

central subway

LED light display in action and other interior finishes being installed at UMS Station



Progress Report

August 2020

CALIFORNIA
WILDFIRES



SFMTA

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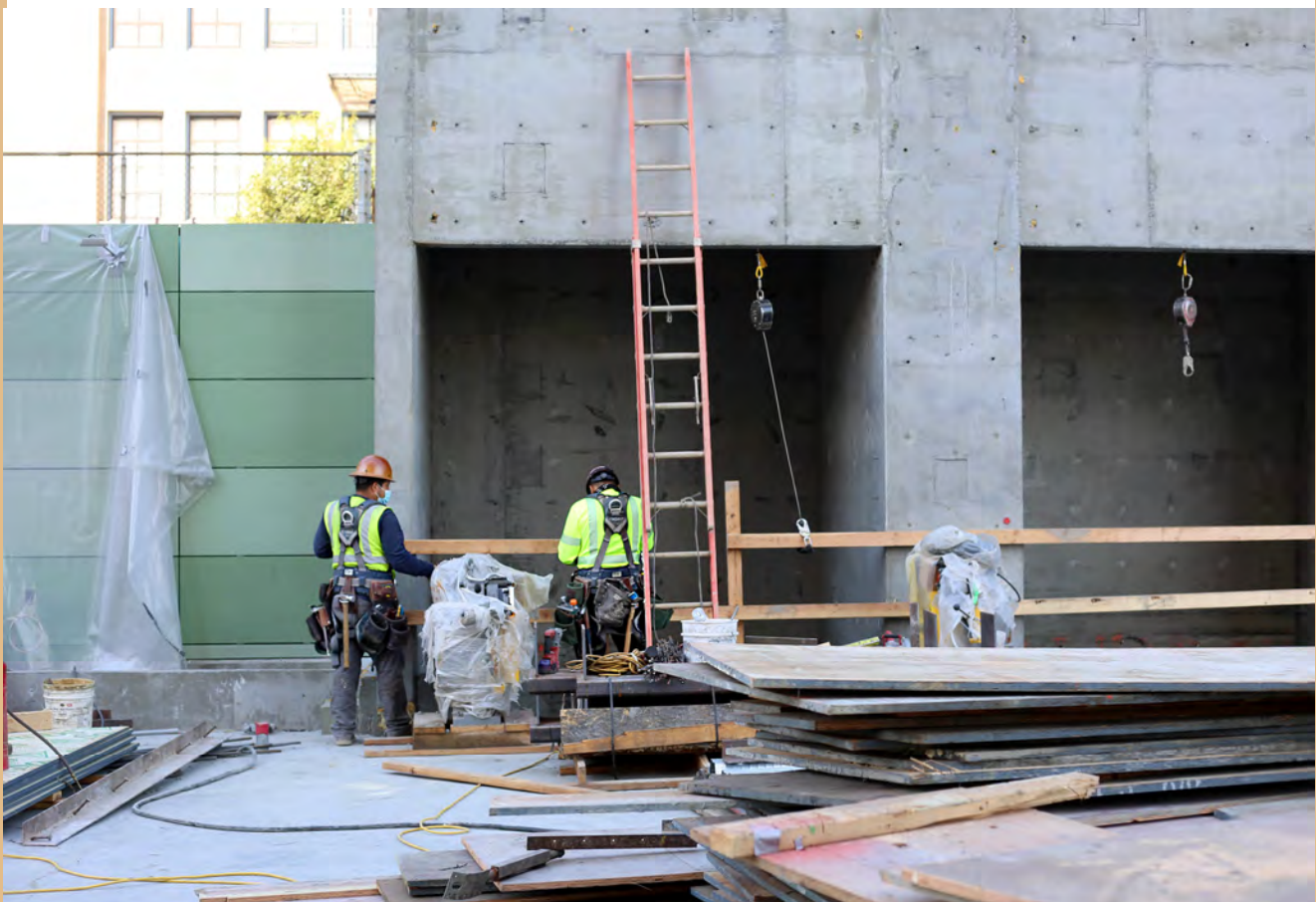
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Cover photo: Work on finishes on Concourse level at Union Square Market Street Station. More photos can be found starting on page 39.

Above photo: Concrete Walls at Rose Pak-Chinatown Station Surface, where the street-level entrance structure has been going up. Steel framing, reinforced concrete walls, and corrugated floor panels are all being added, creating the structure of the new station entrance building and rooftop plaza at Stockton and Washington.

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.centrlsubwaysf.com/>



Workers overlook the installation of panels on the platform of Rose Pak-Chinatown Station

Executive Summary

Coronavirus Pandemic (COVID 19) - Coronavirus Pandemic (COVID 19) - On March 17, 2020, the Mayor and the City's Health Office issued a Public Health Order to "Shelter-In Place" in response to the COVID-19 pandemic. The City's Health Office has issued adjustment to the health order to ensure safety to the public. Construction of the Central Subway project continues to progress and Construction Management team continues to monitor progress. The Contractor reported no new case for this month and all quarantined personnel have returned back to work after completing return to work protocol. The Contractor is following the required protocol to maintain the safety of the work force. The project continues to analyze the impact to the program schedule due to COVID 19 requirements and will share the impacts with our funding partners. Only essential project staff are on site to ensure compliance with the health order and the other staff continues to telecommute. (For additional discussion, please see Safety and Security section on pg. 34)

Chinatown Station - Completed main sewer installation along Washington Street. Continued installing storm, sewer, water piping, refrigerant and fire sprinkler piping at all levels. Continued installing Elevators 1, 2, 3, 4 and Escalator 5 and 6. Continued street work (minor), monitoring and surveying. Continued AWSS piping construction at intersection of Stockton and Washington Streets.

Union Square/Market Street Station - Continued construction, installation and testing of stairs, escalators, elevators, overhead plumbing, fire protection piping, overhead fixture and electrical, ceiling panels, light fixtures and controls, HVAC and Power startup and testing, artwork, and pavement renovation at respective levels—Platform Station, North Concourse, South Concourse, and Street/Surface.

