

# central subway

## Breakthrough at UMS

Crews have excavated to the depth of the twin subway tunnels inside the UMS station box, and begun tunnel removal there



## Progress Report

April 2017



**SFMTA**  
Municipal  
Transportation  
Agency

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**Cover photo:** As excavation has progressed at the north end of the station box, crews have opened up the twin subway tunnels to remove them in sections within the station structure. Further south inside the station box, temporary bracing is installed to prepare for this, one of the last major pushes of excavation. **More photos can be found starting on page 36.**

**Above photos:** The entrance to the southbound tunnel can be seen to the left inside the platform level of the station box, with the last section of station box invert's rebar cage coming together in the foreground. Workers have also begun assembling the invert of the headhouse, outside the access portal to the right.

See the Appendix E final page for CS websites hyperlinks and public outreach on line resources. The Project main web site is at: <http://www.centuralsubwaysf.com/>



*Material removed from the platform cavern during excavation work is sorted and piled at various locations inside the headhouse.*

## Executive Summary

Continued excavation at YBM, UMS and CTS Stations as we advance to the respective station inverts. STS continues tunnel invert drain pipe and catch basins installations in the Southbound and Northbound tunnels.

**Chinatown Station** - Headhouse excavated to 16' below Temp Level 5.0 walers and struts. Completed 80% of the excavation of the Platform Caverns (North and South) of Right Side Drift and Left Side Drift Top Headings and Temp Invert for both headings. Incidental street work (minor), ongoing monitoring and surveying. Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel. Completed 4' - wide walkway along Chinese United Methodist Church on Washington Street.

**Union Square/Market Street Station** - North Concourse: Worked on PG&E box installation, fiber optic conduits in the MRY east duck bank and repairs to the AT&T duct bank. Completed MRY terminations in maholes. Platform Station: Completed remaining Mezzanine level struts and Temp Level 2 excavation and wale and strut installation and began Temp Level 3 excavation. Ellis Annex: Continued work on PG&E electrical duct bank, water line installations, AT&T work, waterproofing, rebar, installation of base rock, perforated pipe and mud mat installation. UMS North Entrance: Continued structural steel and fan level trench excavation, both approximately 90% complete.

**Yerba Buena/Moscone Station** - Sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection. Excavation to Invert level beneath Temporary Strut Level 6 is complete within the Headhouse. Placement of mud slab, waterproofing and protective concrete within the Headhouse at Invert Level is complete. Preparation for Invert concrete placement in the Stationbox and Headhouse are in progress. Installation of metal stairs at Stair 1 and Stair 4 are in progress.

**Surface, Track and Systems**— Continued 36" sewer rehabilitation. Continued MRY ductbank installation. Continued AWSS installation. Continued pavement renovation. Continued invert slab construction. Continued track pavement and plinth construction.

**Tunnel** - Contract administrative closeout is ongoing.

Total project costs to date are \$1,058.98 million, an increase of \$13.33 million over last month. The total cost to date equals 67.10% of the total project budget of \$1.578 billion. The Master Project Schedule forecasts a Revenue Service Date of December 2019.

The Stations Contractors' Safety Reports shows that one recordable accident took place this month. The rates of work site accident incidents by the man hours worked, continue to be below industry standards - see tables on page 34.

# Key Milestones

## Beginning construction of the YBM headhouse invert

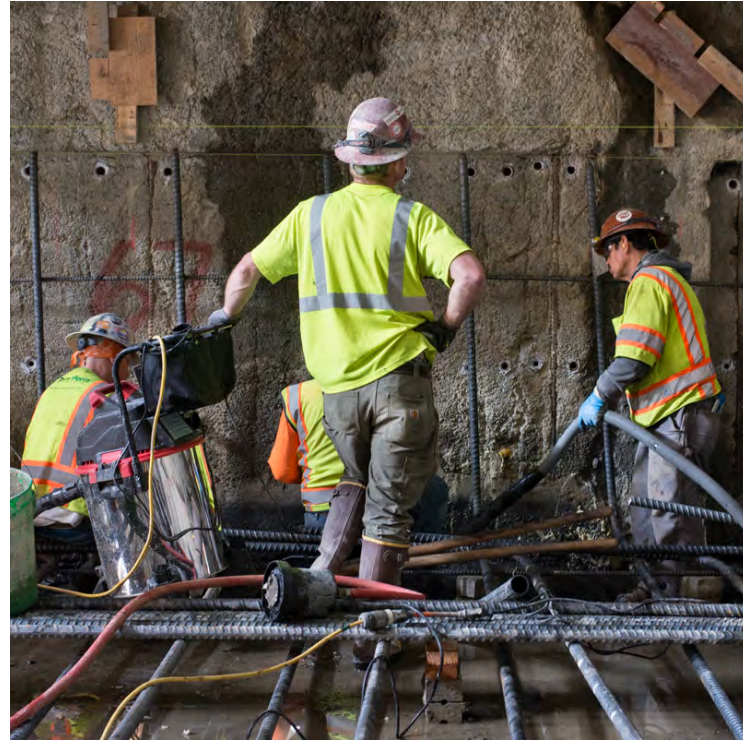


**1** Trenches for grounding wires are dug and grounding wire installed

MILESTONE	DATE EXPECTED
<b>General</b>	
Revenue Service	December 2019
<b>Contract 1300 Stations, Surface, Track, Systems</b>	
Notice to Proceed (NTP 1)	June 17, 2013 (A)
Notice to Proceed (NTP 2)	January 12, 2014 (A)
Substantial Completion	February 10, 2018



**2** Site-leveling rat slab and waterproofing are installed



**3** Workers begin assembly of the invert slab rebar cage

# Costs and Schedule

## Costs (See Appendix A for Details)

The Current Cost Estimate (CCE) for the Central Subway Project is **\$1.578 billion** in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion.

Total net incurred costs for the project are \$1,058.98 million, a \$13.33 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,021.84 million) plus the utilities joint trench Form B Reimbursement payment (\$11.20 million), invoices currently being processed (\$22.83 million) and estimates of outstanding pay requests (\$3.14 million). This incurred amount equals 67.10% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,329.79 million. This represents 84% of the total project budget.

## Earned Value Analysis

In April 2017 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA April Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

### Preliminary April Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,370,178,677
Earned Value:	\$1,039,972,892
Actual Cost:	\$1,058,979,469
Schedule Performance Index (SPI):	0.76
Cost Performance Index (CPI):	0.98
Percent Complete:	65.8%

## Schedule Highlights

The Master Project Schedule (MPS) below includes progress through April 2017. The April 2017 Schedule Update submittal from Contract 1300 Contractor was not submitted due previous update corrections that needed to be completed before TPC provide the April update. The Contract 1300 schedule represented in this report is based on the SFMTA April 2017 Schedule Update.

The MPS shows a forecast Revenue Service Date of December 2019.

The controlling critical (longest) path of the MPS runs through CTS Excavation succeeded by STS Startup & Testing, Commissioning and Pre-Revenue Activities to the Baseline Finish and Revenue Service Date. See Appendix B – Longest Path. The latest schedule shows the longest path running through the Chinatown Station (CTS). Contractor is required to implement a Recovery Schedule to put the Project back on schedule.

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. Excavation and Support of the Top Right Heading & Bench was completed with lower than expected levels of production and the contractor is now working on Excavation and Support Top Right and Left Step 3 Invert of the South Platform Cavern. Despite expected ground conditions as described in the GBR, TPC's mining productivity has not been as planned. TPC has continued the mitigation effort to institute two-twelve hours shifts or six days per week, in an effort to recover some lost time. Contract 1300 Schedule shows 26 days of delay in April with a new forecasted Revenue Service Date of 10 December 2019.

Contract 1300 Contractor submitted twenty-nine (29) Schedule Updates from December 2014 to April 2017. SFMTA rejected sixteen (16) Schedule Updates from December 2015 to April 2016 and June 2016 to April 2017. SFMTA approved as noted the September 2015, October 2015, November 2015 and May 2016 Schedule Updates. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

### **Contract 1300 - WP1253 UMS / WP1254R CTS / WP1255 YBM / WP1256 STS:**

The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program schedule. The preliminary SFMTA Contract 1300 April 2017 schedule is used within the April Report. The SFMTA Contract 1300 April 2017 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. The SFMTA will continue to use the SFMTA Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.



The final concrete pour has been completed at the tunnel portal, just north of Bryant on 4th.



## Schedule Highlights - Continued

### **Work Package P-1254R (CTS) has performed the following work this month:**

- Headhouse—excavated to 16' below Temp Level 5.0 walers and struts
- Completed 80% of the excavation of the Platform Caverns (North and South) of Right and Left Side Drifts Top Headings and Inverts
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel – ongoing testing and inspection
- Completed 4' – wide walkway along Chinese United Methodist Church on Washington Street

### **Work Package P-1253 (UMS) has performed the following work this month:**

- North Concourse: Worked on PG&E #7 box installation on Geary in front of the Union Square Garage. Worked on fiber optic conduits in the MRY east duct bank and repairs to the AT&T duct bank on Stockton Street. Completed MRY terminations in manholes 602, 900A, 601A, and 601. Performed work on high pressure hydrant riser
- Platform Station: Completed remaining Mezzanine Level struts and Temp Level 2 excavation and wale and strut installation. Continued Platform Strut Level excavation and wale and strut installation, and began Temp Level 3 excavation, including breakout of Northbound and Southbound tunnel precast concrete segments
- Access Shaft: Installed mud mat invert and waterproofing in the access shaft
- Ellis Annex: Performed grading, installation of base rock, installation of perforated pipe, and mud mat installation at the east Ellis invert, electrical room, and sump pit. Installed waterproofing and epoxy dowels, rebar and piping in the east Ellis invert. Worked on PG&E electrical duct bank, water line installations, and AT&T
- UMS North Entrance: Continued structural steel and fan level trench excavation, both approx. 90% complete. Commenced rough in of building MEP

### **Work Package P-1255 (YBM) has performed the following work this month:**

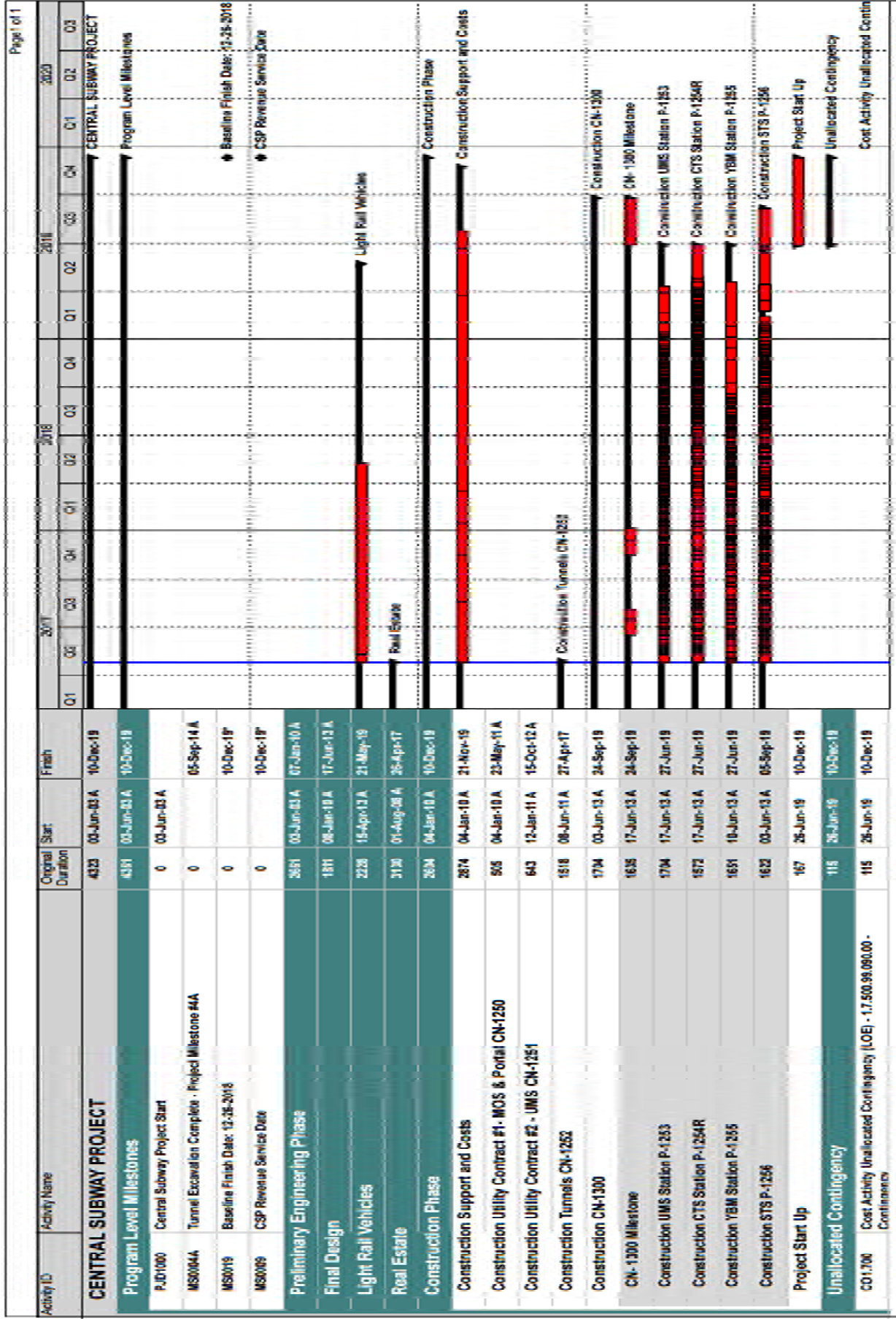
- Sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is complete within the Headhouse
- Placement of mud slab, waterproofing, and protective concrete within the Headhouse at Invert Level is complete
- Placement of concrete in Invert Level sections 1, 2, 3, 4, and 6 of 6 is completed in the Station Box
- Preparation for Invert concrete placement 5 of 6 in Station Box is in progress
- Preparation for Invert concrete placement 7, 8, and 9 in Headhouse is in progress
- Preparation for concrete placement within Elevator #3 pit is in progress
- Installation of metal stairs at Stair 1 and Stair 4 is in progress

## Schedule Highlights - Continued

### **Work Package P-1256 (STS) has performed the following work this month:**

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh
- Completed AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued water line installation at 4<sup>th</sup>/Townsend
- Continued invert slab construction at tunnel portal
- Continued track installation at tunnel portal
- Continued track pavement and plinth construction at tunnel portal
- Started track plinth construction and track installation inside tunnels

# Master Project Schedule





*Sections of rebar collected in the Chinatown Station headhouse are cut away from demolished pieces of tunnel ring segments removed during excavation of the side drift inverts.*

## Contracts & Construction

### Construction Contracts In Progress

#### **Contract 1300: Combined Work Packages 1253, 1254, 1255, 1256**

- Contractor: Tutor - Perini Corporation
- Amount: \$846.76 million
- Contract Status: 55.67% complete construction

### Contracts Completed

[See Appendix D](#)

#### **Contract 1250: Moscone Station and Portal Utilities Relocation**

#### **Contract 1251: Union Square/Market Street Station Utility Relocation**

**Contract 1277: Pagoda Theater Site Demolition** (Funded separately from the CS Project budget)

#### **Contract 1252: Central Subway Tunneling**

**Contract SBE Participation** (Updated Quarterly) [See Appendix E](#)

# Stations, Surface, Track and Systems

Contract 1300 Contractor: Tutor-Perini Corporation

## Description of Work

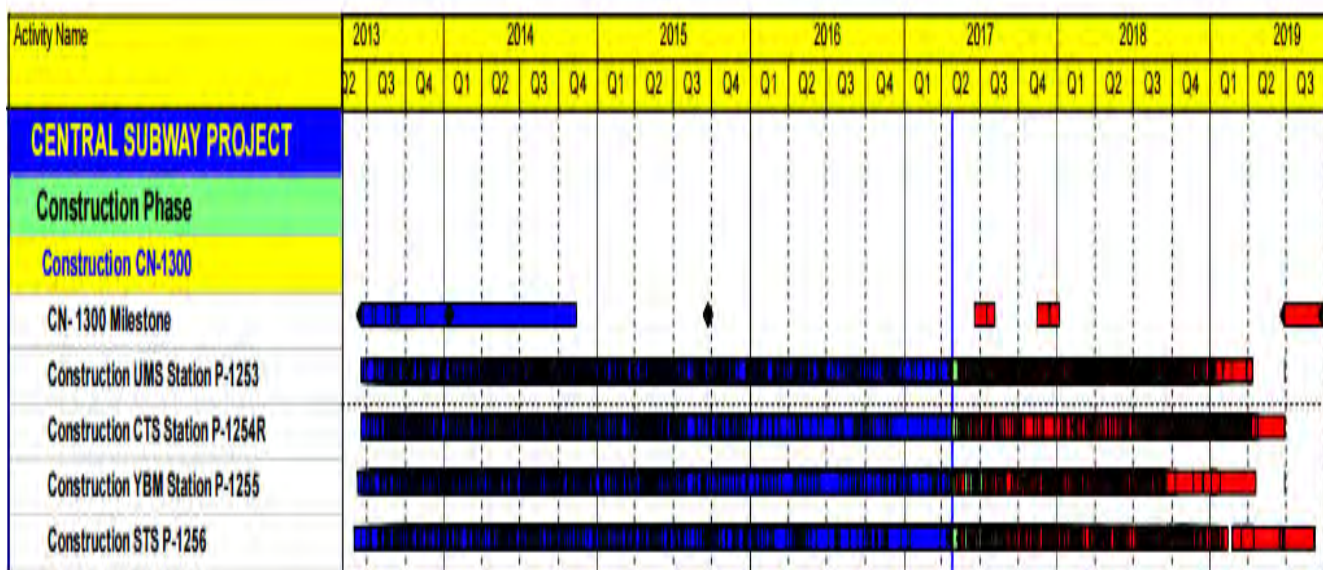
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

Work includes station finishes, AC and DC substations, elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, Cutter Soil Mixing, secant pile bottom up and Sequential Excavation Method construction, settlement monitoring, building protection, connecting to and modifying the BART Powell Street Station, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$839,676,400
Modifications to Date:	\$7,085,814
Current Contract Value :	\$846,762,214

Budget/Expenditures▲	
Current Budget	\$879,676,400
Other Project Offset Credits	\$3,123,097
Expenditures to Date	\$481,911,233

## 1300 Summary Schedule



# Chinatown Station

## Contract 1300 - Work Package 1254R



### Current Work Status

- Headhouse—excavated to 16' below Temp Level 5.0 walers and struts
- Completed 80% of the excavation of the Platform Caverns (North and South) of Right and Left Side Drifts Top Headings and Inverts
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel – ongoing testing and inspection
- Completed 4' – wide walkway along Chinese United Methodist Church on Washington Street

### Work Expected Next Month

- Platform Caverns (North and South) – complete with Left and Right Side Drift inverts
- Platform Cavern South – begin Center Drift Top Heading, Bench and Invert

### Description of Work

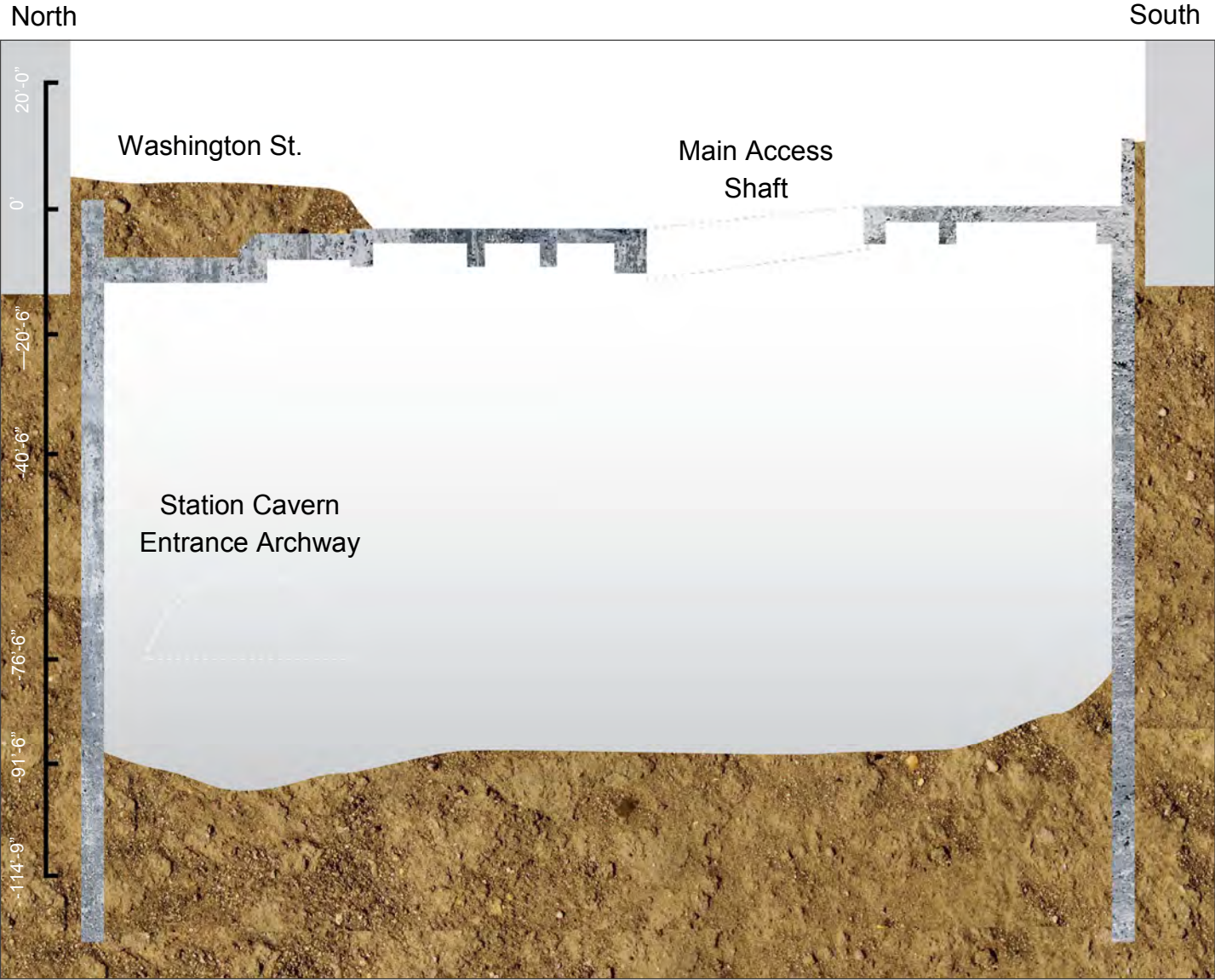
This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.



### Three Month Look Ahead

- Head house: Provide logistic support area for tunnel excavation
- North and South Platform Cavern excavation will be ongoing

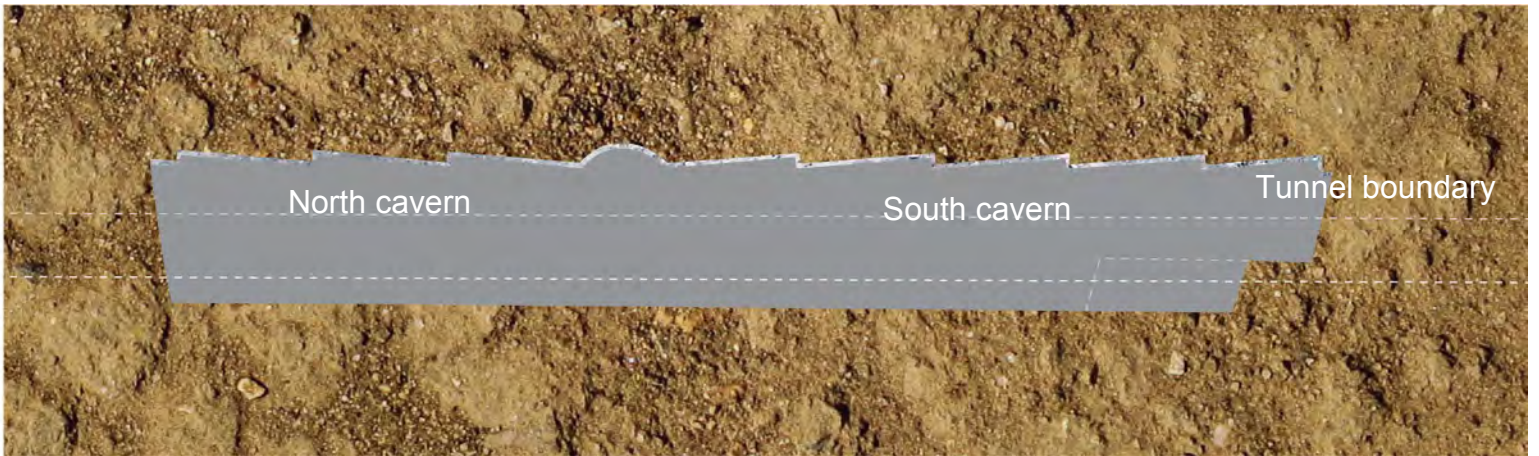
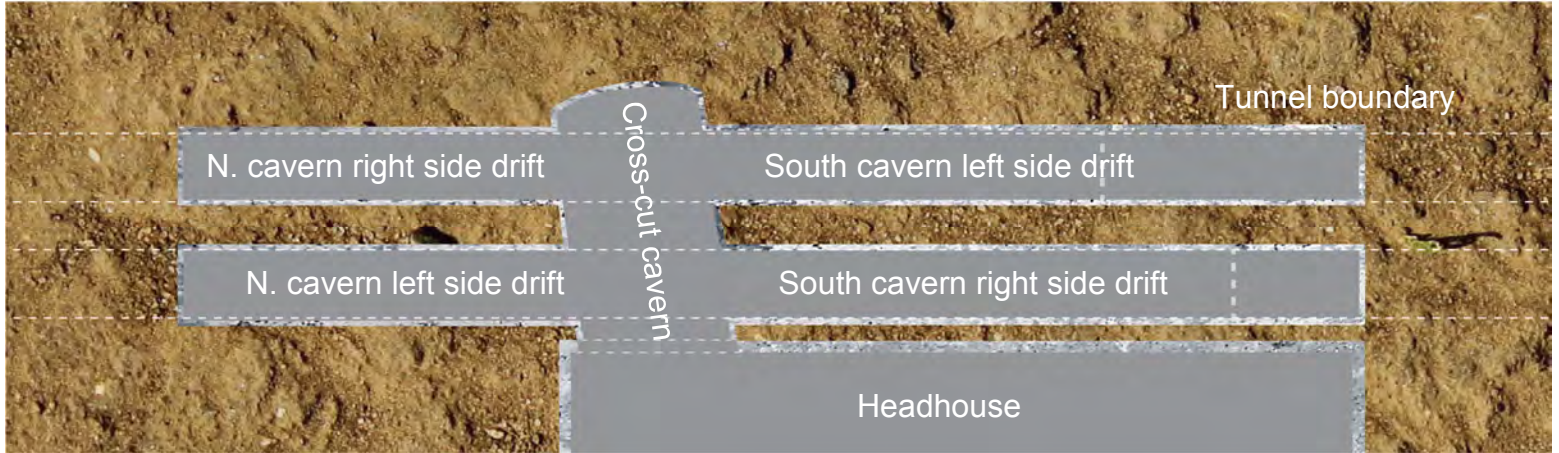
### Station Excavation and Construction Progress Section



### Station Cavern Excavation Progress Plan and Section

North

South



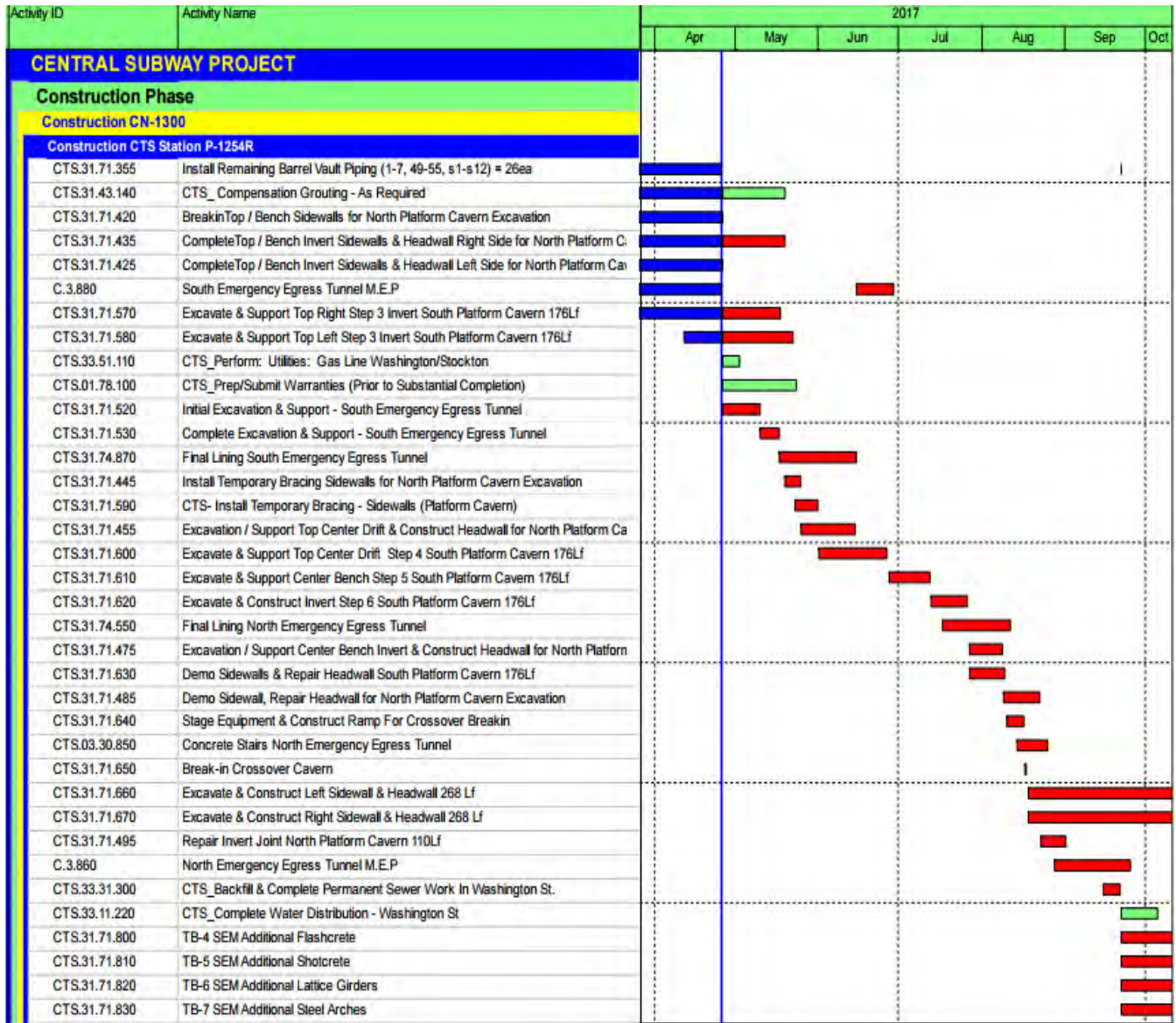


# Chinatown Station Construction Status - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$247,567,810
Modifications to Date:	\$2,964,460
Current Contract Value:	\$250,532,270

Budget/Expenditures ▲	
Current Budget	\$257,567,810
Other Project Offset Credits	\$75,000
Expenditures to Date	\$133,795,362

## CTS Three Month Schedule



# Union Square/Market Street Station

Contract 1300 Work Package 1253

## Description of Work

This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

## Current Status This Month

- North Concourse: Worked on PG&E #7 box installation on Geary in front of the Union Square Garage. Worked on fiber optic conduits in the MRY east duct bank and repairs to the AT&T duct bank on Stockton Street. Completed MRY terminations in manholes 602, 900A, 601A, and 601. Performed work on high pressure hydrant riser
- Platform Station: Completed remaining Mezzanine Level struts and Temp Level 2 excavation and wale and strut installation. Continued Platform Strut Level excavation and wale and strut installation, and began Temp Level 3 excavation
- Access Shaft: Installed mud mat invert and waterproofing
- Ellis Annex: Performed grading, installation of base rock, installation of perforated pipe, and mud mat installation at the east Ellis invert, electrical room, and sump pit. Installed waterproofing and epoxy dowels, rebar and piping in the east Ellis invert. Worked on PG&E electrical duct bank, water line installations, and AT&T
- UMS North Entrance: Continued structural steel and fan level trench excavation, both approx. 90% complete. Commenced rough in of building MEP

## Work Expected Next Month

- Intermittent nighttime closures and lane closures expected for utility and streetwork
- North Concourse: Continue to install utilities. Excavation and structural steel deliveries. Installation of soil nail walls continues



- Platform Station: Continue to excavate and install structural & temporary steel support system
- Ellis Annex: Complete utility installations, backfilling and restoration of Ellis Street and utility installation. Begin permanent roadway restoration
- UMS North Entrance – Complete fan level trench support of excavation

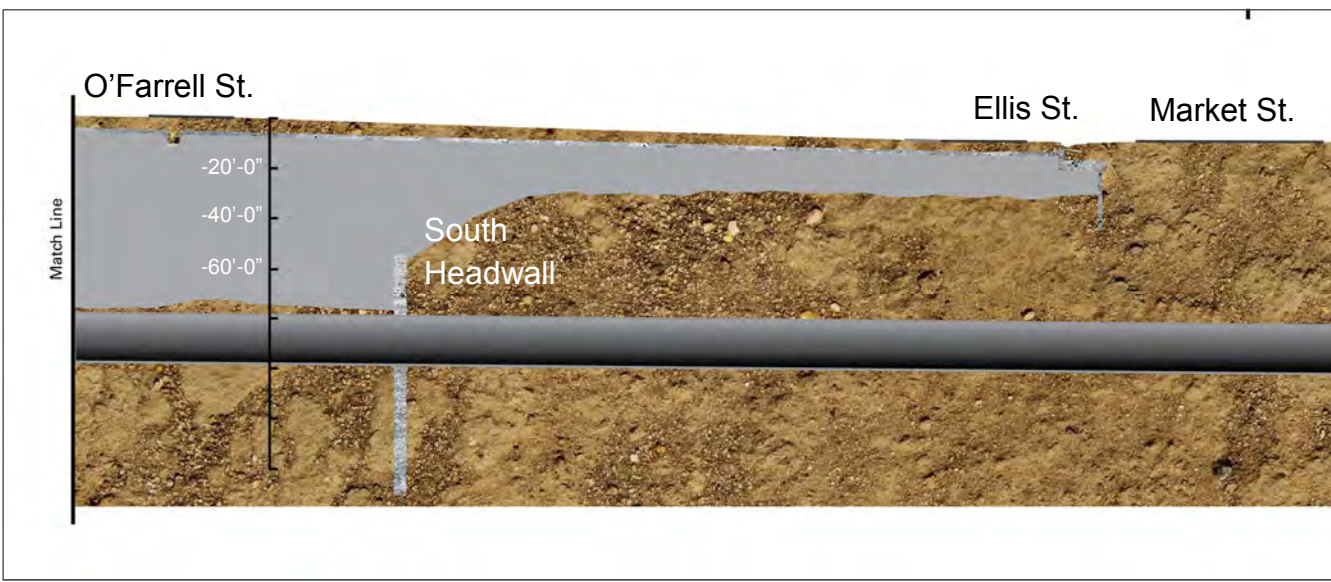
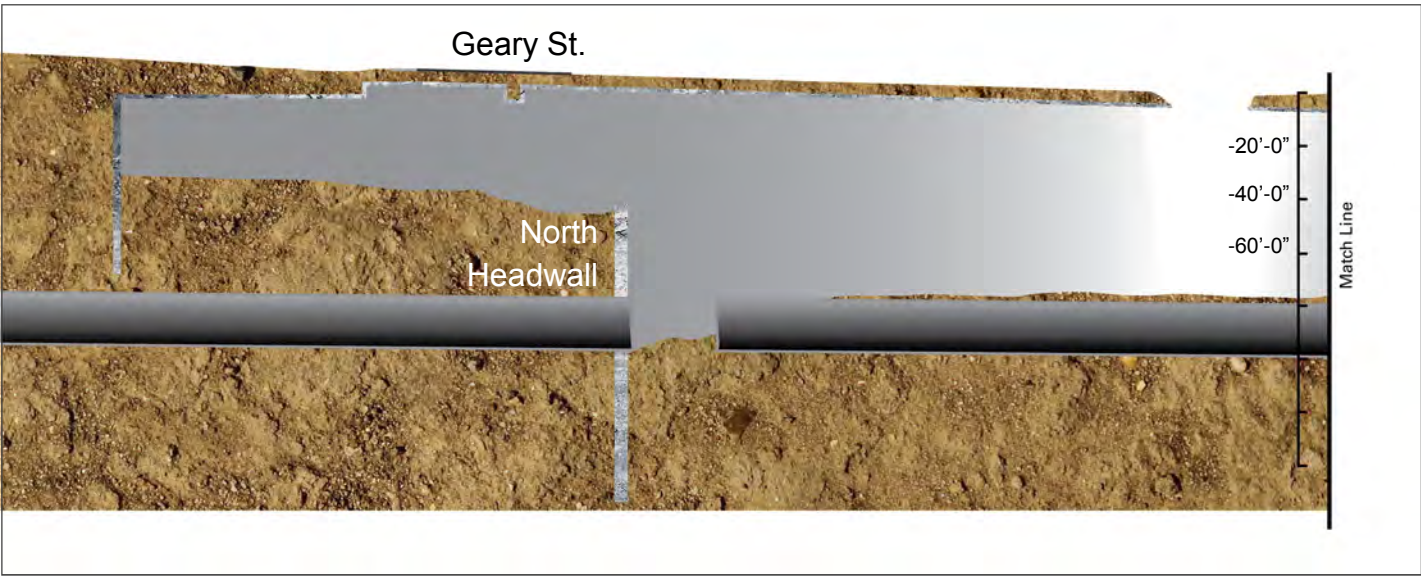
## Three Month Look Ahead

- Platform Station: Complete station excavation and begin mud slab and concrete invert installation
- North Concourse: Complete excavation and begin mud slab and concrete invert installation
- Access Shaft: Continue reinforced concrete installation
- Ellis Annex: Complete permanent roadway restoration
- Union Square Garage – Complete testing and commissioning of new fire and life safety devices within garage and open new ramp for public use

### Station Excavation and Construction Progress Section

North

South



# Union Square Market Street Station Construction - Continued

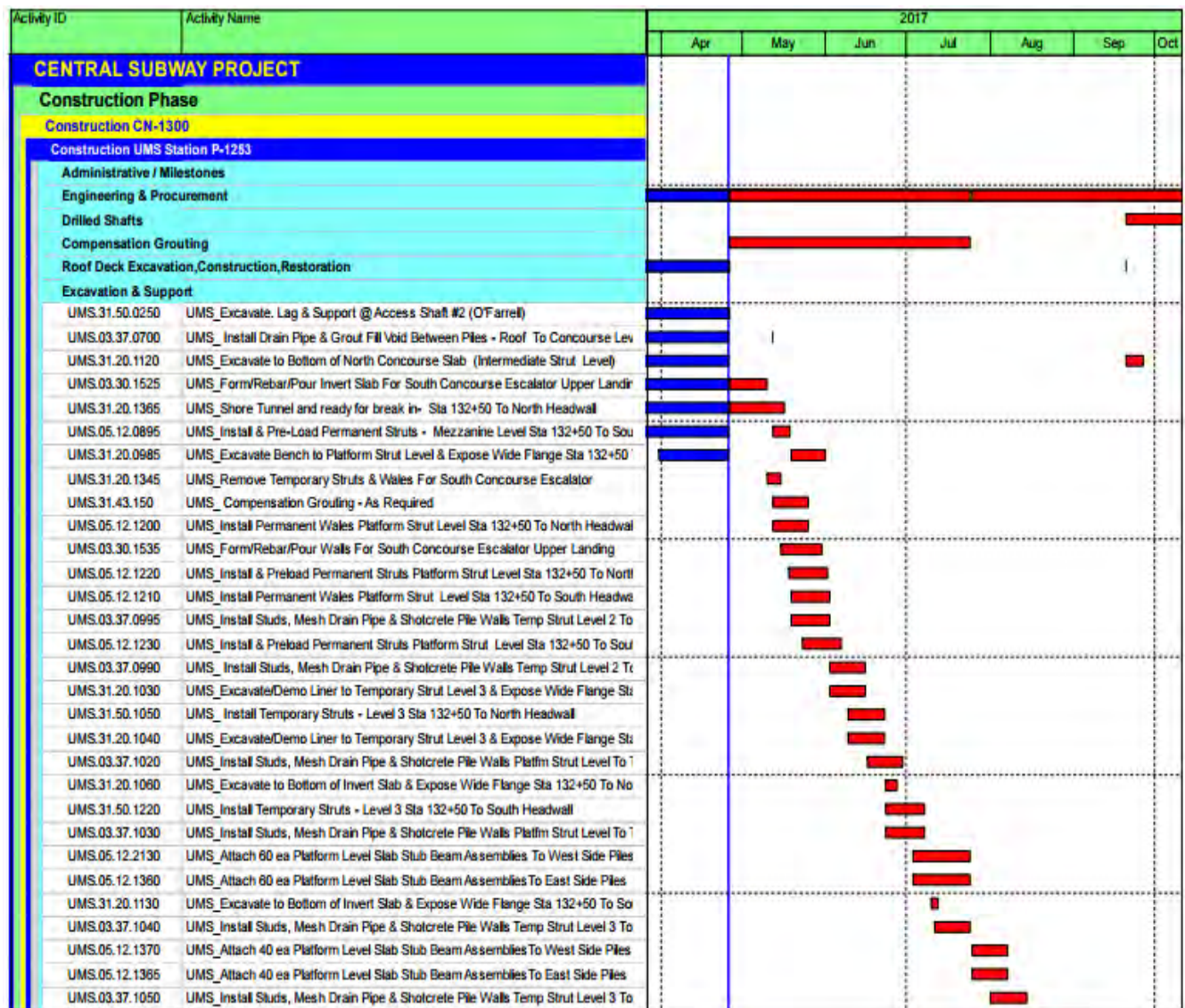
## Contract Details

Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$294,030,590
Modifications to Date:	\$2,188,335
Current Contract Value:	\$296,218,925

## Budget/Expenditures ▲

Current Budget	\$314,030,590
Expenditures to Date	\$192,276,863

## UMS Three Month Schedule



# Yerba Buena/Moscone Station

## Contract 1300 - Work Package 1255



## Description of Work

This Work Package is to construct one subway station. Includes station finishes, AC and DC Traction Power substations elevators, escalators, lighting, emergency ventilation fans, HVAC fire alarm/ suppression/ protection, slurry wall top-down construction, settlement monitoring, building protection, PA, CCTV, signage, installation of fare collection equipment and station start-up and commissioning.

