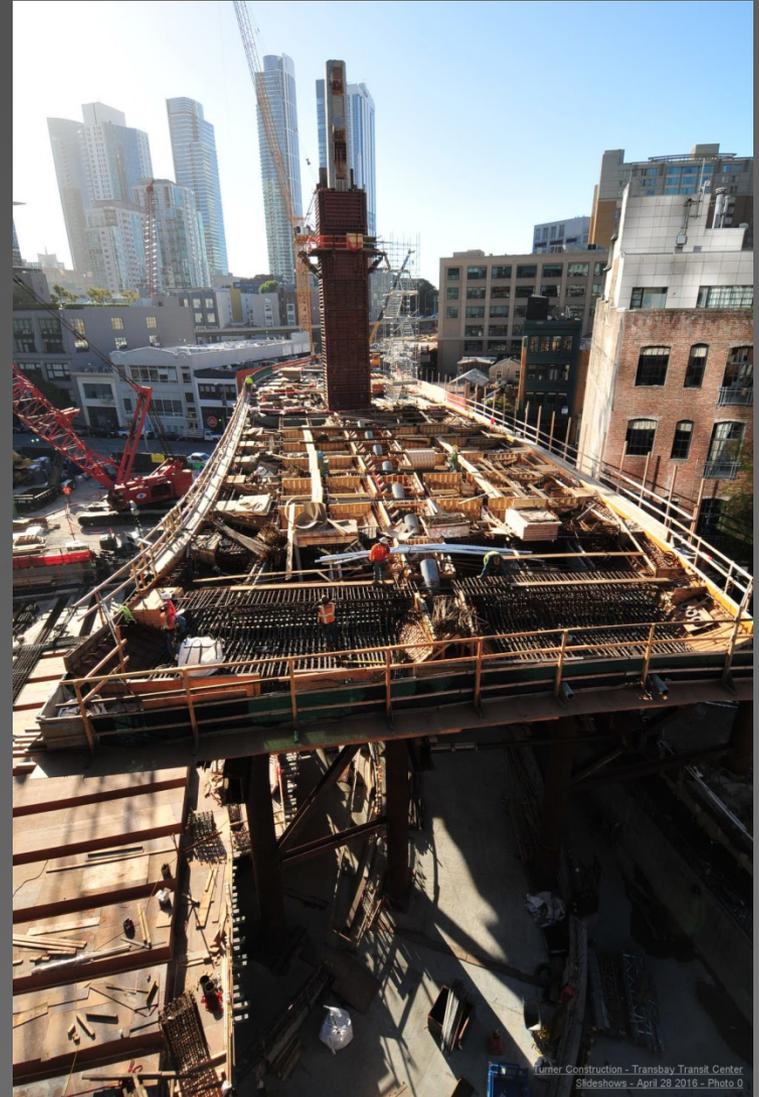
# Bus Ramp and Cable Stay Bridge





## Bus Ramp Bridge

- Harrison Street rebar and formwork continues for “Right Bridge”, concrete placement occurred May 5th.
- Underground utilities work at Caltrans substation started.
- Abutment, Mechanically Stabilized Earth (MSE) wall and retaining wall work continues.
- Final Pylon 9 concrete placement completed.
- Frame 4 Stem and Soffit concrete placement was May 5th.
- Falsework erection near Clementina St. including the bus turnaround continues.





## Central Zone

- Continue the Awning, Closure Panel and Curtain Wall installations.
- Continue with MEPF overhead.
- Continue Bus Deck level waterproofing.
- Continue Ground level waterproofing.

## Eastern Zone

- Complete the welding and bolting punchlist of all structural steel and metal decking by mid May.
- Continue rebar placement and concrete deck pours for all levels.
- Continue Bus Deck crash rail and rooftop walls.





## Western Zone

- Continue rebar MEP sleeves and concrete placement on decks.
- Continue spray-applied fireproofing.
- Continue MEPF overhead rough-in.
- Continue electric room wall rebar and concrete and waterproofing.
- Continue offsite utility vaults and ductbank.

## Bus Ramp and Bridge

- Installing Spherical Bearings in various locations.
- Pour Cable Stay Bridge deck concrete (Howard Street).
- Install falsework over Clementina and Harrison streets.
- Continue underground utilities at Caltrans substation area.