Yerba Buena/Moscone Station - Completed installing light poles near Stair 6, rough-in PDS sign and fire alarm devices at Elevators 3 and 4. Installed drain between escalators and ducks at cut/core openings at Platform. Continued installing Escalators 3 and 4 and Elevators 1 and 2. Continued installing all systems—label conduit, seismic inspection, clearance instrumentation, piling wire and terminating at Station Mezzanine level. Continued terroxy fill, terrazzo, metal wall panels, station agent booth and fronts at escalators and elevators at Headhouse Concourse.

Surface, Track and Systems— Completed ATCS installation at Lenox. Continued traction power conduit and other electrical conduit installation inside tunnel. Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation. Continued 4th/Brannan platform construction. Continued installation of ATCS and radio system.

Total net incurred costs for the project are \$1,594.07 million, a \$36.53 million increase over last month. The total cost to date has exceeded the total project budget of \$1.578 billion. The project continues to review the overall cost. The current Estimate at Completion (EAC) is projected to be \$1.656B or \$77M above the current budget. The project shows a forecast Revenue Service Date of December 2021. (For additional discussion, please see Costs and Schedule on pg.7)

The Stations Contractors' Safety Reports should show any accidents that may occur during the current month. The rates of work site accident incidents by the man hours worked continue to be below industry standards - see tables on page 35

Key Milestones

Installation of decorative lights across the Concourse Level at Union Market Square Station



Decorative light panels on top of the escalators

MILESTONE	DATE EXPECTED
General	
Revenue Service	December 2021
Contract 1300 Stations, Surface, Track, Systems	
Notice to Proceed (NTP 1)	June 17, 2013 (A)
Notice to Proceed (NTP 2)	January 12, 2014 (A)
Substantial Completion	December 28, 2020



Workers using scissor lift to wire light panels



Workers hang from platforms to install panels to escalator walls going from the Concourse Level to the platform

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). The project is working with SFMTA Finance and Grants to identify these additional source of funds to provide for the shortfall. Currently, the project estimates the EAC to be \$1.656B or \$77M above the current budget. The project is working with SFMTA Finance and Grants to identify these additional source of funds to provide for the shortfall. Currently, the project estimates the EAC to be \$1.656B or \$77M above the current budget. This EAC has not been finalized as additional cost will need to be considered including the potential cost of delay due to the current pandemic crisis. When the EAC is revised and the funds are identified, the team will revise the various cost sheets to reflect the new budget and EAC number along with any impacted appendix. The team anticipates that this will take several report cycles to adjust. The team continues to work with SFMTA Finance and Grants to provide the budget shortfall and SFMTA Finance and Grants have identified additional funds when the agency annual budget is approved by the Mayor.

Total net incurred costs for the project are \$1,594.07 million, a \$36.53 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,544.29 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$42.27 million) and estimates of outstanding pay requests (credits of \$4.97 million). This incurred amount exceeds the total project budget of \$1.578 billion.

The current funding level to date has been fully met which includes Operating funds FY2019/2020 \$5,000,000 , PTMISEA (Public Transportation Modernization, Improvement, and Service Enhance Account) FY2020 \$1,752,935 and Other funds of \$2,690,875 totaling \$9,443,810 appropriated in July 2020 . This represents 100% of the total project budget as we have completed the funding of the program. The project team will continue to work with our financial partners to ensure that impacts to the project are minimized and the additional funds exceeding the budget will be met.

Earned Value Analysis

In August 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA August Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary August Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,593,002,941
Earned Value:	\$1,472,939,192
Actual Cost:	\$1,594,065,105
Schedule Performance Index (SPI):	0.92
Cost Performance Index (CPI):	0.92
Percent Complete:	92.4%

*August 2020 Notice: The City continues to experience problems that were caused by error and inaccuracy from the transition from FAMIS to Financial System Project (FSP). An updated methodology has been implemented within the financial reporting that will provide more accurate figures for transactions occurring in fiscal year 2020.

As we continue to address these data quality problems through data cleaning, you will continue to see monthly fluctuations as we detect and remove errors and inconsistencies from data in order to improve on the quality of data so that we will be able to report accurate data.

Schedule Highlights

The Master Project Schedule (MPS) below includes progress through August 2020. The August 2020 Schedule Update submittal from Contract 1300 Contractor was not submitted as the CN1300 Contractor has not provided the updated corrections to their June 2017 through August 2018 Schedule Updates. The Contract 1300 schedule represented in this report is based on the SFMTA August 2020 Schedule Update.

The MPS shows a forecast Revenue Service Date of December 2021 based on a revised assessment of the overall schedule and the current project conditions. The project continues to evaluate this date with potential impact from COVID 19. The schedule team is assessing the risk with this issue and identifying potential mitigation to reduce the risk to the overall schedule. The Contractor is notifying the City that potential delay may have occurred due to the social distancing requirement which is impacting production rates.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. These issues have impacted TPC's Substantial Completion date, we have mitigated the delay by accelerating rail activation activities. TPC and SFMTA are working to reach scope and cost agreements for these contract modifications as TPC refuses to commence work without an approved Contract Modification. The controlling critical (longest) path of the MPS runs through the electrical activities within the tunnel which are impacting the TPC's Startup and Testing and subsequently the rail activation process. The latest schedule shows the longest path running through the Surface, Tracks and Systems (STS).

SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. TPC has not been able to correctly staff the project which could potentially delay the project. In order to achieve the Baseline work productivity, TPC needs to increase the number of crews assigned to electrical work, allowing concurrent work within the tunnel and stations in order to make this completion date possible. It also requires that the front end portion of ATCS Startup and Testing is performed concurrently with TPC's Startup and Testing followed by ATCS software testing in coordination with SFMTA Operations.

Contract 1300 Contractor submitted fifty-four (54) Schedule Updates from December 2014 to July 2019. SFMTA rejected twenty eight (28) Schedule Updates from January 2016 to April 2016 and June 2016 to July 2018 due to multiple and repetitive issues that vary from incorrect working sequences to unrealistic forecasted completion dates to artificially steering the schedule longest path through certain portions of the project. SFMTA approved as noted December 2014 through December 2015, and May 2016 Schedule Updates. Contractor has been directed to provide a Revised Schedule as required by the overall settlement agreement to maintain the forecasted project completion.