## Current Status

- Sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is complete within the Headhouse
- Placement of mud slab, waterproofing, and protective concrete within the Headhouse at Invert Level is complete
- Placement of concrete in Invert Level sections 1, 2, 3, 4, and 6 of 6 is completed in the Station Box
- Preparation for Invert concrete placement 5 of 6 in Station Box is in progress
- Preparation for Invert concrete placement 7, 8, and 9 in Headhouse is in progress
- Preparation for concrete placement within Elevator #3 pit is in progress
- Installation of metal stairs at Stair 1 and Stair 4 is in progress

## Work Expected Next Month

- Complete sidewalk restoration on west side of 4<sup>th</sup> Street south of Howard Street intersection

- Continue interior finishes on Mezzanine & Concourse Levels
- Begin placement of Invert Level concrete slab sections within Headhouse
- Complete construction of Elevator #3 pit in headhouse
- Continue shoring for installation of Stair 4 hatchway on adjacent to Folsom Street at south end of Headhouse
- Begin potholing for 36" force main sewer installation within intersection of 4<sup>th</sup> at Howard

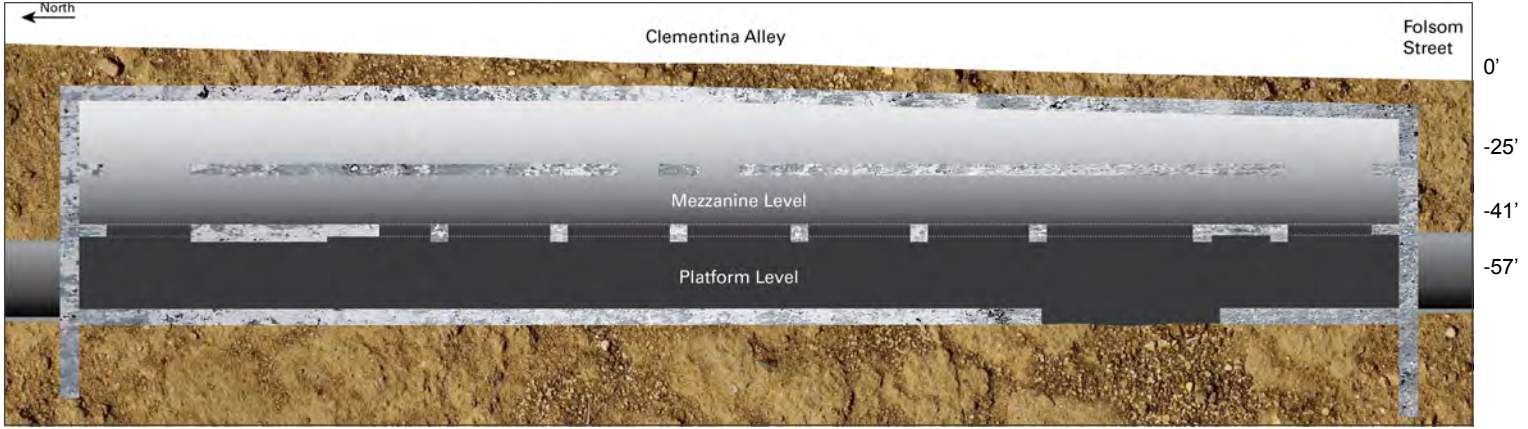
## Three Month Look Ahead

- Complete Invert slab within Station and Headhouse
- Prepare to construct Concourse and Mezzanine slabs from bottom up within Headhouse
- Continue interior finishes on Mezzanine & Concourse Levels within Station Box
- Continue placement of stairs within Station and Headhouse
- Begin installation of station power electrical vaults on Folsom Street
- Switch traffic handling and resume installation of 36" force main sewer within 4<sup>th</sup> Street and Howard Street intersection

### Station Excavation and Construction Progress Section

North

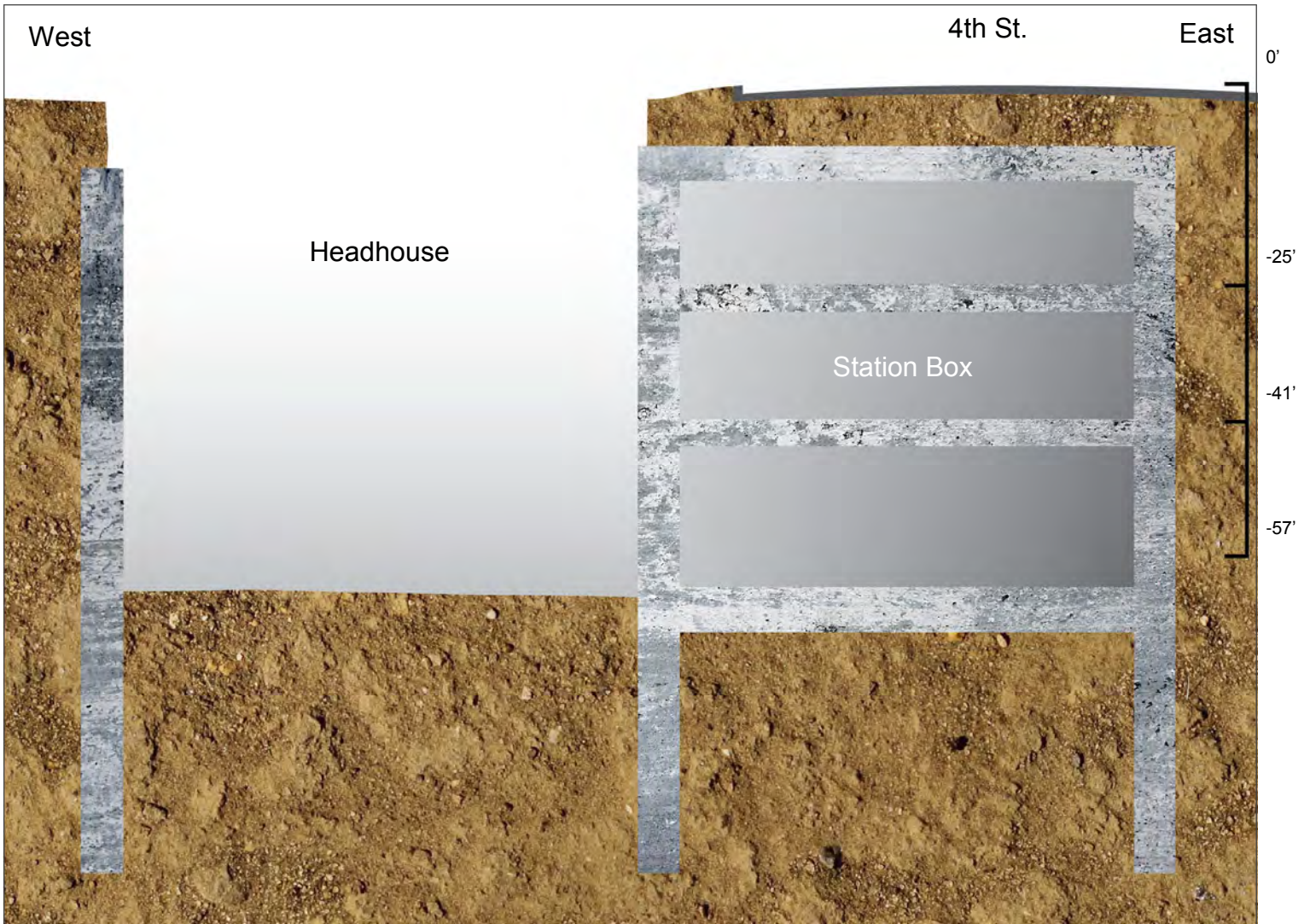
South



West

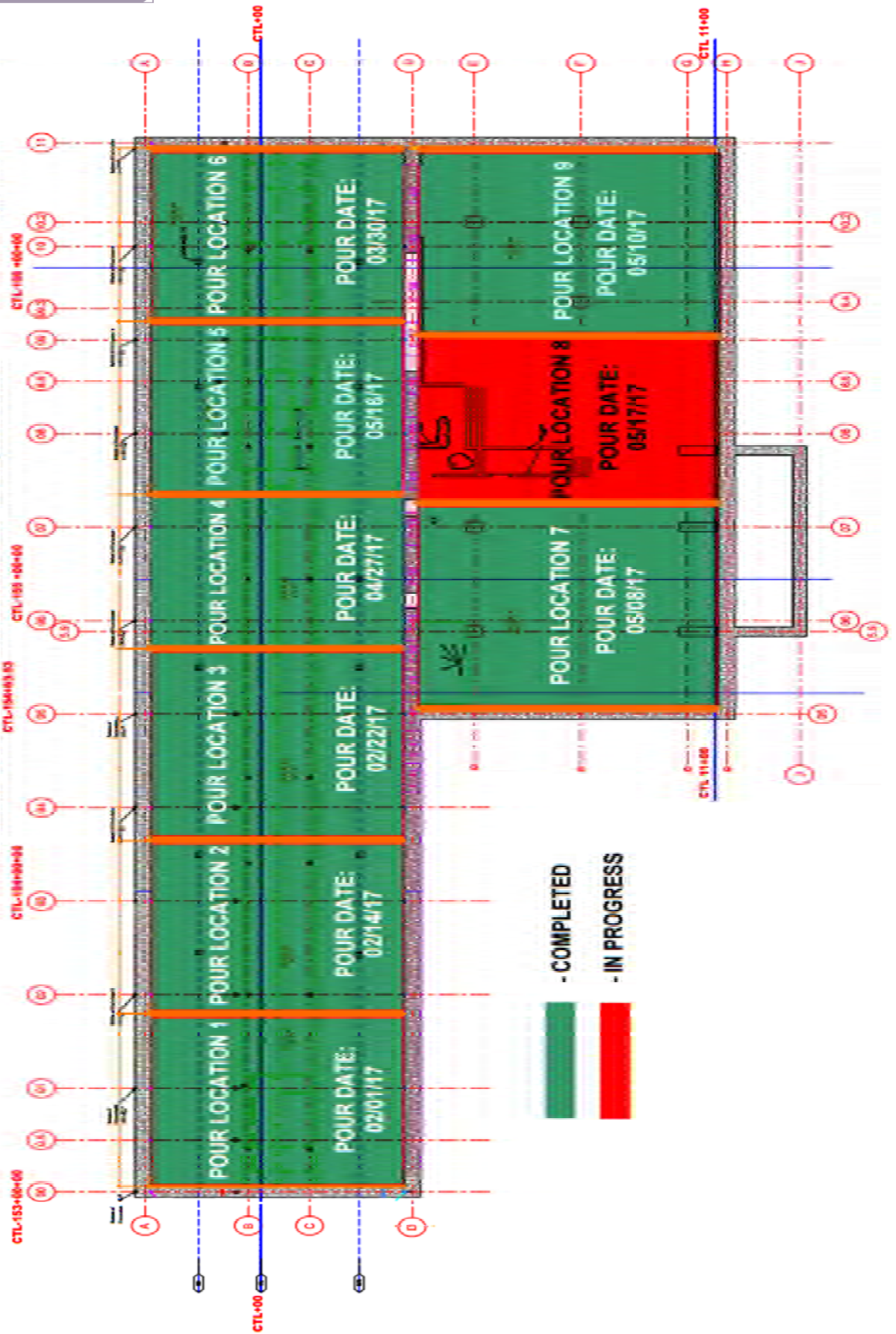
4th St.

East



# YBM Invert Level Pour Sequence

Updated On: 05/17/2017

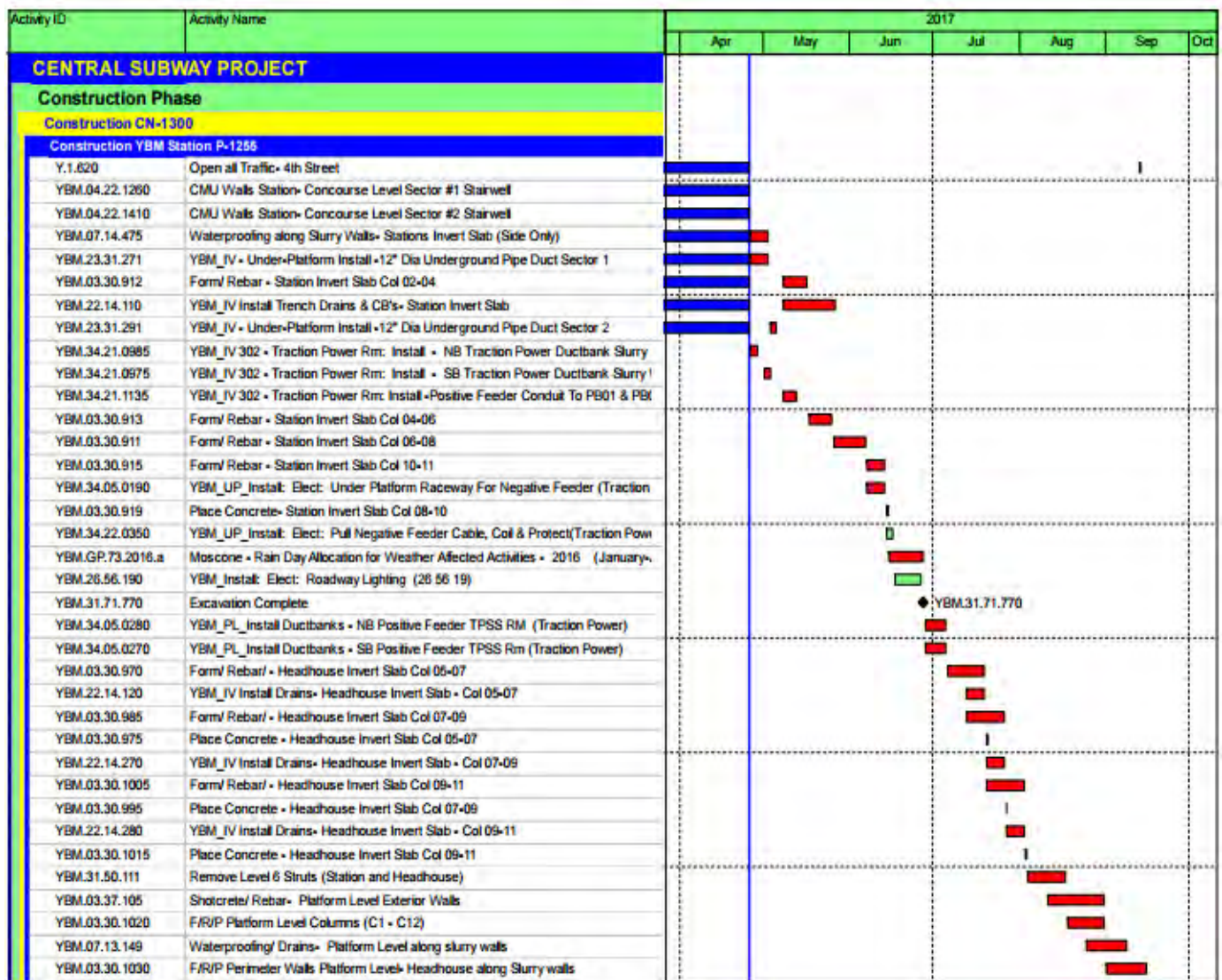


# Yerba Buena Moscone Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$158,089,000
Modifications to Date:	\$57,052
Current Contract Value:	\$158,146,052

Budget/Expenditures ▲	
Current Budget	\$163,089,000
Other Project Offset Credits	\$415,331
Expenditures to Date	\$100,412,838

## YBM Three Month Schedule





# Systems, Trackwork, & Surface Station

## Contract 1300 - Work Package 1256

### Description of Work

This Work Package is to construct one Surface Station. Includes light rail track and systems, track invert, track safety walkways; light rail track and systems constructed on the 2,000 foot surface for the alignment from the tunnel portal, south to the tie-in to the existing Muni T-Line at Fourth and King Streets; and the surface Fourth and Brannan Street (FBS) Station.

### Current Status

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh
- Completed AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued water line installation at 4<sup>th</sup>/Townsend
- Continued invert slab construction at tunnel portal
- Continued track installation at tunnel portal
- Continued track pavement and plinth construction at tunnel portal
- Started track plinth construction and track installation inside tunnels

### Work Expected Next Month

- Continued 48" sewer installation
- Continued 36" sewer installation
- Continued MRY ductbank installation
- Continued AWSS installation
- Continued water line installation
- Continued pavement renovation
- Continued plinth construction and track installation inside tunnels



### Three Month Look Ahead

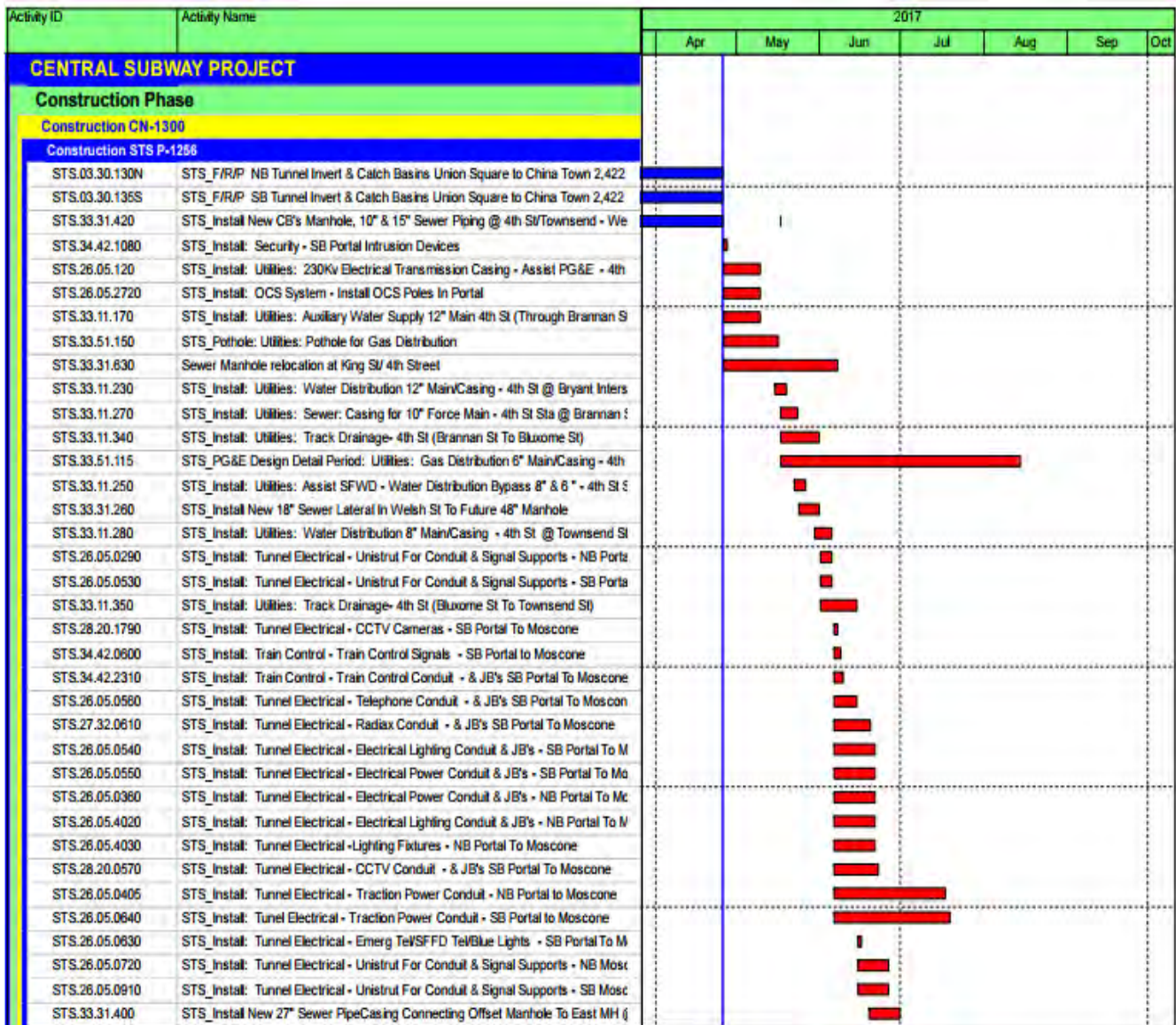
- Continued waterline installation
- Continued AWSS installation
- Continued MRY ductbank installation
- Continued 36" sewer force main installation
- Continued 48" sewer force main installation
- Continued OCS pole installation
- Continued permanent pavement renovation
- Continued track installation
- Continued plinth construction and track installation inside tunnels

# Systems, Trackwork, & Surface Station Construction - Continued

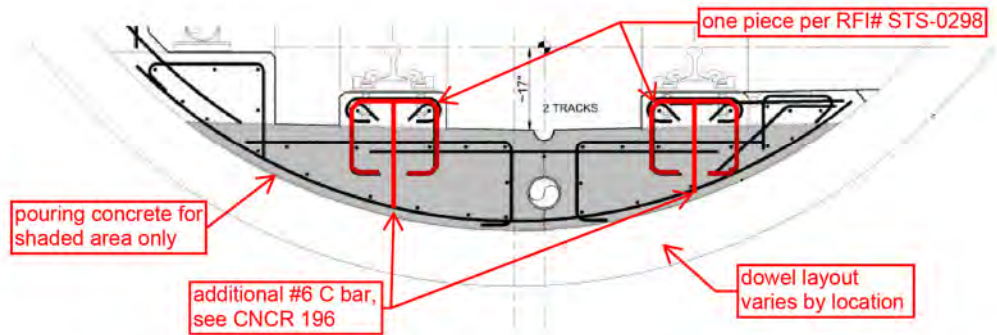
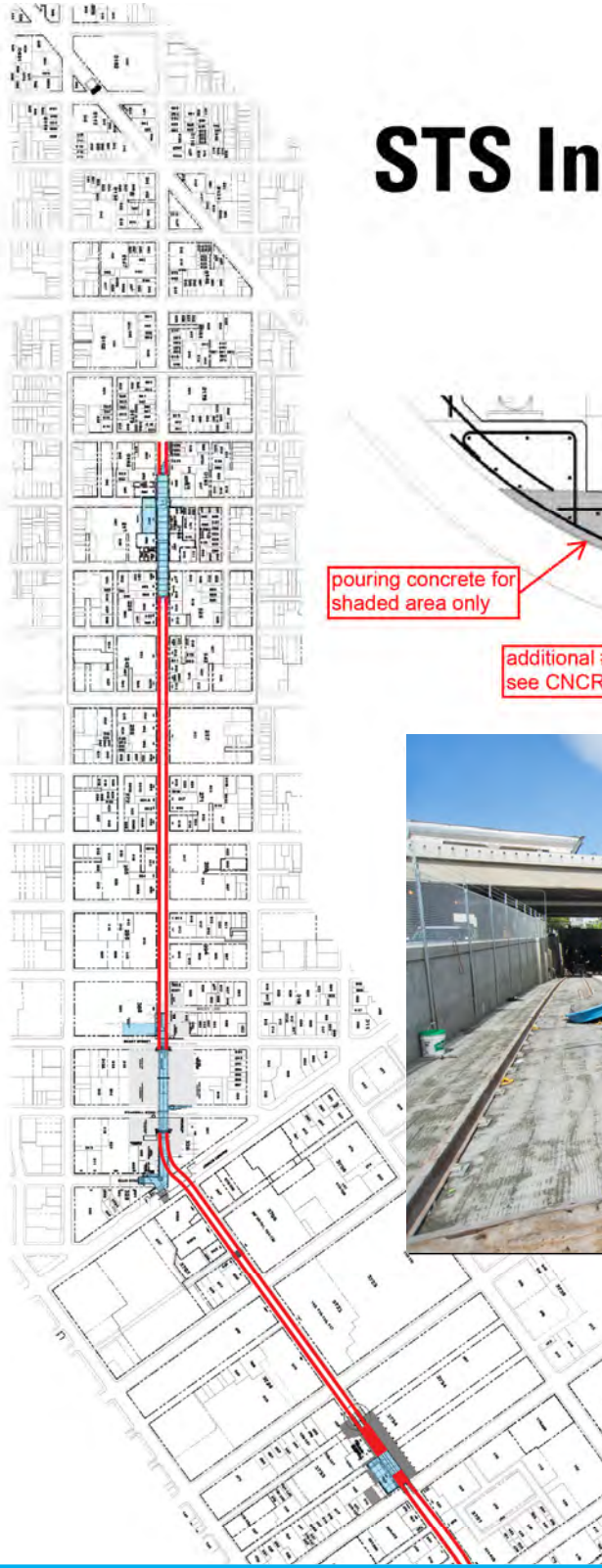
Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	February 10, 2018
Contract Award Value:	\$139,989,000
Modifications to Date:	\$1,875,966
Current Contract Value:	\$141,864,966

Budget/Expenditures	
Current Budget	\$144,989,000
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$52,378,073

## Systems, Track and Surface Station Three Month Schedule



# STS Invert Slab Progress



Total length for both tunnels is approx. 10,240 feet.  
Measured progress is combined for both tunnels.  
**Red—86% complete; 8,840 feet**  
**Blue—14% to be completed; 1,400 feet**

# Program Components

## Community Outreach

### Outreach public information, events and presentations for April 2017 include:

- The quarterly construction update video was released on April 27
- Continued noise mitigation meetings with Tutor Perini and community stakeholders
- Ongoing outreach to merchants and residents
- Conducted meetings and face-to-face visits with various merchant stakeholders along the alignment
- Preparation and dissemination of construction notices
- Produced quarterly construction update video and other multimedia content
- Responded to constituent complaints

### Outreach in Support of Mitigation and Monitoring

Team members participated in weekly progress to address neighborhood concerns

Outreach and communication efforts continue in Chinatown, Union Square, and SOMA

Weekly photo documentation of project work and editing

Weekly construction update emails sent to list of approximately 700 residents and stakeholders

### Media Coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/Writer
4/24/2017	Lee turns to old hand to teach SF transit agency new tricks	SF Chronicle	Matier & Ross

# Quality Assurance

Quality Assurance monthly activity of oversight, surveillance, audits, proactive feedback and QA records actively involves the Project construction management staff, the resident engineers, the prime construction contractor and their subcontractors.

## **Stations and Systems Contract CN1300 Quality Assurance Monitoring – On Going/As Reported Previously**

- UMS structural steel installation – Continued Inspection/acceptance/documentation by Smith Emery CWI's of all welds associated with the ongoing Installation of some structural and mostly excavation support steel
- TPC QC Daily Inspection Reports posted to CM13 which includes TPC's Specialty Subcontractor's QC checklists and associated documentation and Smith Emery Inspection Reports; TPC's Subcontractor that provides laboratory and Inspection Services – including Special Inspections required for the City of San Francisco's Department of Building Inspection (DBI) for all permitted work
- Preparatory and Initial Phase Meetings continue as scheduled. Additional Initial Phase Meetings are conducted at the request of the SFMTA or TPC QC as circumstances demand or as unanticipated issues occur
- Sequential Excavation Method (SEM) Meetings (daily at 8:00 am at the CTS site) and Instrumentation/Monitoring and Construction Management Task Force (CMTF) Meetings (Tuesdays and Fridays; changed from Thursday to better align with SEM convergence and pressure cell readings that are taken Monday and Thursday – and changed to daily at 7:00 am while compensation grouting is being performed) at 9:45 am.
- Bi-Weekly Quality Task Force (QTF) Meetings – ongoing dialog regarding; planning for upcoming Work, identification and mitigation of in-process potentially unsatisfactory work, generation of CNCRs, welding inspection documentation and other items related to TPC's QC efforts in implementing TPC's approved Quality Control Program (QCP)
- Weekly Work Package Progress Meetings for STS, YBM, UMS and CTS
- Monthly Project Risk Mitigation, Safety and Security, MEP Progress and weekly CMB Meetings as scheduling constraints allow

### Document comment and review:

- Contractor's submittals, e.g., review of welding, concrete (including shotcrete) and other Quality related submittals/comments as requested to support the RE's and CM, and RFIs related to quality and welding
- QA Staff continues random/spot checks of the 1300 Contractor's Field Testing lab results; the now few items requiring further action/investigation (missing or inconsistent data, compressive strength results that appear to have a very broad range of values, failure to adequately identify the location where tests/specimens are taken, non-identified low test results and such) are brought to the attention of the Contractor. Discussions continue regarding flexural specimen VS compressive strength specimens for on-gong production shotcrete panels at CTS
- Numerous meetings associated with how TPC at UMS is documenting on-going work and acceptance of work (primarily as a result of the RE's processing of pay requests predicated upon TPC QC's SE CWI's Daily Inspection Reports (DIRs) have resulted in the continuing challenging

## Quality Assurance - Continued

task of the development of a welding inspection log that will eventually clearly indicated exactly what welds/connection have been included in the Monthly Pay Application as well as documenting that all welds have been performed to and accepted as required by our Contract Documents and the Welding Code (D1.1) . TPC has scheduled an early May 2017 meeting to present how the inspections documenting that all welds have been performed and accepted as required by AWS and the Contract Requirements

- Contractor Non Conformance Reports (CNCR) Status as indicated in the TPC QC CNCR Log:
  - ◇ 9 (same as last month) CNCRs are currently posted to the CNCR Log as INITIAL entries (C1300 is required to generate a CNCR within 24 hours of becoming aware of what appears to be non-conforming work).
  - ◇ 34 (+24 from last month) CNCRs are currently posted to the CNCR Log as DISPOSITIONED and are being reviewed by associated SFMTA RE to verify that the Contractor's proposed disposition is appropriate.)
  - ◇ 9 (-26 from last month) CNCRs are currently posted to the CNCR Log as DISPOSITIONED (NOT ACCEPTABLE) and have been returned to the Contractor because the RE's review of the Contractor's proposed disposition determined that the proposed disposition is not appropriate and must be revised).
  - ◇ 22 (same as last month) CNCRs are currently posted to the CNCR Log as APPROVED because the suggested REPAIR dispositions have been approved and the CNCRs will remain open until the approved REPAIR procedure is performed.
  - ◇ 183 (+ 20 from last month) CNCRs are currently posted to the CNCR Log as CLOSED.
  - ◇ 37 (same as last month) CNCRs are currently posted to the CNCR Log as VOIDED (subsequent evaluation of the INITIAL CNCRs determined that a CNCR is not warranted)
  - ◇ 294 (+4 from last month) CNCRs are currently posted to the CNCR Log

### QA Issues:

- None to report for this period

### QA Concerns:

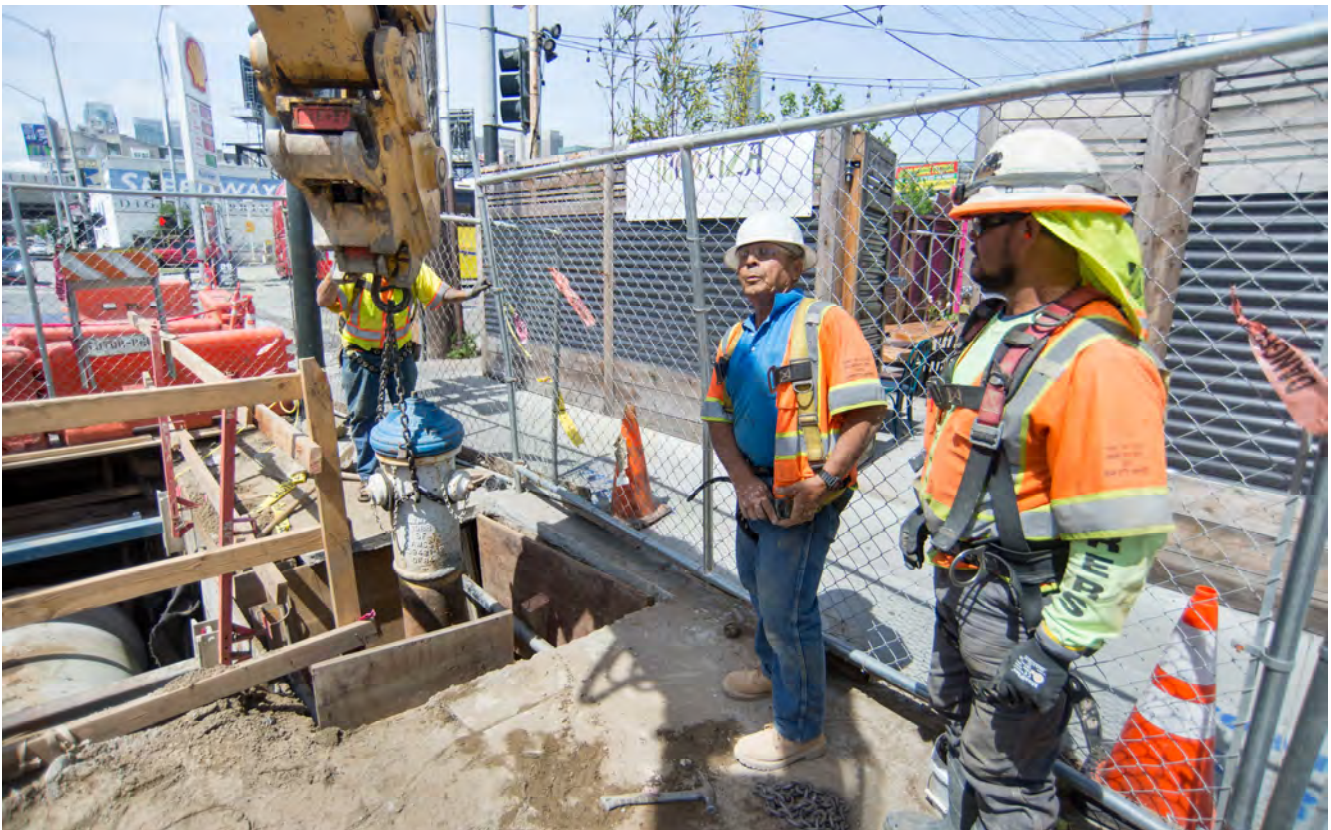
- As is typical to similar Projects, work performed prior to receipt of approval status of required submittals/RIFs with/without knowledge of QC remains a potential item(s) of concern
- TPC's Record Document (as-built) effort refinement, to include CNCRs and a timely recording of Work performed that is different than what is required by the latest approved Conformed Design Drawings. Follow-up Quality Assurance Surveillance QAS076 was conducted; posted to CM13 and provided to TPC for their action. This follow-up Surveillance documents, as had previously been identified in QAS072 (provided to TPC for their corrective action - January of 2016) some lack of conformance to the requirements of the *Record Document* Specification Section 01 78 39 (As-Builts). TPC has been making a concerted effort to rectify items documented in previous Quality Assurance Surveillances; as documented in QAS077 (please see the **Other Program QA Practices Implemented** section of this report)
- Revision of and adherence to approved Required Excavation Support System (RESS) sheets at CTS, as expressed by the RE/DSP's Senior Engineers, at the daily SEM Meetings. Note that the required changes to and approval thereof of RESS sheets, prior to the start of effected work, con-

tinues to be implemented in a most acceptable manner

- Deterioration of both the SEM and CMTF Meetings; the primary concern being the technical discussions and resolution of issues is being prevented or stymied by contractual bickering

### **Other Program QA Practices Implemented**

- Close-out of Corrective Action Requests: Close outs continued from Quality Assurance staff's Audits, Surveillances and PMOC Quarterly Reviews. The status is tracked in the Corrective Action Log that is provided to the project team and the FTA PMOC
- TPC's response to Quality Assurance Audit Report QAA 026, Implementation of TPC's Quality Control Program (QCP) was received and as resources allow, is currently under review with some additional documentation/information required prior to audit closeout; specifically associated with documentation related to mechanical couplers. This audit will be closed-out as resources allow
- Quality Assurance Surveillance QAS077 was completed and provided to TPC for their information and action; identifying the need for TPC's ongoing effort to generate timely and accurate as-builts. (Also please refer to bullet 2 in the Quality Concerns section of this report.)



***A crew prepares an AWSS hydrant for lifting on the east side of 4th, just south of Bryant.***

## Risk Management

Risk Mitigation Management Meeting No. 93 was held on April 6, 2017. The Risk Assessment Committee reviewed and discussed the Projects Construction Risks with ratings above 6; and Active Construction Risks rated below 6.

During the meeting, the Committee reevaluated one (1) risk item, agreeing that this risk item does not have the potential to significantly impact the project thus lowering the risk rating. In addition, the Committee retired from the Risk Register two (2) items, no longer considered risks to the Program.

Currently the Program is tracking thirty four (34) construction risks and one (1) remaining requirement risk on the Project's Risk Register. These risk will continue to be monitored and status with the use of the risk mitigation status sheets, providing monthly updates by the Risk owner to demonstrate the assigned mitigation strategy is being implemented.

### Top Ten Risk

Risk #	Risk Description	Risk Owner	Risk Rating	Contract
232	Behind Schedule - Unable to Recover from Delay to 1300 Contract	ES	20	STA
240	Unresolved Assignment of Schedule Delay Responsibility (may lead to increase cost)	ES	8	STA
234	Sequential Excavation Method at CTS - Contractor's propose method will induce subsidence	DJ	7	CTS
52	Unacceptable settlement and impact on major utilities at CTS. (OLD SEWERS AND OTHERS WITHIN 20FT SPACE BETWEEN TOP OF CAVERN AND STREET LEVEL)	DJ	6	CTS
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	ML	6	STA
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	ES	6	STA
229	CN1300 System Acceptance Testing	AH	6	GEN
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	AH	6	GEN
99	Breakdown in relationships between SFMTA and Contractors during construction results in increased claims and delays to the overall construction schedule.	ES	5	STA



# Program Safety & Security

The San Francisco Municipal Transportation Agency is committed to the highest practical level of safety and security standards and practices in the public transit industry. The Safety and Security Management Plan (SSMP) components are reported on below as appropriate including, Safety and Security Committee, the Fire Life Safety and Security Committee the Construction Conformance Verification and Documentation and Contractor Safety and Security.

## **Project Management/Construction Management (PMCM) Team**

Safety bulletin boards have subjects covering the complacency and daily job briefings.

## **Safety Summary for the 1300 Stations Systems Track Construction Package**

During the month of April, TPC had four first aid or lost time incidents. They consisted of a scratched nose, a strained neck due to being hit by shotcrete, a welder got something in an eye, and a different welder got burned by some hot slag.

## **Table 1300 Stations Construction Safety Record**

Table 1300 below summarizes the Month to Date and Project to Date for the Stations, Systems and Track Construction contractor and subcontractors.

### **Next Month Look Ahead**

#### **1300 Contract**

1. The CTS station now has very good air flow which is monitored at beginning of shift and half way through the shift. We will be checking documentation during the month.
2. At the UMS station, work continues underground with excavation. The majority of the tunnel segments have been removed, however we will continue to monitor during the removal of the remaining segments.
3. At the YBM station, invert pours have been completed inside of the station. We will be monitoring the progress.
4. At the STS station, work continues on the utility relocations. We will be closely watching the welding process being performed at the portal opening.

# Program Safety & Security - continued

## Project Safety Record - Contract 1300

### SAFETY GOALS

Through Month End -Apr 2017

<p>OSHA Recordable Accidents, &lt;3.4 Lost Time Cases, &lt;1.6</p>
--

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	5	1	6	0.56
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	1	0	1	0.09
Total Project Incidents	6	1	7	0.65
Man Hours Worked Through M/E April 2017	951,111	1,205,913	2,157,024	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	0	0	0	0.00
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	0	0	0	0.00
Man Hours Worked Through M/E April 2017	109,008	113,294	222,302	

\* Rate is calculated based on number of incidents divided by total number of man hours worked multiplied by 200,000 man hours.

OSHA Recordable Accidents - 2008 Construction Industry Rate for Highway, Street, and Bridge Construction = 3.9

\*Classifications change at a later date due to additional information becoming available, thereby, changing the numbers on the chart. For example, what was once classified as an accident can become a first aid which leads it to no longer being recordable.

## Technical Capacity

After staff left Central Subway Project, the key leadership appointments within the Central Subway management team had changed effective on May 1, 2017.

**Mark Vilcheck** will become the new UMS Resident Engineer. Mark will transfer the success that he's been able to achieve at YBM and continue Sarah's efforts at UMS.

**Matt Hembd** will become the new UMS Assistant Resident Engineer. Matt has been providing excellent change modification program support and will now be the 2<sup>nd</sup> in charge in leading the delivery of our largest station.