## Recordable & Lost Time Incidents:

<b>Recordable Incidents in April time period:</b>	<b>1</b>	<b>Lost Time Incidents in April time period:</b>	<b>0</b>
<b>Total Recordable Incidents in 2016:</b>	<b>4</b>	<b>Total Lost Time Incidents in 2016:</b>	<b>0</b>

<b>WOJV Average Recordable Incident Rate Through 2015</b>	<b>4.35</b>	<b>WOJV Average Lost Time Incident Rate Through 2015:</b>	<b>0.75</b>
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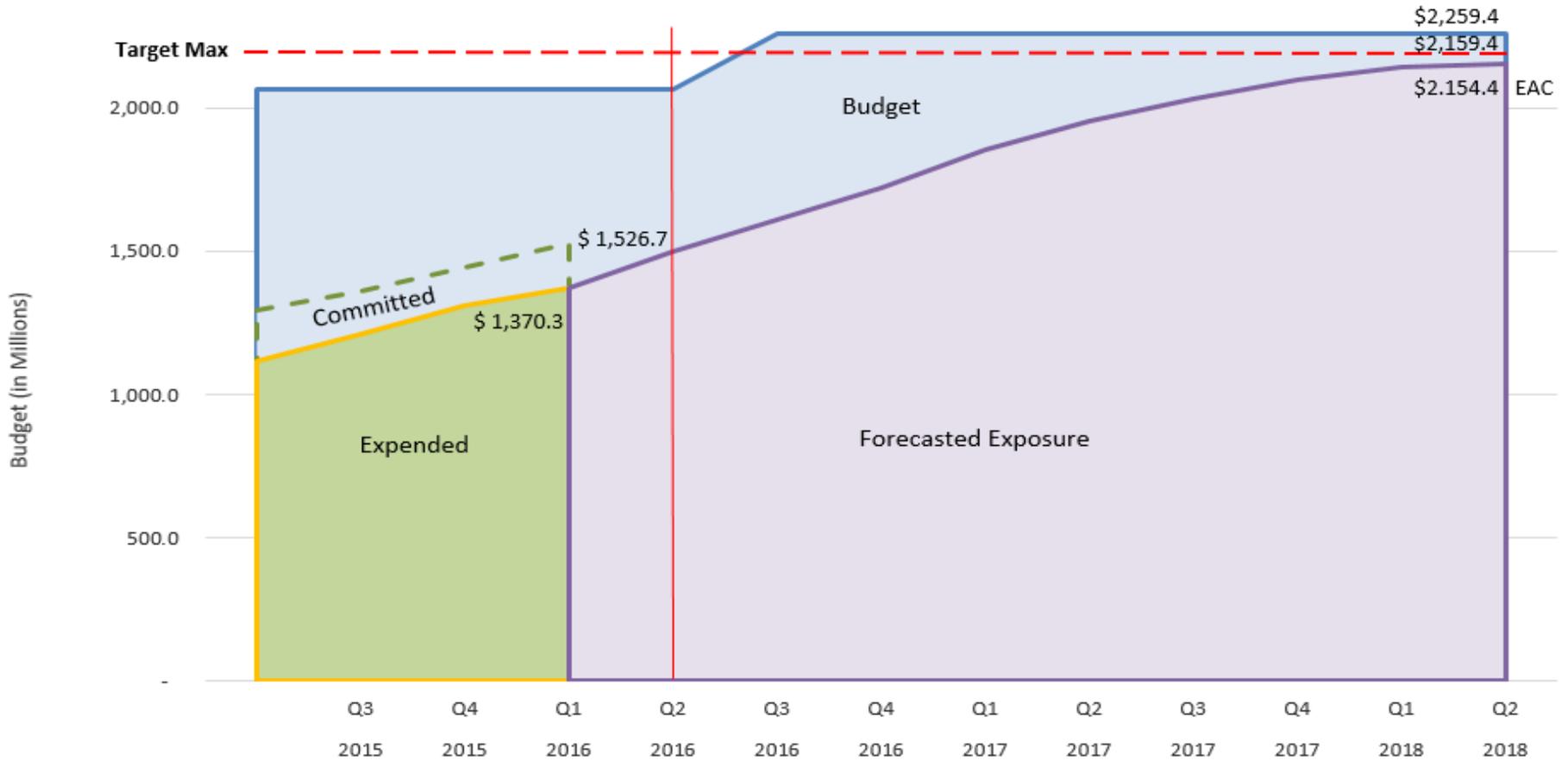
<b>Nat'l./ State Average Recordable Incident Rate Through 2015:</b>	<b>3.43</b>	<b>Nat'l./ State Average Lost Time Incident Rate Through 2015:</b>	<b>1.85</b>
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## Craft Hours:

<b>Total Transit Center Craft Hours through April 2016:</b>	<b>Increase since last update:</b>	<b>Total 2016 Craft Hours:</b>
2,239,816	103,789	313,489