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 August 2020 schedule is used within the August Report. The SFMTA Contract 1300 August 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. 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.



Glass and metal ceiling panels hide utility conduits inside the south concourse ceiling for Union Square/Market Street Station.

Schedule Highlights - Continued

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

- Completed installing Stair 7
- Continued installing Stair 5 and 6
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued constructing structural steel for Elevators 1 & 2 at Platform and Concourse levels
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at all levels
- Continued installing GFRC panels at ticketing hall at Concourse level
- Continued pulling service wires at Main Communication room at Lower Mezzanine level
- Continued installing Elevators 1, 2, 3, and 4
- Continued installing Escalator 5 & 6 at Upper Mezzanine level
- Completed construction of Surface level slabs
- Continued construction of Plaza level slabs and PCC 50 Chinatown Plaza walls and stairs
- Continued installing structural steel and fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC layout at Surface level
- Began AWSS piping construction at intersection of Stockton/Washington Streets
- Completed pulling out PG&E feeder conduits for both Normal and Alternate feeders
- Continued street work (minor), ongoing monitoring and surveying

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

Platform Station:

- Stairs, escalators and elevators – including glass enclosure
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Unistrut grid for ceiling panels and LED Artwork on concourse level
- Ceiling panels
- Light fixtures and controls
- Curved metal panel on platform strut level
- Terrazzo on concourse and platform level
- Brackets for artwork on platform strut level
- Fire Alarm /PA / Security System
- Emergency lighting at tunnel tie-in on platform level
- HVAC startup and testing
- Power startup and starting

Schedule Highlights - Continued

North Concourse:

- Stair, escalator and elevators
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Cement plaster finish in various rooms
- Glass wall panels
- LED artwork

South Concourse:

- Stair and escalator
- Overhead electrical, light fixtures and controls
- Ceiling panels
- Glass wall panels including ticket vending machine
- Terrazzo flooring
- Rolling and Grille doors

Street/Surface:

- Precast architectural concrete elements at USG terrace level
- Glass roof walk at USG terrace level
- Landscaping and drainage at USG terrace level
- USG Roof level exhaust vent
- Tap room and emergency command post at surface level
- Pavement renovation at northside of Market street
- North sidewalk plaza at USG terrace level

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

- Continued installing Escalators 3 and 4
- Continued installing Elevators 3 and 4
- Continued installing EV controls at Station Mezzanine
- Continued installing ceiling at Headhouse Concourse
- Continued installing artwork at Headhouse Concourse
- Continued installing Station Agent Booth at Headhouse Concourse
- Continued Systems startup and Acceptance Testing

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

- Continued 4th/Brannan platform construction
- Continued traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical power
- Continued traction power cable installation and terminations
- Started traction power cable testing
- Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation
- Continued installation of end of platform emergency stairs at station interfaces
- Started installation of ATCS system

Master Project Schedule

Activity ID	Activity Name	Original Duration	FSM	FSM	2020	2021	2022	Page 1 of 1
CENTRAL SUBWAY PROJECT								
Program Level Milestones								
P-01000	Central Subway Project Start	03-Jun-19 A	03-Jun-19 A	03-Jun-19 A				
M-01000A	Turnover Complete - Project Milestone #4A	04-Sep-19 A	04-Sep-19 A	04-Sep-19 A				
M-02010	Baseline Finish Date: 12-28-2018	12-Dec-18	12-Dec-18	12-Dec-18				
M-03000	OSP Revenue Service Date	18-Dec-19	18-Dec-19	18-Dec-19				
Preliminary Engineering Phase								
Final Design								
Light Rail Vehicles								
Rail Estate								
Construction Phase								
Construction Support and O&M								
400	Construction Utility Control #1 : MO3 & Portal CN-1250	04-Jan-19 A	04-Jan-19 A	04-Jan-19 A				
440	Construction Utility Control #2 : UMS CN-1251	15-Jun-19 A	15-Jun-19 A	15-Jun-19 A				
410	Construction Tunnels CN-1262	08-Jun-19 A	08-Jun-19 A	08-Jun-19 A				
420	Construction STS P-1268 NYC	04-Apr-19 A	04-Apr-19 A	04-Apr-19 A				
430	Construction STS P-2000 Radio	27-Aug-19 A	04-Sep-19 A	04-Sep-19 A				
440	Construction CN-1300	03-Jun-19 A	03-Jun-19 A	03-Jun-19 A				
450	CH-1300 Milestone	17-Apr-19 A	17-Apr-19 A	17-Apr-19 A				
460	Construction UMS Station P-1263	17-Jun-19 A	17-Jun-19 A	17-Jun-19 A				
470	Construction OTS Station P-1264R	17-Jun-19 A	17-Jun-19 A	17-Jun-19 A				
480	Construction YBR Station P-1265	19-Jun-19 A	19-Jun-19 A	19-Jun-19 A				
490	Construction STS P-1256	03-Jun-19 A	03-Jun-19 A	03-Jun-19 A				
500	Project Start Up	18-Dec-19	18-Dec-19	18-Dec-19				
510	Unallocated Contingency	18-Dec-19	18-Dec-19	18-Dec-19				
Program Level Milestones								
Program Level Milestones								
Baseline Finish Date: 12-28-2018								
OSP Revenue Service Date								
Construction Support and								
Construction Phase								
Construction STS P-1268 NYC								
Construction STS P-2000 Radio								
Construction CH-1300								
CH-1300 Milestone								
Construction UMS Station P-1263								
Construction OTS Station P-1264R								
Construction YBR Station P-1265								
Construction STS P-1256								
Project Start Up								
Unallocated Contingency								
Required Revenue Service Date: 28-Dec-18								
Data Date: 28-Aug-20								
SFMTA Central Subway Project								
Master Project Schedule								
Summary Schedule - August 2020								



Deck for surface level for Rose Pak-Chinatown Station is being fitted with water proof membrane and being prepped for the concrete pour later that week.