**Paul Orsburn** will become the new acting YBM Resident Engineer. Paul has been the steady force behind the success at YBM and will now lead and is responsible for delivering the Yerba Buena/Moscone contract.

We've also brought on board three experienced professionals **Peter Borjesson, Markus Williams and Tim Shu**, that will help in the overall change management/claims support efforts.



*An excavator and bulldozer operate as a team removing material from invert excavation for the left side drift of the south platform cavern.*

# Staffing

The Central Subway Staffing Table shows Planned and Actual full-time equivalent staff (FTEs) working on the Program by organizational function and responsibility.

	Jan-2017		Feb-2017		Mar-2017	
	Planned	Actual	Planned	Actual	Planned	Actual
<b>Project Management</b>						
Program Management	6.60	6.00	6.60	6.00	6.60	6.00
Quality Assurance	1.80	2.30	1.80	2.30	1.80	2.30
Contract Administration	1.40	1.40	1.40	1.40	1.40	1.40
Community Outreach	5.50	4.00	5.50	3.00	5.50	3.00
Finance	2.00	2.00	2.00	2.00	2.00	2.00
Project Controls	4.80	6.30	4.80	6.30	4.80	6.30
Subtotal	22.10	22.00	22.10	21.00	22.10	21.00
<b>Construction Management</b>						
CM - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CN 1300	29.98	30.98	29.98	30.98	29.98	30.98
Design Support - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CN 1300	12.40	12.40	12.40	12.40	12.40	12.40
Subtotal	42.38	43.38	42.38	43.38	42.38	43.38
<b>Start Up</b>						
Start Up / Safety & Security	3.00	2.10	2.00	2.10	2.00	2.10
Subtotal	3.00	2.10	2.00	2.10	2.00	2.10
<b>Total</b>	<b>67.48</b>	<b>67.48</b>	<b>66.48</b>	<b>66.48</b>	<b>66.48</b>	<b>66.48</b>

## Third-Party Agreements

No activity in this reporting month.

## LRV Procurement

SFMTA has initiated a new light rail vehicle procurement to acquire up to 260 vehicles over the next 15 years. The scope includes the design, manufacture, delivery and testing of up to 260 light rail vehicles together with associated services, spare parts, special tools, training and documentation. This includes an initial delivery of 24 cars, scheduled for delivery from 2017 - 2018 to supplement the fleet when the SFMTA's Third Street Phase 2 - Central Subway Project extension opens.

Production of the first 12 cars continues. The third car 2003 was delivered to SFMTA April 30<sup>th</sup>, 2017, ahead of schedule. Mainline testing including load qualification testing is underway with Car 2001. Static testing continues for Car 2002. Final assembly and testing of Car 2004 is in process and is scheduled for delivery in April.



***Looking south, the S-curve of the southbound tunnel can clearly be seen, from approximately just north of Market Street.***

# central **T** subway

## Current Construction Activity



**Chinatown (CTS)**



**Union Square/Market Street (UMS)**



**Yerba Buena/Moscone (YBM)**



**4th St. Surface Track, Systems (STS)**





*Workers loosen material inside the left side drift invert, which is then transferred by excavator to a waiting bulldozer for storage inside the headhouse before being brought to the*



*A worker prepares to alter a pipe joint at the surface work area on the south end of the roof deck of Chinatown Station.*



***Bulldozer and excavator operators coordinate excavation operations inside the cross-cut cavern, where left side drift invert work for the south platform cavern has begun.***

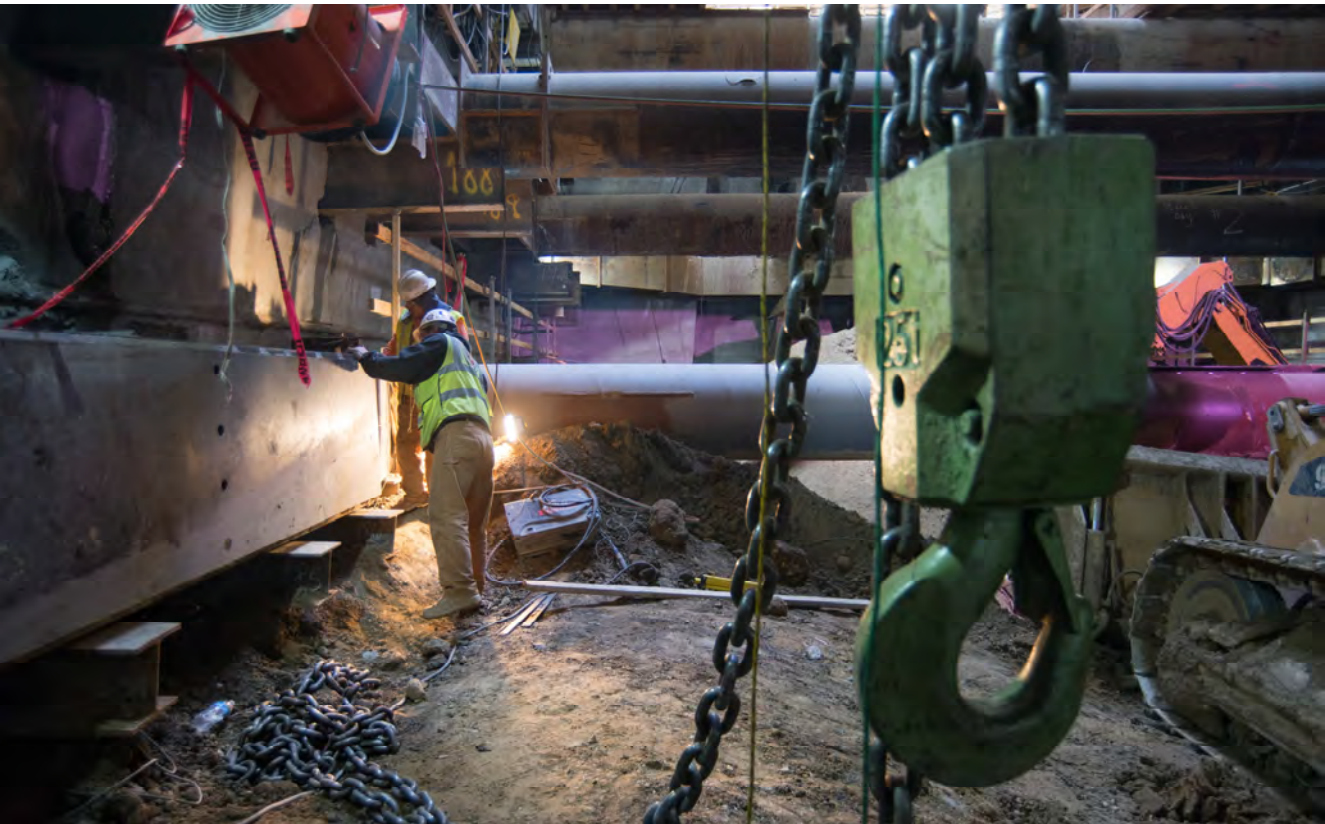


***A crew sprays shotcrete on reinforcing steel mesh inside the left side drift invert of the north platform cavern.***





*Looking south from the north headwall inside the station box under Stockton Street, crews have excavated far enough down to begin removing tunnel ring segments.*



*Workers inspect temporary steel bracing near a hoist on the west wall of the station box.*



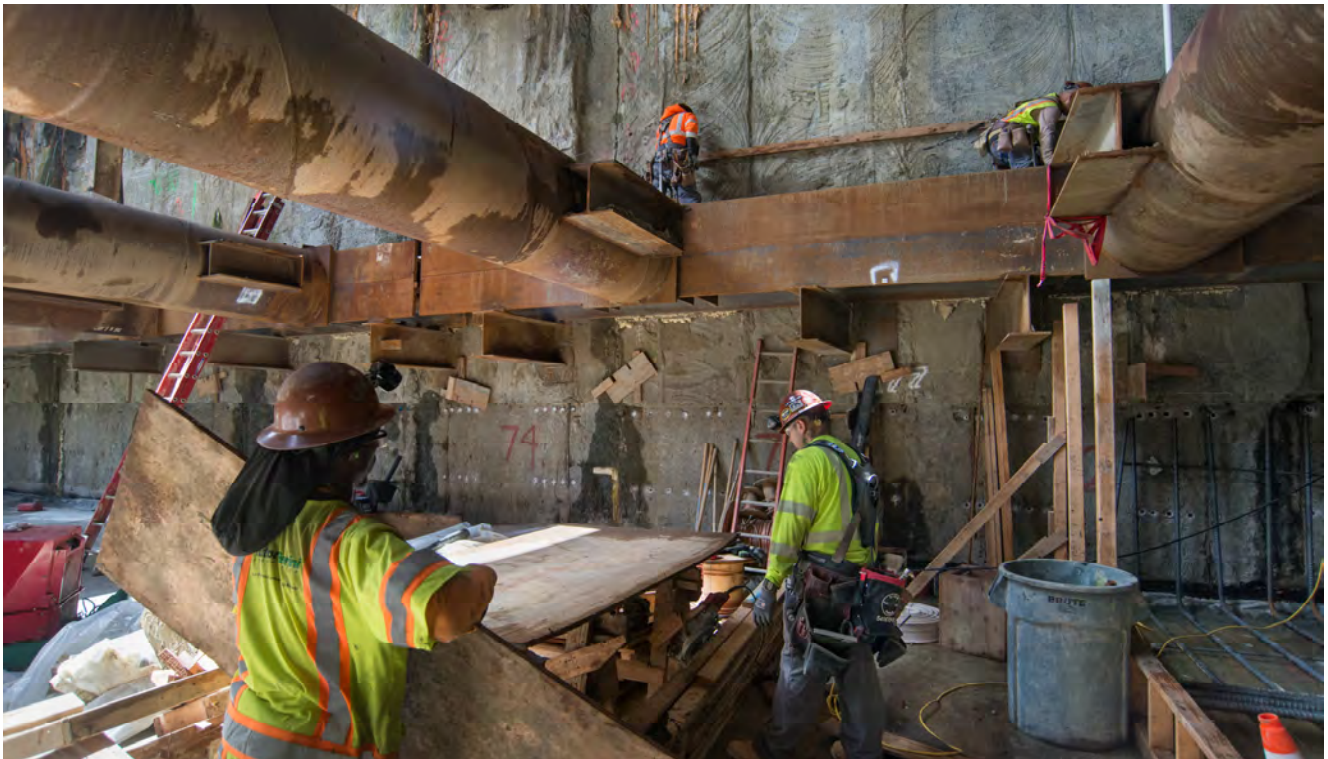
*Light beams in through an access shaft at the southeast corner of Union Square, where workers are excavating the north concourse and installing tiebacks.*



*Vertical steel beams embedded in the exterior pile wall are prepared for welding small steel pegs as part of upcoming shotcrete reinforcing work.*



*A crew clears out small trenches following rain inside the headhouse, where the massive lattice of copper grounding wire will be installed.*



*A crew is fabricating pieces of concrete forms while patching the exterior slurry walls of the headhouse, where invert construction is ongoing.*



*A carpenter fashions a piece of plywood as part of concrete form assembly near the west wall of the headhouse.*



*Sections of PVC conduit are brought in following the completion of the southernmost section of platform level invert slab. One section remains, adjacent to the headhouse access portal.*



***A new section of sewer pipe is carefully lowered into place on the east side of 4th just south of Bryant.***

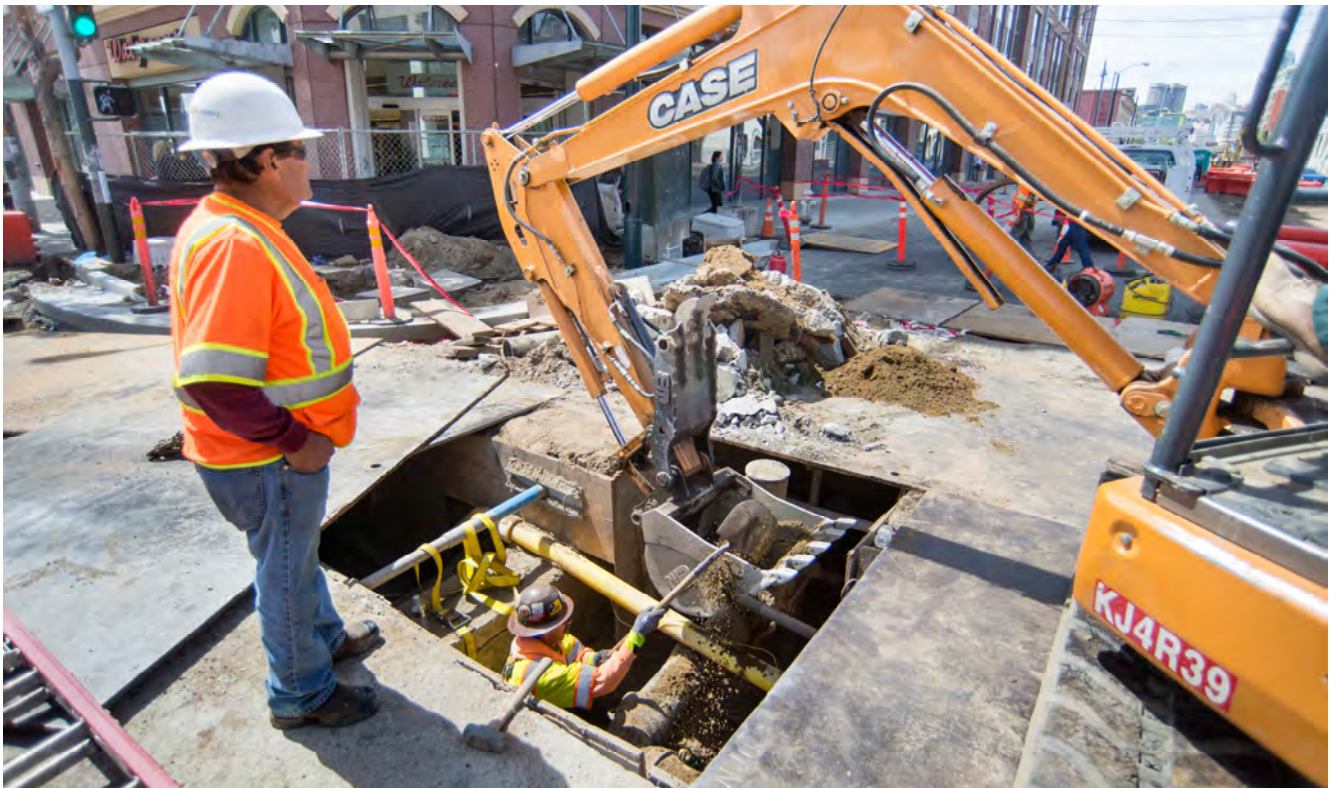


***Workers break after grading a section of 4th Street north of an already-completed concrete road slab south of Brannan.***

## STS—Continued



*Looking south from under the I-80 overpass, the concrete pour for the remaining portions of the tunnel portal invert slab is wrapping up.*



*Sometimes live underground utilities have such close proximity to ones being upgraded that excavation by hand and shovel are required, as demonstrated here at 4th and Townsend.*

*Appendix A*

**DETAIL COST REPORTS**

**1. PROJECT COST**

The Current Cost Estimate (CCE) for the Central Subway Project is **\$1.578 billion** in year of expenditure dollars (\$YOE). This total project cost is shown at the top of Report 7.1, Program Project Budget. This capital cost projection incorporates allocated and unallocated contingencies to cover the risks associated with the project completion.

Total net incurred costs for the project are \$1,058.98 million, a \$13.33 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,021.84 million) plus the utilities joint trench Form B Reimbursement payment (\$11.20 million), invoices currently being processed (\$22.83 million) and estimates of outstanding pay requests (\$3.14 million). This incurred amount equals 67.10% of the total project budget of \$1.578 billion.

The current funding level to date is \$1,329.79 million. This represents 84% of the total project budget.

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.1	66	5/31/2015	\$ 2,121.00
CS155.1	67	6/30/2015	\$ 1,180.00
CS155.1	66&67	8/31/2015	\$ 3,005.81
CS155.1	68&69	10/31/2015	\$ 8,465.57
CS155.1*	70&71	12/31/2015	\$ 7,898.00
CS155.1*	72, 73 & 74	3/31/2016	\$ 13,280.00
CS155.1*	75, 76 & 77	6/30/2016	\$ 24,327.00
CS155.1*	78, 79 & 80	9/30/2016	\$ 65,000.00
CS155.1*	81, 82 & 83	12/30/2016	\$ 50,000.00
CS155.1*	84, 85 & 86	3/31/2017	\$ 45,500.00
CS155.2	78	8/31/2016	\$ 382,761.90
CS155.2	79	9/30/2016	\$ 524,314.56
CS155.2	80	10/31/2016	\$ 403,491.31
CS155.2	81	11/30/2016	\$ 370,495.64
CS155.2	82	12/31/2016	\$ 428,924.91
CS155.2	83	1/31/2017	\$ 380,000.00
CS155.2*	84	2/28/2017	\$ 380,000.00
CS155.2*	85	3/31/2017	\$ 380,000.00
CS155.2*	86	4/30/2017	\$ 380,000.00
CS155.3	76	7/31/2016	\$ 78,529.03
CS155.3	77	8/31/2016	\$ 92,885.89

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.3	78	9/30/2016	\$ 115,190.05
CS155.3	79	10/31/2016	\$ 74,598.61
CS155.3	80	11/30/2016	\$ 81,225.77
CS155.3	81	12/31/2016	\$ 102,053.91
CS155.3	82	1/31/2017	\$ 70,096.88
CS155.3	83	2/28/2017	\$ 61,878.88
CS155.3*	84	3/31/2017	\$ 77,875.07
CS155.3*	85	4/30/2017	\$ 80,000.00
CN 1300	39	3/31/2017	\$ 8,279,913.00
CN 1300	40	4/30/2017	\$ 8,979,702.00
CS149	95	11/30/2016	\$ 476,270.25
CS149	96	12/31/2016	\$ 646,895.15
CS149	97	1/31/2017	\$ 483,899.31
CS149	98	2/28/2017	\$ 509,322.00
CS149*	99	3/31/2017	\$ 550,000.00
CS149*	100	4/30/2017	\$ 550,000.00
CS156	73	12/31/2016	\$ 64,250.61
CS156	74	1/31/2017	\$ 40,466.35
CS156	75	2/28/2017	\$ 39,626.86
CS156*	76	3/31/2017	\$ 49,354.34
CS156*	77	4/30/2017	\$ 45,000.00
other accruals*		4/30/2017	\$ 566,881.13

\* Estimated Amount \$ 25,966,680.79

**2. CONTINGENCY ALLOCATIONS AND USAGE**

The current Total Project Contingency is **\$75.05 million**, which is a \$15.05 million favorable balance against the current Minimum Contingency level of \$60 million. The Contingency Drawdown Curve is shown in Report 7.3. Follows by Report 7.4 Contingency Management Trend Report with the Remaining Contingency after Approved Changes Deducted contingency items in column "i".



Both Contract 1252 Tunnel and Contract 1300 Station did not process any contract modifications in this reporting period. Refer to Report 7.5 for approved contract modifications and potential changes.

**3. BUDGET TRANSFERS**

No budget transfers in this reporting period.

**4. FORM B**

The Utilities Joint Trench Form B Details is listed in the Table A2 below. Total utilities joint trench Form B Reimbursement payment to three construction contracts is \$11.20 million.

TABLE A2: UTILITIES JOINT TRENCH FORM B DETAILS	[A] Mar 2015 BUDGET	[B] EXPENDED TO DATE	Associated Cost Account
1.3.491.07.040.02 - FORM B - CN1250 UTILITY REIMBURSEMENT	(2,275,419)	2,463,325	1.3.081.07.040.02 - 1UTL:SITWORK: UTILITIES & RELOC
1.3.491.08.040.02 - FORM B - CN1251 UTILITY REIMBURSEMENT	(7,618,412)	3,608,217	1.3.082.08.040.02 - 2UTL:SITWORK:UTILITIES&RELOCATE
1.3.491.02.040.02 - FORM B - CN1252 UTILITY REIMBURSEMENT		3,975,656	1.3.083.02.040.02 - TUNN:Sitework:Utilities & Relocate
1.3.491.04.040.02 - FORM B - CTS: CN1300 UTILITY REIMBURSEMENT	(451,703)	441,304	1.3.085.04.040.02 - CTS.1254: SITE UTILITIES, UTILITY RELOCA
1.3.491.09.040.02 - FORM B - STS: CN1300 UTILITY REIMBURSEMENT	(1,000,000)	-	
1.3.491.03.040.02 - FORM B - UMS: CN1300 UTILITY REIMBURSEMENT	(528,370)	466,189	1.3.084.03.040.02 - UMS.1253: SITE UTILITIES, UTILITY RELOCA
1.3.491.05.040.02 - FORM B - YBM: CN1300 UTILITY REIMBURSEMENT	(100,000)	247,848	1.3.086.05.040.02 - YBM.1255: SITE UTILITIES, UTILITY RELOCA
<b>TOTAL</b>	<b>(11,973,904)</b>	<b>11,202,539</b>	

**5. EARNED VALUE (EV) ANALYSIS**

In April 2017 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA April Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

**Preliminary April Earned Value**

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,370,178,677
Earned Value:	\$1,039,972,892
Actual Cost:	\$1,058,979,469
Schedule Performance Index (SPI):	0.76
Cost Performance Index (CPI):	0.98
Percent Complete:	65.8%

SFMTA, EV Chart  
 April 30, 2017 Update

Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Total Cost (AC)	CPI	SPI
<b>CENTRAL SUBWAY PROJECT</b>										
		03-Jun-03A	14-Dec-21	65.83%	\$1,578,300,003.43	\$1,370,178,676.60	\$1,039,972,881.97	\$1,059,979,469.41	0.98	0.76
	Preliminary Engineering Phase	03-Jun-03A	07-Jan-10A	100%	\$46,542,061.34	\$46,542,061.02	\$46,542,061.02	\$46,542,060.53	1.00	1.00
	Final Design	08-Jan-10A	17-Jun-13A	100%	\$115,075,987.10	\$115,075,987.06	\$115,075,987.06	\$113,950,952.17	1.01	1.00
	Light Rail Vehicles	15-Apr-13A	21-May-19	8.25%	\$26,385,653.00	\$13,309,000.00	\$2,177,131.58	\$2,147,782.08	1.01	0.16
	Real Estate	01-Aug-08A	26-Apr-17	82.4%	\$32,140,417.71	\$36,766,833.91	\$30,822,332.40	\$30,625,616.53	1.01	0.84
	Construction Phase	03-Jan-10A	20-May-20	62.86%	\$1,349,275,482.28	\$1,158,484,794.81	\$845,355,379.91	\$865,713,058.10	0.98	0.73
	Construction Support and Costs	03-Jan-10A	20-May-20	49.86%	\$200,922,949.93	\$114,865,737.61	\$99,644,307.23	\$119,754,902.35	0.83	0.87
	Construction Utility Contract #1 - MOS & Portal CN-1250	04-Jan-10A	23-May-11A	100%	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	\$11,968,150.00	1.00	1.00
	Construction Utility Contract #2 - JMS CN-1251	12-Jan-11A	15-Oct-12A	100%	\$20,794,582.00	\$20,794,582.00	\$20,794,582.00	\$20,794,582.00	1.00	1.00
	Construction Tunnels CN-1252	08-Jun-11A	27-Apr-17	93.05%	\$235,913,540.00	\$251,068,957.23	\$233,608,894.28	\$233,810,898.17	1.00	0.93
	Construction CN-1300	03-Jun-13A	24-Sep-19	55.67%	\$879,676,360.35	\$759,787,357.96	\$479,339,446.39	\$479,394,525.58	1.00	0.63
	Unallocated Contingency	26-Jun-19	10-Dec-19	0%	\$8,880,402.00	\$0.00	\$0.00	\$0.00	0.00	0.00
	Project Management	10-Dec-19	14-Dec-21	0%	\$0.00	\$0.00	\$0.00	\$0.00	0.00	0.00

## Earned Value Analysis and Definitions

**SPI** is a measure of schedule efficiency on a project. It is the ratio of earned value (EV) to planned value (PV). A SPI equal to or greater than one indicates more work was completed than planned and a value of less than one indicates less work was completed than planned. A value of less than 0.9 is unfavorable.

**CPI** is a measure of cost efficiency on a project. It is the ratio of earned value (EV) to actual cost value (AC). A CPI equal to or greater than one indicates a cost under run and a value of less than one indicates a cost overrun. A value of less than 0.9 is unfavorable.

The following earning rules are established for each of the phase:

Cost Element Group	Planned Value (Primavera)	Earned Value (Primavera)	Actual Cost (SFMTA Cost Accounting (SAP))
<b>Prelim. Engineering</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
<b>Final Design</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
<b>Procurement</b>	Planned Delivery Date	Actual Delivery Date	Time Keeping; Vendor Accruals and Invoices
<b>Real Estate</b>	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor/ Material Accruals and Invoices
<b>Construction</b>	Schedule of Work	% Complete* x Budget at Completion (BAC)	Vendor Accruals and Invoices
<b>Sub-Total</b>	Performance Measurement Baseline (PMB)	Total Earned Value	Total Actual Cost
<b>Below the Line</b>	+ Contingency		
<b>Total</b>	Approved Budget		

**6. FUNDING SUMMARY**

The Funding Available Table below shows the total awarded funds to date vs. the total committed funds from the Project's seven funding sources.

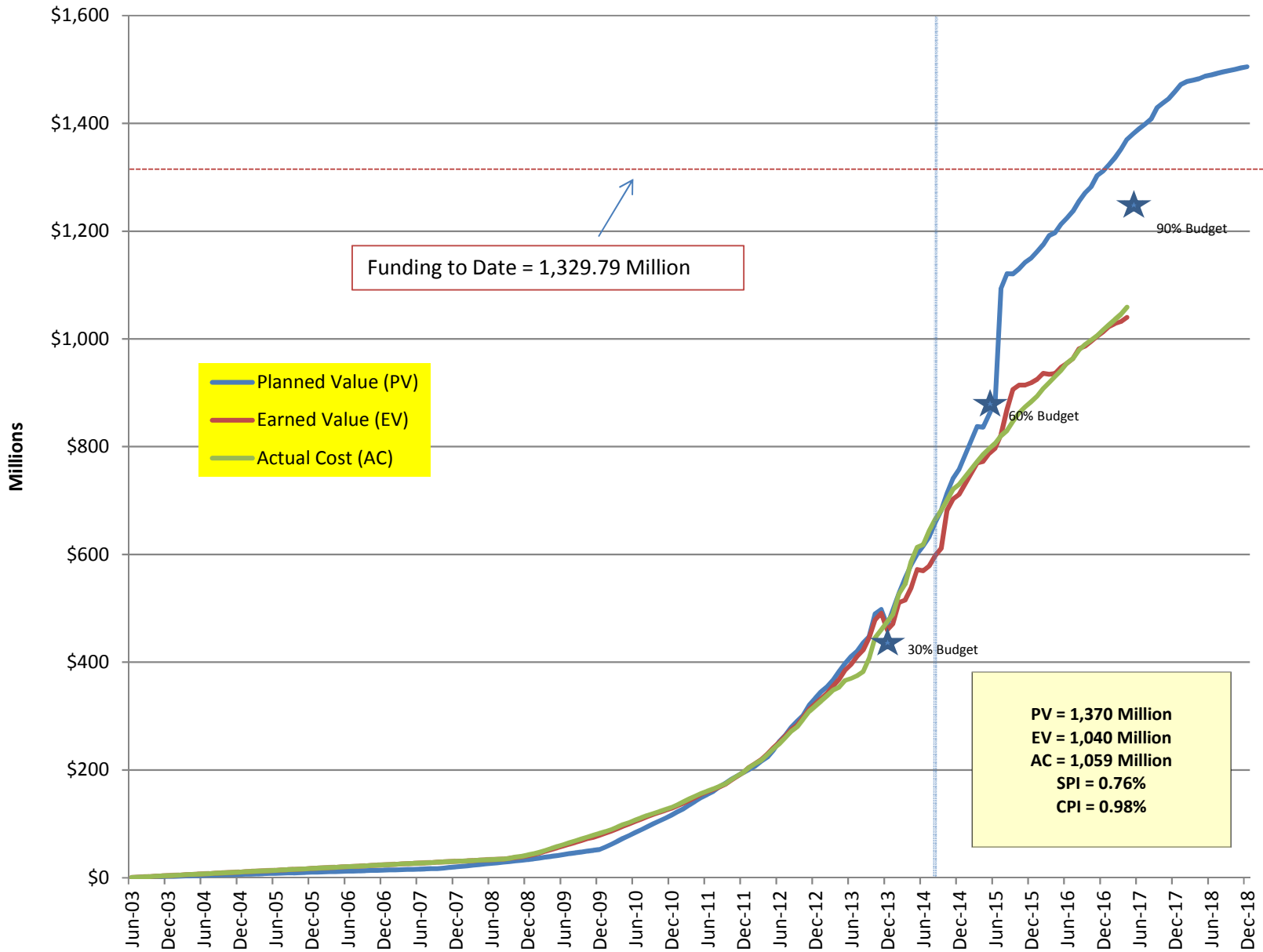
<b>Funding Available Table</b>		
	<b>Funding</b>	
	<b>Committed Funding Sources</b>	<b>Total Awarded Funds to Date</b>
<b>Federal</b>		
Sect. 5309-NS	\$942,200	\$769,196
CMAQ	\$41,025	\$41,025
<b>Federal Subtotal</b>	<b>\$983,225</b>	<b>\$810,221</b>
<b>State</b>		
TCRP	\$14,000	\$14,000
State RIP	\$88,000	\$12,498
Prop. 1B (I-Bond) PTIMSE	\$307,792	\$307,792
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
<b>State Subtotal</b>	<b>\$471,100</b>	<b>\$395,598</b>
<b>Local</b>		
Prop. K	\$123,975	\$123,975
<b>Local Subtotal</b>	<b>\$123,975</b>	<b>\$123,975</b>
<b>CPT 544 Total</b>	<b>\$1,578,300</b>	<b>\$1,329,794</b>

**7. LIST OF COST REPORTS**

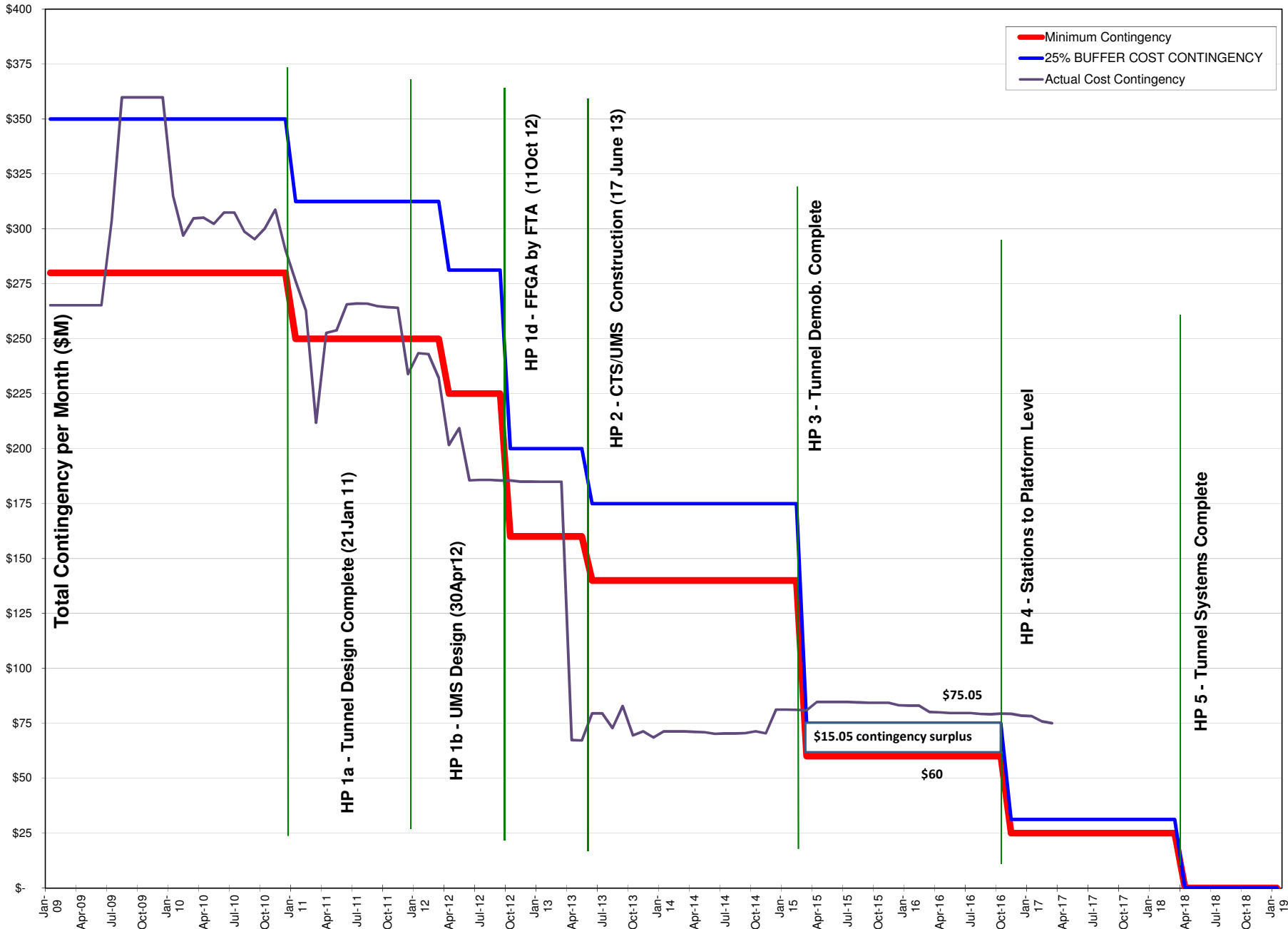
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted by SCC Summary
- 7.8 Budget & Expenditure Report: Sorted by SCC Details
- 7.9 Detail Monthly Expenditure Report: grouped by Project Phase
- 7.10 Cost Report Notes

<b>A. Central Subway Project</b>						
Project	Name	Amount	PM	Funding Source	Reporting	Cost Report Notes
1	CPT544 Central Subway Project	\$1,578,300,000	J. Funghi	62% Fed, 30% State, 8% Local	yes	1
<b>Total:</b>		<b>\$1,578,300,000</b>				
<b>B. Related SFMTA Capital Improvement Projects</b>						
Project	Name	Amount	PM	Funding Source	Reporting	
2	CPT690 TBM Retrieval Shaft Relocation	\$9,700,000	Funghi/Magary	MTA Operating Funds	no	2
3	CPT718 Chinatown Metro Plaza	\$6,980,000	J. Funghi	Transbay Redevelopment	no	3
4	CPT665 Central Subway Project - Goodwill	\$2,367,750	K. Magary	I-Bond Interest	no	4
5	CPT705 MOH - Broadway/Sansome	\$8,000,000	K. Magary	MTA Operating Funds	no	5
<b>Total:</b>		<b>\$27,047,750</b>				
<b>C. Central Subway Project - Project Offset Credits</b>						
	From	Amount	Index	Notes	Reporting	
1	2009-2016 Utility Co. - Form B Reimbursement	\$12,227,954	--	Construction contracts	yes	6
2	2017-2019 PG&E - Power Feed Reimbursement	\$7,624,540	--	Not yet bill PG&E	yes	7
3	6/26/2013 BART Elevator	\$90,000	68CPT544135B	Not yet rec'd BART Funds	yes	8
4	11/6/2013 Tutor Perini - CAD Files	\$2,500	68CPT5441236	Deposit to Design Index	yes	9
5	1/27/2014 SFPUC - Sewer Main	\$2,925,296	68W251	Certified in Contract 1300	yes	10
6	8/27/2014 SFMTA Traffic Effectiveness Project funded	\$694,651	68W324/686D42	Contract 1252 CMod #40	yes	11
7	9/27/2014 SFPUC - 24" Water Main	\$328,857	68CPT544135A	Contract 1252 CMod #41	yes	12
8	2/15/2015 Chinatown Plaza Construction Estimate	\$75,000	68CPT7181341	Contract 1300 CMod #6	yes	13
9	3/27/2015 SFPUC - 24" Water Main Additional Work	\$112,102	68W409	Contract 1252 CMod #48	yes	14
10	3/15/2016 Support for North Beach Restoration, OCS and Streetlighting	\$155,468	68T7373342D2/D3	Contract 1252 CMod #51	yes	15
11	6/27/2016 DPW - MOU for Water Line above YBM Station	\$438,218	68W592	Contract 1300 CMod #20	yes	16
<b>Total:</b>		<b>\$24,674,586</b>				

# Earned Value Cash Flow Curve



# Cost Contingency Drawdown



COST ELEMENT	CONTRACT COST					CONTINGENCY					BUDGET	VARIANCE	Cost Report Notes	
	ORIGINAL CONTRACT VALUE / September 2013 SUPPLEMENTAL BUDGET	APPROVED CHANGES	CURRENT CONTRACT VALUE	POTENTIAL CHANGES	ESTIMATE AT COMPLETION (EAC)	ORIGINAL CONTINGENCY / Sep 2013 SUPPLEMENTAL CONTINGENCY (Exclude CN 1250 & CN1251)	CONTINGENCY ADJUSTMENT TRANSFERS	REVISED AUTHORIZED CONTINGENCY (Exclude CN1250 & CN1251)	REMAINING CONTINGENCY AFTER APPROVED CHANGES DEDUCTED [h - b]	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY [a + h]	BUDGET - ESTIMATE AT COMPLETE [j - e]		
	a	b	[a + b]	d	[c + d]	f	g	h	i	j	j	k		
<b>SCC 10-50 CONSTRUCTION CONTRACT PACKAGES</b>														
1250	UTILITY RELOCATION PACKAGE #1 <i>Contract 1250 Department of Technology</i>	9,273,939	2,694,211	11,968,150		11,968,150	1,953,377	740,834	2,694,211		11,968,150		17	
		166,756		166,756		166,756					166,756			
1251	UTILITY RELOCATION PACKAGE #2 <i>Contract 1251 Department of Technology</i>	16,832,550	3,962,032	20,794,582		20,794,582	5,367,297	(1,405,265)	3,962,032		20,794,582		18	
		75,615		75,615		75,615					75,615			
1252	GUIDEWAY TUNNEL	233,584,015	1,494,770	235,078,785	170,654	235,249,439	23,658,464	(21,328,979)	2,329,485	834,715	664,061	235,913,500	664,061	19
1300	STATIONS	839,676,400	7,085,814	846,762,214	28,740,279	875,502,493	20,000,000	20,000,000	40,000,000	32,914,186	4,173,907	879,676,400	4,173,907	20
	1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	2,188,335	296,218,925	15,305,924	311,524,849	5,000,000	15,000,000	20,000,000	17,811,665	2,505,741	314,030,590	2,505,741	21
	1254 CHINA TOWN STATION [CTS]	247,567,810	2,964,460	250,532,270	6,924,850	257,457,121	5,000,000	5,000,000	10,000,000	7,035,540	110,689	257,567,810	110,689	
	1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	57,052	158,146,052	3,264,195	161,410,247	5,000,000	5,000,000	5,000,000	4,942,948	1,678,753	163,089,000	1,678,753	
	1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	1,875,966	141,864,966	3,245,310	145,110,276	5,000,000	5,000,000	5,000,000	3,124,034	(121,276)	144,989,000	(121,276)	
OTHER		31,233,501		31,233,501	0	31,233,501	1,160,000	1,060,000	2,220,000	2,220,000	2,220,000	33,453,501	2,220,000	
SCC 10 - 50 Construction Sub-total		1,130,842,776	15,236,826	1,146,079,602	28,910,933	1,174,990,535	44,818,464	(1,328,979)	44,549,485	35,968,901	7,057,968	1,182,048,503	7,057,968	
<b>SCC 60-80 SOFT COSTS PACKAGES</b>														
60	ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	(1,000,000)	0	0	0	32,246,321	0	22
70	VEHICLES	24,108,712	(10,799,712)	13,309,000		13,309,000	2,276,941	10,799,712	13,076,653	13,076,653	13,076,653	26,385,653	13,076,653	23
80	PROFESSIONAL SERVICES	310,518,041		310,518,041		310,518,041	18,221,079		18,221,079	18,221,079	18,221,079	328,739,120	18,221,079	
SCC 60 - 80 Construction Sub-total		371,138,552	(15,065,190)	356,073,362		356,073,362	21,498,020	9,799,712	31,297,732	31,297,732	31,297,732	387,371,094	31,297,732	
SCC 90	UNALLOCATED CONTINGENCY						3,845,945	5,034,457	8,880,402	8,880,402	8,880,402	8,880,402	8,880,402	24
<b>TOTAL</b>		<b>1,501,981,328</b>	<b>171,636</b>	<b>1,502,152,964</b>	<b>28,910,933</b>	<b>1,531,063,897</b>	<b>70,162,429</b>	<b>13,505,190</b>	<b>84,727,619</b>	<b>76,147,035</b>	<b>47,236,102</b>	<b>1,578,299,999</b>	<b>47,236,102</b>	
											<b>Total Project Budget</b>	<b>1,578,300,000</b>	25	
											<b>Estimate At Completion</b>	<b>1,531,063,897</b>	26	
											<b>Variance</b>	<b>47,236,102</b>	27	

Note #17 - Adjusted Contract 1252 Guideway Tunnel contingency "column g" to reflect construction contract modifications #20, #40, #41, #48 and #51 were funded by other funding sources.