## Phase 1 Transbay Transit Center Data as of March 2016



66% Program Budget  
76% Contract Time



## Contingency Tracking (\$millions)

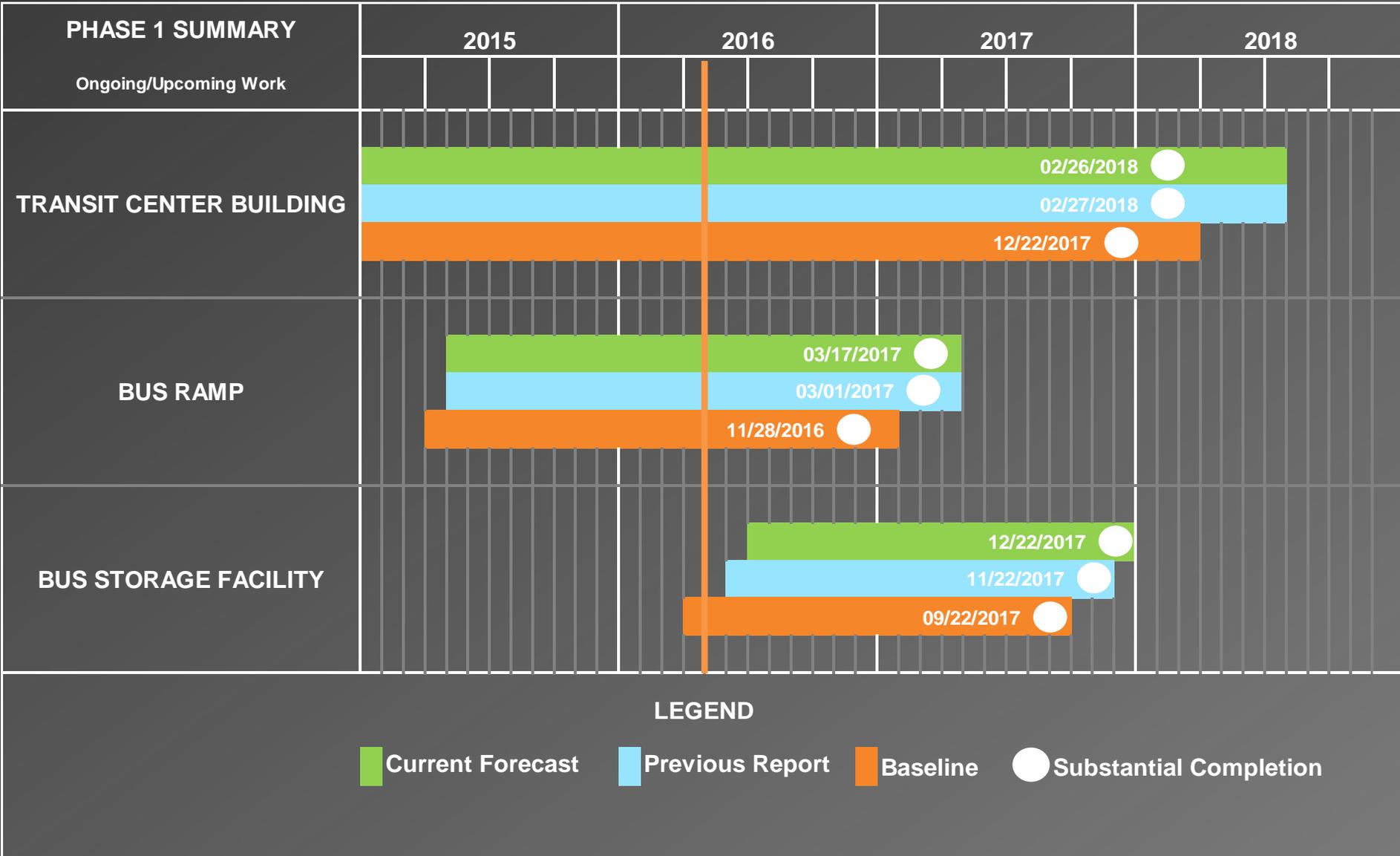
	Construction Contingency	CM/GC Contingency	Program Reserve	Total Contingency & Reserve
Baseline Budget Amounts (Nov 2015)	\$59.5	\$30.7	\$5.0	\$95.1
Contingency Usage Through Mar 2016	(\$11.9)	(\$0.2)	(\$1.1)	(\$13.2)
Remaining Baseline Budget Amounts (Mar 2016)	\$47.6	\$30.5	\$3.9	\$81.9
Total Draws/Adds Apr 2016	(\$7.1)	(\$0.0)	\$0.0	(\$7.1)
Remaining Balances	\$40.5	\$30.5	\$3.9	\$74.8