Contracts & Construction

Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$941.86 million
- Contract Status: 93.8% 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

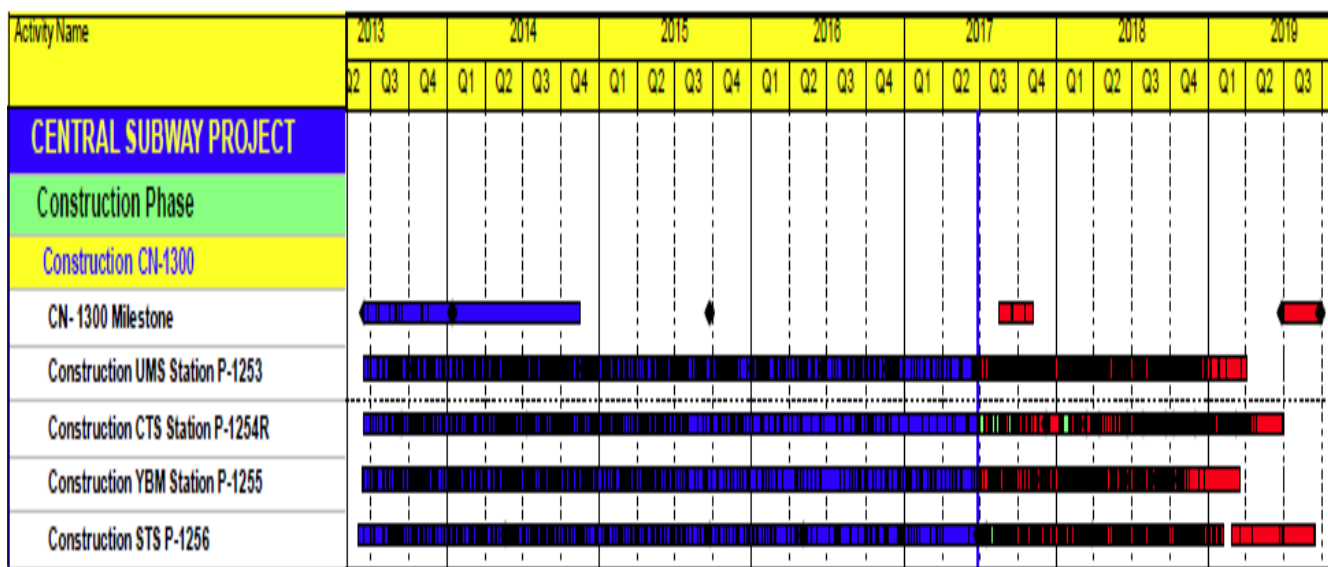
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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:	December 28, 2020
Contract Award Value:	\$839,676,400
Modifications to Date (\$):	\$102,186,331
Modifications to Date (Days):	1,052
Current Contract Value:	\$941,862,731

Budget/Expenditures▲	
Current Budget	\$861,639,691
Other Project Offset Credits	\$9,283,869
Expenditures to Date	\$900,058,829

1300 Summary Schedule



Chinatown Station

Contract 1300 - Work Package 1254R

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 Work Status

- Continued installing Stair 5 and 6
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at all levels
- Continued installing GFRC panels at ticketing hall at Concourse level
- Continued installing Elevators 1, 2, 3, and 4
- Continued installing Escalator 5 & 6 at Upper Mezzanine level
- Continued construction of Plaza roof, walls and stairs
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued installing HVAC at Surface level
- Continued installing GFRC panels at Plaza level



- Continued installing grating at Roof walkways
- Continued AWSS piping construction at intersection of Stockton/Washington Streets and along Washington Street
- Closed north sidewalk of Washington Street to pedestrian traffic
- Continued construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Completed Sewer main installation along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

Work Expected Next Month

- Complete installing Stair 6
- Complete installing Stair 5
- Complete pulling service wires at Equipment Room at Underplatform level
- Continue installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Continue pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level

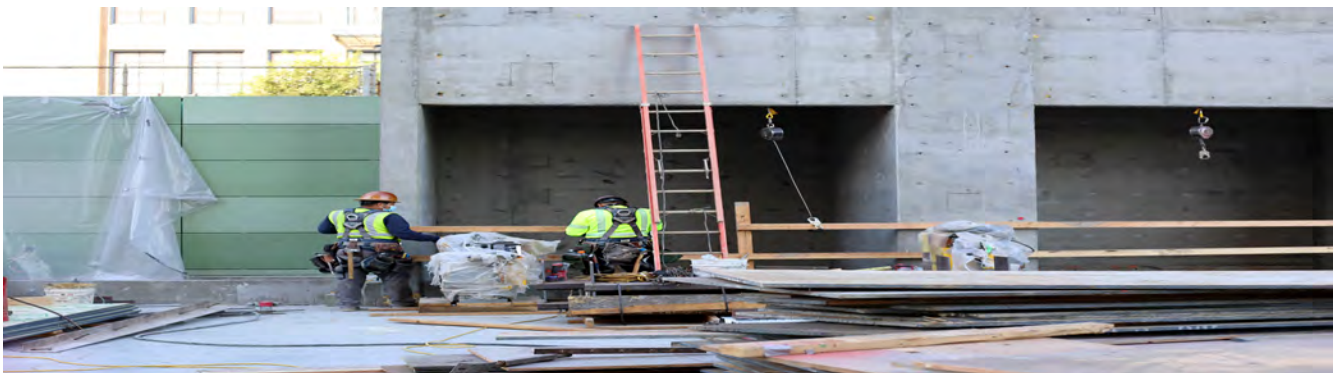
Chinatown Station

- Continue installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at levels 1 to 6
- Continue installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface and Plaza levels
- Complete installing GFRC panels at ticketing hall at Concourse level
- Continue installing Elevators 1, 2, 3, and 4
- Complete installing Escalator 5 & 6 at Upper Mezzanine level
- Complete construction of Plaza roof, walls and stairs
- Continue installing fire proofing for Surface and Plaza level
- Continue installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC installation at Surface level
- Complete AWSS pipe construction at intersection of Stockton/Washington Streets and along Washington Street
- Continue construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Continue underground utility construction (domestic water, drain downspouts, gas line) along Washington Street
- Continued street work (minor), ongoing