Contract Modification/Trend Log - Contract 1252 Tunnel

Awarded NTE Amount: \$233,584,015.00  
Substantial Completion: 4/15/2015

Revised NTE Amount \$235,078,784.60  
Revised Substantial Completion 4/15/2015

Contract Modifications			Amount	
No.	Description	COR/PCC No.	CMod	Contract NTE
1	Amendment of Insurance Requirements	n/a	\$0.00	\$233,584,015.00
2	Amendment of General Liability Insurance Requirements	n/a	(\$3,040,713.00)	\$230,543,302.00
3	Relocation of PG&E Ductbank & Removal/Reinstall TODCO Scaffolding	CORs 10 & 29	\$6,633.37	\$230,549,935.37
4	Investigate 48" Pipe at UMS S. Headwall	PCC 9	\$75,000.00	\$230,624,935.37
5	LB/MOS Oil Filled Pipe Abatement and MOS Asbestos Pipe Abatement	CORs 7, 22 & 27	\$23,912.54	\$230,648,847.91
6	Arch. Support at MOS Station N. Headwall	COR 12	\$16,892.96	\$230,665,740.87
7	Revisions to MOS N. Headwall Elevation	PCC 1	\$20,358.23	\$230,686,099.10
8	UMS Reduced Duration	COR 21	\$0.00	\$230,686,099.10
9	48" Pipe Investigation and Removal at the UMS Headwalls	PCC 11	\$150,000.00	\$230,836,099.10
10	PG&E Impacts to Launch Box and Flagger	CORs 6 & 41	\$8,618.96	\$230,844,718.06
11	Bart Annex Wall	PCC 7	\$15,500.00	\$230,860,218.06
12	LB - Concrete Manhole and Slurry Pipe Removal	COR 38	\$3,820.84	\$230,864,038.90
13	Retrieval Shaft - Pipe/Duct Bank Removal	CORs 31, 47, 50, 58, 66	\$9,908.04	\$230,873,946.94
14	MOS - 16"Pipe Removal @ N/S Headwalls	CORs 39, 44	\$4,551.99	\$230,878,498.93
15	MOS - S. Headwall Asbestos Pipe Abatement	COR 26	\$27,629.64	\$230,906,128.57
16	UMS Utility Removal/Construct Wall	CORs 46, 48, 68	\$21,150.28	\$230,927,278.85
17	MOS – 16" Steel Pipe Removal at N/S Headwalls/Enlarge Tie-In Hole	CORs 73, 76, 81	\$5,056.63	\$230,932,335.48
18	SFWD Support Work	PCC 13	\$20,000.00	\$230,952,335.48
19	Additional BART Instrumentation	PCC 6	\$307,860.75	\$231,260,196.23
20	Relocation of Retrieval Shaft	PCC 10	\$5,150,000	funded by CPT690
21	Columbus Ave. Restoration	NA	\$261,057.00	\$231,521,253.23
22	LB - Jet Grout Quantity Overrun	COR 070	\$599,900.00	\$232,121,153.23
23	Old Navy - Comp. Grout DSCs	COR 079	\$259,373.00	\$232,380,526.23
24	SFWD Excavation, Support and Backfilling	PCC 13	\$13,982.00	\$232,394,508.23
25	Cross Passage 5 - VECP	COR 087	(\$2,674.00)	\$232,391,834.23
26	Various CORs	CORs 9, 24, 37, 45, 51, 61, 71, 77, 83, 99	\$73,700.00	\$232,465,534.23
27	MOS – Reroute traffic signal lines / Equipment Standby	CORs 11, 17	\$80,719.00	\$232,546,253.23
28	PCC 12 - Comp.Grout Mtls., Accel. at R. Shaft, Haz. Mtls @ R.Shaft, Obst. at CSM panel W6 (NTE Amount CMod)	FA CoS 006, 007, 008, 009	\$81,937.00	\$232,628,190.23
29	AWSS Conflict with Water Line, AWSS Restraining at Launch Box, AT&T Vault Conflict with Sewer Main	COR 1, 2, 3	\$73,045.00	\$232,701,235.23
30	MOS Headwall End-stops	COR 018	\$144,000.00	\$232,845,235.23

Connecting people. Connecting communities.

31	Launch Box - Slurry Wall Obstructions	COR 32, 34, 42, 43, 62, 65, 67	\$234,438.00	\$233,079,673.23
32	COR 8 + Markup - Associated w/ COR 001, COR 002, and COR 003	COR 1, 2, 3, 8	\$168,000.00	\$233,247,673.23
33	LB - Pre-Excavation for Slurry Walls	COR 015	\$125,000.00	\$233,372,673.23
34	Modifications to Tunnel Alignment at Market Street - Initial Design Costs	PCC 012 Part 1	\$39,930.00	\$233,412,603.23
35	Deleted AWSS Work at Union St. and Columbus Ave.	PCC 015	(\$187,181.00)	\$233,225,422.23
36	Curb Ramp Work at NE Corner of 4th and Harrison Streets (Force Account)	FA CO 011	\$5,023.00	\$233,230,445.23
37	Staging Yard Hazardous Material	COR 30, 54, 75	\$401,933.00	\$233,632,378.23
38	Modifications to AWSS Facilities at 4th and Bryant Streets	PCC 014	\$35,925.00	\$233,668,303.23
39	MOS N. Headwall Impacts, LB – Jet Grout Overrun	COR 85, 70	\$240,333.00	\$233,908,636.23
40	Culvert, Street & Sidewalk Restoration in N.Beach (includes QC testing)	PCC 20	\$694,651.00	funded by TEP
41	Install Water Main in North Beach	PCC 20	\$328,860.00	funded by SFPUC
42	UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	COR 069	\$29,463.00	\$233,938,099.23
43	UMS Tangent Pile SRB-H DSC, UMS Jet Grout Column No. 18 DSC	COR 096, COR 102	\$60,870.00	\$233,998,969.23
44	Subcontractor Substitution	NA	\$0.00	\$233,998,969.23
45	Modifications to Tunnel Alignment - Construction Costs	PCC 12	\$883,693.00	\$234,882,662.23
46	MOS 20" Conflict with 16" AWSS @ South Headwall	COR 082	\$28,160.00	\$234,910,822.23
47	CDF Encasement on 42" RCP	COR 005	\$95,000.00	\$235,005,822.23
48	North Beach Water Main Additional Work	PCC 20	\$112,102.20	funded by SFPUC
49	Various CORS and FACOS; FACO 13-15, 17-19; COR 116, 118-121	FACO 13-15, 17-19; COR 116, 118-121	\$180,010.41	\$235,185,832.64
50	Contract Milestone Changes		\$0.00	\$235,185,832.64
51	PCC 020 - Supp 1 - North Beach Restoration, OCS and Streetlighting		\$155,468.17	funded by TEP
52	PCC 19 - Piping, Conduit and Casing at 4th Street Portal		\$11,678.00	\$235,197,510.64
53	COR 117 - Retrieval Shaft Impacts		\$30,278.08	\$235,227,788.72
54	Material Hardness at the Retrieval Shaft		\$166,182.81	\$235,393,971.53
55	PCC 020 - Supp 2 - North Beach Sewer Work		\$19,730.14	\$235,413,701.67
56	Deleted Water Utility Replacement/Water, Sewer, MRY and AWSS Design Changes	PCC 24, 28	(\$15,259.00)	\$235,398,442.67
57	YBM Concrete Overpour and Jet Grout at Headwalls	COR 072	(\$84,509.00)	\$235,313,933.67
58	Credit - Delete AWSS Material Supply		(\$201,288.32)	\$235,112,645.35
59	Credit - 1 No. AMTS Unit		(\$33,860.75)	\$235,078,784.60
<b>Sub Total:</b>			<b>\$1,494,769.60</b>	

Pending Contract Modifications		COR/PCC No.	Estimated	
Description			Amount	Time
I	Other Pending Contract Modifications	Cmod # TBD	\$170,653.95	
<b>Sub Total:</b>			<b>\$170,653.95</b>	

**Contract Modification/Trend Log - Contract 1300 Stations**

<b>Awarded NTE Amount</b>	<b>\$839,676,400</b>	<b>\$846,762,214</b>
<b>Substantial Completion</b>	<b>2/10/2018</b>	<b>2/10/2018</b>

	UMS	CTS	YBM	STS	COST REPORT NOTES
<b>Potential Changes</b>	<b>15,305,924</b>	<b>6,924,850</b>	<b>3,264,195</b>	<b>3,245,310</b>	<b>28</b>
<b>Change Order - Pending</b>					
CTS COR 372 DSC Potholing @ N Acces		9,846			
CTS COR 994 FACO#01,10,11 & Alw 13		26,319			
CTS PCC 43 Removal of Bus Bulb		15,180			
CTS-Plaza Surface Level Struct Mods		(10,337)			
STS COR #296 Mult E Util Confl AWSS				47,052	
STS COR 520 Lat Conf AWSS				3,835	
STS COR 523 AV & GV on 8" WD Main				1,236	
STS COR 558 CB in conf w AWSS				862	
STS COR 601 Conc Enc in cn. w W lin				2,730	
STS COR 639 Util conf w/ 12" AWSS				27,197	
STS COR 641 SW delay due to conf ut				9,114	
STS COR 751 Db in coflct 36" FM& MH				2,311	
STS COR 823 Unkn Brck Ctch Basin				1,718	
STS COR 829 Unkn Concrete Blanket				3,613	
UMS COR 1087 (E) 6-inch Gas Line	11,297				
UMS COR 933 CMod for Option 2	400,000				
UMS-FACO #32 8" Waterline Conf NDSC	58,672				
<b>Change Order Request (COR)</b>					
CTS COR 1011 Platform Cavern Void		350,000			
CTS COR 1016 Locate Water Leak		936			
CTS COR 1018 Gas Line Rupture		8,386			
CTS COR 1061 S Pltfrm Unstable Grnd		150,000			
CTS COR 1094 Invert Breakout		0			
CTS COR 324 Strt to Beam Con@ G/L7		5,374			
CTS COR 408 MSX Termination		191,291			
CTS COR 437 Unanticipated Elec @ Sh		50,001			
CTS COR 445 3x5 w/ HDPE/PVC Inside		10,001			
CTS COR 526 Connection b/t Wall & D		25,001			
CTS COR 527 Connection b/t Wall/Dec		40,939			
CTS COR 529 Rock Mass at Elev 37'		25,001			
CTS COR 568 CMOD 019 Reservations		35,001			
CTS COR 583 Elev 1-4 SFFD monitor		53,619			
CTS COR 659 Add Grts at Sta Ag glas		1,537			

**Contract Modification/Trend Log - Contract 1300 Stations**

**Awarded NTE Amount**  
**Substantial Completion**

**\$839,676,400**  
**2/10/2018**

**\$846,762,214**  
**2/10/2018**

	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 679 GI Cutos & Add Sp hds		23,450			
CTS COR 681 Crss Cut Cvrn SEM Excvn		60,001			
CTS COR 686 Es & Gls Enc Slf Clning		6,716			
CTS COR 722 Elv 1-4 OH Str Host Bms		23,823			
CTS COR 723 Strc Gls Asse Add Desig		0			
CTS COR 780 Aded Frit on Roof Panls		19,229			
CTS COR 794 Stn Clean Agnt Supp Sys		0			
CTS COR 824 Multiple Setups, Standb		1,387			
CTS COR 886 Extrm Hrd Grnd Condition		45,001			
STS- AT&T Conduit Changes				5,805	
STS COR 014 Addtl MNHS for 78" SW				27,500	
STS COR 1022 2" Traffic Sgnl Condui				30,000	
STS COR 1030 1" Water line in Confl				2,500	
STS COR 1034 E live DT/MRY Ductbank				50,000	
STS COR 1045 78" Conc Cap Repair				19,050	
STS COR 1085 AWSS Confl w/ 36" Swr				16,233	
STS COR 1091 Conc Footing & PVC				5,000	
STS COR 1097 21" Sewer Bulkhead				13,338	
STS COR 1099 Cnflct with 24" casing				20,000	
STS COR 1100 E Swr Cnfl w/ 18" HDP				5,000	
STS COR 1104 Unkwn Aluminum Pipe				5,000	
STS COR 220 DSC Relocate MRY DB&Vlt				0	
STS COR 297 TC for Track Work at 4t				150,001	
STS COR 402 3x5 SW Confl w/ VCP SW				10,001	
STS COR 404 Contam Soil in MRY DB				18,893	
STS COR 406 Addtl TC at 4th/King				675,001	
STS COR 455 Conflicts w/ 8" WD Line				10,001	
STS COR 456 Conflicts w/ MRY Poles				20,001	
STS COR 461 WD Confl w/ Mult Utilit				63,896	
STS COR 475 Removal of Fiber Optic				1,101	
STS COR 476 Conc DB Conf w/ FH				20,645	
STS COR 484 New WD & AWSS Alignment				44,350	
STS COR 488 Tunnel Track Alignment				50,001	
STS COR 500 Tunnel Monuments				5,001	
STS COR 559 Temporary Trolley Pole				6,132	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 604 Duct Bank in conf. w se				4,271	
STS COR 665 Ov prd Lit Pl fdn in				901	
STS COR 675 Dct bnk & 3" Gas Line				10,001	
STS COR 682 Shtdown #1 Rail Mods				9,432	
STS COR 683 Gas Ln & unkn Duct Bank				5,001	
STS COR 688 Ukn Piers /conct N 12"				537	
STS COR 694 Tr Rts in con/car pipes				5,001	
STS COR 699 Dct Bnk in Cnf w 36"FM				20,001	
STS COR 700 RFI-00795.1				142,836	
STS COR 702 Brk Cs Bsn cnct w N Cuv				5,001	
STS COR 737 Dct Bnk infc w AT&T Rem				5,001	
STS COR 788 Add Basin & Culvert				28,843	
STS COR 791 CP5 Drainage Pipe BckFI				3,871	
STS COR 796 Woodn Piers Woodn Beams				10,001	
STS COR 826 DSC Swr Cap & I Beams				10,001	
STS COR 833 Unknown Conc Blanket				5,001	
STS COR 844 4th & King Trcwrk Shtdn				705	
STS COR 846 Util Conf w/ 78" SW Crw				11,371	
STS COR 849 brk Pen incof w 78" Swr				2,501	
STS COR 855 Flooded Subgrade				20,001	
STS COR 865 Sd Swr Mnhl & 15" Sw Ln				15,001	
STS COR 873 Ex L3 DcBnk Incn Pv Ren				2,400,001	
STS COR 874 Inter Loc of MRY Dc Bk				20,001	
STS COR 875 Existing Railroad Ties				2,704	
STS COR 890 Ex Pll Box Incon Crb Rm				3,001	
STS COR 894 Ins I Bm for 3648 Shor				1,246	
STS COR 900 Ex PG&E Vlt @ Wrog Grde				30,001	
STS COR 909 PGE Gas Interruption				50,001	
STS COR 911 E SW Conf w 48" SW				15,001	
STS COR 919 Add Feather to Hg Csts				10,001	
STS COR 920 Hoist Beam Supports CP5				(1,932)	
STS COR 921 Exi Cond Clu incon/ Swr				6,001	
STS COR 924 Ovpod Con inconf Catbsn				2,869	
STS COR 926 E TS conduits conf w pa				10,001	
STS COR 927 E Gas Conf w N CB				3,001	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 929 MH Conf w SW Grout				5,001	
STS COR 930 SW Cracks Conf w Grout				5,001	
STS COR 931 Tree Removal				2,998	
STS COR 941 E Ulti Conf w 78" SW Ca				10,001	
STS COR 950 Gas Conf w N 8" AWSS				5,001	
STS COR 962 4th/King Incomp Hrdwr				34,448	
STS COR 967 Lwr Lvl Can Per SFMTA				270	
STS COR 969 Mv Stl Plts L Frm Twnsd				389	
STS COR 983 Ex Rbr in Cnflt w/ WL				2,500	
STS COR 995 E 3" Asbs Conduit Cnflt				982	
UMS COR 1025 Mezz Headwall Wale	57,494				
UMS COR 1041 Culvert Removal	585				
UMS COR 1044 Platform Lvl Headwall	75,271				
UMS COR 1047 Column Reinforcing	8,857				
UMS COR 1050 Pile Cap Reinforcing	3,627				
UMS COR 1052 Ellis Sewer Line	3,951				
UMS COR 1056 Embed Steel Plates	443				
UMS COR 1058 Obstruction at C01W	11,265				
UMS COR 1076 Unkwn Conduits & Conc	50,000				
UMS COR 1081 Abnded PG&E Conc Bnk	50,000				
UMS COR 1088 4-inch PVC Conduits	5,000				
UMS COR 1098 Fireprfing Mezz Struts	73,662				
UMS COR 110 DSC Obst. at JG Columns	2,062,420				
UMS COR 1112 8in WD Fire Service	7,500				
UMS COR 1114 TCP Install Line	0				
UMS COR 1118 Demo of PG&E Vaults	24,700				
UMS COR 1123 Fiber Optic Cable	0				
UMS COR 1124 Beam Waterproofing	0				
UMS COR 1126 Headwall Pile Reinf.	0				
UMS COR 1404 Relcate Lw Pressure FH	6,684				
UMS COR 336 Vault on Grid Line 9	1,312				
UMS COR 389 4" Steel line asbestos	951				
UMS COR 403 Waterproofing at BART	63,285				
UMS COR 687 Trant Pipe at St 134+00	497				
UMS COR 725 Seis Qu Cer for St Glze	10,738				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS COR 747 NDSC Unidnfid Con Pile	50,001				
UMS COR 790 Duct Bank Conflict	45,651				
UMS COR 798 Comp Grout Damage	50,001				
UMS COR 810 Unkn Bem @ M Macys Wall	433				
UMS COR 817 Odor at N. Concourse	100,000				
UMS COR 845 Unidntfid Conc Obstrctn	7,004				
UMS COR 883 Ventilation System FCP	0				
UMS COR 892 Escalator Raceways	492,065				
UMS COR 897 Light Pole Clar.	15,011				
UMS COR 913 Machine Room Size	0				
UMS COR 914 Glass Floor Connection	0				
UMS E Vault Conflicting Pile Line	14,576				
UMS-FACO #30 NDSC Inadequate CDF	157,462				
USG COR 1071 Excvtion Wrk Stoppage	50,000				
USG COR 1117 Steel Bracing	0				
USG COR 293 Water on N.Concourse	1,832				
USG COR 779 E WI Bm Reinf Chng	6,651				
USG COR 808 Dimensions at Escalator	0				
USG COR 998 Class 1 Hazardous Soil	200,000				
YBM COR 1026 Surf Lvl Slab Reinf Re			44,800		
YBM COR 1078 Elev Pit Depth			0		
YBM COR 1105 Unk UST in sidewalk			250,000		
YBM COR 1121 Concrete Pour Card			0		
YBM COR 825 Tunnel Segm Steel Fibers			153,380		
YBM COR 953 Added Condensate Drain			63,070		
YBM COR 960 N & S Head WI Rbr Chng			64,027		
YBM COR 989 Emrg Phn-Light Fixtures			15,570		
<b>Forecasted - Trends</b>	<b>4,691,212</b>	<b>1,702,682</b>	<b>576,324</b>	<b>288,809</b>	
<b>Negotiation</b>					
Change of date range to receive art	(10,001)				
CTS - PCC #036 (CMU Wall Bracing)		19,552			
CTS COR 1014 Invt Slb Crb or Trough		5,000			
CTS COR 1035 FHC & Phns Dsgn Cnflct		10,001			
CTS COR 1053 Elv 1&2 Mach Rm Dim		10,001			
CTS COR 1070 Pltfrm Lvl Info Kiosk		10,001			

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	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS COR 582 Monitor at Agent Booth		95,958			
CTS COR 625 Added Cane Detc Rail		1,889			
CTS COR 626 Ad HSS & Plt @ H Beam		5,130			
CTS COR 627 Add HSS Col @ Tickt Mac		3,404			
CTS COR 628 Add Beams and Embeds		8,214			
CTS COR 643 Cncrt at S Pltfrm Excvtm		10,000			
CTS COR 695 Mod to Grondng System		10,001			
CTS COR 706 Glas Canpy Trench Drain		10,001			
CTS COR 866 ATCS/Thals Sngl Pwr Sor		10,001			
CTS COR 899 Add Soil Samp & Testing		10,001			
CTS COR 917 Spriklr Hnging Method		50,001			
CTS COR 923 Esc Equip Room Size		10,001			
CTS COR 925 Cont Metal Ring		10,001			
CTS COR 947 Shtcrt Filr Line @ slry		10,001			
CTS COR 957 Egress Shft Opening		10,001			
CTS COR 961 Relocate VCP due to del		10,001			
CTS COR 966 5' TBM Segmt wdth		50,001			
CTS Delete PGE Work at Vault 732		(35,036)			
CTS PCC 001 Delete DB on Stockton		(84,018)			
CTS PCC#25 Stairs 5, 6, 7 Mods		30,387			
CTS-COR#201 Swr Line & Station Roof		46,046			
CTS-Delete Tree Planting		(3,967)			
CTS-FACO#39- Soil Testing cmPLY OAB		5,478			
CTS-PCC40 Plaza Surface Slab Pntrtn		5,525			
GEN PCC 183 Electric Power Elevator			49,186		
STS - Deletion of ARS (Revision 1)				(4,689,000)	
STS - OCS Pole Changes				12,706	
STS - PCC#28 Portal Dowels				(1,753)	
STS Comm and Elec Cabinets Relocati				67,221	
STS COR #229 Multi E Util Conf w N				8,284	
STS COR #88 Modify CBs and Culverts				4,395	
STS COR #92 PG&E Vault Conf 12 AWSS				78,074	
STS COR 067 FACO #41 GW Lead Filter				22,695	
STS COR 074 AWSS Offset/Sewer Demo				108,384	
STS COR 089 Extra Sewer Work				29,468	



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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 090 Subsurface Obstrc				20,452	
STS COR 091 PG&E Vault Conf 16" Wtr				40,001	
STS COR 093 12" Water Conf 12" Tee				5,001	
STS COR 094 Unknown DB Conf 12" Wtr				20,001	
STS COR 100 DSC Zayo PVC Conf w SW				4,082	
STS COR 1001 Deficient Comcast Cond				5,000	
STS COR 101 Cleaning for non-78" SW				58,906	
STS COR 1012 ATCS Work at SFMTA				10,001	
STS COR 1017 Increase Neoprn Pad le				5,000	
STS COR 1032 Lenox-TMC Design Cnflc				10,001	
STS COR 1038 E Unkn 18" Steel Pipe				5,000	
STS COR 1057 Rej of Traff Lght Pl S				5,001	
STS COR 1072 Raised Prtl Walkway				10,001	
STS COR 164 DSC 8" AWSS Lat Conf 78				4,077	
STS COR 211 SW conf AWSS 4th/Freelo				4,561	
STS COR 254 DSC 4" Confl w 36" FM				25,197	
STS COR 258 WD/PVC Conflict				87,511	
STS COR 367 DSC Conf w/ CP and FM				36,256	
STS COR 371 Conflicts w/ 12" AWSS				8,402	
STS COR 392 Util at 4th-Town SW MH				13,246	
STS COR 401 AWSS Layout 4th/King				31,866	
STS COR 416 Conc DB/wall/lines conf				81,783	
STS COR 447 Added Exc for SFWD POC				29,423	
STS COR 454 Addtl Conflicts w/ 8" W				91,410	
STS COR 522 Thickened Str. Stan				7,046	
STS COR 530 Tunnel Track Machine				20,064	
STS COR 533 Conc wall confl util				39,170	
STS COR 536 Util in Conf w 36" FM				66,287	
STS COR 567 Loct of Plinth Breaks				10,000	
STS COR 584 Debris confl w/ culvert				6,275	
STS COR 615 Sump Pump Pit Cover				1,064	
STS COR 621 Additional WD Exc. per				26,293	
STS COR 623 Unkn Con Structure				2,966	
STS COR 632 Omit Unist & add Anr Bt				2,180	
STS COR 633 Ligting Arrrests Signal				10,001	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 644 Wod Pier Cnf w AWSS				13,258	
STS COR 650 Asbestos conf w/ ATT DB				4,518	
STS COR 657 Tunnel Ca Bsn Dsn Chang				20,001	
STS COR 664 Threaded Dowels				10,001	
STS COR 666 Ukn Con Vlt/con N36"				10,118	
STS COR 677 Fir Supsion stnpip Mat				3,895	
STS COR 703 Tunl Wakway Expn jnts				386	
STS COR 736 Addition Rein Handholes				6,340	
STS COR 755 AWSS Material Delay				8,772	
STS COR 787 AT&T Dct Bnk InCw N 36"				35,001	
STS COR 803 SFMTA External IT Feeds				10,001	
STS COR 807 Tunnel Invret Slab				13,198	
STS COR 813 Permissive Signal				10,001	
STS COR 834 Thales ATCS TC Pwr Dist				10,001	
STS COR 852 Caltrans Encrocmnt Prmt				10,001	
STS COR 862 Tactile Warn Surf				10,001	
STS COR 880 Ex Dbk in con Ins SC				10,001	
STS COR 891 Phase 2 Pavment Renvtin				10,001	
STS COR 893 Abnd Wtr Ser @St 175+21				682	
STS COR 934 Revised Curb/Gutter				10,001	
STS COR 948 Sidewalk Elev Change				10,001	
STS COR 958 Trk Pave Change				50,001	
STS COR 965 DB conf w 8" WL and Sle				7,470	
STS COR 970 16" WL Installation				50,001	
STS COR 971 All Stns Rej of CCTV Sy				5,001	
STS COR 974 Fldng frm Brkn Wtr Mn				10,001	
STS COR 976 Ex Unkwn Mnhl & Dct Bnk				10,001	
STS COR 979 (N) CB in Conf w/ (E) V				10,001	
STS COR 98 DSC MRY MH Conf w N CB				10,001	
STS COR 981 Ex 12" WM incorr				50,000	
STS COR 987 Unkn Utl conflt w/ (N)				40,000	
STS COR 996 Prtl WI Cnflct w/ slab				25,000	
STS COR 999 E 18" Steel Pipe Confli				10,000	
STS Existing Fuel & Transite in MRY				14,101	
STS PCC 052 Deletion of ARS Pt II				(177,246)	

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	UMS	CTS	YBM	STS	COST REPORT NOTES
STS PCC 063 Del ATT/TSIC/PGE on 4th				(36,495)	
STS PCC 084 Removal of ATT DB & Vau				112,619	
STS PCC 096 4th Street SW Slip Lini				217,191	
STS PCC 117 PDS Signs Moun Brack				50,034	
STS PCC 151 LED Street Lamps				104,516	
STS Track Switch Machine Change				391,909	
STS Traffic Signal and SL Changes				298,307	
STS-FACO #48 Work Related St Lght				2,051	
UMS - DCW and Hose Bibbs	29,159				
UMS - N. Entrance Art Glass and Gla	0				
UMS - PCC #039 (12" WL Relocate)	336,359				
UMS - PCC #29 (Concrete Wale Suppt)	41,424				
UMS - PCC 027 (Escalator Barricade)	(9,227)				
UMS COR 1010 Emerg Phn Dsgn Conflic	5,000				
UMS COR 1015 Drain Line at Ellis	10,000				
UMS COR 1023 CIP Wall Reinforcing	25,385				
UMS COR 1029 Beam 95 Conn Design	10,001				
UMS COR 1036 N Concrs Drainage Conn	10,001				
UMS COR 1039 Info Kiosk Design Conf	10,001				
UMS COR 1054 Instl SD Pipe at N Cnc	10,001				
UMS COR 1063 UPS 2 Feeder Conductor	5,001				
UMS COR 1064 UPS Feeder Conductors	5,001				
UMS COR 1074 Traffic Signal Footing	10,001				
UMS COR 1101 Ellis Traffic Signal	10,001				
UMS COR 1102 New 8" WD Tie-In	40,461				
UMS COR 1110 Emrgy Str 3 & 4 Detail	10,001				
UMS COR 300 14 HDPE at Geary	(9,516)				
UMS COR 391 AT&T Duct Bank Conflict	25,001				
UMS COR 493 Steel Shape Inside Pile	25,001				
UMS COR 565 GEN Emer Vent Design	500,001				
UMS COR 579 Elevators 1-4 SFFD	41,648				
UMS COR 636 Bi-Fold Door Tube Steel	24,911				
UMS COR 660 Added Grommets at Booth	3,253				
UMS COR 661 Card Acc & Dr alm Pnts	10,001				
UMS COR 726 Beam 213 Stair Opening	48,524				

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	UMS	CTS	YBM	STS	COST REPORT NOTES
UMS COR 743 Ovrhd Bi-Fold Door SDs	10,001				
UMS COR 770 Fiil Void Sp with CDF	1,943				
UMS COR 774 Inadtqe Conc Demolition	14,172				
UMS COR 781 Uilty Trench Supp Slab	20,001				
UMS COR 789 Strs 3&4 SOE Shotcrete	10,001				
UMS COR 861 Fire Protec Deulge Vlve	10,001				
UMS COR 885 Light Pole Foundation	10,001				
UMS FACO #31 NDSC Incomplete PGE DB	165,944				
UMS FACO #38 Pile H3 & H4 Piles	15,438				
UMS FACO #45 Blocked Stubs PG&E	7,500				
UMS Geoprobe Credit	(15,600)				
UMS MRY Duct Bank-East Conflict	41,038				
UMS PCC 103 PG&E S.light at Maiden	6,831				
UMS PCC 136 Transformer in Vault 31	9,001				
UMS PCC 150 S. HW Wale Connection	26,640				
UMS PCC 153 Geary Catch Basin	(5,370)				
UMS PCC 195 Reinf. of Wall to Slab	3,947				
UMS PCC 213 Electrical at Ellis St.	(5,994)				
UMS PCC 222 Delete PG&E Conduits	(12,359)				
UMS PCC 86 Headwall Pile Conflict	8,982				
UMS Powell St. Elevator Site Hazmat	16,028				
UMS Sewer Line Conflict	744,465				
UMS Transfer Instru BART Facilities	45,280				
UMS-FACO #19 Street Light at Stock.	2,361				
UMS-Relocation of Traffic Signal Co	32,275				
USG COR 1020 Metal Deck	10,000				
USG COR 1028 CMU Wall Concrete Slab	5,000				
USG COR 1109 Plaza Conc Strs Rein	10,001				
USG COR 259 Lead Paint on Columns	87,455				
USG COR 261 8" Wall at Grid 11B	5,632				
USG COR 274 Shear Wall at Grid 10	68,945				
USG COR 365 Elevator Hoist Beam	19,692				
USG COR 415 Glass Roof Steel Elev.	10,001				
USG COR 509 Soil Nail Shotcrete Wal	1,187,172				
USG COR 652 Elev. 1 & 2 Cond. Shaft	19,895				

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USG COR 805 Fotngs 16A As Built Dim	10,001				
USG COR 882 HSS Beam Termination	10,001				
USG COR 975 N Cncrs Invert Slab Slp	5,001				
USG Door Openings in Shear Walls	41,774				
USG Hydrant Relocation on Geary St.	22,034				
USG PCC 102 Fire Horn-Strobe	44,126				
USG PCC 105 Adj to Row X and Row Y	31,108				
USG PCC 107 Light Pole Footings	7,595				
USG PCC 110 Term of Built Up Colus	79,811				
USG PCC 124 Irrigation Main	20,124				
USG PCC 127 Footing Elev Suvey Diff	13,771				
USG PCC 128 Dowls of Rbar Conn Dtls	170,189				
USG PCC 133 Sheet Metal HVAC Duct	47,102				
USG PCC 134 Temp South Wall Support	90,268				
USG PCC 141 Wtrproof & Drn at P	292,754				
USG PCC 142 Storage Light & Elect.	26,085				
USG PCC 164 GL 14 Waterproofing	68,074				
USG PCC 165 Arch. Precast Support	90,705				
USG PCC 174 Fan Trench Strut Clar.	2,430				
USG PCC 186 Bollard on Ramps	28,992				
USG PCC 31 HVAC Trench Mod.	235,133				
USG PCC 68 Ramp Barriers Handrail	37,136				
USG PCC 73 Acceleration of Work	102,203				
USG PCC 87 Tiebacks, L2, GL 14-15	219,335				
USG Removal of Existing Column	4,116				
YBM COR 1000 Added Raceway Instal			10,000		
YBM COR 1004 Fire Protection Submit			5,000		
YBM COR 1062 Elevator #3 Pit Change			10,000		
YBM COR 1106 Impediment at Pnl P-88			1,897		
YBM COR 248 Transite pipe Folsom			10,000		
YBM COR 249 Utility conflicts Folso			93,425		
YBM COR 385 PG&E Damage to Work			26,285		
YBM COR 390 Chip Mezzanine Headwall			64,107		
YBM COR 485 Chip Concourse Headwall			39,436		
YBM COR 564 Concrete Encased PG&E			140,346		

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	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM COR 705 Del bems & Embds/Ven sh			(17,893)		
YBM COR 711 Conduit for AC Swichgea			7,209		
YBM COR 732 Rstroom Fclty Wall Revs			10,001		
YBM COR 838 Abrasive Stair Nosing			19,807		
YBM COR 841 Design Chng Stair 1 run			7,638		
YBM COR 848 Chip Invert Headwall			10,663		
YBM COR 86 AT&T Side Sewer Conflict			159,477		
YBM COR 939 Broken Water Dept. Line			25,000		
YBM COR 949 Escalator Raceways			2,500		
YBM PCC 061 Escalator Pit Provision			46,809		
YBM PCC 131 Add Rec Room CN316			2,535		
YBM PCC 138 Add Rec Room SU310			1,535		
YBM PCC 159 PG&E Ductbank Changes			(3,560)		
YBM PCC 171 Additional PTZ CCTV			5,063		
YBM PCC 182 Primers & Vents for FDs			21,843		
YBM PCC 202 YBM Mezz Light Fixtures			88,784		
YBM PCC 208 Added Conduits Invert			15,349		
YBM PCC 209 Tract Power GRS Downsiz			(19,280)		
YBM PCC 21 Delete Instrument & Monit			(50,195)		
YBM PCC 214 FHC and AR Phones			12,288		
YBM PCC 41 Install #7 Box Clementin			(12,171)		
YBM PCC 69 SW Bulb-out at Stair#1			101,733		
YBM PCC 76 AWSS, SSFM, WM Design			245,915		
YBM PCC 79 Install 12in WM to Howar			243,022		
YBM PCC 82 Delete Scope Due to Hote			(39,025)		
YBM PCC 85 Ticketing Hall Changes			57,586		
YBM PCC 99 Art Glass Changes			34,040		
<b>Proposed Contract Change (PCC)</b>					
CTS PCC 067 Wall Shift North Access		(1,097)			
CTS PCC 083 Switchgear Breakers		30,001			
CTS PCC 104 Water Leak NE HH		20,001			
CTS PCC 119 Pltform Lvl Wall Art In		(10,001)			
CTS PCC 120 Prov Cond-Lft-net System		0			
CTS PCC 135 Esc 5/6 Addl Supp Locs		10,001			
CTS PCC 167 Drn for Glis Canopy on E		5,001			

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	UMS	CTS	YBM	STS	COST REPORT NOTES
CTS PCC 169 JT, SW and PG&E Changes		10,001			
CTS PCC 170 Add 2 Gate Vlvs Stockton		31,001			
CTS PCC 178 Add Beams and Embeds		1			
CTS PCC 179 Added Gromets		1			
CTS PCC 180 Extra WD Work for 12" L		1			
CTS PCC 204 Shrnk Ft Prnt Emer Shft		0			
CTS PCC 207 SEM Sequencing Changes		0			
CTS PCC 231Door Hardware		8,000			
CTS PCC 98 Slurry Wall Wr Proofing		20,001			
GEN PCC 168R Swing Gates Attachment			9,000		
GEN PCC 189 Anti-Graffiti Film			200,001		
GEN PCC 33R End Platform Gate Revisi			57,403		
STS PCC 095 Frame/Grate Change				(50,001)	
STS PCC 114 Rev1 Stdpipe & Cond				30,001	
STS PCC 121 PG&E Pnts Streetlightig				242,370	
STS PCC 160 ATCS Change Reverse Run				400,001	
STS PCC 161 Delete Plat ESPBs				0	
STS PCC 188 ATCS Pwr Src at CTS				1	
STS PCC 206 Replace CCTV equipment				0	
STS PCC 224 Addn'l Water Line Work				50,000	
STS PCC 226 Axle Counter Boxes				41,602	
STS PCC 227 Paving for Temp Roadway				20,000	
UMS Jet Grout at O'Farrell	35,001				
UMS Locate PG&E Conduits	20,001				
UMS MRY Duct Bank-West	54,981				
UMS PCC 118 Elevator Hoist Beams	0				
UMS PCC 122 Drain Piping Details	332,252				
UMS PCC 181 Plaza ADA Enhancements	7,500				
UMS PCC 193 Lightbox & Glazed Door	21,000				
UMS PCC 198 Ellis Deck Vertical Joi	0				
UMS PCC 212 Trouble Lights	(10,000)				
UMS PCC 215 Rmv Conduits in Casing	0				
UMS PCC 216 Waterproofing Drainage	0				
UMS PCC 225 Add Two S.S. Enclosures	0				
UMS PCC 228 Added 2"x4" conduits	5,000				

**Contract Modification/Trend Log - Contract 1300 Stations**

<b>Awarded NTE Amount</b>	<b>\$839,676,400</b>	<b>\$846,762,214</b>
<b>Substantial Completion</b>	<b>2/10/2018</b>	<b>2/10/2018</b>

	<b>UMS</b>	<b>CTS</b>	<b>YBM</b>	<b>STS</b>	<b>COST REPORT NOTES</b>
UMS PCC 71 Rerouting of Slab Drains	(12,866)				
UMS PCC 93 Ellis Deck Seismic Joint	10,001				
UMS PCC 94 Clean out MRY Ductbank	18,060				
UMS Preload Rqmt for Concourse Level	10,001				
UMS_CTS_YBM PCC 166 Escalator Req's	0				
USG PCC 101 Elev. Machine Rooms	10,000				
USG PCC 106 Edge of Slab for 8" Conn	10,001				
USG PCC 108 Con Wok chges du to DSC	10,001				
USG PCC 109 Rein Dtls for Struc Con	10,001				
USG PCC 111 Conc Cemo & Rev Con Dtl	10,001				
USG PCC 112 Glass Walk Roof System	10,001				
USG PCC 113 Elv/Esc Pit Floor Slope	10,001				
USG PCC 116 Demo Column, Const Beam	14,644				
USG PCC 123 South Wall Ground Beams	4,001				
USG PCC 125 Foot,SOG & Str St Chang	50,001				
USG PCC 129 Escalator Work Point	75,000				
USG PCC 143 Wall Conn, at GL 10/B	0				
USG PCC 144 Conc. Finishing/Repairs	150,000				
USG PCC 147 Geary Streetlight	10,000				
USG PCC 154 Trench Drain at 17 Line	1,000				
USG PCC 155 16-D Footing Demoltion	18,000				
USG PCC 156 CMU Footings	25,000				
USG PCC 157 Plaza Level Vent Shaft	0				
USG PCC 158 Elev. Pit CDF Backfill	0				
USG PCC 175 Drainage Under Slab	0				
USG PCC 185 Wall at Line 10 and Hyd	0				
USG PCC 190 Plaza Level Slab Detail	5,000				
USG PCC 191 Column 14 A Changes	2,500				
USG PCC 197 Precast Planter Pots	8,650				
USG PCC 199R-1 Delete Bm and Plntrs	5,000				
USG PCC 89 E. Light Pole Foundation	2,501				
YBM PCC 126R Changes to Kiosks			50,000		
YBM PCC 132 Raise Pit Floor Elev 4			60,000		
YBM PCC 140 Stair 3, Escalators 1&2			20,000		
YBM PCC 145 Stair 7/Escalators 3, 4			20,000		



**Contract Modification/Trend Log - Contract 1300 Stations**

<b>Awarded NTE Amount</b>	<b>\$839,676,400</b>	<b>\$846,762,214</b>
<b>Substantial Completion</b>	<b>2/10/2018</b>	<b>2/10/2018</b>

	UMS	CTS	YBM	STS	COST REPORT NOTES
YBM PCC 148 Elev.3, 4 Hoist Beam MP			40,000		
YBM PCC 152R1 Elevator 1 & 2 changes			100,000		
YBM PCC 162 Deluge Valve Door			25,000		
YBM PCC 187R Escal. 1-4 HVAC changes			20,000		
YBM PCC 210 Elev 1&2 MRL to Hydraul			(5,000)		
YBM PCC 37 SFAC Node Sculpture			50,797		
YBM PCC 56 OCS Pole Foundations			551		
YBM PCC 59 Pavers Basis of Design			7,516		
YBM PCC 91 Concourse Beam Revision			15,000		
YBM PCC 97 Change Concourse Opening			8,020		
<b>Approved</b>	<b>2,188,335</b>	<b>2,964,460</b>	<b>57,052</b>	<b>1,875,966</b>	
<b>Contract Modification</b>					
CMod #1 BART Elevator Option 1 @ Pow	90,000				
Cmod #10 YBM PCC 042			64,287		
CMod #11 UMS PCC 002	12,997				
CMod #12 STS Traffic Control				1,032,302	
CMod #13 CTS COR 006		57,707			
CMod #14 YBM COR 036, 078			58,526		
CMod #15 YBM COR 196			3,178		
CMod #16 UMS COR 184	8,261				
CMod #17 CTS CORs 001 053 & 069		54,322			
CMod #18 CTS PCC 012		60,248			
CMod #19 CTS COR 007, 026		2,274,225			
CMod #20 YBM PCC 047 and 45			364,562		
CMod #21 STS CORs 48/52/114/233/252				18,221	
CMod #22 UMS PCC 045, 046	16,198				
CMod #23 UMS PCC 058	63,838				
CMOD #24 STS PCC 23				108,053	
CMod #25 - Various CORs			59,113		
CMod #26 YBM COR 072			84,509		
CMod #27 UMS PCC 092	0				
CMod #28 CTS PCC 017.1		97,743			
CMod #29 STS PCC 009.1				(143,668)	
CMod #3 CTS Work Safely Ard Power Po		25,956			
CMod #30 YBM Various CORs			334,165		