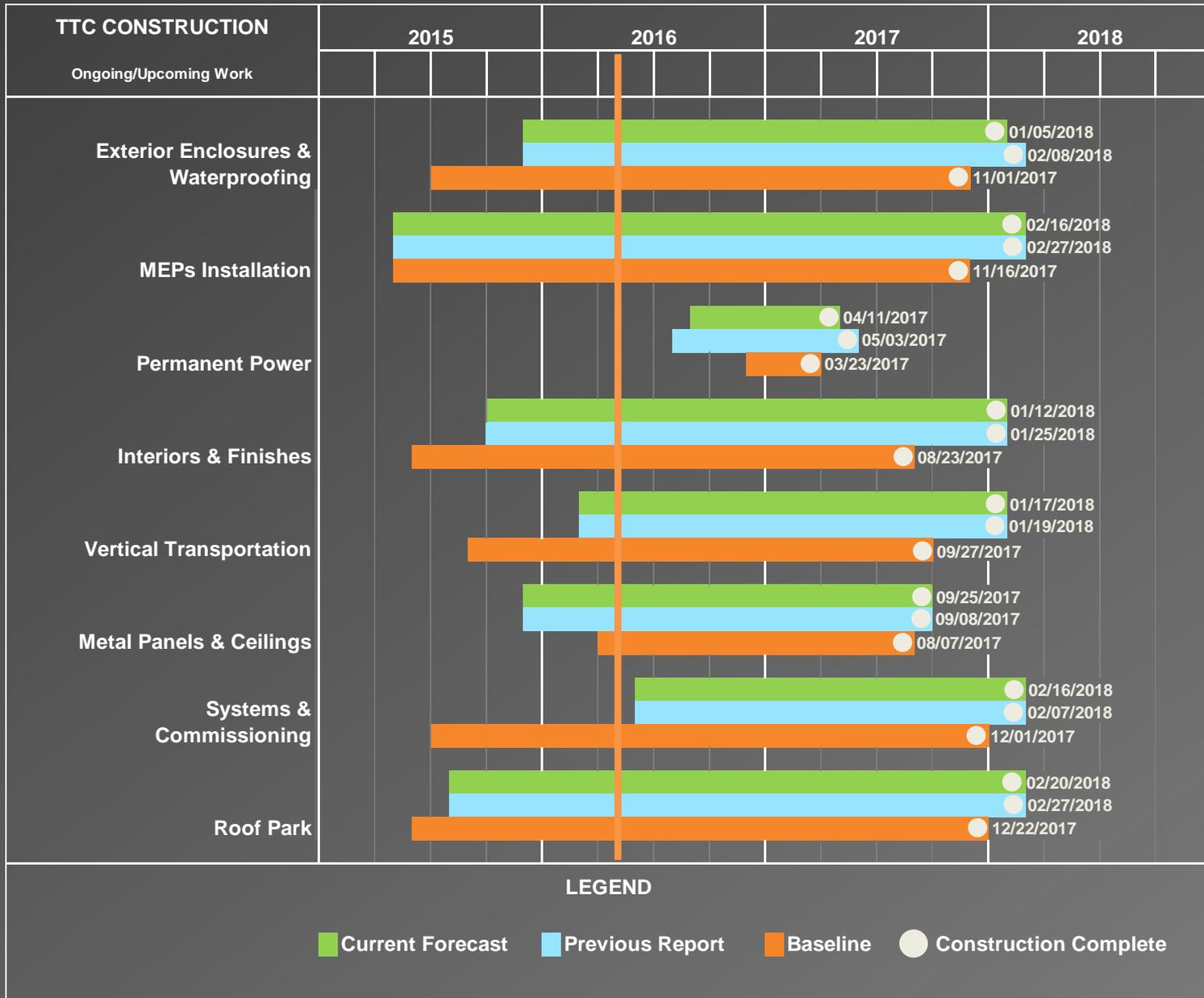
### Uses of Contingency this period

- Rooftop Park Plumbing
- Miscellaneous Superstructure, Bus Ramp, and other minor Change Orders to various Trade Packages

### Forecasted Contingency Use

- CM/GC: \$0.2
- Construction: \$1.7
- Program Reserve: \$0







## Schedule

Contractor forecast shows no overall change since last report.

### Mitigation Update

1. Strategic overtime work continues with focus on concrete and window wall systems.
2. Early focus on commissioning and close out processes currently constrain gains.
3. Improved Submittal review and approval turn around.
4. Schedule forecasting refinement between CMO & CM/GC continues with expected upcoming update.

## Buy America

Compliance efforts.

### Mitigation Update

1. Volume of Subcontractor RFI's on Buy America Compliance has diminished with Electrical having majority of issues.
2. Significant Items Remaining:
  - Building Management Control System (BMCS)
  - Fire Management System (FMS)
  - Public Address System (PA)
  - Audio Visual Systems (A/V)



## Change Management

AC Transit request for Bus Deck Reconfiguration.

### Mitigation Update

1. Developed in concert with AC Transit least impactful redesign.
2. Currently estimating proposed rework.
3. TJPA continues to encourage AC Transit operational resolution to operational challenge.
4. CM/GC continues to advance work as bought out so not to affect current work flow or schedule.
5. Estimate of Redesign / Rework trending towards \$750k.