monitoring and surveying

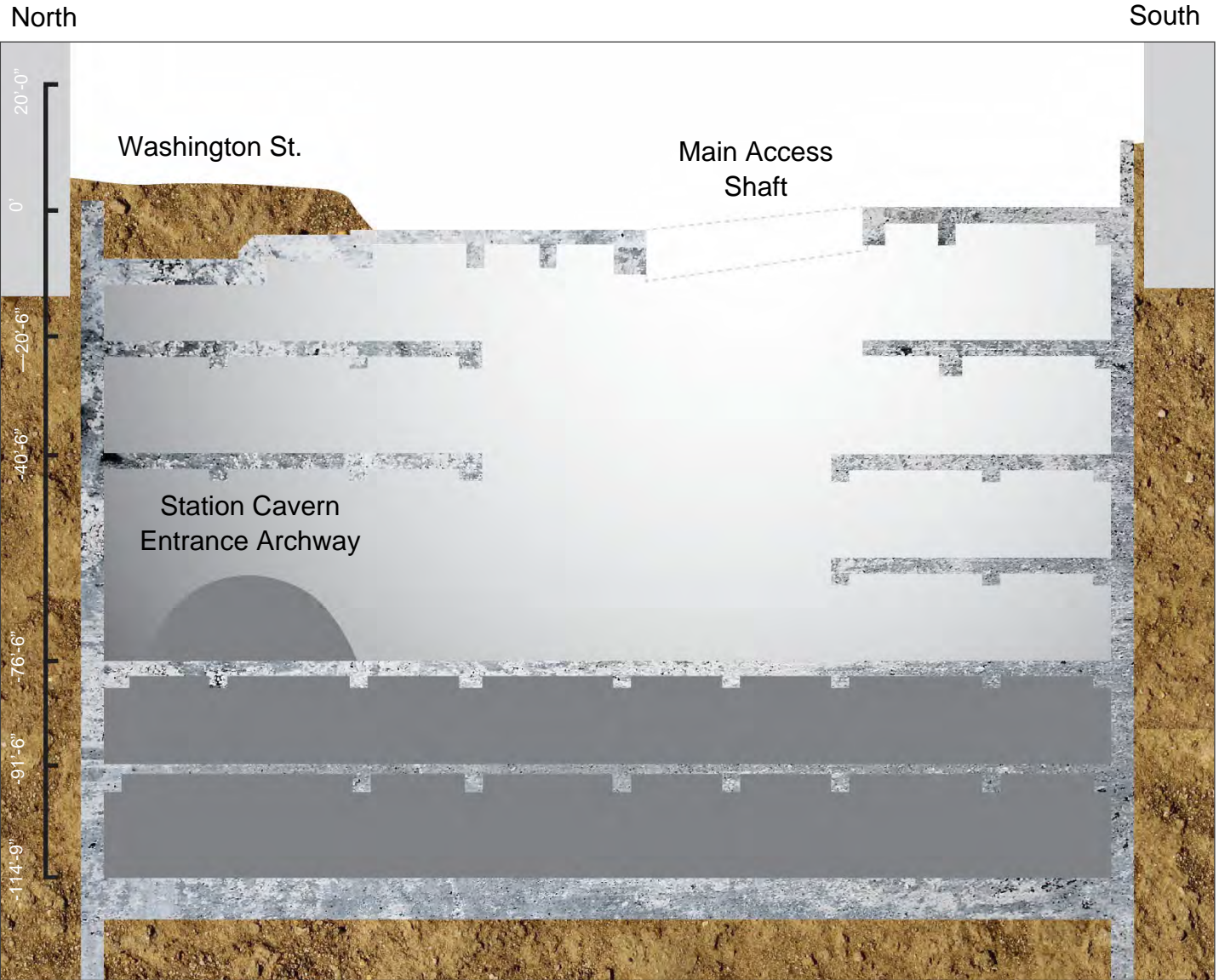
Three Month Look Ahead

- Complete installation of Elevators 1, 2, 3, and 4
- Complete installing mechanical, electrical, plumbing, at Surface, Plaza, and Roof levels at Headhouse
- Complete construction of PCC 50 Chinatown Plaza
- Obtain SFDBI Green tag
- Obtain electrical power from PG&E
- Begin component and system testing
- Abandon dewatering wells on Stockton Street
- Complete traction power conduit installation and OCS at Cavern
- Complete AWSS pipe construction at intersection of Stockton/Washington Streets
- Complete construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Complete underground utility construction (sewer, domestic water, AWSS) along Washington Street
- Complete street restoration along Stockton and Washington Streets



Panels and concrete wall almost complete on top floor of the surface level for Rose Pak-Chinatown Station.