**Contract Modification/Trend Log - Contract 1300 Stations**

**Awarded NTE Amount  
Substantial Completion**

**\$839,676,400  
2/10/2018**

**\$846,762,214  
2/10/2018**

	<b>UMS</b>	<b>CTS</b>	<b>YBM</b>	<b>STS</b>	<b>COST REPORT NOTES</b>
CMod #31 UMS COR 595	53,701				
CMod #32 YBM Various PCCs			92,934		
CMod #33 CTS Various CORs		56,422			
CMod #34 CTS Various CORs		19,334			
CMod #35 STS PCC 077				11,147	
CMod #36 YBM Conflict with Waterline			14,484		
CMod #37 CTS Various CORs		8,886			
CMod #38 STS Various CORs				52,553	
CMod #39 UMS Various CORs	23,271				
CMod #4 CTS-Force Account Change Or		130,000			
CMod #40 YBM Analytical Soil Test			3,655		
CMod #41 YBM Class 2 Conta. Material			40,250		
CMod #42 UMS Addl. Service Conduits	36,873				
CMod #43 UMS D85 Structural Pile	65,188				
CMod #44 UMS Grade 50 Steel	572,884				
CMod #46 YBM/CTS/UMS S.walk Hatches			35,489		
CMod #47 UMS Roof Deck Schedule	76,124				
CMod #48 UMS Undgrnd. Storage Tanks	97,817				
CMod #49 STS DSC CORs				136,728	
CMod #5 YBM Deletion of Comp Groutin			(1,833,869)		
CMod #50 STS DSC CORs				67,036	
CMod #51 YBM Various CORs and PCCs			24,875		
CMod #52 YBM Undgrnd. Storage Tanks			167,393		
CMod #53 STS DSC CORs				17,035	
CMod #54 UMS USG Underpinning	732,157				
CMod #55 YBM Archeological Discovery			102,734		
CMod #56 YBM Contaminated Material			106,923		
CMod #57 STS Crossover Materials				21,245	
CMod #58 STS DSC CORs				90,081	
CMod #59 CTS DSC CORs		66,592			
CMod #6 CTS Plaza Constr Supt Servi		75,000			
CMod #60 UMS USG Two Fuel Tanks	61,312				
CMod #61 YBM Various CORs			207,181		
CMod #62 UMS Wales and Waterproofing	277,714				
CMod #63 CTS DSC CORs		38,025			

**Contract Modification/Trend Log - Contract 1300 Stations**

<b>Awarded NTE Amount</b>	<b>\$839,676,400</b>	<b>\$846,762,214</b>
<b>Substantial Completion</b>	<b>2/10/2018</b>	<b>2/10/2018</b>

	<b>UMS</b>	<b>CTS</b>	<b>YBM</b>	<b>STS</b>	<b>COST REPORT NOTES</b>
CMod #64 STS DSC CORs and SFWD				52,570	
Cmod #7 STS FACOs 016, 017 &COR 009				80,170	
Cmod #8 STS PCC 006 ATT MH, PB&Trench				225,208	
CMod #9 YBM COR 10,15,16,18,20,25			126,663		
CMod #45 STS PCC 008 Tunnel Lowering				107,285	
<b>Grand Total</b>	<b>17,494,259</b>	<b>9,889,311</b>	<b>3,321,247</b>	<b>5,121,276</b>	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: April 2017

		March 2017			April 2017				
Group by Contract & SCC	CATEGORY ITEM	March 2017 Base	March 2017 Allocated Contingency	March 2017 Base + Allocated Contingency (YOE)	April 2017 Base	April 2017 Allocated Contingency	April 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [March 2017] vs. [April 2017]	Cost Report Notes
10-50	<b>CONSTRUCTION CONTRACT PACKAGES</b>	<b>1,147,177,627</b>	<b>34,870,876</b>	<b>1,182,048,503</b>	<b>1,147,177,627</b>	<b>34,870,876</b>	<b>1,182,048,503</b>	<b>0</b>	
1250	UTILITY RELOCATION PACKAGE #1	12,134,906		12,134,906	12,134,906		12,134,906	0	
	Contract 1250 Form B Credit	(2,275,419)		(2,275,419)	(2,275,419)		(2,275,419)	0	
1251	UTILITY RELOCATION PACKAGE #2	20,870,197		20,870,197	20,870,197		20,870,197	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	235,078,785	834,715	235,913,500	235,078,785	834,715	235,913,500	0	29
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
<b>1300</b>	<b>CN1300 STATIONS TOTAL</b>	<b>846,800,239</b>	<b>32,876,161</b>	<b>879,676,400</b>	<b>846,800,239</b>	<b>32,876,161</b>	<b>879,676,400</b>	<b>0</b>	30
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	296,218,925	17,811,665	314,030,590	296,218,925	17,811,665	314,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	250,570,295	6,997,515	257,567,810	250,570,295	6,997,515	257,567,810	0	
	CTS 1254 Form B Credit	(451,703)		(451,703)	(451,703)		(451,703)	0	
1255: YBM	YERBA BUENA/ MOSCONE STATION [YBM]	158,146,052	4,942,949	163,089,001	158,146,052	4,942,949	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	141,864,966	3,124,033	144,988,999	141,864,966	3,124,033	144,988,999	0	
	STS 1256 SFPUC SEWER MAIN CREDIT	(2,925,296)		(2,925,296)	(2,925,296)		(2,925,296)	0	
	STS 1256 Form B Credit	(1,000,000)		(1,000,000)	(1,000,000)		(1,000,000)	0	
<b>OTHER</b>	<b>OTHER CONSTRUCTION TOTAL</b>	<b>47,446,751</b>	<b>1,160,000</b>	<b>48,606,751</b>	<b>47,446,751</b>	<b>1,160,000</b>	<b>48,606,751</b>	<b>0</b>	
40.06	PUBLIC ART PROGRAM	8,175,555	1,160,000	9,335,555	8,175,555	1,160,000	9,335,555	0	
40.08	CN1300 JOB READINESS PROGRAM - OUTREACH	1,060,000		1,060,000	1,060,000		1,060,000	0	31
40.02	MISC. CONSTR CONTRCT WK (TRACTION POWER FOR 1251)	258,202		258,202	258,202		258,202	0	
40.01	CONTRACT 1300 SOIL PROCESS	500,000		500,000	500,000		500,000	0	32
50.01	TEMPORARY LICENSE AGREEMENT (ATCS CENTRAL CONTROL)	487,972		487,972	487,972		487,972	0	
50.06	MTA FARE COLLECTION EQUIPMENT	5,400,000		5,400,000	5,400,000		5,400,000	0	
50.06	BART FARE COLLECTION EQUIPMENT	700,000		700,000	700,000		700,000	0	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: April 2017

		March 2017			April 2017				
Group by Contract & SCC	CATEGORY ITEM	March 2017 Base	March 2017 Allocated Contingency	March 2017 Base + Allocated Contingency (YOE)	April 2017 Base	April 2017 Allocated Contingency	April 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [March 2017] vs. [April 2017]	Cost Report Notes
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	18,088,750		18,088,750	18,088,750		18,088,750	0	
40.02	PUBLIC AGENCIES UTILITY COORDINATION	3,713,215		3,713,215	3,713,215		3,713,215	0	
40.02	DEPARTMENT OF PARKING AND TRAFFIC (DPT)	1,200,000		1,200,000	1,200,000		1,200,000	0	
50.03	UNION SQUARE/ MARKET STREET STATION POWER FEED	2,959,826		2,959,826	2,959,826		2,959,826	0	
50.03	UNION SQUARE/ MARKET STREET STATIONS PERMANENT POWER	(2,350,000)		(2,350,000)	(2,350,000)		(2,350,000)	0	
50.03	CHINATOWN STATION POWER FEED	2,959,826		2,959,826	2,959,826		2,959,826	0	
50.03	CHINATOWN STATION PERMANENT POWER	(2,350,000)		(2,350,000)	(2,350,000)		(2,350,000)	0	
50.03	YERBA BUENA/ MOSCONE STATION [YBM] POWER FEED	3,125,222		3,125,222	3,125,222		3,125,222	0	
50.03	YERBA BUENA/ MOSCONE STATION [YBM] PERMANENT POWER	(2,368,540)		(2,368,540)	(2,368,540)		(2,368,540)	0	
50.03	SURFACE STATION POWER FEED	11,839		11,839	11,839		11,839	0	
50.04	COMMUNICATION CONNECTION COSTS	5,757,629		5,757,629	5,757,629		5,757,629	0	
60	<b>ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>32,246,321</b>	<b>0</b>	<b>32,246,321</b>	<b>32,246,321</b>	<b>0</b>	<b>32,246,321</b>	<b>0</b>	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	0	30,065,810	30,065,810	0	30,065,810	0	33
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	<b>VEHICLES</b>	<b>13,309,000</b>	<b>13,076,653</b>	<b>26,385,653</b>	<b>13,309,000</b>	<b>13,076,653</b>	<b>26,385,653</b>	<b>0</b>	
70.01	LIGHT RAIL	13,309,000	13,076,653	26,385,653	13,309,000	13,076,653	26,385,653	0	34
70.07	SPARE PARTS								
80	<b>PROFESSIONAL SERVICES</b>	<b>310,518,041</b>	<b>18,221,079</b>	<b>328,739,120</b>	<b>310,518,041</b>	<b>18,221,079</b>	<b>328,739,120</b>	<b>0</b>	
80.01	PRELIMINARY ENGINEERING	46,202,674		46,202,674	46,202,674		46,202,674	0	
80.02	FINAL DESIGN	61,318,331		61,318,331	61,318,331		61,318,331	0	
80.03	PROJECT MANAGEMENT FOR DESIGN & CONSTRUCTION	89,012,544	13,905,845	102,918,389	89,012,544	13,905,845	102,918,389	0	

7.6 BUDGET REVISIONS: REPORT SORTED BY CONSTRUCTION PACKAGES & SOFT COSTS

Report Period: April 2017

		March 2017			April 2017				
Group by Contract & SCC	CATEGORY ITEM	March 2017 Base	March 2017 Allocated Contingency	March 2017 Base + Allocated Contingency (YOE)	April 2017 Base	April 2017 Allocated Contingency	April 2017 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [March 2017] vs. [April 2017]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	91,096,881	2,956,812	94,053,693	91,096,881	2,956,812	94,053,693	0	
80.05	INSURANCES	6,800,000		6,800,000	6,800,000		6,800,000	0	
80.06	LEGAL: PERMITS. REVIEW FEES BY OTHER AGENCIES	8,212,604		8,212,604	8,212,604		8,212,604	0	
80.07	SURVEYS, TESTING, INVESTIGATION. INSPECTION	933,100		933,100	933,100		933,100	0	
80.08	START-UP	6,941,907	1,358,422	8,300,329	6,941,907	1,358,422	8,300,329	0	
	<b>ALL SCC CATEGORIES 10 TO 80</b>	<b>1,503,250,989</b>	<b>66,168,608</b>	<b>1,569,419,597</b>	<b>1,503,250,989</b>	<b>66,168,608</b>	<b>1,569,419,597</b>	<b>0</b>	35
90	<b>UNALLOCATED CONTINGENCIES</b>			<b>8,880,405</b>			<b>8,880,405</b>		36
	<b>TOTAL PROJECT COST 10 TO 100</b>			<b>1,578,300,002</b>			<b>1,578,300,002</b>		
	<b>TOTAL CONTINGENCY</b>			75,049,013			75,049,013		
	<b>CONTINGENCY MINIMUM</b>			60,000,000			60,000,000		
	<b>BELOW OR ABOVE MINIMUM</b>			<b>15,049,013</b>			<b>15,049,013</b>		

COST STATUS BY CATEGORY	SCC CODES	Supplemental 2013 Budget/Original Budget	BUDGET March 2017	BUDGET TRANSFERS	BUDGET April 2017	April 2017 CTD	Remaining Budget (Column F - Column G)	April 2017 EAC	April 2017 Contingency
CONSTRUCTION	SCC 010 - 050	1,181,616,010	1,182,048,504	0	1,182,048,504	774,513,506	407,534,998	1,174,990,535	34,870,876
REAL ESTATE	SCC 060	37,511,799	32,246,321	0	32,246,321	30,731,521	1,514,800	32,246,321	
VEHICLES	SCC 070	26,385,653	26,385,653	0	26,385,653	2,147,782	24,237,871	13,309,000	13,076,653
PRELIM ENGINEERING	SCC 080.01	46,202,673	46,202,674	0	46,202,674	46,202,675	(1)	46,202,674	
FINAL DESIGN	SCC 080.02	61,137,604	61,318,331	0	61,318,331	61,199,308	119,023	61,318,331	
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	197,146,664	196,972,082	0	196,972,082	132,634,856	64,337,226	180,109,425	16,862,657
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,416,118	24,246,033	0	24,246,033	11,549,822	12,696,211	22,887,611	1,358,422
UNALLOC CONTINGENCY	SCC 090	3,883,480	8,880,402	0	8,880,402		8,880,402		8,880,402
<b>Grand Total</b>		<b>1,578,300,000</b>	<b>1,578,300,000</b>	<b>0</b>	<b>1,578,300,000</b>	<b>1,058,979,469</b>	<b>519,320,531</b>	<b>1,531,063,897</b>	<b>75,049,010</b>

SCC DESCRIPTION	April 2017 BUDGET	April 2017 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	382,500
010.06-Guideway: Underground cut & cover	69,816,407	62,168,677
010.07-Guideway: Underground tunnel	201,340,746	155,878,646
010.09-Track: Direct fixation	6,761,089	2,822,916
010.12-Track: Special (switches, turnouts)	4,449,637	2,618,600
020.01-At-grade station, stop, shelter, mall, terminal, platform	7,602,857	1,432,988
020.02-Aerial station, stop, shelter, mall, terminal, platform	3,124,033	0
020.03-Underground station, stop, shelter, mall, terminal, platform	555,208,217	324,650,530
020.07-Elevators, escalators	21,701,837	3,885,848
040.01-Demolition, Clearing, Earthwork	12,355,615	11,623,680
040.02-Site Utilities, Utility Relocation	60,149,573	63,476,165
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	7,452,221	4,674,185
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	619,100
040.05-Site structures including retaining walls, sound walls	2,706,431	2,706,431
040.06-Pedestrian / bike access and accommodation, landscaping	9,790,995	2,421,454
040.07-Automobile, bus, van accessways including roads, parking lots	6,579,099	3,534,414
040.08-Temporary Facilities and other indirect costs during construction	113,781,537	106,665,303
050.01-Train control and signals	28,031,423	7,284,419
050.02-Traffic signals and crossing protection	12,562,529	9,394,880
050.03-Traction power supply: substations	21,465,073	6,667,077
050.04-Traction power distribution: catenary and third rail	12,441,113	1,423,189
050.05-Communications	12,030,586	182,503
050.06-Fare collection system and equipment	6,100,000	0
050.07-Central Control	2,614,586	1
060.01-Purchase or lease of real estate	30,065,810	28,322,091
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	26,385,653	2,147,782
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,199,308
080.03-Project Management for Design and Construction	102,918,389	67,682,823
080.04-Construction Administration & Management	94,053,693	64,952,034
080.05-Professional Liability and other Non-Construction Insurance	6,800,000	6,340,196
080.06-Legal; Permits; Review Fees by other agencies, cities, etc.	8,212,604	4,377,921
080.07-Surveys, Testing, Investigation, Inspection	933,100	831,706
080.08-Start up	8,300,329	0
090.00-Unallocated Contingency	8,880,402	
<b>Grand Total</b>	<b>1,578,300,000</b>	<b>1,058,979,469</b>



SCC DESCRIPTION	April 2017 BUDGET	April 2017 CTD
010 - GUIDEWAY & TRACK ELEMENTS	285,227,879	223,871,338
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	587,636,944	329,969,366
040 - SITEWORK & SPECIAL CONDITIONS	213,938,370	195,720,733
050 - SYSTEMS	95,245,311	24,952,069
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,731,521
070 - VEHICLES (number)	26,385,653	2,147,782
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	328,739,120	251,586,661
090 - UNALLOCATED CONTINGENCY	8,880,402	
<b>Grand Total</b>	<b>1,578,300,000</b>	<b>1,058,979,469</b>

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
<b>TOTAL PRELIMINARY ENGINEERING</b>	<b>46,542,061</b>	<b>46,542,061</b>	<b>0</b>	<b>0</b>	<b>46,542,061</b>	<b>0</b>	37
11 - SFMTA PROJECT MANAGEMENT	8,800,164	8,253,957	0	0	8,253,957	546,208	38
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	39
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	935,451	802,883	0	0	802,883	132,568	
21 - ARTS COMMISSION	1,500,570	1,500,570	0	0	1,500,570	0	40
22 - FIRE DEPARTMENT	33,825	33,825	0	0	33,825	0	
23 - CITY ATTORNEY'S OFFICE	1,234,754	1,234,754	0	0	1,234,754	0	
24 - RISK MANAGEMENT	0	0	0	0	0	0	
26 - PLANNING	99,604	99,604	0	0	99,604	0	
27 - DEPARTMENT OF PUBLIC HEALTH (DPH)	4,420	4,420	0	0	4,420	0	
29 - CITY AUDITOR	336,735	336,735	0	0	336,735	0	41
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,322,887	3,336,432	0	0	3,336,432	(13,545)	
34 - DPW - IDC CONSTRUCTION (CAPTITAL)	17,462	17,462	0	0	17,462	0	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	76,549	76,549	0	0	76,549	0	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	13,993	13,993	0	0	13,993	0	
51 - 821 HOWARD STREET	1,005,653	1,005,653	0	0	1,005,653	0	
55 - 651 BRANNAN	2,294,910	2,294,910	0	0	2,294,910	0	42
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	43
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	44
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	45
68 - ARTHUR GALLAGER & CO. CS 164	6,800,000	6,340,196	0	0	6,340,196	459,804	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	5,469,336	5,469,336	0	0	5,469,336	0	46
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	47
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	0	0	11,432,312	0	48
331 - BAY AREA RAPID TRANSIT (BART)	146,427	146,427	0	0	146,427	0	
332 - SAN FRANCISCO COUNTY TRANSPORTATION AUTHORITY (SFCTA)	0	0	0	0	0	0	
<b>TOTAL FINAL DESIGN</b>	<b>115,075,988</b>	<b>113,950,952</b>	<b>0</b>	<b>0</b>	<b>113,950,952</b>	<b>1,125,035</b>	
11 - SFMTA PROJECT MANAGEMENT	15,589,933	9,056,986	196,261	319,022	9,376,008	6,213,925	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	15,589,933	9,056,986	196,261	319,022	9,376,008	6,213,925	
12 - SFMTA ENGINEERING SERVICES	2,923,582	2,463,690	6,025	3,508	2,467,198	456,384	
1.3.012.02.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1252	123,582	57,648	0	0	57,648	65,934	
1.3.012.06.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT 1300	2,800,000	2,406,042	6,025	3,508	2,409,550	390,450	
13 - SFMTA CONSTRUCTION MANAGEMENT	37,118,350	12,803,964	217,321	329,823	13,133,787	23,984,563	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	37,118,350	12,803,964	217,321	329,823	13,133,787	23,984,563	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	1,974,676	28,608	37,020	2,011,696	2,048,646	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	86,773	363	0	86,773	212,827	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	74,334	363	5,728	80,062	194,838	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	122,773	2,802	3,570	126,343	112,057	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	230,498	7,399	3,707	234,205	642,671	

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	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)	
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000	
1.3.016.08.040.08 - DPT:PCOS:2UTL [68A]	400,728	400,728	0	0	400,728	0	
1.3.016.08.040.08 - DPT:SSD CN:2UTL	0	108,020	0	0	108,020	(108,020)	
1.3.016.08.080.04 - DPT:SSD [1326]	252,536	252,536	0	0	252,536	0	
1.3.016.08.080.04 - DPT:SSD [13BN]	23,302	23,302	0	0	23,302	0	
1.3.016.08.080.04 - DPT:SSD [13CN]	963	963	0	0	963	0	
1.3.016.08.080.04 - DPT:SSD [B85]	92,008	92,008	0	0	92,008	0	
1.3.016.03.040.08 - PCOS:1300/UMS [68CPT544132W.CPT544132W]	0	161,753	0	0	161,753	(161,753)	
1.3.016.05.040.08 - PCOS:1300/YBM [68CPT544132Y.CPT544132Y]	0	4,052	0	0	4,052	(4,052)	
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	211,210	17,681	24,014	235,224	(235,224)	
17 - MOTIVE POWER	2,195	0	0	0	0	2,195	
1.3.017.07.040.02 - PWR:SFMTA-MOTIVE POWER-UTL.REL	2,195	0	0	0	0	2,195	
18 - SFMTA OPERATIONS	400,000	39,495	0	0	39,495	286,974	
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	26,469	0	0	26,469	73,531	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	300,000	13,026	0	0	13,026	286,974	
19 - OTHER SFMTA	700,000	944,829	0	0	944,829	(244,829)	
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	1,800	714	0	0	714	1,086	
1.3.019.08.040.08 - OTH.MTA 1251 MATERIALS	150,000	126,149	0	0	126,149	23,851	
1.3.019.08.080.07 - OTH.MTA OPERATION SUPPORT DUR1	548,200	817,966	0	0	817,966	(269,766)	
21 - ARTS COMMISSION	12,010,885	3,008,458	12,151	57,464	3,065,922	8,944,964	
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION COSTS	4,772,555	0	0	0	0	4,772,555	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [1227]	2,020,290	388,167	0	0	388,167	1,632,123	49
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441227]	21,000	12,465	0	0	12,465	8,535	
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	538,092	543,248	5,156	27,081	570,329	(32,237)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.CPT5441327]	5,418	5,418	0	0	5,418	0	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT5441327]	4,439	4,439	0	0	4,439	0	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPT5441327]	1,500,000	1,393,660	0	0	1,393,660	106,340	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPT5441327]	1,903,000	661,060	6,995	30,383	691,444	1,211,556	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [132J]	86,091	0	0	0	0	86,091	
1.3.021.97.040.06 - ARTS:ARTS COMMISSION ALLOC CO	1,160,000	0	0	0	0	1,160,000	
23 - CITY ATTORNEY'S OFFICE	2,171,781	1,282,942	0	73,013	1,355,955	815,826	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	1,282,942	0	73,013	1,355,955	815,826	
25 - PUBLIC UTILITIES COMMISSION SEWER	(2,925,296)	0	0	0	0	(2,925,296)	
1.3.025.09.040.02 - STS.1256: SITE UTILITIES SFPUC SEWER MAIN	(2,925,296)	0	0	0	0	(2,925,296)	
26 - PLANNING	137,062	25,918	0	0	25,918	111,144	
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	25,918	0	0	25,918	111,144	
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	3,201,323	33,335	82,092	3,283,415	958,597	
1.3.028.02.040.02 - CM:CTYCO-PUBLIC UTIL COMM. (PUC)	0	4,745	0	0	4,745	(4,745)	
1.3.028.02.040.08 - PUC: FIELD OPERATIONS TUNNEL	398,400	508,800	0	0	508,800	(110,400)	
1.3.028.02.080.04 - PUC:MTA CSP CN1252 [470465]	105,000	91,587	0	0	91,587	13,413	
1.3.028.03.040.02 - PUC:CDD CONTRACT 1300/UMS SUPPORT	606,354	179,765	2,393	3,890	183,656	422,698	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	32,947	357	0	32,947	197,053	

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1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	174,452	195	1,165	175,616	96,139	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	18,453	2,687	3,448	21,900	93,100	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	342,903	4,516	0	342,903	107,379	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	51,709	1,909	4,468	56,177	127,823	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	225,079	0	0	225,079	0	
1.3.028.07.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1250	248,035	291,501	0	0	291,501	(43,466)	
1.3.028.07.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1250	74,468	113,844	0	0	113,844	(39,376)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRACT 1251 [445]	340,310	318,130	0	0	318,130	22,180	
1.3.028.08.080.04 - PUC:PUC CMB INSPECTION CONTRACT 1251	266,252	289,424	0	0	289,424	(23,172)	
1.3.028.09.040.02 - PUC:CMB CONTRACT 1300/STS SUPPORT	520,077	383,316	12,719	55,352	438,668	81,409	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	174,670	8,558	13,769	188,438	18,562	
<b>32 - DPW - IDC ENGINEERING (HYDRAULIC)</b>	<b>1,150,459</b>	<b>228,237</b>	<b>3,540</b>	<b>3,541</b>	<b>231,779</b>	<b>796,015</b>	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE) [AB12]	(285,405)	(285,405)	0	0	(285,405)	0.00	
1.3.032.03.080.04 - DPW IDC HYDRAULIC CN1300 UMS SUPPORT	297,938	26,141	635	1,483	27,623	270,315	
1.3.032.04.080.04 - DPW IDC HYDRAULIC CN1300 CTS SUPPORT	295,639	22,125	0	0	22,125	273,514	
1.3.032.05.080.04 - DPW IDC HYDRAULIC CN1300 YBM SUPPORT	301,882	32,093	1,591	376	32,469	269,413	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112]	85,275	85,275	0	0	85,275	0.00	50
1.3.032.06.080.04-1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112]	109,658	109,658	0	0	109,658	0.00	51
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112]	15,791	15,791	0	0	15,791	0.00	52
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112]	11,193	11,193	0	0	11,193	0	53
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112]	107,798	107,798	0	0	107,798	0	54
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112]	21,690	47,917	0	0	47,917	(26,227)	55
1.3.032.08.080.04 - DPW.HYRDDPW-BOE IDC ENG SVC DC	9,000	0	0	0	0	9,000	
1.3.032.09.080.04 - DPW IDC HYDRAULIC CN1300 STS SUPPOR	180,000	55,652	1,314	1,683	57,335	122,665	
<b>34 - DPW - IDC CONSTRUCTION (CAPITAL)</b>	<b>6,703,969</b>	<b>6,032,182</b>	<b>48,470</b>	<b>75,398</b>	<b>6,107,580</b>	<b>596,389</b>	
1.3.034.01.080.04 - DPW:BCM LABOR [2113]	2,140,142	2,140,142	0	0	2,140,142	0	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [CD12]	1,207,603	1,207,603	0	0	1,207,603	0	
1.3.034.02.080.04 - DPW:CONSTR:1252 CM [13AC12]	138,397	138,397	0	0	138,397	0	
1.3.034.06.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [132112]	506,858	506,858	0	0	506,858	0	
1.3.034.06.080.04 - DPW:CONSTR:1300 CM [13CP12]	2,710,969	2,039,182	48,470	75,398	2,114,580	596,389	
<b>36 - DPW - BSM INFRASTRUCTURE (MAPPING)</b>	<b>465,562</b>	<b>111,741</b>	<b>0</b>	<b>0</b>	<b>111,741</b>	<b>353,821</b>	
1.3.036.01.080.04 - DPW:MPPG:DPW-BUREAU OF ST USE	367,129	32,680	0	0	32,680	334,449	
1.3.036.02.080.04 - DPW:MPPG:1300-DPW-BUREAU OF ST USE [13CG12]	50,000	33,084	0	0	33,084	16,916	
1.3.036.02.080.06 - DPW:MPPG:DPW-BUREAU OF ST USE [13CF]	48,433	45,977	0	0	45,977	2,456	
<b>37 - DPW - PCS MATERIAL TESTING LABORATORY</b>	<b>83,100</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>83,100</b>	
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100	
<b>39 - DPW - PCS SITE ASSESSMENT &amp; REMEDIATION (SAR)</b>	<b>613,853</b>	<b>435,426</b>	<b>0</b>	<b>0</b>	<b>435,426</b>	<b>178,427</b>	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2213]	92,459	92,459	0	0	92,459	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2250]	78,400	78,400	0	0	78,400	0	
1.3.039.01.080.04 -DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2257]	151,515	151,515	0	0	151,515	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [2313]	24,343	24,343	0	0	24,343	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION	58,757	10,109	0	0	10,109	48,648	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CE13]	31,367	31,367	0	0	31,367	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR) [CH13]	100,000	8,621	0	0	8,621	91,379	

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1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	17,000	0	0	0	0	17,000	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1252 [13CE11]	18,632	16,880	0	0	16,880	1,753	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1300 [13CH11]	41,379	21,732	0	0	21,732	19,647	
46 - MACY'S WEST - SFPUC SEWER WORK	258,202	258,202	0	0	258,202	0	
1.3.046.08.040.02 - MCY.SWRC. CONTRACT: MACY'S-SEW	258,202	258,202	0	0	258,202	0	
51 - 821 HOWARD STREET	770,843	624,757	304	1,051	625,808	145,035	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	598,203	304	1,051	599,254	97,499	
1.3.051.02.080.04 - ODC.HWRD:ODCs - TUNNEL CONTRACT 1252	10,000	1,056	0	0	1,056	8,944	
1.3.051.06.080.04 - ODC.HWRD:ODCs - STATION CONTRACT 1300	55,000	15,829	0	0	15,829	39,171	
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAILER	9,090	9,669	0	0	9,669	(579)	
55 - 651 BRANNAN	10,348	10,348	0	0	10,348	0	
1.3.055.01.080.03 - CM:ODCs - 651 BRANNAN STREET	10,348	10,348	0	0	10,348	0	56
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	49,490,087	33,531,924	796,895	919,492	34,451,416	15,038,672	
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	9,507,939	5,017,804	0	0	5,017,804	4,490,135	57
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	5,218,630	1,969,213	0	0	1,969,213	3,249,417	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	7,000,000	6,386,250	0	0	6,386,250	613,750	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3E][PM]	1,596,563	1,596,563	0	0	1,596,563	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3F]	1,025,366	4,101,466	0	0	4,101,466	(3,076,099)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3F][PM]	1,025,366	1,025,366	0	0	1,025,366	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3G]	1,587,361	4,967,976	637,516	680,963	5,648,939	(4,061,578)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3G][PM]	1,287,361	1,241,994	159,379	170,241	1,412,235	(124,874)	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9B]	11,042	11,042	0	0	11,042	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9D]	550,000	515,694	0	0	515,694	34,306	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9E]	600,000	523,943	0	0	523,943	76,057	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9F]	461,196	461,196	0	0	461,196	0	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9G]	133,472	133,472	0	68,288	201,760	(68,288)	
1.3.063.01.080.04 - FD:CM:EPC JV CS49-PM [123A]	5,579,945	5,579,945	0	0	5,579,945	0	
1.3.063.97.080.03 - AECOM.CS149 ALLOCAT CONTING	13,905,845					13,905,845	
64 - CN1300 JOB READINESS PROGRAM	1,060,000	0	0	0	0	1,060,000	58
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	0	0	0	0	1,060,000	
67 - HILL INTERNATIONAL CONTRACT 156	11,000,000	2,504,465	40,001	159,071	2,663,536	8,336,464	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1336]	920,426	920,426	0	0	920,426	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. CS-156 [1337]	533,148	533,148	0	0	533,148	0	
1.3.067.01.080.03 - HILL.CS156:HILL INTL. [1330]	127,261	127,261	0	0	127,261	0	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2016 [68CPT5441340.CPT5441340]	9,419,165	923,631	40,001	159,071	1,082,702	8,336,463	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	255,144	0	0	255,144	244,856	59
1.3.069.06.040.01 - BAYLAND.CS175:BAYLAND SOIL PROCESS [133K]	500,000	255,144	0	0	255,144	244,856	
71 - TUNNEL/UTILITIES - CONTRACT # CONTRACT 155-1	2,158,846	2,107,145	20,500	0	2,107,145	51,701	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	60
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	2,158,846	2,194,346	20,500	0	2,194,346	(35,500)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	9,612,416	9,436,530	417,076	782,907	10,219,437	(607,021)	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	51,351	51,351	0	0	51,351	0	61
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	9,561,065	9,385,179	417,076	782,907	10,168,086	(607,021)	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	2,773,222	(61,216)	230,966	3,004,188	1,824,081	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1236]	90,000	89,791	0	0	89,791	209	
1.3.073.01.080.04 - CM: CS155.3 DESIGN SUPPORT DURING CM [1334]	4,738,269	2,683,431	(61,216)	230,966	2,914,397	1,823,872	
<b>81 - UTILITIES RELOCATION #1 (PORTAL &amp; MOS) - CONTRACT 1250</b>	<b>11,968,150</b>	<b>11,968,150</b>	<b>0</b>	<b>0</b>	<b>11,968,150</b>	<b>0</b>	
1.3.081.07.040.01 - UR1.CONTRACT 1250:SITWORK: DEMOLIT	167,458	167,458	0	0	167,458	0	
1.3.081.07.040.02 - UR1.CONTRACT 1250:SITWORK: UTILITI	10,099,341	10,099,341	0	0	10,099,341	0	
1.3.081.07.040.03 - UR1.CONTRACT 1250:SITWORK:HAZMAT	453,321	453,321	0	0	453,321	0	
1.3.081.07.040.08 - UR1.CONTRACT 1250:SITWORK:TEMPORAR	1,248,030	1,248,030	0	0	1,248,030	0	
<b>82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251</b>	<b>20,794,582</b>	<b>20,794,582</b>	<b>0</b>	<b>0</b>	<b>20,794,582</b>	<b>0</b>	<b>62</b>
1.3.082.08.040.01 - UR2.CONTRACT 1251:SITWORK: DEMOLIT	752,240	752,240	0	0	752,240	0	
1.3.082.08.040.02 - UR2.CONTRACT 1251:SITWORK:UTILITI	10,328,044	10,328,044	0	0	10,328,044	0	
1.3.082.08.040.03 - UR2.CONTRACT 1251:SITWORK:HAZMAT	172,712	172,712	0	0	172,712	0	
1.3.082.08.040.05 - UR2.CONTRACT 1251:SITWORK: STRUCTU	2,706,431	2,706,431	0	0	2,706,431	0	
1.3.082.08.040.06 - UR2.CONTRACT 1251:SITWORK:PEDESTRA	319,317	319,317	0	0	319,317	0	
1.3.082.08.040.07 - UR2.CONTRACT 1251:SITWORK:AUTO/BUS	190,362	190,362	0	0	190,362	0	
1.3.082.08.040.08 - UR2.CONTRACT 1251:SITWORK:TEMP FAC	6,325,476	6,325,476	0	0	6,325,476	0	
<b>GUIDEWAY TUNNELS TOTAL</b>	<b>235,913,500</b>	<b>233,589,322</b>	<b>-204,578</b>	<b>0</b>	<b>233,589,322</b>	<b>2,324,178</b>	
<b>83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE</b>	<b>233,584,015</b>	<b>231,914,862</b>	<b>16,998</b>	<b>0</b>	<b>231,914,862</b>	<b>1,669,153</b>	<b>63</b>
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRND CUT	60,446,425	60,446,425	0	0	60,446,425	0	
1.3.083.02.010.07 - CONTRACT 1252:GUIDEWAY:UNDERGROUND	105,423,090	105,181,925	16,998	0	105,181,925	241,165	
1.3.083.02.020.03 - CONTRACT 1252: STATIONS: UNDERGROUND	21,685,000	21,685,000	0	0	21,685,000	0	
1.3.083.02.040.01 - CONTRACT 1252:SITWORK:DEMO CLEARING	2,440,000	2,440,000	0	0	2,440,000	0	
1.3.083.02.040.02 - CONTRACT 1252:SITWORK:UTILITIES & RE	10,895,000	10,487,676	0	0	10,487,676	407,324	
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	0	0	0	0	200,000	
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	54,292	0	0	54,292	245,708	
1.3.083.02.040.06 - CONTRACT 1252:SITWORK:PED/BIKE ACCES	50,000	4,532	0	0	4,532	45,468	
1.3.083.02.040.07 - CONTRACT 1252:SITWORK:AUTO/BUS ACCES	1,345,000	1,345,000	0	0	1,345,000	0	
1.3.083.02.040.08 - CONTRACT 1252:SITWORK:TEMP FACILITIE	30,799,500	30,270,012	0	0	30,270,012	529,488	
<b>83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMOds</b>	<b>1,494,770</b>	<b>1,674,459</b>	<b>(221,576)</b>	<b>0</b>	<b>1,674,459</b>	<b>(179,690)</b>	<b>64</b>
1.3.083.83.010.06 - CONTRACT 1252: CONTRACT MOD	112,251	112,251	0	0	112,251	0	
1.3.083.83.010.07 - CONTRACT 1252: CONTRACT MOD	1,941,810	1,670,233	(221,576)	0	1,670,233	271,576	
1.3.083.83.020.03 - CONTRACT 1252: CONTRACT MOD	1,004,156	1,004,156	0	0	1,004,156	0	
1.3.083.83.040.02 - CONTRACT 1252: CONTRACT MOD	1,035,588	935,588	0	0	935,588	100,000	
1.3.083.83.040.03 - CONTRACT 1252: CONTRACT MOD	453,475	453,475	0	0	453,475	0	
1.3.083.83.040.08 - CONTRACT 1252: CONTRACT MOD	(3,052,510)	(2,501,244)	0	0	(2,501,244)	(551,266)	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	834,715	0	0	0	0	834,715	65
<b>CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL</b>	<b>879,676,400</b>	<b>469,808,434</b>	<b>8,117,537</b>	<b>8,979,702</b>	<b>478,788,136</b>	<b>400,888,264</b>	<b>66</b>
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253</b>	<b>294,030,590</b>	<b>187,989,033</b>	<b>3,566,633</b>	<b>2,525,310</b>	<b>190,514,343</b>	<b>103,516,247</b>	<b>20</b>
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	163,245,198	3,305,388	2,342,630	165,587,828	87,493,624	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	1,545,736	0	0	1,545,736	7,919,958	
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	5,884,089	0	30,000	5,914,089	157,499	
1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	4,360,395	2,962,558	152,550	51,151	3,013,709	1,346,686	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	347,862	1,270	0	347,862	202,138	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	231,010	0	0	231,010	13,490	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	12,501	0	0	12,501	6,468	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	54,201	0	0	54,201	1,104,209	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	9,759,622	56,285	16,029	9,775,651	1,364,050	
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	3,845,576	50,000	75,000	3,920,576	852,500	
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	22,501	0	0	22,501	1,793,033	
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	67,178	1,140	0	67,178	149,779	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	11,001	0	10,500	21,501	1,112,813	
<b>84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs</b>	<b>2,188,335</b>	<b>1,593,549</b>	<b>240,253</b>	<b>168,971</b>	<b>1,762,520</b>	<b>425,815</b>	
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	37,456	21,258	0	0	21,258	16,198	
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	90,000	90,000	0	0	90,000	0	
1.3.084.84.040.01 - CMOD:UMS.1253: DEMOLITION CLEARING	944,987	944,987	61,312	(314,836)	630,151	314,836	
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	1,039,768	461,180	178,941	483,807	944,987	94,781	
1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	76,124	76,124	0	0	76,124	0	
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	17,811,665	0	0	0	0	17,811,665	67
<b>85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254</b>	<b>247,567,810</b>	<b>129,554,158</b>	<b>1,215,886</b>	<b>2,574,283</b>	<b>132,128,441</b>	<b>115,439,369</b>	
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	43,038,034	1,146,971	2,398,490	45,436,524	30,981,055	
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	62,344,713	48,915	135,793	62,480,506	70,520,547	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	1,225,001	0	0	1,225,001	5,587,855	
1.3.085.04.040.01 - CTS.1254: DEMOLITION CLEARING	400,000	400,000	0	0	400,000	0	
1.3.085.04.040.02 - CTS.1254: SITE UTILITIES UTIL	6,001,718	4,838,586	0	0	4,838,586	1,163,132	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	12,500	0	0	12,500	337,500	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	206,064	0	0	206,064	119,601	
1.3.085.04.040.06 - CTS.1254: PEDESTRIAN/BIKE	15,000	0	0	0	0	15,000	
1.3.085.04.040.07 - CTS.1254: AUTOMOBILE BUS ACCE	225,677	27,500	0	0	27,500	198,177	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	15,915,512	10,000	10,000	15,925,512	645,810	
1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,168,807	10,000	10,000	1,178,807	420,786	
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	311,500	0	20,000	331,500	3,732,427	
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	59,440	0	0	59,440	65,041	
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	6,500	0	0	6,500	1,652,438	
<b>85 - CHINATOWN STATION (CTS) CMODs</b>	<b>3,002,485</b>	<b>1,591,921</b>	<b>46,080</b>	<b>0</b>	<b>1,591,921</b>	<b>1,410,564</b>	<b>68</b>
1.3.085.85.020.03 - CMOD:CTS.1254: UNDERGROUND STATION	75,000	0	0	0	0	75,000	
1.3.085.85.040.01 - CMOD:CTS.1254: POWER POLE	155,956	148,212	0	0	148,212	7,744	
1.3.085.85.040.02 - CMOD:CTS.1254: SITE UTILITIES UTIL	439,597	337,200	46,080	0	337,200	102,397	
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	2,274,225	1,048,802	0	0	1,048,802	1,225,423	
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	57,707	57,707	0	0	57,707	0	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	6,997,515	0	0	0	0	6,997,515	69
<b>86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255</b>	<b>158,089,000</b>	<b>98,442,905</b>	<b>1,817,169</b>	<b>2,474,895</b>	<b>100,917,800</b>	<b>57,171,200</b>	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	73,441,420	1,647,839	2,264,230	75,705,650	42,700,190	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	1,025,111	0	0	1,025,111	4,308,176	
1.3.086.05.040.01 - YBM.1255: DEMOLITION CLEARING	657,000	657,000	0	0	657,000	0	
1.3.086.05.040.02 - YBM.1255: SITE UTILITIES UTIL	7,163,278	6,214,200	0	0	6,214,200	949,078	
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	1,814,906	0	72,600	1,887,506	741,933	70
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	0	0	0	0	100,000	
1.3.086.05.040.06 - YBM.1255: PEDESTRIAN/BIKE	16,665	1	0	0	1	16,664	
1.3.086.05.040.07 - YBM.1255: AUTOMOBILE BUS ACCE	1,542,725	963,251	96,250	22,300	985,551	557,174	