Station Construction Progress Section

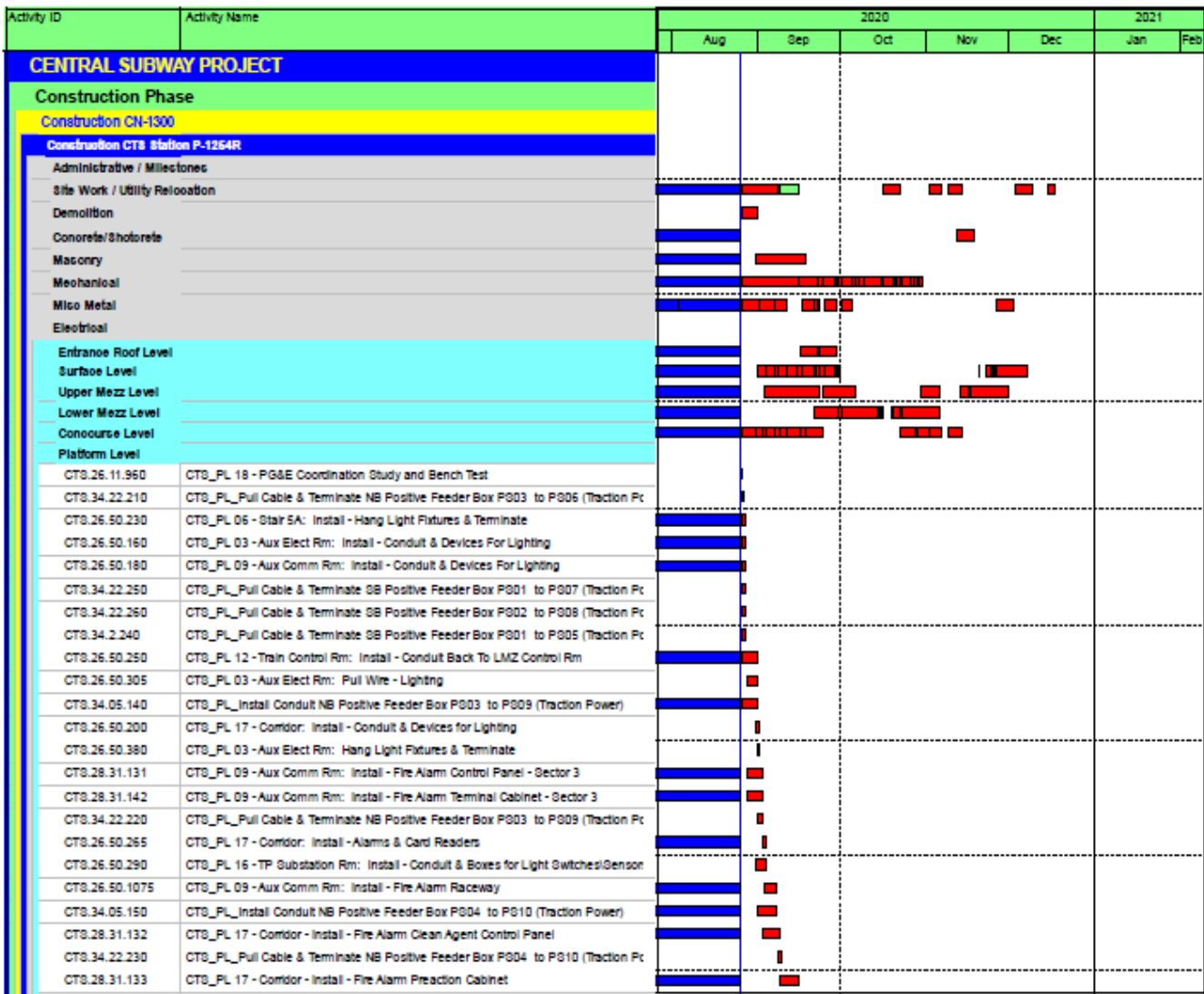


Chinatown Station Construction Status - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	December 28, 2020
Contract Award Value:	\$247,567,810
Modifications to Date (\$):	\$53,619,230
Modifications to Date (Days):	1,052
Current Contract Value:	\$301,187,040

Budget/Expenditures ▾	
Current Budget	\$257,567,810
Other Project Offset Credits	\$6,235,772
Expenditures to Date	\$281,663,672

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 and perform related street work. 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. This work package also involves reconstruction Street work which includes Geary St, O'Farrell St, Ellis Street and Stockton street from Post Street to the intersection of 4th / Ellis St / Market St.



Current Status This Month

Continued construction, installation and testing of the following items at -

Platform Station:

- Stairs, escalators and elevators – including glass enclosure and glass wall panels
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Ceiling panels and LED Artwork on concourse level
- Light fixtures and controls
- Terrazzo on concourse and platform level
- Artwork on platform strut level
- Fire Alarm /PA / Security System
- Emergency lighting and CCTV/ Communication at tunnel tie-in on platform level
- Station agent booth
- HVAC, EV, power and fire alarm startup and testing

Concourse:

- Stair, escalator and elevators
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Glass wall panels
- LED artwork at Stair #1
- Overhead electrical, light fixtures and controls

- Ceiling panels
- Station Agent Booth

Street/Surface:

- Precast architectural concrete elements at USG terrace level.
- Glass roof walk at USG terrace level
- Landscaping and drainage at USG terrace level
- USG Roof level exhaust vent
- Tap room and emergency command post at surface level
- OCS on Stockton Street

Work Expected Next Month

Continued construction, installation and testing of the following items at -

Platform Station:

- Stairs, escalators and elevators – including glass enclosure and glass wall panels
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Ceiling panels and LED Artwork on concourse level
- Light fixtures and controls
- Terrazzo on concourse and platform level
- Artwork on platform strut level
- Fire Alarm /PA / Security System

Union Square/Market Street Station

Contract 1300 Work Package 1253

- Emergency lighting and CCTV/ Communication at tunnel tie-in on platform level
- Station Agent Booth
- HVAC, EV, power and fire alarm startup and testing

Concourse:

- Stairs, escalator, elevators
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- LED artwork
- Overhead electrical, light fixtures and controls.
- Ceiling panels
- Station Agent Booth

Street/Surface:

- Precast architectural concrete elements at USG terrace level
- Glass roof walk at USG terrace level
- Landscaping and drainage at USG terrace level
- USG Roof level exhaust vent
- Tap room and emergency command post at surface level
- OCS on Stockton Street

Three Month Look Ahead

Platform Station:

Completion of the following:

- All structural concrete work
- Stairs, elevators and escalators
- Ceiling panels
- Emergency lighting at tunnel tie-in on platform level
- CCTV/Communication at tunnel tie-in on platform level
- Station Agent Booth

Continued construction / begin installation and testing of the following:

- Fireproofing
- Terrazzo flooring and stairs
- Glass wall panels
- Artwork on concourse and platform level
- Light fixtures and controls
- Fire Alarm/ PA/ Security System
- Overhead plumbing, fire protection piping and overhead fixture and electrical
- Frames and pressurized doors at intermediate strut level
- Access controls
- HVAC and EV startup and testing
- Power and Lighting startup and testing
- Fire Alarm /PA / Security System startup and testing

North Concourse:

Completion of the following:

- Ceiling panels
- Glass wall panels
- Stair, elevators and escalator

Continued construction / begin installation of the following:

- Terrazzo flooring
- Fire Alarm/ PA/ Security System
- Access controls

South Concourse:

Completion of the following:

- Ceiling panels
- Glass wall panels
- Stairs and escalator

Union Square/Market Street Station

Contract 1300 Work Package 1253

Continued construction / begin installation of the following:

- Terrazzo flooring
- Fire Alarm/ PA/ Security System
- Access controls

Street/Surface:

Completion of the following:

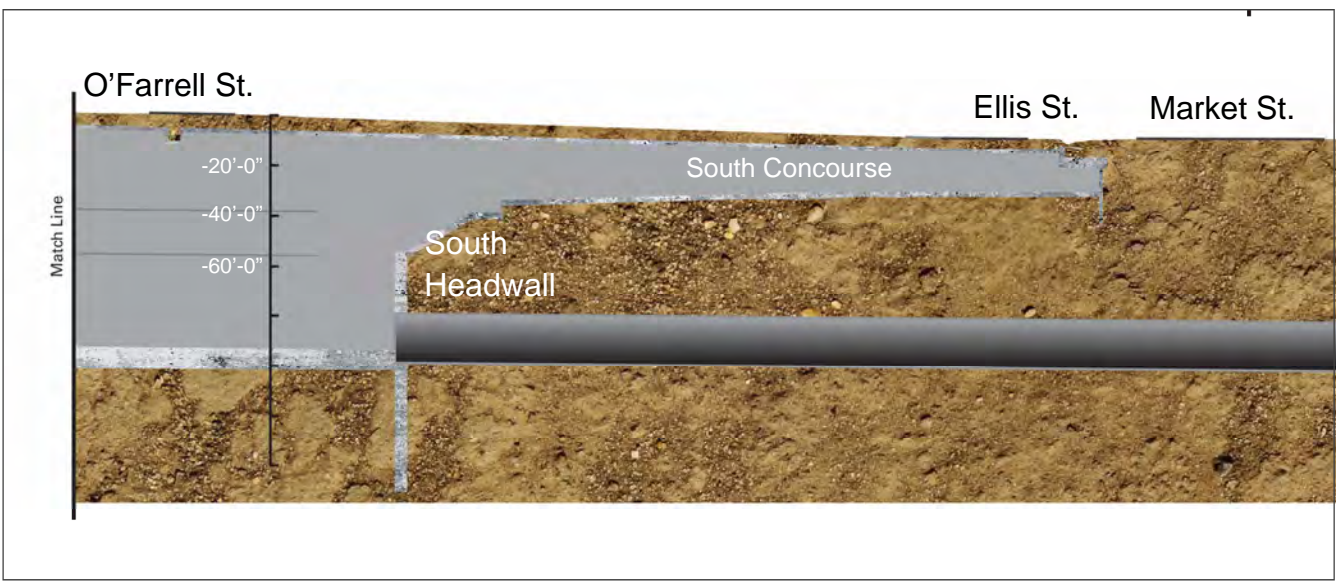
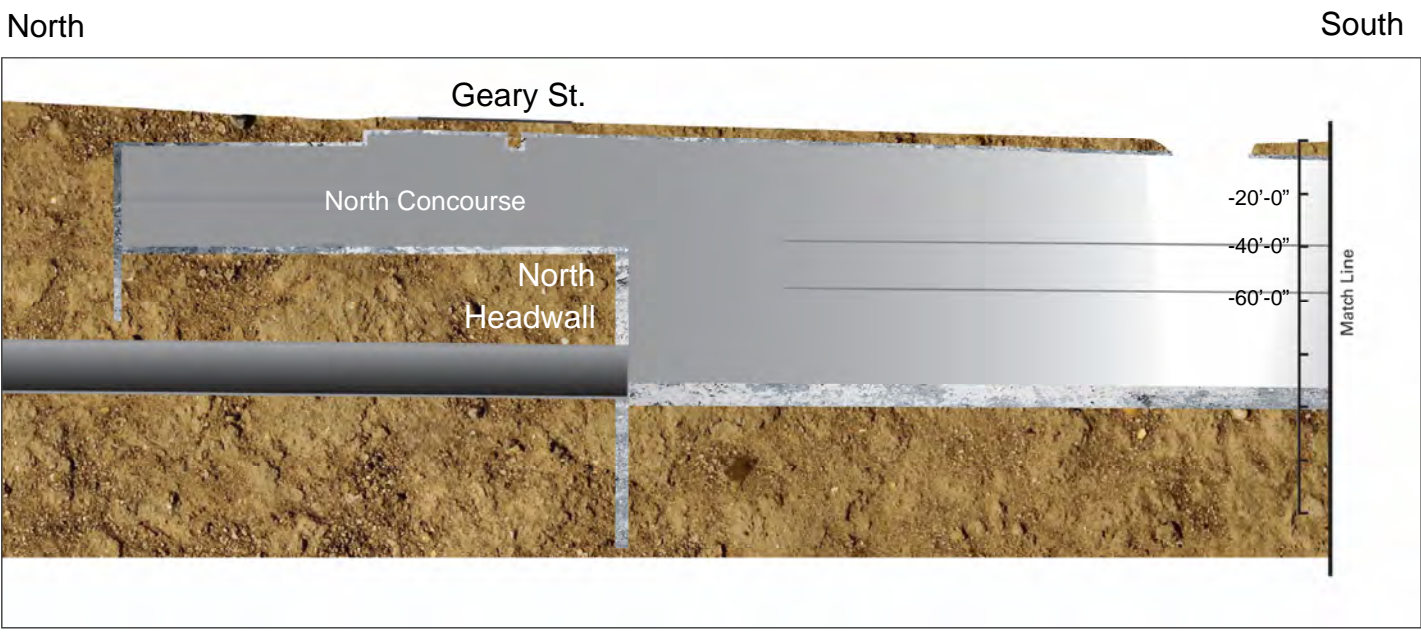
- Glass roof walk artwork on USG Terrace level
- Precast architectural concrete elements for USG terrace level
- Landscaping and drainage at USG terrace level.
- USG Roof level exhaust vent
- Tap room and emergency command post at surface level
- OCS on Stockton Street