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	12,553,711	(48,420)	16,015	12,569,726	2,995,027	
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	1,544,754	24,000	24,000	1,568,754	157,738	
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	216,550	97,500	75,750	292,300	3,416,125	
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	12,001	0	0	12,001	1,229,095	
<b>86 - YERBA BUENA MOSCONE STATION (YBM) CMODs</b>	<b>57,052</b>	<b>(504,962)</b>	<b>(17,379)</b>	<b>0</b>	<b>(504,962)</b>	<b>562,014</b>	
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	(1,833,869)	(1,833,869)	0	0	(1,833,869)	0	
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	266,386	259,386	(7,000)	0	259,386	7,000	69a
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	1,332,306	812,781	(10,379)	0	812,781	519,525	
1.3.086.86.040.03 - CMOD:YBM.1255: HAZARDOUS MATERIALS	150,828	150,828	0	0	150,828	0	
1.3.086.86.040.04 - CMOD:YBM.1255: ENVIRONMENTAL MITIGA	102,734	102,734	0	0	102,734	0	
1.3.086.86.040.06 - CMOD:YBM.1255: PEDESTRIAN/BIKE	35,489	0	0	0	0	35,489	
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	3,178	3,178	0	0	3,178	0	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	4,942,949	0	0	0	0	4,942,949	71
<b>87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256</b>	<b>139,989,000</b>	<b>49,406,583</b>	<b>1,200,325</b>	<b>1,104,243</b>	<b>50,510,826</b>	<b>89,478,174</b>	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS CROSS TRA	2,860,000	382,500	237,500	0	382,500	2,477,500	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	9,257,731	1,420,001	100,000	190,000	1,610,001	7,647,730	
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,723,552	3,467,963	34,000	122,000	3,589,963	13,133,589	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	2,671,916	0	175,000	2,822,916	3,938,174	
1.3.087.09.010.12 - STS.1256: TRACK: SPECIAL	4,449,637	2,618,600	0	0	2,618,600	1,831,037	
1.3.087.09.020.01 - STS.1256: AT-GRADE STATION	7,602,857	1,422,988	(29,856)	10,000	1,432,988	6,169,869	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	12,033,274	722,455	336,378	12,369,652	5,094,394	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	128,960	(18,000)	0	128,960	71,040	70
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	25,000	(5,000)	0	25,000	25,000	70
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	770,550	20,000	161,250	931,800	1,185,125	
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,896,832	11,365,981	77,798	5,972	11,371,953	2,524,878	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	7,231,419	17,200	3,000	7,234,419	20,309,032	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	2,659,115	17,778	67,628	2,726,743	1,736,625	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	2,061,948	0	1,845	2,063,793	7,825,221	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	1,028,867	26,450	30,170	1,059,037	5,040,638	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	141,500	0	1,000	142,500	7,853,737	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	1	0	0	1	2,614,585	
<b>87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs</b>	<b>1,875,966</b>	<b>1,735,247</b>	<b>48,570</b>	<b>132,000</b>	<b>1,867,247</b>	<b>8,719</b>	
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	804,198	829,434	31,325	0	829,434	(25,236)	
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	0	0	18,219	2	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	1,053,547	887,594	17,245	132,000	1,019,594	33,953	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	3,124,033	0	0	0	0	3,124,033	72
<b>141 - CONSTRUCTION ADMINISTRATION</b>	<b>2,956,812</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,956,812</b>	
1.3.141.97.080.04 - CONSTR.ADMIN:ALLOC CONTING	2,956,812	0	0	0	0	2,956,812	
<b>142 - LEGAL/PERMITS</b>	<b>2,014,204</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,014,204</b>	
1.3.142.01.080.06 - LGL.PRMTSF:LEGAL; PERMITS	2,014,204	0	0	0	0	2,014,204	
<b>144 - STARTUP</b>	<b>8,300,329</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8,300,329</b>	
1.3.144.01.080.08 - STRT: STARTUP	6,941,907	0	0	0	0	6,941,907	
1.3.144.97.080.08 - STRTA: AC STARTUP ALLOC CONTIN	1,358,422	0	0	0	0	1,358,422	
<b>151 - TEMPORARY LICENSE AGREEMENT</b>	<b>17,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>17,000</b>	



[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.151.01.080.06 - TEMP.LICPORARY LICENSE AGREEME	17,000	0	0	0	0	17,000	
170 - COMMUNICATIONS CONNECTIONS	5,757,629	0	0	0	0	5,757,629	
1.3.170.01.050.04 - COMM.CONNN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629	
181 - AON RISK INSURANCE CS 163	18,113,750	18,798,132	0	0	18,798,132	(684,382)	
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	18,088,750	18,773,132	0	0	18,773,132	(684,382)	
1.3.181.01.080.03 - AON.CS171 AON RISK INS. STUDY	25,000	25,000	0	0	25,000	0	
191 - FARE COLLECTION CONTRACTOR	5,400,000	0	0	0	0	5,400,000	
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	0	0	0	0	5,400,000	
192 - THALES T&S CENTRAL CONTROL	487,972	50,000	0	0	50,000	437,972	
1.3.192.01.050.01 - THALES T&S ATCS	487,972	50,000	0	0	50,000	437,972	
202 - JOC2-022.0	63,938	0	0	0	0	63,938	
1.3.202.01.040.02 - JOC2-022:15&22 POTHOLING UTIL1 LGHT FNDS	63,938	0	0	0	0	63,938	
203 - JOC2-029.0	53,317	0	0	0	0	53,317	
1.3.203.07.040.02 - JOC0292-029: RELOCATE VAULTS-S	53,317	0	0	0	0	53,317	
302 - PG&E	1,988,173	2,684,912	(65,000)	1,272,071	3,956,983	(1,968,810)	
1.3.302.03.050.03 - PGE PERMANENT POWER UMS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.03.050.03 - PGE POWER FEED UMS	2,959,826	115,690	0	1,272,071	1,387,761	1,572,065	
1.3.302.04.050.03 - PGE PERMANENT POWER CTS	(2,350,000)	0	0	0	0	(2,350,000)	
1.3.302.04.050.03 - PGE POWER FEED CTS	2,959,826	0	0	0	0	2,959,826	
1.3.302.05.050.03 - PGE PERMANENT POWER YBM	(2,368,540)	0	0	0	0	(2,368,540)	
1.3.302.05.050.03 - PGE POWER FEED YBM	3,125,222	2,569,222	(65,000)	0	2,569,222	556,000	
1.3.302.09.050.03 - PGE POWER FEED STS	11,839	0	0	0	0	11,839	
331 - BAY AREA RAPID TRANSIT (BART)	951,356	60,455	0	0	60,455	890,901	
1.3.331.01.080.04 - CM:SFMTA LABOR-ENG SVCS-IRP/BART/SF	50,000	33,152	0	0	33,152	16,848	
1.3.331.01.080.06 - CM: BAY AREA RAPID TRANSIT (BART) [122A]	901,356	27,304	0	0	27,304	874,052	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APTA	146,500	62,112	0	0	62,112	84,388	
1.3.333.01.080.03 - APTA:APTA - IRP [2G]	46,500	31,054	0	0	31,054	15,446	
1.3.333.01.080.03 - APTA:APTA - IRP [2C]	100,000	31,058	0	0	31,058	68,942	
334 - BART FARE COLLECTION SYSTEM	700,000	0	0	0	0	700,000	
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	0	0	0	0	700,000	
401 - ECONOMIC AND WORKFORCE DEVELOPMENT (EWD)	17,600	17,600	0	0	17,600	0	
1.3.401.01.080.04 - EWD: MAYORS OFFICE ECON DEV	17,600	17,600	0	0	17,600	0	
402 - DEPARTMENT OF TECHNOLOGY	242,371	237,534	0	0	237,534	4,837	
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	166,179	0	0	166,179	577	
1.3.402.08.050.04 - DT:2UTL:COMM.CONNECTIONS	75,615	71,354	0	0	71,354	4,261	
404 - DEPARTMENT OF BUILDING INSPECTION (DBI)	1,204,081	1,204,081	0	0	1,204,081	0	
1.3.404.01.080.06 - DPT OF BUILDING INSPECTION	1,204,081	1,204,081	0	0	1,204,081	0	
491 - FORM B - REIMBURSEMENT	(12,227,954)	0	0	0	0	(12,227,954)	
1.3.491.02.040.02 - FORMB - CONTRACT 1252 UTILITY REIMBUR	(254,050)	0			0	(254,050)	73
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0			0	(528,370)	74
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0			0	(451,703)	75
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0			0	(100,000)	76
1.3.491.06.040.02 - FORMB - CONTRACT 1300 UTILITY REIMBUR	0	0			0	0	77

[A] Cost Account Description	BUDGET	ACTUAL COSTS				[G] VARIANCE (B - F)	COST REPORT NOTES
	[B] April 2017 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0			0	(2,275,419)	78
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0			0	(7,618,412)	79
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0			0	(1,000,000)	80
<b>TOTAL CONSTRUCTION PHASE</b>	<b>1,349,275,482</b>	<b>852,386,916</b>	<b>9,607,229</b>	<b>13,326,142</b>	<b>865,713,058</b>	<b>483,767,257</b>	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES RFP [34B]	1,324,123	1,319,773	0	0	1,319,773	4,350	
1.4.091.01.070.01 - LRVS: LIGHT RAIL VEHICLES PROJECT MGT [68E]	828,009	828,009	0	0	828,009	0	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT ODC	25,000	0	0	0	0	25,000	
1.4.091.01.070.01 - LRVS: LRV PROCUREMENT	11,131,868	0	0	0	0	11,131,868	
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	13,076,653					13,076,653	23
<b>TOTAL VEHICLES</b>	<b>26,385,654</b>	<b>2,147,782</b>	<b>0</b>	<b>0</b>	<b>2,147,782</b>	<b>24,237,871</b>	
1.5.015.01.060.01 - RE: EASEMENT ACQUISIT	400,000	322,939	0	0	322,939	77,061	
1.5.015.01.060.01 - RE: REAL EST SITE ACQ	15,955,637	14,307,667	0	0	14,307,667	1,647,970	
1.5.015.01.060.01 - RE: REAL ESTATE	766,272	766,272	0	0	766,272	0	
1.5.015.01.060.01 - RE: REC & PARK MOU	6,987,624	6,987,624	0	0	6,987,624	0	
1.5.015.01.060.01 - RE:-DEPT OF TRANSPOR	2,686,000	2,686,000	0	0	2,686,000	0	
1.5.015.01.060.01 - RE:-LICENSES FEES	400,000	381,311	0	0	381,311	18,689	
1.5.023.01.060.01 - ATTY:REAL ES	2,764,373	2,764,373	0	0	2,764,373	0	
1.5.101.01.060.02 - RES.RELO: RELOCATION COST	1,275,200	1,289,701	0	0	1,289,701	(14,501)	
1.5.102.01.060.02 - COMM.RELO-RELOC COMMERCIAL	905,311	1,119,729	0	0	1,119,729	(214,418)	
<b>TOTAL ROW, LAND, EXISTING IMPROVEMENTS</b>	<b>32,140,418</b>	<b>30,625,617</b>	<b>0</b>	<b>0</b>	<b>30,625,617</b>	<b>1,514,801</b>	
<b>90 - CONTINGENCY</b>	<b>75,865,430</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>75,865,430</b>	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	8,880,402					8,880,402	81
<b>TOTAL ALLOCATED CONTINGENCY</b>	<b>66,985,028</b>					<b>66,985,028</b>	
<b>TOTAL PROJECT COST</b>	<b>1,578,300,003</b>	<b>1,045,653,327</b>	<b>9,607,229</b>	<b>13,326,142</b>	<b>1,058,979,469</b>	<b>519,525,367</b>	

7.1 Program Project Budget	
1	The Central Subway Project (CSP) ( SFMTA Capital Program CPT 544 ) is defined in the FTA-SFMTA October 2012 Full Funding Grant Agreement with a budget of \$1.578 billion.
2	The TBM Retrieval Shaft Relocation (SFMTA Capital Program CPT 690) is one of four capital projects that is related to CSP. These projects are reported for background information as needed outside of the main body of the Project Monthly Progress Report.
3	The Chinatown Plaza (CPT 718) is for Chinatown Station enhancement capital project. The project has funding outside of the Central Subway Project. The construction is carried out in Contract 1300 Contract Modifications.
4	CPT 665 is a Real Estate project to relocation in compliance with California regulations for business relocations but outside of the Central Subway Project as defined by the FTA FFGA.
5	CPT 705 is an SFMTA capital improvement between the Agency and community stakeholders outside of the Central Subway Project.
6	Utility company reimbursements (Form B) result in funds received for work carried out on behalf of utilities concurrent to CSP work to achieve efficiencies.
7	PG&E Power Feed reimbursement funds are the refunds from PG&E when completion of Stations construction and switch to permanent power.
8	BART Elevator funds are reimbursements for work carried out on behalf of BART to install BART Powell Street Station elevator.
9	The Tutor Perini - CAD Files funds are the result of payments by the contractor for project documentation not included in the contract.
10	SFPUC Sewer Main funds are reimbursements for work carried out on behalf of San Francisco PUC (includes 10% construction contingency).
11	Traffic Effectiveness Project funded Contract Modification #40 for Culvert, Street & Sidewalk Restoration in North Beach are reimbursements for work carried out in Contract 1252 on behalf of SFMTA SSD.
12	SFPUC 24" Water Main funds are reimbursements for work carried out in Contract 1252 Contract Modification #41 on behalf of San Francisco PUC (includes construction management cost).
13	SFPUC North Beach 24" Water Main Additional Work funds are reimbursements for work carried out in Contract 1252 Contract Modification #48 on behalf of San Francisco PUC (includes construction management cost).
14	CN1300 Contract Modification #6 is funded by Chinatown Plaza (CPT 718) project.
15	Traffic Effectiveness Project funded Contract Modification #51 for support for North Beach Restoration, OCS and Streetlighting which are reimbursements for work carried out in Contract 1252.
16	Public Works' funds are for reimbursements for work carried out on behalf of Public Works MOU for Water Line above YBM Station.

7.4 Contingency Management Trend Report	
17	In Oct 2014 Report, updated Contract 1250 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.
18	In Oct 2014 Report, updated Contract 1251 contract cost to segregate contract amount and contract modification amount. Note that September 2013 Supplemental Authorized Contingency "column f" did not include completed contract.
19	Contract 1252 Original Contract Value "column a" and Original Contingency "column f" did not match September 2013 Supplemental due to Supplemental were used the revised value to reflect Contract Modifications #3-#18. Reduced Contract 1252 contingency to reflect CMod #20 for retrieval shaft relocation cost \$5.15M funded by CPT690, CMod #40 for Culvert, Street & Sidewalk Restoration cost \$694,651 funded by Traffic Effectiveness Project (TEP), and CMod #41 for install 24" Water Main in North Beach cost \$328,860 funded by SFPUC. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2106 report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS. CMod#49, #52 and #53 total \$221,967 are funded by CPS. CMod#51 Support for North Beach Restoration, OCS and Streetlighting cost of \$155,468 is being funded by TEP. Released \$155,468 CN1252 allocated contingency to program's unallocated contingency. In May 2016 report, reduced Contract 1252 contingency by \$185,913 cost to reflect certification of two CMODS. In July 2016 report, increased Contract 1252 contingency by \$15,259 cost to reflect certification of one CMOD. In October 2016 report, increased Contract 1252 contingency by \$319,658 to reflect certification of three credit CMODs.
20	BART Elevator scope and SFPUC Sewer Main scope is in Contract 1300; effort will be funded by BART. In January 2015 Report, corrected Station Contract value to match awarded amount.
21	In March 2016 Report, lowered Contract 1300 Stations CTS contingency by \$75,000 because Contract Modification #6 was funded by Project CPT718. In Nov 2016 report, reversed moving contingency.
22	In April 2015 report, real estate budget stated in RAMP Rev5 is \$36.7M, including \$1M contingency. The cost workbook ROW & contingency budget reflects this with \$36,511,799 and \$1,000,000 respectively. Revised cost book ROW budget & contingency to be \$37,511,799. The \$4,265,478 Caltrans lease savings is allocated to ROW allocated contingency. In February 2017, released \$5,265,478 from completed phase Real Estate assigned contingency to program unallocated contingency.
23	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000, column "c" and increased allocated contingency column "h", by same amount.

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24	In Oct 2014 Report, made two corrections: i) revised Professional Services, Original Contract Value "column a" from \$310,518,041 to \$310,618,041, ii) revised Original Cogency. "column f" unallocated contingency from \$3,883,481 to \$3,845,945. In April 2015 report, used \$500K program contingency for CS-175 Bayland Soil Process contract. In August 2015 Report, added \$15M from Contract 1252. In March 2016 Report, the \$155,468 costs funded by other project offset credits added to program's unallocated contingency. In August 2016 Report, used \$15M to UMS contingency and \$5M to CTS contingency. In February 2017, increased \$5,265,478 from real estate contingency to program unallocated contingency and used \$1M for CN1300 Job Readiness Program contract.
25	The total Central Subway Project budget of \$1.578 billion, based on the October 2012 FFGA with the FTA, is the primary MPR report reference.
26	Estimate at Completion is shown at Column "e".
27	Estimate at Completion vs. Budget variance is shown at Column "k".

**7.5 Contract Modification/Trend Log - Contract 1300 Stations**

28	Reported all trend cost for Contractor Change Order Requests and Proposed Contract Change and applied probability to forecasted trends. In April 2016 Report, reviewed probability formula and adjusted cost.
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**7.6 Budget Revisions: Report Sorted by Construction Packages**

29	In Dec 2014 Report, reduced CN1252 allocated contingency by \$28K to execute Contract Modification #46, see Report 7.5 Detail Contingency Usage Report. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, five contract modifications certified totaling \$377,435 of which \$155,468 is using another source of funding. Released \$155,648 from CN1252 Tunnel assigned contingency to program unallocated contingency. In May 2016 Report, reduced CN1252 allocated contingency by \$186K to execute Contract Modification #54 and #55, see Report 7.5 Detail Contingency Usage Report. In October 2016 Report, increased CN1252 allocated contingency by \$319,658 to execute three contract modifications (#57, #58 and #59), see Report 7.5 Detail Contingency Usage Report.
	Skipped #30
31	In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value.
32	In April 2015, initiated budget from program unallocated contingencies for CS-175 Bayland Soil Process contract, refer to Note 20.
33	In February 2017, released completed phase real estate assigned contingency \$5,265,478 to program unallocated contingency.

34	In Dec 2014 Report, redistributed LRV budget to reflect recent firm bid cost per vehicle (\$3,327,250/unit) from vehicle procurement contract award. (SFMTA Board meeting 15JUL14, calendar item #11). Vehicle line item total budget remains unchanged, redistributed fund by reducing base amount to \$13,309,000 and increased allocated contingency by same amount.
35	In October 2016 report, 1252 program contingency increased by \$319,658 due to execution of three contract modifications as credit offsets. In November 2016 report, took away \$75,000 funding from program's unallocated contingency and moved to CTS allocated contingency. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency.
36	In April 2015 report, program contingency decreased by \$500,000. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, released \$155,468 from Contract 1252 Tunnel assigned contingency and \$75,000 from Contract 1300 Stations assigned contingency totaling \$230,956. In August 2016, released a total of \$20M unassigned contingency to assigned contingency; \$15M to CN1300 UMS station and \$5M to CTS station. In February 2017 report, initiated budget from program unallocated contingencies for CN1300 Job Readiness Program. CN1300 Job Readiness Program budget was part of CN1300 base value, a deduction contract modification will lower CN1300 contract value. Also released \$5,265,478 assigned real estate contingency to program unallocated contingency.

**7.9 Detail Monthly Expenditure Report**

<b>Phase 1 Preliminary Engineering</b>	
37	<b>In February 2017, line item budget was adjusted to line-up expenditures.</b> Famis cost for Preliminary Engineering (PE) is \$48,210,903.71. Cost Report for Preliminary Engineering (PE) is \$46,542,060. Some Design cost reported in Famis were moved to Design Phase.

<b>Phase 2 Design Phase</b>	
38	Famis cost adjustment to transfer Project Management cost from July 2013 to Phase 3 Construction Phase.
39	Famis Phase 1 PE Index Code: 357906.CPT5441112 cost is \$10,222,939 \$8,949,300 is reported in Cost Report Phase 1 PE and the balance of \$1,273,639 is reported in Phase 2 Design.
40	1.2.021.01.080.03 - FD:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]: FAMIS: \$1,425,167 Cost Report: \$1,425,167 cost is reported in Phase 2 Design, 1.2.021.01.080.03 Cost Transfer: Remaining cost is reported in Phase 3 Construction, 1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]
41	In December 2016 Report, Central Subway Project has re-activated CSA Audit Work Order to perform overhead audit for three consultant forms.

42	1.2.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]: FAMIS: \$2,294,910 Cost Report: \$2,294,910 1.2.055.01.080.02 Cost Transfer: Future costs to be allocated to 1.3.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]
43	1.2.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]: FAMIS: \$4,698,167 Cost Report: \$4,698,167 on 1.2.063.01.080.03 Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]
44	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
45	In January 2017 Report, remove variance amount of (\$920,555) that was incorrectly reported in August 2016.
46	1.2.071.01.080.02 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336 Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
47	1.2.072.01.080.02 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609 COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
48	1.2.073.01.080.02 - FD:FINAL DESIGN-DP3 [35CPT5441236.CPT5441236]: FAMIS: \$11,502,372 COST REPORT: \$11,432,312 COST TRANSFER: \$70,060 to 1.3.073.01.080.04 - CM: DP3 [35CPT5441236.CPT5441236]

<b>Phase 3 CONSTRUCTION PHASE</b>	
49	1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [357909ART001.CPT5441227]: FAMIS: \$1,525,982 Cost Report: \$1,425,167 1.2.021.01.080.03 Cost Transfer: any future costs to 1.3.021.01.080.03
50	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
51	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
52	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.

53	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
54	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
55	In January 2017 Report, revised SCC Code from 1.2.032.02.080.02 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112] to 1.3.032.06.080.04 to correct incorrect SCC assignment for DPW support to construction phase.
56	1.3.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241]: FAMIS: \$2,294,910 Cost Report: \$2,294,910 1.2.055.01.080.02 - FD:ODCs - 651 BRANNAN STREET [35CPT5441241.CPT5441241] Cost Transfer: Future costs to be allocated to 1.3.055.01.080.02
57	1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]: FAMIS: \$4,698,167 Cost Report: \$4,698,167 on 1.2.063.01.080.03 Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]
58	In February 2017, transferred \$1,060,000 from programs unallocated contingency to give to 1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM. Waiting for cmod in that amount and then will transfer the funds back.
59	Used \$500K program contingency for CS-175 Bayland Soil Process contract. Refer to Report Notes #20.
60	1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336 Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
61	1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609 COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
62	Contract 1251 Final cost is \$20,794,582.
63	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
64	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
65	Revised Contract 1252 allocated contingency SCC code from 040.08 to 010.07.



66	In July 2015 Report, used Contract 1300 Contractor schedule to report budget and actual cost. The Standard Cost Categories (SCC) allocation changed from previous reports. In August 2015 Report, adjusted some of Contract 1300 Contractor SCC assignment to match most of previous SCC assignment. In March 2016, \$75,000 Cmod#6 subtracted from CN1300 Stations contingency (using CPT718 funding) and transferred to Program contingency; this lead to the total CN1300 Station budget being lowered.
67	Revised Contract 1300/UMS allocated contingency SCC code from 040.08 to 020.03.
68	In March 2016 Report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS.
69	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
70	Negative Current or Prior Monthly expenditure is due to repunish allowance expenses by approved Contract Modifications.
71	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
72	Revised Contract 1300/STS allocated contingency SCC code from 040.08 to 020.01.
73	Revised Form B Reimbursements SCC code from 900.01 to 040.02
74	Revised Form B Reimbursements SCC code from 900.01 to 040.02
75	Revised Form B Reimbursements SCC code from 900.01 to 040.02
76	Revised Form B Reimbursements SCC code from 900.01 to 040.02
77	Revised Form B Reimbursements SCC code from 900.01 to 040.02
78	Revised Form B Reimbursements SCC code from 900.01 to 040.02
79	Revised Form B Reimbursements SCC code from 900.01 to 040.02
80	Revised Form B Reimbursements SCC code from 900.01 to 040.02
81	Increase Program contingency \$1,023,508. Refer to Report Notes #11 and #12. In April 2015 report, program contingency decreased by \$500,000. Refer to Report Notes #20. In August 2015 report, release \$15M CN1252 Tunnel assigned contingency to program unallocated contingency. In March 2016 report, program unallocated contingency increased by \$230,468. In August 2016, released \$20M to CN1300 Construction assigned contingency from program unallocated contingency. In February 2017, used \$1,060,000 for CN1300 Job Readiness Program from unallocated contingency, refer to Note 31. Also, released \$5,265,478 assigned real estate contingency to program unallocated contingency, refer to Note 33.

*Appendix B*

**DETAIL SCHEDULE REPORTS**

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## **SCHEDULE HIGHLIGHTS**

The Master Project Schedule (MPS) below includes progress through April 2017. The April 2017 Schedule Update submittal from Contract 1300 Contractor was not submitted due previous update corrections that needed to be completed before TPC provide the April update. The Contract 1300 schedule represented in this report is based on the SFMTA April 2017 Schedule Update.

The MPS shows a forecast Revenue Service Date of December 2019.

The controlling critical (longest) path of the MPS runs through CTS Excavation succeeded by STS Startup & Testing, Commissioning and Pre-Revenue Activities to the Baseline Finish and Revenue Service Date. See Appendix B – Longest Path. The latest schedule shows the longest path running through the Chinatown Station (CTS). Contractor is required to implement a Recovery Schedule to put the Project back on schedule.

Schedule Contingency is fully utilized on the critical path of the MPS, which is below the Minimum Schedule Contingency level of 6 months. A schedule re-evaluation will be performed, utilizing the updated Contract 1300 Schedule. Recovery options are being implemented in key areas as work proceeds. SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. Excavation and Support of the Top Right Heading & Bench was completed with lower than expected levels of production and the contractor is now working on Excavation and Support Top Right and Left Step 3 Invert of the South Platform Cavern. Despite expected ground conditions as described in the GBR, TPC's mining productivity has not been as planned. TPC has continued the mitigation effort to institute two-twelve hours shifts or six days per week, in an effort to recover some lost time. Contract 1300 Schedule shows 26 days of delay in April with a new forecasted Revenue Service Date of 10 December 2019

Contract 1300 Contractor submitted twenty-nine (29) Schedule Updates from December 2014 to April 2017. SFMTA rejected sixteen (16) Schedule Updates from December 2015 to April 2016 and June 2016 to April 2017. SFMTA approved as noted the September 2015, October 2015, November 2015 and May 2016 Schedule Updates. Contractor has been directed to develop a Recovery Schedule as required by Contract and correct out-of-sequence and Retained Logic driving many of the forecast dates. Review of schedule updates as well as identifying recovery options is ongoing.

### **Contract 1300 - WP1253 UMS / WP1254R CTS / WP1255 YBM / WP1256 STS:**

The Contractor, Tutor Perini Corporation's (TPC) baseline schedule is incorporated into the master program schedule. The preliminary SFMTA Contract 1300 April 2017 schedule is used within the April Report. The SFMTA Contract 1300 April 2017 schedule is based on the approved baseline schedule logic with adjustments made for fixing retained logic and lags. The SFMTA will continue to use the SFMTA Contract 1300 schedule update as a forecasting tool going forward until the Contract 1300 Contractor submits an acceptable schedule that addresses all of SFMTA scheduling concerns.

**Work Package P-1254R (CTS) has performed the following work this month:**

- Head house- excavated to 16’ below Temp Level 5.0 walers and struts
- Completed 80% of the excavation of the Platform Caverns (North and South) of Right and Left Side Drifts Top Headings and Inverts
- Incidental street work (minor), ongoing monitoring and surveying
- Mockup for Final Waterproofing and Lining underway for the North Emergency Egress (NEE) Shaft and Tunnel – ongoing testing and inspection
- Completed 4’ – wide walkway along Chinese United Methodist Church on Washington Street

**Work Package P-1254R (CTS) will perform the following work next month**

- Platform Caverns (North and South) – complete with Left and Right Side Drift inverts
- Platform Cavern South – begin Center Drift Top Heading, Bench and Invert

Activity ID	Activity Name	2017											
		Apr	May	Jun	Jul	Aug	Sep	Oct					
<b>CENTRAL SUBWAY PROJECT</b>													
<b>Construction Phase</b>													
<b>Construction CN-1300</b>													
<b>Construction CTS Station P-1254R</b>													
CTS.31.71.355	Install Remaining Barrel Vault Piping (1-7, 49-55, s1-s12) = 26ea												
CTS.31.43.140	CTS_ Compensation Grouting - As Required												
CTS.31.71.420	BreakinTop / Bench Sidewalls for North Platform Cavern Excavation												
CTS.31.71.435	CompleteTop / Bench Invert Sidewalls & Headwall Right Side for North Platform Cavern												
CTS.31.71.425	CompleteTop / Bench Invert Sidewalls & Headwall Left Side for North Platform Cavern												
C.3.880	South Emergency Egress Tunnel M.E.P												
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf												
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf												
CTS.33.51.110	CTS_Perform: Utilities: Gas Line Washington/Stockton												
CTS.01.78.100	CTS_Prep/Submit Warranties (Prior to Substantial Completion)												
CTS.31.71.520	Initial Excavation & Support - South Emergency Egress Tunnel												
CTS.31.71.530	Complete Excavation & Support - South Emergency Egress Tunnel												
CTS.31.74.870	Final Lining South Emergency Egress Tunnel												
CTS.31.71.445	Install Temporary Bracing Sidewalls for North Platform Cavern Excavation												
CTS.31.71.590	CTS- Install Temporary Bracing - Sidewalls (Platform Cavern)												
CTS.31.71.455	Excavation / Support Top Center Drift & Construct Headwall for North Platform Cavern												
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf												
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf												
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf												
CTS.31.74.550	Final Lining North Emergency Egress Tunnel												
CTS.31.71.475	Excavation / Support Center Bench Invert & Construct Headwall for North Platform Cavern												
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf												
CTS.31.71.485	Demo Sidewall, Repair Headwall for North Platform Cavern Excavation												
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin												
CTS.03.30.850	Concrete Stairs North Emergency Egress Tunnel												
CTS.31.71.650	Break-in Crossover Cavern												
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf												
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf												

**Work Package P-1253 (UMS) has performed the following work this month:**

- North Concourse: Worked on PG&E #7 box installation on Geary in front of the Union Square Garage. Worked on fiber optic conduits in the MRY east duct bank and repairs to the AT&T duct bank on Stockton Street. Completed MRY terminations in manholes 602, 900A, 601A, and 601. Performed work on high pressure hydrant riser
  - Platform Station: Completed remaining Mezzanine Level struts and Temp Level 2 excavation and wale and strut installation. Continued Platform Strut Level excavation and wale and strut installation, and began Temp Level 3 excavation, including breakout of Northbound and Southbound tunnel precast concrete segments
  - Access Shaft: Installed mud mat invert and waterproofing in the access shaft
  - Ellis Annex: Performed grading, installation of base rock, installation of perforated pipe, and mud mat installation at the east Ellis invert, electrical room, and sump pit. Installed waterproofing and epoxy dowels, rebar and piping in the east Ellis invert. Worked on PG&E electrical duct bank, water line installations, and AT&T
- UMS North Entrance: Continued structural steel and fan level trench excavation, both approx. 90% complete. Commenced rough in of building MEP

**Work Package P-1253 (UMS) will perform the following work next month:**

- Nighttime lane closures expected to continue for utility work. Ellis Street expected to have nighttime intermittent closures
- North Concourse: Continue to install utilities. Excavation and structural steel deliveries. Installation of soil nail walls continues
- Platform Station: Continue to excavate and install structural & temporary steel support system
- Ellis Annex: Complete utility installations, backfilling and restoration of Ellis Street and utility installation. Begin permanent roadway restoration
- UMS North Entrance – Complete fan level trench support of excavation

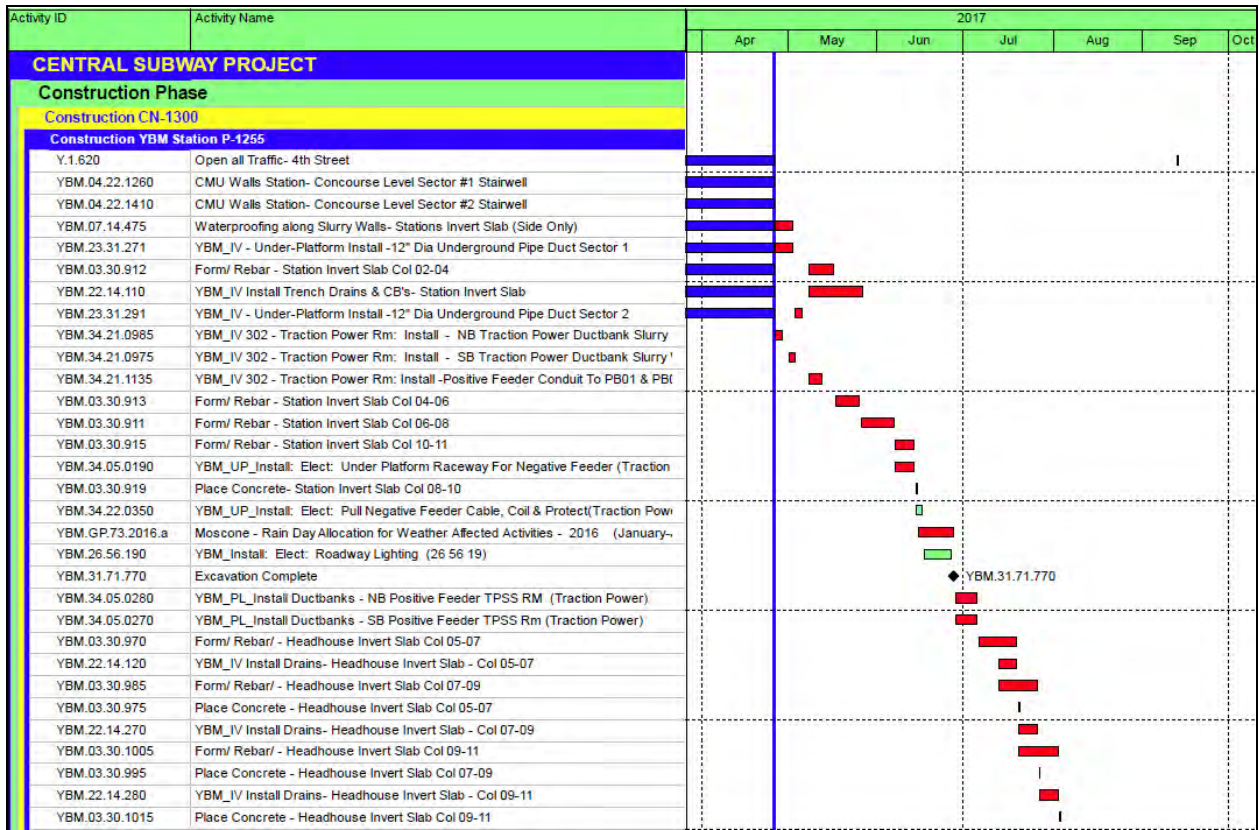
Activity ID	Activity Name	2017											
		Apr	May	Jun	Jul	Aug	Sep	Oct					
<b>CENTRAL SUBWAY PROJECT</b>													
<b>Construction Phase</b>													
Construction CN-1300													
Construction UMS Station P-1253													
Administrative / Milestones													
Engineering & Procurement													
Drilled Shafts													
Compensation Grouting													
Roof Deck Excavation,Construction,Restoration													
Excavation & Support													
UMS.31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)												
UMS.03.37.0700	UMS_ Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Lev												
UMS.31.20.1120	UMS_Excavate to Bottom of North Concourse Slab (Intermediate Strut Level)												
UMS.03.30.1525	UMS_Form/Rebar/Pour Invert Slab For South Concourse Escalator Upper Landin												
UMS.31.20.1365	UMS_Shore Tunnel and ready for break in- Sta 132+50 To North Headwall												
UMS.05.12.0895	UMS_Install & Pre-Load Permanent Struts - Mezzanine Level Sta 132+50 To Sou												
UMS.31.20.0985	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50												
UMS.31.20.1345	UMS_Remove Temporary Struts & Wales For South Concourse Escalator												
UMS.31.43.150	UMS_Compensation Grouting - As Required												
UMS.05.12.1200	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To North Headwal												
UMS.03.30.1535	UMS_Form/Rebar/Pour Walls For South Concourse Escalator Upper Landing												
UMS.05.12.1220	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To Nortl												
UMS.05.12.1210	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To South Headwa												
UMS.03.37.0995	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To												
UMS.05.12.1230	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To Sou												
UMS.03.37.0990	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To												
UMS.31.20.1030	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange St												
UMS.31.50.1050	UMS_Install Temporary Struts - Level 3 Sta 132+50 To North Headwall												
UMS.31.20.1040	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange St												
UMS.03.37.1020	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To 1												
UMS.31.20.1060	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To No												
UMS.31.50.1220	UMS_Install Temporary Struts - Level 3 Sta 132+50 To South Headwall												
UMS.03.37.1030	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To 1												
UMS.05.12.2130	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To West Side Piles												
UMS.05.12.1360	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To East Side Piles												

**Work Package P-1255 (YBM) has performed the following work this month:**

- Sidewalk restoration in progress on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Excavation to Invert level beneath Temporary Strut Level 6 is complete within the Headhouse
- Placement of mud slab, waterproofing, and protective concrete within the Headhouse at Invert Level is complete
- Placement of concrete in Invert Level sections 1, 2, 3, 4, and 6 of 6 is completed in the Station Box
- Preparation for Invert concrete placement 5 of 6 in Station Box is in progress
- Preparation for Invert concrete placement 7, 8, and 9 in Headhouse is in progress
- Preparation for concrete placement within Elevator #3 pit is in progress
- Installation of metal stairs at Stair 1 and Stair 4 is in progress

**Work Package P-1255 (YBM) will perform the following work next month:**

- Complete sidewalk restoration on west side of 4<sup>th</sup> Street south of Howard Street intersection
- Continue interior finishes on Mezzanine & Concourse Levels
- Begin placement of Invert Level concrete slab sections within Headhouse
- Complete construction of Elevator #3 pit in Headhouse
- Continue shoring for installation of Stair 4 hatchway on adjacent to Folsom Street at south end of Headhouse
- Begin potholing for 36" force main sewer installation within intersection of 4<sup>th</sup> at Howard



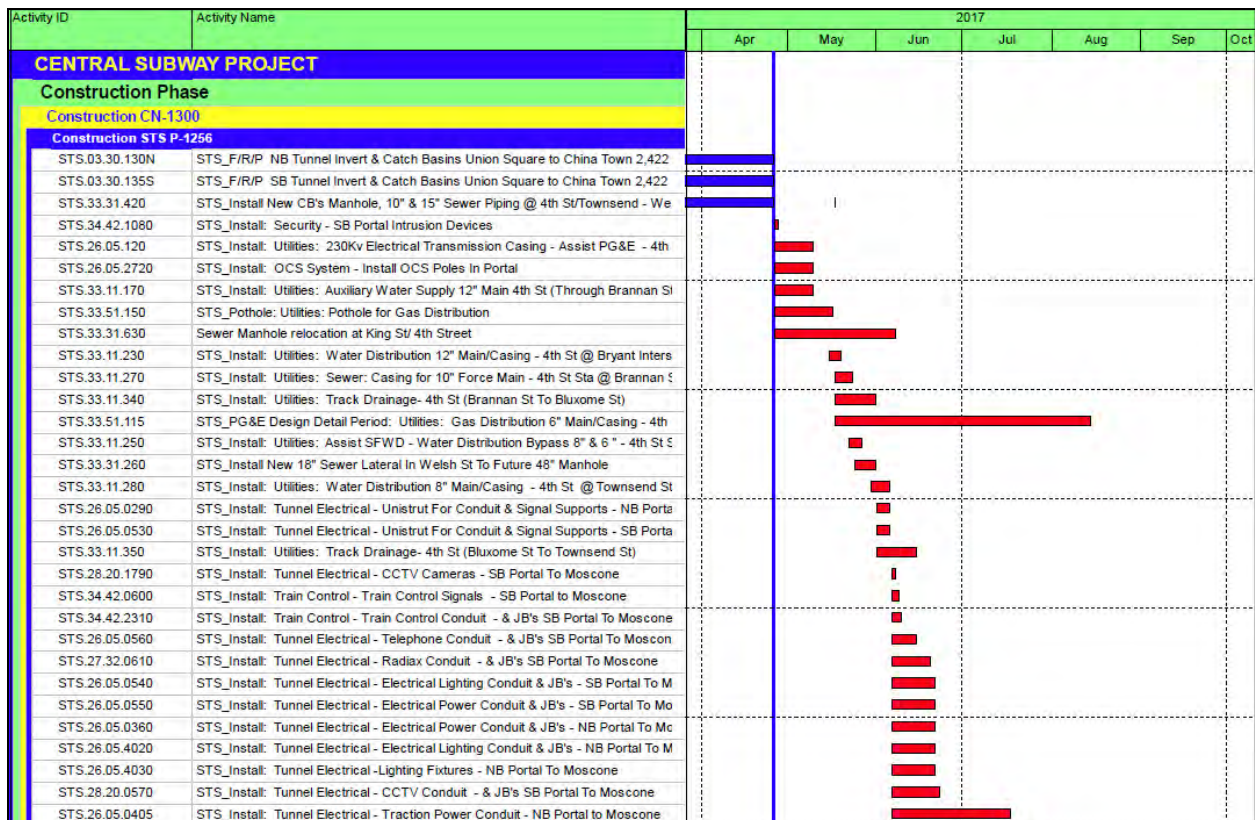


**Work Package P-1256 (STS) has performed the following work this month:**

- Continued 36" sewer installation at 4<sup>th</sup>/Brannan intersection
- Continued MRY ductbank at 4<sup>th</sup>/Townsend intersection
- Continued pavement renovation on 4<sup>th</sup> Street between King and Welsh
- Completed AWSS lateral installation on 4<sup>th</sup> Street between Welsh and Freelon
- Continued water line installation at 4<sup>th</sup>/Townsend
- Continued invert slab construction at tunnel portal
- Continued track installation at tunnel portal
- Continued track pavement and plinth construction at tunnel portal
- Started track plinth construction and track installation inside tunnels

**Work Package P-1256 (STS) will perform the following work next month:**

- Continued 48" sewer installation
- Continued 36" sewer installation
- Continued MRY ductbank installation
- Continued AWSS installation
- Continued water line installation
- Continued pavement renovation
- Continued plinth construction and track installation inside tunnels



## SCHEDULE REVISIONS

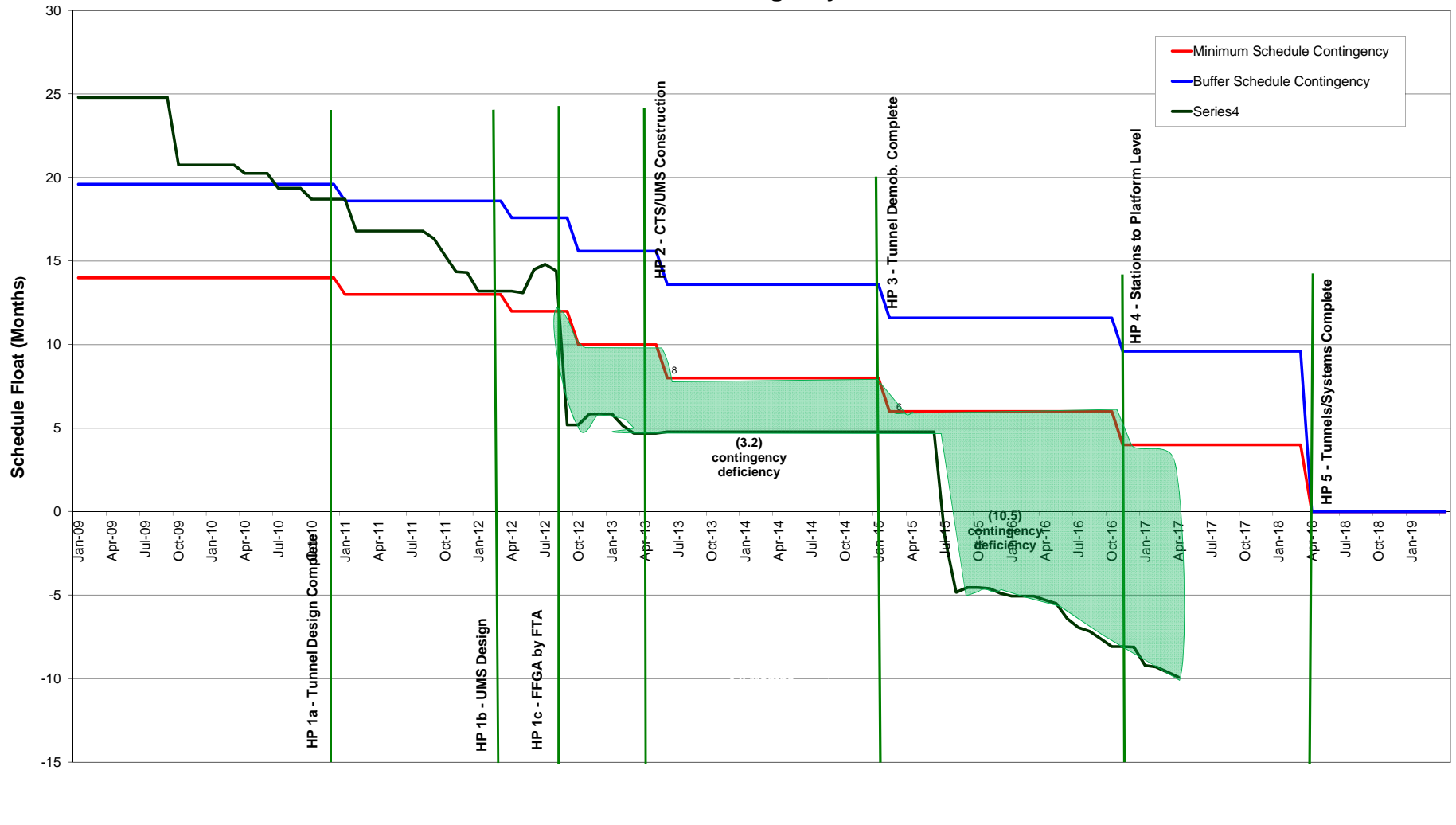
The SFMTA Contract 1300 April 2017 schedule update was added this period to the Central Subway Project Master Schedule.

## LIST OF SCHEDULE REPORTS

- 1.1. Schedule Contingency Drawdown
- 1.2. Master Summary Schedule
- 1.3. Program Critical Path Schedule
- 1.4. Construction Contract Summary Schedule
- 1.5. Detail Schedule for Remaining Work

# CENTRAL SUBWAY PROJECT Schedule Contingency Drawdown

April 2017



Activity ID	Activity Name	Original Duration	Start	Finish	2017				2018				2019				2020			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
<b>CENTRAL SUBWAY PROJECT</b>		4323	03-Jun-03 A	10-Dec-19	CENTRAL SUBWAY PROJECT															
<b>Program Level Milestones</b>		4361	03-Jun-03 A	10-Dec-19	Program Level Milestones															
PJD1000	Central Subway Project Start	0	03-Jun-03 A																	
MS0004A	Tunnel Excavation Complete - Project Milestone #4A	0		05-Sep-14 A																
MS0019	Baseline Finish Date: 12-26-2018	0		10-Dec-19*	◆ Baseline Finish Date: 12-26-2018															
MS0009	CSP Revenue Service Date	0		10-Dec-19*	◆ CSP Revenue Service Date															
<b>Preliminary Engineering Phase</b>		2661	03-Jun-03 A	07-Jan-10 A																
<b>Final Design</b>		1811	08-Jan-10 A	17-Jun-13 A																
<b>Light Rail Vehicles</b>		2228	15-Apr-13 A	21-May-19	Light Rail Vehicles															
<b>Real Estate</b>		3130	01-Aug-08 A	26-Apr-17	Real Estate															
<b>Construction Phase</b>		2604	04-Jan-10 A	10-Dec-19	Construction Phase															
<b>Construction Support and Costs</b>		2874	04-Jan-10 A	21-Nov-19	Construction Support and Costs															
Construction Utility Contract #1- MOS & Portal CN-1250		505	04-Jan-10 A	23-May-11 A																
Construction Utility Contract #2 - UMS CN-1251		643	12-Jan-11 A	15-Oct-12 A																
Construction Tunnels CN-1252		1518	08-Jun-11 A	27-Apr-17	Construction Tunnels CN-1252															
Construction CN-1300		1704	03-Jun-13 A	24-Sep-19	Construction CN-1300															
CN- 1300 Milestone		1635	17-Jun-13 A	24-Sep-19	CN- 1300 Milestone															
Construction UMS Station P-1253		1704	17-Jun-13 A	27-Jun-19	Construction UMS Station P-1253															
Construction CTS Station P-1254R		1572	17-Jun-13 A	27-Jun-19	Construction CTS Station P-1254R															
Construction YBM Station P-1255		1651	10-Jun-13 A	27-Jun-19	Construction YBM Station P-1255															
Construction STS P-1256		1622	03-Jun-13 A	05-Sep-19	Construction STS P-1256															
<b>Project Start Up</b>		167	26-Jun-19	10-Dec-19	Project Start Up															
<b>Unallocated Contingency</b>		115	26-Jun-19	10-Dec-19	Unallocated Contingency															
CO1.700	Cost Activity Unallocated Contingency (LOE) - 1.7.500.99.090.00 - Contingency	115	26-Jun-19	10-Dec-19	Cost Activity Unallocated Contingency															

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>CENTRAL SUBWAY PROJECT</b>						693	12-Apr-17 A	10-Dec-19	-249														
<b>Program Level Milestones</b>						0	10-Dec-19	10-Dec-19	-241														
MS0019	Baseline Finish Date: 12-26-2018	0		10-Dec-19*	-241																	◆ Baseline Finish Date: 12-26-2018	
MS0009	CSP Revenue Service Date	0		10-Dec-19*	-241																	◆ CSP Revenue Service Date	
<b>Construction Phase</b>						693	12-Apr-17 A	10-Dec-19	-249														
<b>Construction CN-1300</b>						574	12-Apr-17 A	26-Jun-19	-250														
<b>CN- 1300 Milestone</b>						0	26-Jun-19	26-Jun-19	-250														
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		26-Jun-19*	-502																	◆ Substantial Completion - 1,700 Calendar Days (SP-4)	
BUF1017	STS Buffer Float- (0)	0	26-Jun-19	26-Jun-19	-241																	STS Buffer Float- (0)	
STS1500	CN 1300 Substantial Completion	0		26-Jun-19	-350																	◆ CN 1300 Substantial Completion	
<b>Construction CTS Station P-1254R</b>						576	12-Apr-17 A	26-Jun-19	-358														
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	12-Apr-17 A	22-May-17	-351																	■ Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	01-Jun-17	26-Jun-17	-351																	■ Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	27-Jun-17	12-Jul-17	-351																	■ Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	13-Jul-17	26-Jul-17	-351																	■ Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	27-Jul-17	09-Aug-17	-351																	■ Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	10-Aug-17	16-Aug-17	-351																	■ Stage Equipment & Construct Ramp For Crossover Breakin	
CTS.31.71.650	Break-in Crossover Cavern	1	17-Aug-17	17-Aug-17	-351																	■ Break-in Crossover Cavern	
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	18-Aug-17	03-Nov-17	-351																	■ Excavate & Construct Left Sidewall & Headwall 268 Lf	
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	18-Aug-17	03-Nov-17	-351																	■ Excavate & Construct Right Sidewall & Headwall 268 Lf	
CTS.31.71.690	Install Ramp For Center Drift	2	21-Nov-17	22-Nov-17	-351																	■ Install Ramp For Center Drift	
CTS.31.71.700	Excavate & Support Center Drift	35	27-Nov-17	16-Jan-18	-351																	■ Excavate & Support Center Drift	
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	19-Jan-18	01-Feb-18	-351																	■ Excavate & Support Center Bench - Crossover	
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	02-Feb-18	12-Feb-18	-351																	■ Excavate & Construct Invert - Crossover	
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	13-Feb-18	26-Feb-18	-351																	■ Demo Sidewalls, Repair Headwall & Top Joint - Crossover	
CTS.31.74.700	Place Smoothing Concrete - Final Lining invert - Crossover Cavern	15	13-Mar-18	29-Mar-18	-424																	■ Place Smoothing Concrete - Final Lining invert - Crossover Cavern	
CTS.31.74.705	Install Waterproofing - Final Lining invert - Crossover Cavern	15	30-Mar-18	16-Apr-18	-424																	■ Install Waterproofing - Final Lining invert - Crossover Cavern	
CTS.31.74.715	Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	20	17-Apr-18	09-May-18	-424																	■ Install Rebar & Grout Piping - Final Lining invert - Crossover Cavern	
CTS.31.74.710	Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	6	10-May-18	16-May-18	-424																	■ Place Smoothing Concrete - Final Lining Invert -Cross Cut Cavern	
CTS.31.74.725	Place Concrete - Final Lining invert - Crossover Cavern	20	10-May-18	01-Jun-18	-424																	■ Place Concrete - Final Lining invert - Crossover Cavern	
CTS.31.74.960	Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	5	17-May-18	22-May-18	-424																	■ Install Waterproofing & Grout Pipes - Final Lining Invert -Cross Cut Cavern	
CTS.31.74.970	Install Rebar - Final Lining Invert -Cross Cut Cavern	10	23-May-18	02-Jun-18	-424																	■ Install Rebar - Final Lining Invert -Cross Cut Cavern	
CTS.31.74.980	Place Concrete - Final Lining Invert -Cross Cut Cavern	10	04-Jun-18	14-Jun-18	-424																	■ Place Concrete - Final Lining Invert -Cross Cut Cavern	
CTS.31.74.990	Install Waterproofing - Final Lining Arches - Crosscut Cavern	15	15-Jun-18	02-Jul-18	-424																	■ Install Waterproofing - Final Lining Arches - Crosscut Cavern	
CTS.31.74.10	Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	15	21-Jun-18	07-Jul-18	-424																	■ Install Rebar & Grout Piping - Final Lining Arches - Crosscut Cavern	
CTS.31.74.350	Shotcrete Final Lining Arches - Crosscut Cavern	20	02-Jul-18	24-Jul-18	-424																	■ Shotcrete Final Lining Arches - Crosscut Cavern	
CTS.03.30.760	Shore/Rebar/Form Pour Track Slab - Crosscut Cavern	15	25-Jul-18	14-Aug-18	-350																	■ Shore/Rebar/Form Pour Track Slab - Crosscut Cavern	
CTS.03.30.780	Rebar/Form/ Pour Platforms - Crosscut Cavern	20	08-Aug-18	05-Sep-18	-350																	■ Rebar/Form/ Pour Platforms - Crosscut Cavern	
CTS.03.30.770	Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern	15	22-Aug-18	12-Sep-18	-350																	■ Shore/Rebar/Form Pour Concourse Level Slab - Crosscut Cavern	
CTS.09.83.664	CTS_PL 05 Spray - Set Up Scaffold- Platform Level	5	13-Sep-18	19-Sep-18	-350																	■ CTS_PL 05 Spray - Set Up Scaffold- Platform Level	
CTS.09.83.544	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2	5	20-Sep-18	26-Sep-18	-350																	■ CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster NB - Sector 2	
CTS.09.83.554	CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2	6	27-Sep-18	04-Oct-18	-350																	■ CTS_PL 05 Spray - Acoustical Vermiculite Wall Plaster SB - Sector 2	
CTS.34.21.122	CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Track - Sec	3	05-Oct-18	09-Oct-18	-350																	■ CTS_PL Station Platform: Install - Traction Power Box PS01 @ SB Track	
CTS.34.05.160	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Traction Power)	5	10-Oct-18	16-Oct-18	-350																	■ CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS05 (Traction	
CTS.34.05.170	CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Traction Power)	5	17-Oct-18	23-Oct-18	-350																	■ CTS_PL_Install Conduit SB Positive Feeder Box PS01 to PS07 (Traction	
CTS.34.05.180	CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Traction Power)	4	24-Oct-18	29-Oct-18	-350																	■ CTS_PL_Install:Conduit SB Positive Feeder Box PS02 to PS08 (Traction	
CTS.03.46.980	CTS_PL Station Platform: Install - GFRC Perforated Wall Panel System SB - S	15	30-Oct-18	19-Nov-18	-350																	■ CTS_PL Station Platform: Install - GFRC Perforated Wall Panel Sys	
CTS.03.46.164	CTS_PL Station Platform: Install - GFRC Perforated Ceiling Panels - Sector 2	15	20-Nov-18	12-Dec-18	-350																	■ CTS_PL Station Platform: Install - GFRC Perforated Ceiling Pane	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CTS.14.31.265	Set Escalator Trusses 1 & 2 (Concourse to Platform) - Crosscut	2	13-Dec-18	14-Dec-18	-350									█	█	█	█						
CTS.14.31.275	CTS_PL Assemble Components Escalator #1	14	17-Dec-18	07-Jan-19	-350									█	█	█	█						
CTS.14.31.415	CTS_PL Assemble Components Escalator #2	15	08-Jan-19	28-Jan-19	-350									█	█	█	█						
CTS.09.66.616	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Flooring Sector 2	5	29-Jan-19	04-Feb-19	-350									█	█	█	█						
CTS.09.66.618	CTS_PL Station Platform Cross-Cut Cavern: Install - Terrazzo Cove Base Sect	5	05-Feb-19	11-Feb-19	-350									█	█	█	█						
CTS.09.66.620	CTS_PL Station Platform Cross-Cut Cavern: Grind & Polish - Terrazzo Floorin	10	12-Feb-19	25-Feb-19	-350									█	█	█	█						
CTS.14.24.255	CTS-PL 05: Assemble Elevator #1	15	26-Feb-19	18-Mar-19	-350									█	█	█	█						
CTS.14.24.265	CTS-PL 05: Assemble Elevator #2	13	19-Mar-19	04-Apr-19	-350									█	█	█	█						
CTS.14.24.275	CTS-PL 05: Install Elevator Power & Controls	9	05-Apr-19	17-Apr-19	-350									█	█	█	█						
CTS.08.44.265	CTS_PL Install Elevators 1 & 2 Glass Enclosure - Crosscut Platform Level	9	05-Apr-19	17-Apr-19	-350									█	█	█	█						
CTS.08.44.580	Install Elevators 1 & 2 Glass Enclosure - Crosscut Concourse Level	9	05-Apr-19	17-Apr-19	-350									█	█	█	█						
CTS.14.24.285	CTS-PL 05: Startup & Test Elevators 1&2	4	18-Apr-19	23-Apr-19	-350									█	█	█	█						
CTS.14.24.295	CTS-PL 05:Inspections - Elevators 1&2	1	24-Apr-19	24-Apr-19	-350									█	█	█	█						
CTS.01.80.00	CTS- Building Systems Start-up & Testing	44	25-Apr-19	26-Jun-19	-350									█	█	█	█						
<b>Project Start Up</b>		<b>167</b>	<b>26-Jun-19</b>	<b>10-Dec-19</b>	<b>-349</b>																		
STU1010	S&S Certification / Pre-Revenue Activities	115	26-Jun-19	10-Dec-19	-241									█	█	█	█						
BUF0018	Muni Float	0	10-Dec-19	10-Dec-19	-241																		

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>CENTRAL SUBWAY PROJECT</b>	2232	08-Jun-11 A	24-Sep-19																																
<b>Construction Phase</b>	2232	08-Jun-11 A	24-Sep-19																																
Construction Tunnels CN-1252	1518	08-Jun-11 A	15-May-15 A																																
1252 Tunnel Contract BIH	1518	08-Jun-11 A	15-May-15 A																																
Contract Milestones	1437	08-Jun-11 A	15-May-15 A																																
General Conditions	1480	01-Aug-11 A	15-May-15 A																																
4th & Bryant St TBM Launch Box Construction	686	30-Mar-12 A	02-Jun-14 A																																
Moscone Station Headwalls	430	14-May-12 A	20-Sep-13 A																																
UMS Station Headwalls	425	24-Jul-12 A	22-Nov-13 A																																
UMS - Remove Geary to Ellis OCS	5	24-Jul-12 A	26-Jul-12 A																																
UMS - Setup Traffic Control for Headwall Construction	1	30-Jul-12 A	30-Jul-12 A																																
North Headwall	237	27-Feb-13 A	22-Nov-13 A																																
South Headwall	404	31-Jul-12 A	22-Nov-13 A																																
4th St and Market Compensation Grouting	707	28-Jan-13 A	30-Apr-15 A																																
Southbound Tunneling	451	27-Apr-13 A	13-Oct-14 A																																
Ellis St Compensation Grouting	561	31-Jul-12 A	09-May-14 A																																
Green St Compensation Grouting	320	05-Aug-13 A	30-Jun-14 A																																
Retrieval Shaft	1070	31-Oct-11 A	20-Mar-15 A																																
Cross Passage 1-5	339	22-Mar-14 A	16-Apr-15 A																																
Cross Passage 1	79	14-Jun-14 A	13-Sep-14 A																																
Cross Passage 2	105	10-May-14 A	09-Sep-14 A																																
Cross Passage 3	127	31-Mar-14 A	28-Aug-14 A																																
Cross Passage 4	114	22-Mar-14 A	31-Jul-14 A																																
Cross Passage 5	277	31-May-14 A	16-Apr-15 A																																
Portal Structure	196	02-Sep-14 A	15-Apr-15 A																																
Contract Close Out	307	03-Mar-14 A	15-May-15 A																																
Construction CN-1300	1704	03-Jun-13 A	24-Sep-19																																
CN- 1300 Milestone	1635	17-Jun-13 A	24-Sep-19																																
Construction UMS Station P-1253	1704	17-Jun-13 A	27-Jun-19																																
Construction CTS Station P-1254R	1572	17-Jun-13 A	27-Jun-19																																
Construction YBM Station P-1255	1651	10-Jun-13 A	27-Jun-19																																
Construction STS P-1256	1622	03-Jun-13 A	05-Sep-19																																

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>CENTRAL SUBWAY PROJECT</b>						4079	01-Dec-08 A	20-May-20	409														
<b>Light Rail Vehicles</b>						409	29-Aug-16 A	09-May-18	-101														
<b>Real Estate</b>						2154	01-Dec-08 A	26-Apr-17	305														
<b>Construction Phase</b>						3794	04-Jan-10 A	20-May-20	409														
<b>Construction Support and Costs</b>						5314	04-Jan-10 A	20-May-20	573														
<b>Construction Tunnels CN-1252</b>						252	05-Sep-14 A	27-Apr-17	1403														
<b>Construction CN-1300</b>						1704	14-Oct-13 A	24-Sep-19	0														
<b>CN- 1300 Milestone</b>						90	26-Jun-19	24-Sep-19	-272														
<b>Construction UMS Station P-1253</b>						1702	14-Oct-13 A	26-Jun-19	64														
<b>Preconstruction</b>						1373	25-Sep-14 A	26-Jun-19	-358														
<b>Engineering &amp; Procurement</b>						1225	14-Oct-13 A	29-Jul-18	-161														
<b>Site Work / Utility Relocation</b>						58	13-Nov-18	06-Feb-19	-203														
<b>Roof Deck Excavation,Construction,Restoration</b>						330	16-Nov-15 A	20-Sep-17	510														
<b>Excavation &amp; Support</b>						408	16-Jun-16 A	26-Dec-17	-247														
UMS.31.50.0250	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)	10	16-Jun-16 A	26-Apr-17	-281	UMS_Excavate. Lag & Support @ Access Shaft #2 (O'Farrell)																	
UMS.31.23.730	UMS_Dewatering Maintainance	213	20-Jun-16 A	07-Aug-17	-144	UMS_Dewatering Maintainance																	
UMS.03.37.0700	UMS_Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Level Sta 132+50 t	10	08-Aug-16 A	12-May-17	-293	UMS_Install Drain Pipe & Grout Fill Void Between Piles - Roof To Concourse Level Sta 132+50 to South Headwall																	
UMS.31.20.1120	UMS_Excavate to Bottom of North Concourse Slab (Intermediate Strut Level)	5	06-Sep-16 A	26-Sep-17	-236	UMS_Excavate to Bottom of North Concourse Slab (Intermediate Strut Level)																	
UMS.03.30.1525	UMS_Form/Rebar/Pour Invert Slab For South Concourse Escalator Upper Landing	10	25-Oct-16 A	10-May-17	-98	UMS_Form/Rebar/Pour Invert Slab For South Concourse Escalator Upper Landing																	
UMS.05.12.0895	UMS_Install & Pre-Load Permanent Struts - Mezzanine Level Sta 132+50 To South Headwall	11	20-Mar-17 A	18-May-17	-293	UMS_Install & Pre-Load Permanent Struts - Mezzanine Level Sta 132+50 To South Headwall																	
UMS.31.20.0985	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50 To South Head	8	31-Mar-17 A	31-May-17	-292	UMS_Excavate Bench to Platform Strut Level & Expose Wide Flange Sta 132+50 To South Headwall																	
UMS.31.20.1345	UMS_Remove Temporary Struts & Wales For South Concourse Escalator	3	10-May-17	15-May-17	-98	UMS_Remove Temporary Struts & Wales For South Concourse Escalator																	
UMS.31.43.150	UMS_Compensation Grouting - As Required	10	12-May-17	25-May-17	-156	UMS_Compensation Grouting - As Required																	
UMS.05.12.1200	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To North Headwall	10	12-May-17	25-May-17	-293	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To North Headwall																	
UMS.03.30.1535	UMS_Form/Rebar/Pour Walls For South Concourse Escalator Upper Landing	10	15-May-17	30-May-17	-98	UMS_Form/Rebar/Pour Walls For South Concourse Escalator Upper Landing																	
UMS.05.12.1220	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To North Headwall	10	18-May-17	01-Jun-17	-293	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To North Headwall																	
UMS.05.12.1210	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To South Headwall	10	19-May-17	02-Jun-17	-291	UMS_Install Permanent Wales Platform Strut Level Sta 132+50 To South Headwall																	
UMS.03.37.0995	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platfm Strut Le	10	19-May-17	02-Jun-17	-261	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platfm Strut Level Sta 132+50 To So Head																	
UMS.05.12.1230	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To South Headwall	10	23-May-17	06-Jun-17	-291	UMS_Install & Preload Permanent Struts Platform Strut Level Sta 132+50 To South Headwall																	
UMS.03.37.0990	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platfm Strut L	10	02-Jun-17	15-Jun-17	-287	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 2 To Platfm Strut Level Sta 132+50 To No Hw																	
UMS.31.20.1030	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To No	10	02-Jun-17	15-Jun-17	-293	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To North Headwall																	
UMS.31.50.1050	UMS_Install Temporary Struts - Level 3 Sta 132+50 To North Headwall	10	09-Jun-17	22-Jun-17	-288	UMS_Install Temporary Struts - Level 3 Sta 132+50 To North Headwall																	
UMS.31.20.1040	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To So	10	09-Jun-17	22-Jun-17	-293	UMS_Excavate/Demo Liner to Temporary Strut Level 3 & Expose Wide Flange Sta 132+50 To South Headwall																	
UMS.03.37.1020	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To Temp Strut Lev	10	16-Jun-17	29-Jun-17	-287	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To Temp Strut Level 3 Sta 132+50 To No Head																	
UMS.31.20.1060	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To North Headwall	3	23-Jun-17	27-Jun-17	-293	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To North Headwall																	
UMS.31.50.1220	UMS_Install Temporary Struts - Level 3 Sta 132+50 To South Headwall	10	23-Jun-17	07-Jul-17	-288	UMS_Install Temporary Struts - Level 3 Sta 132+50 To South Headwall																	
UMS.03.37.1030	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To Temp Strut Lev	10	23-Jun-17	07-Jul-17	-275	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Platfm Strut Level To Temp Strut Level 3 Sta 132+50 To So Head																	
UMS.05.12.2130	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50	15	03-Jul-17	24-Jul-17	-296	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50 To North Headwall																	
UMS.05.12.1360	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 T	15	03-Jul-17	24-Jul-17	-296	UMS_Attach 60 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 To North Headwall																	
UMS.31.20.1130	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To South Headwall	3	10-Jul-17	12-Jul-17	-288	UMS_Excavate to Bottom of Invert Slab & Expose Wide Flange Sta 132+50 To South Headwall																	
UMS.03.37.1040	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+	10	11-Jul-17	24-Jul-17	-293	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+50 To North Headwall																	
UMS.05.12.1370	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50 T	10	25-Jul-17	07-Aug-17	-296	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To West Side Piles - Sta 132+50 To South Headwall																	
UMS.05.12.1365	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 T	10	25-Jul-17	07-Aug-17	-296	UMS_Attach 40 ea Platform Level Slab Stub Beam Assemblies To East Side Piles - Sta 132+50 To South Headwall																	
UMS.03.37.1050	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+	10	01-Aug-17	14-Aug-17	-291	UMS_Install Studs, Mesh Drain Pipe & Shotcrete Pile Walls Temp Strut Level 3 To Invert Sta 132+50 To South Headwall																	
UMS.31.41.0205	UMS_Install Sheet Piling at Garage Base Slab	10	06-Sep-17	19-Sep-17	-274	UMS_Install Sheet Piling at Garage Base Slab																	
UMS.31.20.1355	UMS_Excavate HVAC Chase Beneath North Concourse Slab (Intermediate Strut Level)	5	27-Sep-17	03-Oct-17	-236	UMS_Excavate HVAC Chase Beneath North Concourse Slab (Intermediate Strut Level)																	
UMS.05.12.2250	UMS_Install W-Section Piles Reinforcement - (Intermediate Strut Level)	10	04-Oct-17	17-Oct-17	-223	UMS_Install W-Section Piles Reinforcement - (Intermediate Strut Level)																	
UMS.31.20.0260	UMS_Excavate to Intermediate Level In Garage	5	19-Dec-17	26-Dec-17	-273	UMS_Excavate to Intermediate Level In Garage																	
<b>Concrete/Shotcrete</b>						574	03-Feb-16 A	03-Aug-18	-133														



Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
	<b>Structural Steel</b>	246	25-Jul-17	13-Jul-18	-262																		
	<b>Masonry</b>	258	25-Aug-17	31-Aug-18	-228																		
	<b>Mechanical</b>	338	25-Aug-17	27-Dec-18	-243																		
	<b>Electrical</b>	444	28-Jul-17	10-Apr-19	-303																		
	<b>Electrical - Transportation</b>	336	04-Aug-17	03-Dec-18	-237																		
	<b>Architectural Finishes</b>	384	11-Aug-17	30-Jan-19	-267																		
	<b>Conveyances</b>	246	11-Jan-18	28-Dec-18	-224																		
	<b>Stairs</b>	385	19-Jun-17	26-Dec-18	-236																		
	<b>Startup &amp; Testing</b>	61	02-Jan-19	27-Mar-19	-296																		
	<b>No 13-Disp</b>	1587	16-Oct-13 A	26-Jun-19	64																		
	<b>Construction CTS Station P-1254R</b>	1492	23-Dec-13 A	27-Jun-19	63																		
	<b>Preconstruction</b>	15	16-Jan-18	05-Feb-18	4																		
	<b>Site Work / Utility Relocation</b>	489	26-Apr-17	01-Apr-19	123																		
	<b>Excavation &amp; Support</b>	619	12-Jun-16 A	05-Nov-18	-188																		
CTS.31.43.140	CTS_ Compensation Grouting - As Required	10	12-Jun-16 A	19-May-17	182																		
CTS.31.50.330	Install Temp Level 6 Struts & Wales & Preload	10	13-Feb-18	26-Feb-18	-346																		
CTS.31.20.335	Excavate to 3' Below Level 7 Struts EL -7.5 Col 4.0-11.0	15	15-Feb-18	07-Mar-18	-346																		
CTS.31.50.370	Install Temp Level 7 Struts & Wales & Preload	10	23-Feb-18	08-Mar-18	-346																		
CTS.31.20.380	Excavate Headhouse to Invert Slab EL -18.67	12	09-Mar-18	26-Mar-18	-346																		
CTS.31.50.070	Remove Level 6 & 7 Struts & Wales	5	13-Jun-18	19-Jun-18	-341																		
CTS.31.50.110	CTS_CN Remove Level 5 Struts & Wales	5	13-Jun-18	19-Jun-18	-346																		
CTS.31.50.150	CTS_CN Remove Level 4 Struts & Wales	5	02-Aug-18	08-Aug-18	-306																		
CTS.31.50.195	Remove Level 3 Struts & Wales	5	28-Sep-18	04-Oct-18	-341																		
CTS.31.50.235	Remove Level 2 Struts & Wales	5	05-Oct-18	11-Oct-18	-332																		
CTS.31.50.240	Remove Level 1 Struts & Wales	5	30-Oct-18	05-Nov-18	-342																		
	<b>Tunnel / Cavern Mining</b>	221	22-Mar-17 A	26-Feb-18	-208																		
CTS.31.71.570	Excavate & Support Top Right Step 3 Invert South Platform Cavern 176Lf	14	22-Mar-17 A	17-May-17	-348																		
CTS.31.71.580	Excavate & Support Top Left Step 3 Invert South Platform Cavern 176Lf	14	12-Apr-17 A	22-May-17	-351																		
CTS.31.71.520	Initial Excavation & Support - South Emergency Egress Tunnel	10	26-Apr-17	10-May-17	-12																		
CTS.31.71.530	Complete Excavation & Support - South Emergency Egress Tunnel	5	10-May-17	17-May-17	-12																		
CTS.31.71.455	Excavation / Support Top Center Drift & Construct Headwall for North Platform Cavern Excavation	13	25-May-17	14-Jun-17	-152																		
CTS.31.71.600	Excavate & Support Top Center Drift Step 4 South Platform Cavern 176Lf	18	01-Jun-17	26-Jun-17	-351																		
CTS.31.71.610	Excavate & Support Center Bench Step 5 South Platform Cavern 176Lf	11	27-Jun-17	12-Jul-17	-351																		
CTS.31.71.620	Excavate & Construct Invert Step 6 South Platform Cavern 176Lf	10	13-Jul-17	26-Jul-17	-351																		
CTS.31.71.475	Excavation / Support Center Bench Invert & Construct Headwall for North Platform Cavern Excav	9	27-Jul-17	08-Aug-17	-181																		
CTS.31.71.630	Demo Sidewalls & Repair Headwall South Platform Cavern 176Lf	10	27-Jul-17	09-Aug-17	-351																		
CTS.31.71.485	Demo Sidewall, Repair Headwall for North Platform Cavern Excavation	10	09-Aug-17	22-Aug-17	-181																		
CTS.31.71.640	Stage Equipment & Construct Ramp For Crossover Breakin	5	10-Aug-17	16-Aug-17	-351																		
CTS.31.71.650	Break-in Crossover Cavern	1	17-Aug-17	17-Aug-17	-351																		
CTS.31.71.660	Excavate & Construct Left Sidewall & Headwall 268 Lf	55	18-Aug-17	03-Nov-17	-351																		
CTS.31.71.670	Excavate & Construct Right Sidewall & Headwall 268 Lf	55	18-Aug-17	03-Nov-17	-351																		
CTS.31.71.800	TB-4 SEM Additional Flashcrete	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.810	TB-5 SEM Additional Shotcrete	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.820	TB-6 SEM Additional Lattice Girders	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.830	TB-7 SEM Additional Steel Arches	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.840	TB-8 SEM Additional Face Bolts	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.850	TB-9 SEM Additional Metal Sheets	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.860	TB-10 SEM Additional Probe Holes	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.870	TB-11 SEM Additional Grout Holes	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.880	TB-12 SEM Additional Permeation Grouting	30	22-Sep-17	02-Nov-17	-223																		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CTS.31.71.890	TB-13 SEM Additional Pocket Excavation	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.900	TB-14 SEM Additional Drilled Gravity Dewatering Pipes/ Gravity Well Points	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.910	TB-15 SEM Additional Vacuum Well Points	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.780	TB-2 SEM Additional Grouted Pipe Spiles	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.790	TB-3 SEM Additional Barrel Vault Pipes	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.770	TB-1 SEM Additional Rebar Spiles	30	22-Sep-17	02-Nov-17	-223																		
CTS.31.71.690	Install Ramp For Center Drift	2	21-Nov-17	22-Nov-17	-351																		
CTS.31.71.700	Excavate & Support Center Drift	35	27-Nov-17	16-Jan-18	-351																		
CTS.31.71.720	Excavate & Support Center Bench - Crossover	10	19-Jan-18	01-Feb-18	-351																		
CTS.31.71.730	Excavate & Construct Invert - Crossover	7	02-Feb-18	12-Feb-18	-351																		
CTS.31.71.740	Demo Sidewalls, Repair Headwall & Top Joint - Crossover	10	13-Feb-18	26-Feb-18	-351																		
<b>Cavern Lining</b>		<b>348</b>	<b>17-May-17</b>	<b>15-Sep-18</b>	<b>-329</b>																		
<b>Concrete/Shotcrete</b>		<b>408</b>	<b>14-Aug-17</b>	<b>06-Mar-19</b>	<b>-324</b>																		
<b>Structural Steel</b>		<b>102</b>	<b>09-Oct-18</b>	<b>05-Mar-19</b>	<b>-326</b>																		
<b>Masonry</b>		<b>102</b>	<b>26-Jul-18</b>	<b>19-Dec-18</b>	<b>-314</b>																		
<b>Mechanical</b>		<b>178</b>	<b>18-Jul-18</b>	<b>22-Mar-19</b>	<b>-336</b>																		
<b>Misc Metal</b>		<b>177</b>	<b>18-Jul-18</b>	<b>28-Mar-19</b>	<b>-331</b>																		
<b>Electrical</b>		<b>186</b>	<b>27-Jul-18</b>	<b>12-Apr-19</b>	<b>-341</b>																		
<b>Electrical - Transportation</b>		<b>79</b>	<b>20-Sep-18</b>	<b>14-Jan-19</b>	<b>-318</b>																		
<b>Architectural Finishes</b>		<b>259</b>	<b>10-Apr-18</b>	<b>16-Apr-19</b>	<b>-300</b>																		
<b>Conveyances</b>		<b>95</b>	<b>13-Dec-18</b>	<b>24-Apr-19</b>	<b>-359</b>																		
<b>Startup &amp; Testing</b>		<b>44</b>	<b>25-Apr-19</b>	<b>26-Jun-19</b>	<b>-350</b>																		
<b>No 13-Disp</b>		<b>1492</b>	<b>23-Dec-13 A</b>	<b>27-Jun-19</b>	<b>63</b>																		
<b>Construction YBM Station P-1255</b>		<b>1591</b>	<b>10-Jan-14 A</b>	<b>26-Jun-19</b>	<b>64</b>																		
<b>Preconstruction</b>		<b>15</b>	<b>16-Jan-18</b>	<b>05-Feb-18</b>	<b>4</b>																		
<b>Excavation &amp; Support</b>		<b>519</b>	<b>25-Apr-16 A</b>	<b>06-Aug-18</b>	<b>-151</b>																		
Y.1.620	Open all Traffic- 4th Street	1	25-Apr-16 A	13-Sep-17	77																		
YBM.31.50.111	Remove Level 6 Struts (Station and Headhouse)	10	04-Aug-17	17-Aug-17	-235																		
YBM.31.50.121	Remove Headhouse Level 4 Struts	10	16-Oct-17	27-Oct-17	-218																		
YBM.31.50.131	Remove Headhouse Level 2 Struts GL 05-08	5	11-Jan-18	17-Jan-18	-218																		
YBM.31.50.141	Remove Headhouse Level 2 Struts GL 08-11	5	09-Feb-18	15-Feb-18	-207																		
YBM.31.20.510	Demo Stair #4 opening/ Excavate to Stair #4 invert Level	10	23-Apr-18	04-May-18	-144																		
YBM.31.20.520	Backfill Stair #4 to Surface Level	10	24-Jul-18	06-Aug-18	-164																		
<b>Concrete/Shotcrete</b>		<b>416</b>	<b>14-Nov-16 A</b>	<b>10-Aug-18</b>	<b>-143</b>																		
<b>Mechanical</b>		<b>5</b>	<b>13-Dec-17</b>	<b>19-Dec-17</b>	<b>-53</b>																		
<b>Electrical</b>		<b>332</b>	<b>07-Jun-17</b>	<b>13-Sep-18</b>	<b>-220</b>																		
<b>Electrical - Transportation</b>		<b>351</b>	<b>26-Apr-17</b>	<b>29-Aug-18</b>	<b>-209</b>																		
<b>Conveyances</b>		<b>160</b>	<b>01-Feb-18</b>	<b>17-Sep-18</b>	<b>-214</b>																		
<b>Startup &amp; Testing</b>		<b>61</b>	<b>24-Jan-19</b>	<b>18-Apr-19</b>	<b>-302</b>																		
<b>No 13-Disp</b>		<b>1591</b>	<b>10-Jan-14 A</b>	<b>26-Jun-19</b>	<b>64</b>																		
<b>Construction STS P-1256</b>		<b>1577</b>	<b>24-Feb-14 A</b>	<b>05-Sep-19</b>	<b>13</b>																		
<b>Preconstruction</b>		<b>15</b>	<b>16-Jan-18</b>	<b>05-Feb-18</b>	<b>4</b>																		
<b>Site Work / Utility Relocation</b>		<b>79</b>	<b>24-May-17</b>	<b>14-Sep-17</b>	<b>-243</b>																		
STS.33.31.260	STS_Install New 18" Sewer Lateral In Welsh St To Future 48" Manhole	5	24-May-17	31-May-17	-209																		
STS.33.31.400	STS_Install New 27" Sewer PipeCasing Connecting Offset Manhole To East MH @ 4th St/Towns	10	19-Jun-17	30-Jun-17	-216																		
STS.33.31.445	Install New 48" Gravity Sewer Main Manhole @ 4th/Welsh St	15	19-Jun-17	10-Jul-17	-268																		
STS.33.31.410	STS_Install New CB's, 10" & 24" Sewer Piping @ 4th St/Townsend - East Side	15	03-Jul-17	24-Jul-17	-216																		
STS.33.31.450	Install New 48" Gravity Sewer Main - Bryant St To Welsh St.	15	11-Jul-17	31-Jul-17	-268																		
STS.33.31.390	STS_Install New Sewer Manhole @ 4th St/Townsend - East Side	10	25-Jul-17	07-Aug-17	-216																		
STS.33.31.120	Install New 36" Force Main Sewer @ 4th/Bryant	10	01-Aug-17	14-Aug-17	-268																		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2017				2018				2019				2020				2021	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
STS.33.31.500	Install New 36" Force Main Sewer 4th St - Bryant To Welsh	7	15-Aug-17	23-Aug-17	-268																		
STS.33.31.505	Install New 36" Force Main Sewer 4th St - Through Welsh St Intersection	5	24-Aug-17	30-Aug-17	-268																		
STS.33.31.525	Install New 36" Force Main Sewer 4th St - Through Brannan St Intersection	10	31-Aug-17	14-Sep-17	-268																		
<b>Concrete/Shotcrete</b>		70	15-Sep-17	27-Dec-17	-14																		
<b>Tunnel Concrete</b>		418	18-Apr-16 A	06-Nov-18	-204																		
<b>Structural Steel</b>		15	28-Feb-18	20-Mar-18	-200																		
<b>Electrical</b>		187	30-Apr-18	24-Jan-19	-286																		
<b>Electrical - Transportation</b>		21	25-Sep-18	23-Oct-18	-292																		
<b>Trackwork</b>		476	14-Nov-16 A	24-Jan-19	-264																		
<b>Track System Work</b>		1192	25-Apr-15 A	05-Sep-19	-334																		
<b>Startup &amp; Testing</b>		80	22-Feb-19	14-Jun-19	-346																		
<b>No 13-Disp</b>		1488	24-Feb-14 A	26-Jun-19	64																		
<b>Unallocated Contingency</b>		115	26-Jun-19	10-Dec-19	-241																		

## *Appendix C*

### **PROJECT SCOPE AND FUNDING OVERVIEW**

## Project Overview

The Central Subway Project will construct a modern, efficient light-rail line that will improve public transit in San Francisco. This new 1.7-mile extension of Muni's T Third Line will provide direct connections to major retail, sporting and cultural venues while efficiently transporting people to jobs, educational opportunities and other amenities throughout the city.

The Central Subway Project is Phase 2 of the San Francisco Municipal Transportation Agency's (SFMTA) Third Street Light Rail Transit Project. Phase 1 of the project constructed a 5.1-mile light-rail line along the densely populated 3rd Street corridor. It began revenue service in April 2007, restoring light-rail service to a high transit-ridership area of San Francisco for the first time in 50 years.

The Central Subway Project will extend the T Third Line from the 4th Street Caltrain Station to Chinatown, providing a direct, rapid transit link from the Bayshore and Mission Bay areas to SoMa, Union Square and downtown.

Four new stations will be built along the 1.7-mile project alignment—an above-ground station at 4<sup>th</sup> and Brannan streets and three underground stations at Moscone Center, Union Square and Chinatown.

The Central Subway will run through the burgeoning technology and digital-media hub in SoMa, where dozens of companies have taken up residence along the 4th Street corridor. Increased



## Project Overview - continued

transit options will attract new employers – the Central Subway makes travel more convenient throughout the corridor and improves connections to downtown, local and regional rail and the Muni bus system.

The Central Subway Project will contribute to San Francisco’s economic competitiveness and help secure the city’s status of a regional, national and global hub. It will provide a pollution-free transit option that will reduce the environmental impact of transportation in the city, save natural resources, reduce traffic congestion and improve public transit for thousands of San Franciscans.

## Funding Overview

The Central Subway Project is funded by the federal government, the State of California, the Metropolitan Transportation Commission, the San Francisco County Transportation Authority (SFCTA) and the City and County of San Francisco.

The majority of funding for the Central Subway Project is expected to be provided by the Federal Transit Administration’s (FTA) New Starts program, with a total commitment over the life of the project of \$942.2 million. To date, \$41 million in Department of Transportation Congestion Mitigation and Air Quality Improvement Program funds have been committed and expended.

With the addition in the December 2013 MPR of work to relocate the retrieval site for two tunnel boring machines (TBMs), the SFMTA’s baseline budget for the Central Subway Project is \$1.588 billion. In total, about half of the Third Street Light Rail Transit Project’s funding is from federal sources, with the remaining half from state and local sources. This is in line with the expectations of the FTA for New Starts-financed programs.

The table below summarizes the local, state and federal fund sources for both phases of the T Third Line including with the addition of the retrieval shaft to the Phase 2 totals.

	T Third (Phase 1)	Central Subway (Phase 2 + Retrieval Shaft Relocation)	Total (Phase 1 + Phase 2 + Retrieval Shaft Relocation)	Percentage of Total
Federal	\$123.380	\$983.225	\$1,106.605	49.5%
State	\$160.700	\$471.100	\$631.800	28.2%
Local	\$364.380	\$133.675	\$498.055	22.3%
<b>Total</b>	<b>\$648.460</b>	<b>\$1,588.000</b>	<b>\$2,236.460</b>	<b>100.0%</b>

*All amounts in millions of dollars*

The six charts that follow summarize use of fund sources by phase and with the addition of the retrieval shaft relocation additional budget and funding:

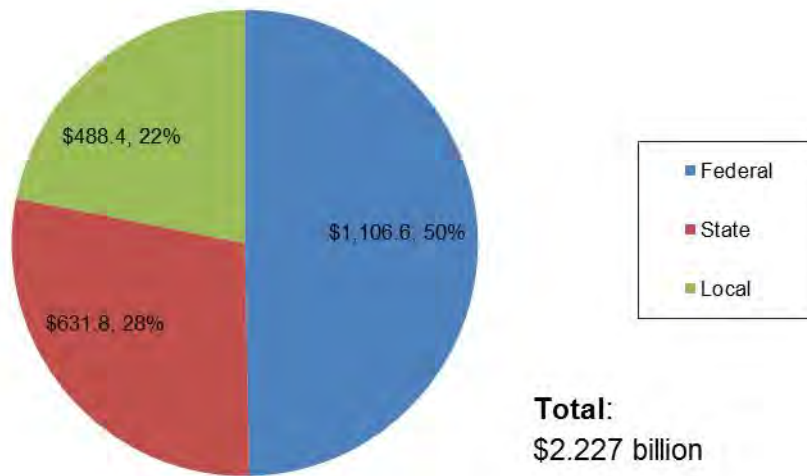
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

## Funding Overview - continued

- Phase 2 Central Subway Project only total funding source percentages previous to the addition of the retrieval shaft relocation budget and funding.
- Phase 2 Central Subway Project only detail of the six State and Local funding sources previous to the addition of the retrieval shaft relocation.
- The next three charts that follow are the above three data sets above with the retrieval shaft relocation budget and funding added to the overall presentation.

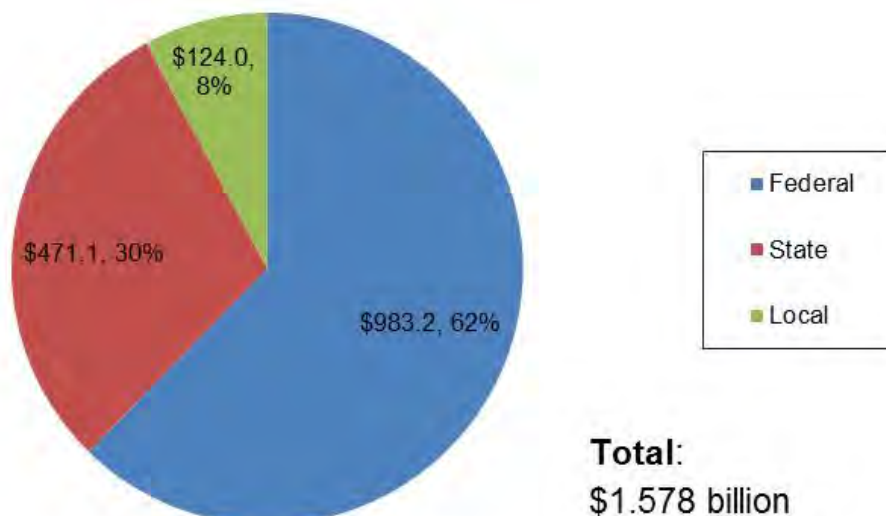
### Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2  
(\$ in millions)



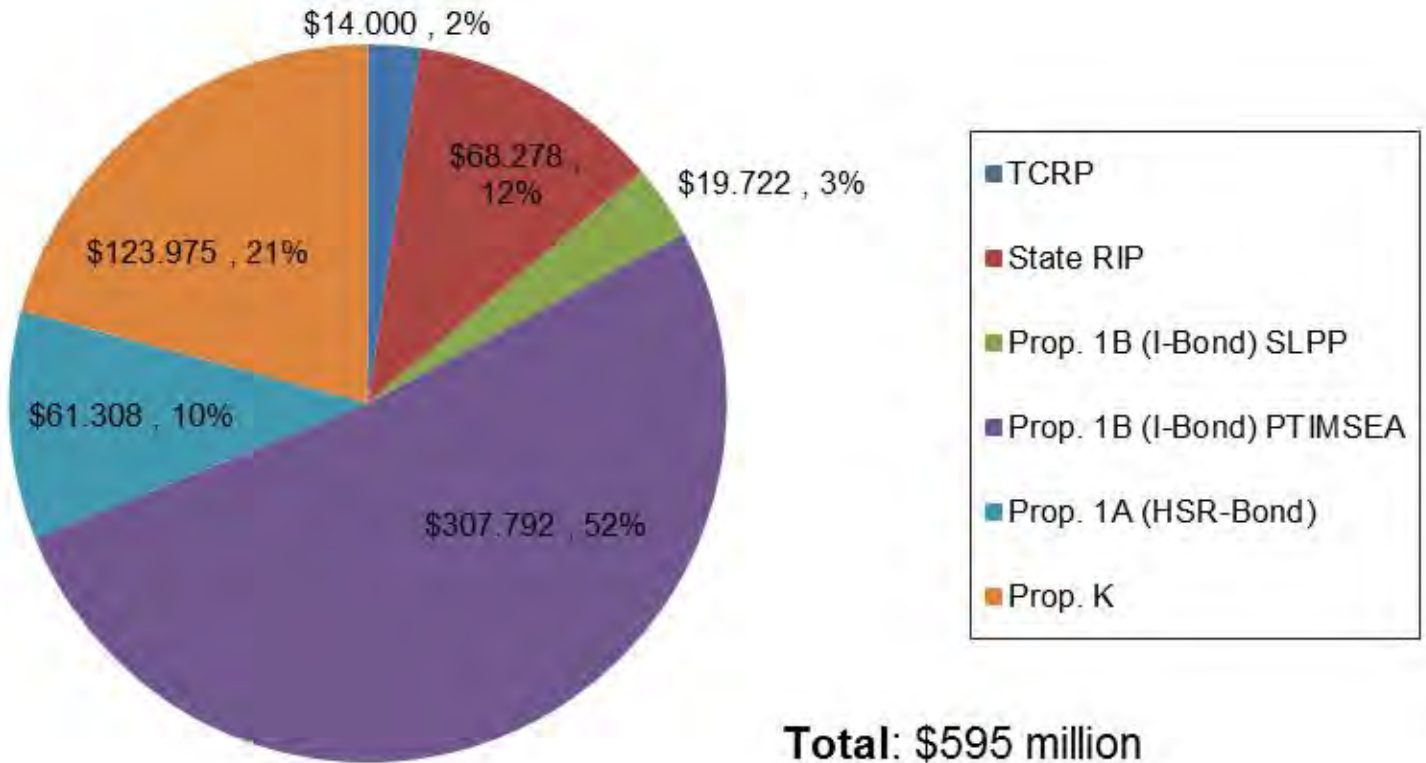
### Central Subway Project Funding

Phase 2  
(\$ in millions)



# State and Local Funding

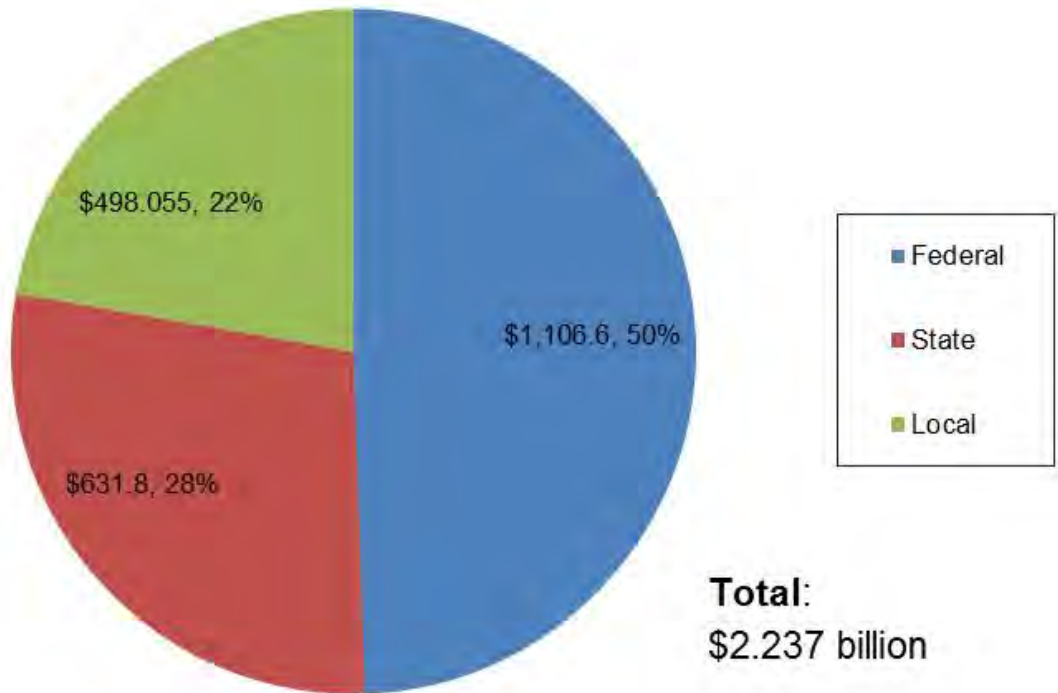
Phase 2  
(\$ in millions)





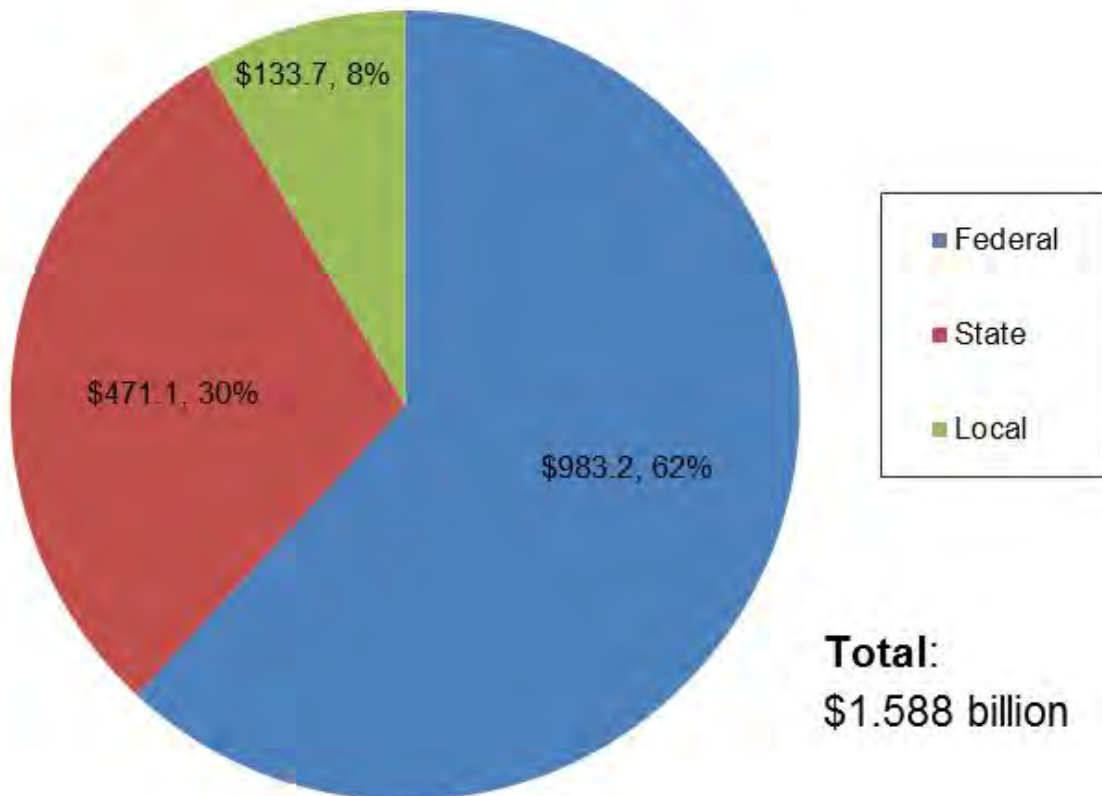
## Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2 + Retrieval Shaft Relocation  
(\$ in millions)

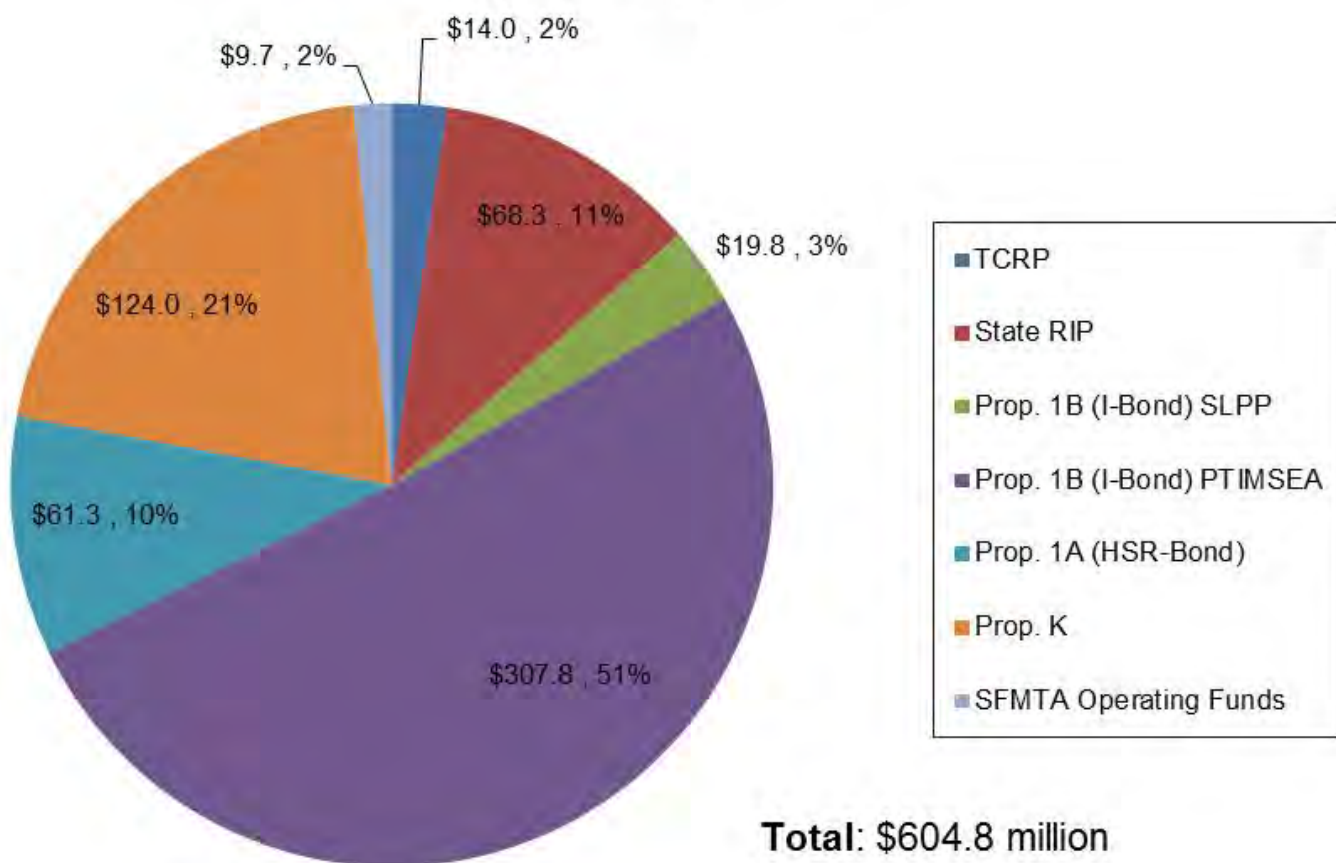


## Central Subway Project Funding

Phase 2 + Retrieval Shaft Relocation  
(\$ in millions)



## State and Local Funding Phase 2 + Retrieval Shaft Relocation (\$ in millions)



*Appendix D*

**COMPLETED CONTRACTS**

# Moscone Station and Portal Utility Relocation

**Contract 1250**

Contractor: Synergy Project Management, Inc.

Category	Amount
Original Budget	\$11,227,316
Expenditures Final	\$11,968,150
Utility Reimbursements	(\$2,275,419)
Final Program Cost	\$9,692,731
<b>Budget Impact (Underrun)</b>	<b>(\$1,534,585)</b>

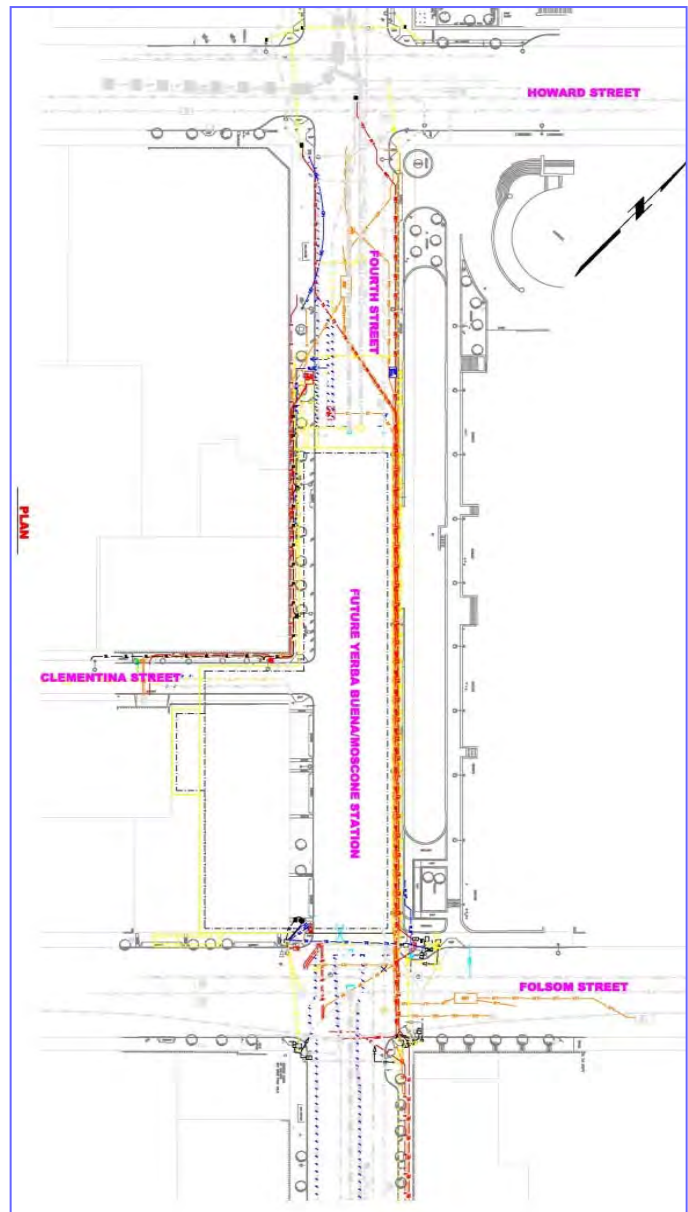
## Description

This project relocates utilities within the footprint of the proposed Yerba Buena/Moscone Station and the 4th Street Portal where the tunnel boring machines will descend underground. Also included is installation of building protections and monitoring of buildings adjacent to utility trenches.

Contract Details	
<b>Contract Awarded:</b>	November 17, 2009
<b>Notice to Proceed:</b>	January 4, 2010
<b>Substantial Completion:</b>	June 23, 2011
<b>Contract Award Value:</b>	\$ 9,273,939
<b>Modifications Final :</b>	\$ 2,694,211
<b>Final Contract Value:</b>	\$11,968,150

## Status

- Work complete
- Project closeout administration and documentation
- Final Completion Date: June 23, 2011



# Union Square/Market Street Station Utility Relocation

**Contract 1251**

Contractor: Synergy Project Management, Inc.

## Budget/Expenditures

Category	Amount
Original Budget	\$22,199,847
Expenditures Final	\$20,794,581
Utility Reimbursements	(7,413,510)
Final Program Costs	\$13,176,169
<b>Budget Impact (Underrun)</b>	<b>(\$9,023,678)</b>

## Contract Details

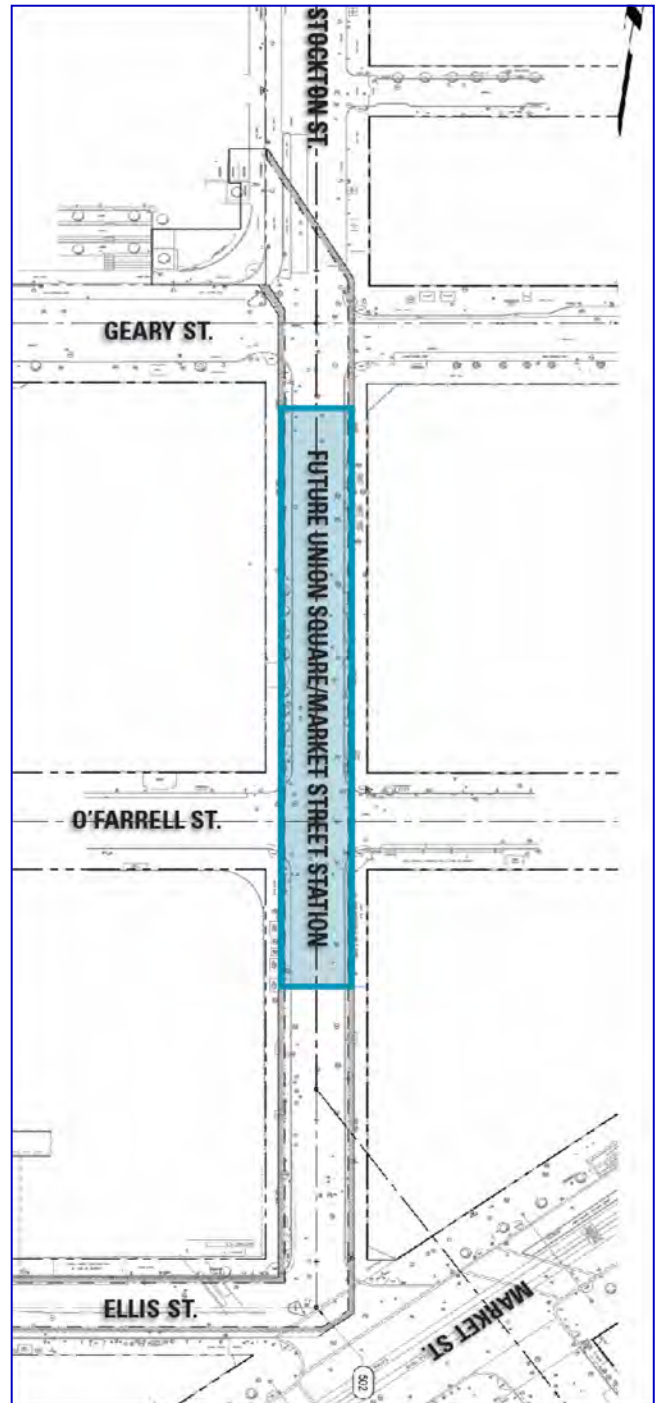
<b>Contract Awarded:</b>	December 7, 2010
<b>Notice to Proceed:</b>	January 12, 2011
<b>Substantial Completion:</b>	August 16, 2012
<b>Contract Award Value:</b>	\$16,832,550
<b>Modifications Final:</b>	\$3,962,031
<b>Final Contract Value:</b>	\$20,794,581

## Status

- Final completion date October 15, 2012.
- Completed punch list work
- Project Final Acceptance by the SFMTA Board of Directors

## Description

This project relocates utilities for the Union Square/Market Street Station and temporarily reroutes existing trolley coach lines around the construction.



# Central Subway Pagoda Palace Demolition

Contract 1277 Contractor: MH Construction

## Work Description

Demolish and clear the former Pagoda Theater for use the site to recover the tunnel boring machines when tunnels are completed in 2015. Locate and supply contractor facilities and installations. Obtain permits and approvals and coordinate work with City agencies and utility companies. Furnish and install signs and distribute notices to the local community prior to commencing with construction, cleanup and remove of debris from the site.

- Work was substantially completed Sept. 24, 2013.
- Administrative closeout in progress.
- Completed administrative closeout in June 2016.

Budget/Expenditures	
Category	Amount
Current Budget	\$648,976
Expenditures to Date	\$648,976

Contract Details	
<b>Contract Awarded:</b>	June 12, 2013
<b>Notice to Proceed:</b>	July 15, 2013
<b>Substantial Completion:</b>	Sept. 24, 2013
<b>Contract Award Value:</b>	\$498,995
<b>Modifications to Date:</b>	\$149,981
<b>Current Contract Value:</b>	\$648,976



# Central Subway Tunneling

Contract 1252 Contractor: Barnard Impregilo Healy Joint Venture

## Description of Work

1.5-mile twin bore tunnels from Hwy I-80 to North Beach using two tunnel boring machines (TBMs). Contractor procurement and installation of the TBMs; construction of the TBM launch box and retrieval shaft excavation support; Yerba Buena/Moscone Station and Union Square/Market Street Station end walls; tunnel excavation and installation of precast segmental lining, the 4th Street portal transition to the surface and cross passages. Throughout, settlement monitoring and protection of existing utilities, buildings and BART tunnels.

## Status

- Final Completion Date: May 15, 2015
- Administrative closeout in progress

Budget/Expenditures	
Category	Amount
Current Budget	\$235,913,500
Other Project Budget	\$5,150,000
Other Offset Credits	\$1,291,078
<b>Expenditures to Date</b>	<b>\$233,572,323</b>

Contract Details	
<b>Contract Awarded:</b>	<b>June 28, 2011</b>
<b>Notice to Proceed 1:</b>	<b>January 27, 2012</b>
<b>Notice to Proceed 2:</b>	<b>March 14, 2012</b>
<b>Partial NTP 3:</b>	<b>April 12, 2012</b>
<b>Notice to Proceed 3:</b>	<b>October 15, 2012</b>
<b>Substantial Completion:</b>	<b>April 13, 2015</b>
<b>Contract Award Value:</b>	<b>\$233,584,015</b>
<b>Modifications to Date:</b>	<b>\$7,935,848</b>
<b>Current Contract Value:</b>	<b>\$241,519,863</b>



## *Appendix E*

### **SBE PARTICIPATION**

Quarterly Report

Current Report: January 2017 – March 2017



**PROGRAM SUPPORT CONTRACTS – SBE PARTICIPATION**

Appendix E presents the Central Subway Program Small Business Enterprise or SBE goals and the actual SBE participation achieved to date – as of March 31, 2017.<sup>1</sup>

**CS Program SBE Summary Table for Professional Services and Construction Contracts**

The summary compares the dollar value of the Base Contracts, the SBE Contract Goals, the percent and dollar value expended to date and the SBE actual participation to date.

**Appendix E - Monthly Progress Report - Reported Quarterly in 2017**  
**CS Program SBE Summary Table for Professional Services and Construction Contracts**

Contract No.	Contractor	Services/Segment	A	B	C	D	E	F	G	
			Contract Amount	SFMTA SBE Contract Goal	Contract Expenditure to Date (Est.)	SBE Actual to Date	SBE Contract \$s = A * B	SBE Amount to Date = C * D	Contractor's SBE Goal (in Bid)	
<b>A Project Professional Services Contracts</b>			millions		millions		millions	millions		
1	149	CS Partnership	Project Management	\$85.14	30%	\$58.54	39.7%	\$25.54	\$23.25	31.4%
2	156	Hill International	Project Controls Task 1	\$17.11	26%	\$9.67	29.0%	\$4.45	\$2.80	26.0%
3	155-1	PB Telemon	Tunnels Design	\$7.94	30%	\$7.94	30.2%	\$2.38	\$2.40	31.6%
4	155-2	CS Design Group	Stations Design	\$35.85	30%	\$35.21	36.7%	\$10.76	\$12.92	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.23	30%	\$14.12	26.7%	\$5.17	\$3.77	30.0%
<b>Subtotal Professional Services</b>				<b>\$163.28</b>		<b>\$125.47</b>		<b>\$48.30</b>	<b>\$45.14</b>	
<b>B Project Construction Contracts</b>			millions		millions		millions	millions		
1	1250	Synergy Inc	Utility Relocation 1	\$11.97	20%	\$11.97	97.2%	\$2.39	\$11.63	96.4%
2	1251	Synergy Inc	Utility Relocation 2	\$20.79	20%	\$20.79	87.4%	\$4.16	\$18.18	94.9%
3	1252	BIH	Tunnels and Portal - in Construction	\$241.29	6%	234.88	5.8%	\$14.48	\$13.58	6.1%
4	1277	MH Construction	Pagoda Demolition	\$0.65	100%	\$0.65	100.0%	\$0.65	\$0.65	100.0%
5	1300	Tutor-Perini	Stations/Track/Systems - in Construction	846.72	20%	\$472.93	18.4%	\$169.34	\$87.15	25.5%
<b>Subtotal Construction Contracts</b>				<b>\$1,121.43</b>		<b>\$741.22</b>		<b>\$191.02</b>	<b>\$131.18</b>	
Contract	Contractor	Services/Segment	Base Contract	SFMTA Goal	Expenditures	SBE Actual	= A * B	= C * D	Bid Goal	
			A	B	C	D	E	F	G	

**SBE Summary Table Notes and Sources:**

- a) Column A is the base contract amount awarded. Column B is the Agency SBE goal percent for each contract awarded.  
 The SFMTA SBE Contract Goals are also on the Central Subway web site under the listing of on-going contracts – see **“Closed and Awarded Contracts”** at this link:  
<http://centralsubwaysf.com/content/closed-and-awarded-contracts>
- b) Column C shows each contract's current amount expended to date (estimated) including accruals. Column D is the actual SBE percent level of each contract based on payments to date.  
 Column E is the expected SBE dollar amount when the contract amount is completed and the SFMTA SBE goal achieved using this calculation: Columns A \* B = Column E, the SBE Expected \$ Amount.  
 Column F is the actual SBE dollar amount out of the total contract expenditure to date:  
 Columns C \* D = Column F, the SBE Expended \$ Amount.  
 The source of the SBE Actual percent to date and dollar amounts are Progress Payment

<sup>1</sup> An SBE is a for-profit, small business concern with a three (3) year average gross revenue not exceeding \$14 million or \$12 million, depending on the scope of work to be performed, that is certified under any of the following programs: the State of California's Small Business Program with the Department of General Services ("State Program"), the City and County of San Francisco's LBE Program ("City Program"), or the California Unified Certification Program ("Federal DBE program").

Applications and Contractor's monthly submittals that may include the current estimated accruals. The BIH SBE percent is from the contractor's progress payment #40, Form 6.

- c) Column G, the Contractor's SBE Goal in the submitted bid, is background information that is not calculated in the table. The table source of the Contractor's SBE Goals is from the SFMTA Contract Compliance Office. A Contractor's SBE goal in the bid is one source used by SFMTA Contract Compliance to assess and propose the Agency's SBE goal for a contract.
- d) The three constructions contracts shown in **bold type, 1250, 1251 and 1277**, with gray background, are completed contracts. Little to no changes will be shown in future reports.
- e) The SBE Hill International Actual to Date SBE participation is 29.0% for the overall SFMTA contract. The Hill International data is for the Central Subway Task 1 portion of the Hill International contract to provide SFMTA Project Controls services and systems.
- f) The SBE SFMTA goal for Contract 1300 Tutor-Perini is 20% SBE with a provision of 50% for trucking.

The 1300 Tutor-Perini SBE percent Actual is based on the SBE data provided in Progress Payment #39, March 2017, SFMTA SBE FORM No. 6.

- g) The SBE SFMTA goal for Contract 1277 MH Construction was based on an SBE set-aside.

### **SBE Participation Details**

The two tables that follow present the Central Subway's professional services and construction contract amounts, expenditures and SBE levels with additional details.

### Active Professional Services Contracts - SBE Participation Details

As of: 3/31/2017

<b>Contract:</b>	<b>Project Management and Construction management</b>	
<b>Contract No.</b>	<b>CS-149 Central Subway Partnership*</b>	
<b>Status:</b>	On-going	
	Base Contract Value	\$85,139,092
	Approved Change Orders	-0-
	Current Contract Value	\$85,139,092
	Expended to Date (est.)	\$58,536,775
	% Expended	68.8%
	SBE SFMTA Goal	30.0%
	SBE Participation	39.7%
<b>Contract:</b>	<b>Project Controls Cost and Schedule Support</b>	
<b>Contract No.</b>	<b>CS 156 Hill International Task 1*</b>	
<b>Status:</b>	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$9,669,141
	% Expended	56.5%
	SBE SFMTA Goal	26.0%
	SBE Participation	28.97%
<b>Contract:</b>	<b>Design Package 1 for CNs 1250, 1251 and 1252 Tunnels</b>	
<b>Contract No.</b>	<b>CS-155-1 PB / Telemon*</b>	
<b>Status:</b>	Design is completed. Construction support ongoing	
	Base Contract Value	\$5,795,000
	Approved Change Orders (7)	\$2,145,159
	Current Contract Value	\$7,940,159
	Expended to Date (est.)	\$7,937,601
	% Expended	100.0%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.2%
<b>Contract:</b>	<b>Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM Stations.</b>	
<b>Contract No.</b>	<b>CS-155-2 Central Subway Design Group*</b>	
<b>Status:</b>	Design is completed. Construction support ongoing	
	Base Contract Value	\$34,228,038
	Approved Change Orders (1)	\$1,626,722
	Current Contract Value	\$35,854,760
	Expended to Date (est.)	\$35,207,277
	% Expended	98.2%
	SBE SFMTA Goal	30.0%
	SBE Participation	36.7%
<b>Contract:</b>	<b>DP 3 Systems, Track work, Surface station.</b>	
<b>Contract No.</b>	<b>CS-155-3 HNTB-B&amp;C*</b>	
<b>Status:</b>	Design is completed. Construction support ongoing	
	Base Contract Value	\$16,822,238
	Approved Change Orders (5)	\$312,814
	Current Contract Value	\$17,232,252
	Expended to Date (est.)	\$14,116,463
	% Expended	81.9%
	SBE SFMTA Goal	30.0%
	SBE Participation	26.7%

\* denote accrual

### Active and Completed Construction Contracts - SBE Participation Details

		<i>Data as of:</i>	3/31/2017
<b>Contract:</b>	<b>Synergy Inc Utility Relocation 1 YBM &amp; Launch Box</b>		
<b>Contract No.</b>	<b>1250</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	Base Contract Value		\$9,273,939
	Approved Change Orders		\$2,694,211
	Final Contract Value		\$11,968,150
	% Expended		100%
	SBE SFMTA Goal		20%
	SBE Participation To Date		97.2%
<b>Contract:</b>	<b>Synergy Inc Utility Relocation 2 UMS</b>		
<b>Contract No.</b>	<b>1251</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	Base Contract Value		\$16,832,550
	Approved Change Orders		3,962,031
	Final Contract Value		\$20,794,581
	% Expended		100%
	SBE SFMTA Goal		20.0%
	SBE Participation To Date		87.4%
<b>Contract:</b>	<b>Pagoda Palace Demolition / MH Construction</b>		
<b>Contract No.</b>	<b>1277</b>		
<b>Status:</b>	<b>Contract is completed and closed out</b>		
	Base Contract Value		\$498,995
	Approved Change Orders		\$149,981
	Current Contract Value		\$648,976
	Expended to Date (est.)		\$648,976
	% Expended		100.00%
	SBE SFMTA Goal		100.0%
	SBE Participation To Date		100.0%
<b>Contract:</b>	<b>Tunnels Barnard/Impregilo/Haley</b>		
<b>Contract No.</b>	<b>1252</b>		
<b>Status:</b>	Construction is underway and ongoing		
	Base Contract Value		\$233,584,015
	Approved Change Orders		\$8,255,506
	Current Contract Value		\$241,839,521
	Expended to Date (est.)		\$234,881,397
	% Expended		97.1%
	SBE SFMTA Goal		6.0%
	SBE Participation To Date		5.8%
<b>Contract:</b>	<b>Stations and Systems / Tutor Perini</b>		
<b>Contract No.</b>	<b>1300</b>		
<b>Status:</b>	Construction is underway and ongoing		
	Base Contract Value		\$839,676,400
	Approved Change Orders		\$7,047,789
	Current Contract Value		\$846,724,189
	Expended to Date (est.)		\$472,931,531
	% Expended		55.9%
	SBE SFMTA Goal		20.0%
	SBE Participation To Date		18.4%

*Photos on the next page:*

In December 2016, Winter Walk was again erected following the tremendous success of past years. Off the Grid food trucks were present offering a wide array of culinary delights and seating was provided for tired shoppers. Winter Walk's pedestrian plaza was set up on Stockton Street between Geary and Ellis.

# central subway

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