Continued construction / begin installation of the following:

- Permanent PG&E historic streetlights at O'Farrell and Stockton Street
- Traffic cabinets



Station Excavation and Construction Progress Section

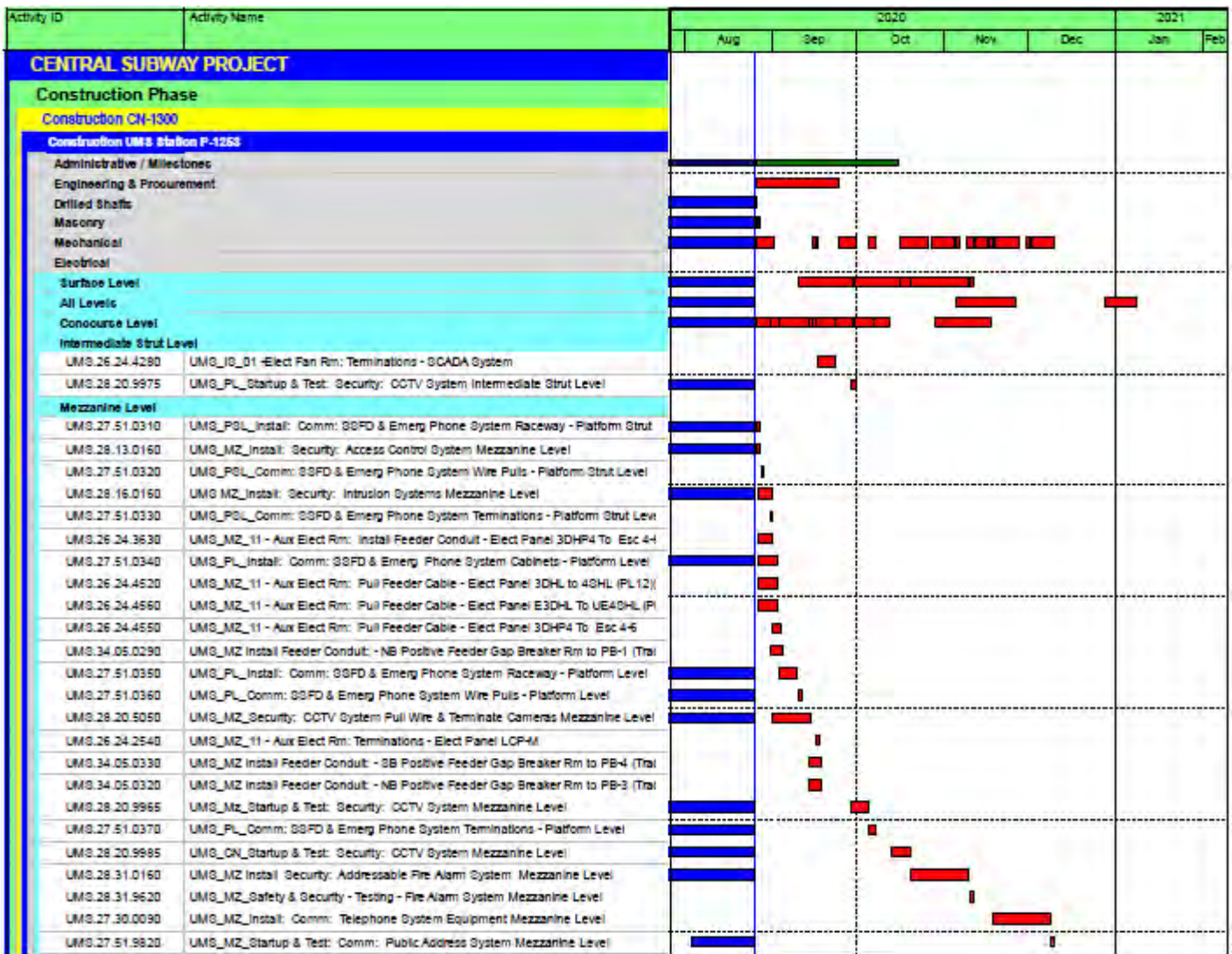


Union Square Market Street Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	December 28, 2020
Contract Award Value:	\$294,030,590
Modifications to Date (\$):	\$9,631,090
Modifications to Date (Days):	1,052
Current Contract Value:	\$303,661,680

Budget/Expenditures ▲	
Current Budget	\$314,030,590
Expenditures to Date	\$299,215,216

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

- Continued installing pavers, coupler and bolts at node and rebar
- Poured Concrete at 4th and Clementina
- Set wood template at node and waterproofed concrete at node and escalators at 4th & Clementina
- Continued installing Elevators 1 & 2
- Continued installing Elevators 3 and 4
- Completed installing light poles near stair 6, rough-in PDS sign and fire alarm devices at Elevators 3 and 4
- Continued installing pavers over blackout at Headhouse Surface Level
- Continued installing sky light glass at Headhouse roof
- Continued installing door frames and doors at Headhouse Mezzanine
- Continued installing all systems- label conduit, seismic inspection and clearance instrumentation, pilling wire and terminating at Station Mezzanine level
- Continued terroxy fill, terrazzo, metal wall panels, station agent booth and fronts at escalators and elevators at Headhouse Concourse level
- Continued installing doors, terrazzo and hardware at Station Concourse level
- Continued removing hydrophilic grout from drainpipes at Main Electrical Room at Headhouse Invert level



- Installed drain between escalators and ducks at cut/core openings at Platform

Work Expected Next Month

- Install runnels and terroxy fill at egress Stair 7
- Install ceiling metal panes and coiling door grille at Headhouse roof
- Deliver and install frames and doors at Headhouse Mezzanine level
- Remove all scaffold and install elevator fronts at Headhouse Concourse level
- Continue installing doors and hardware
- Install benches, rough in FSD, torque conduit racks, fire alarm pull wire and kiosk frames at Platform

Three Month Look Ahead

- Install benches, rough-in FSD, torque conduit racks, fire alarm pull wire and kiosk frames at Platform
- Continue installing doors and hardware

Yerba Buena/Moscone Station

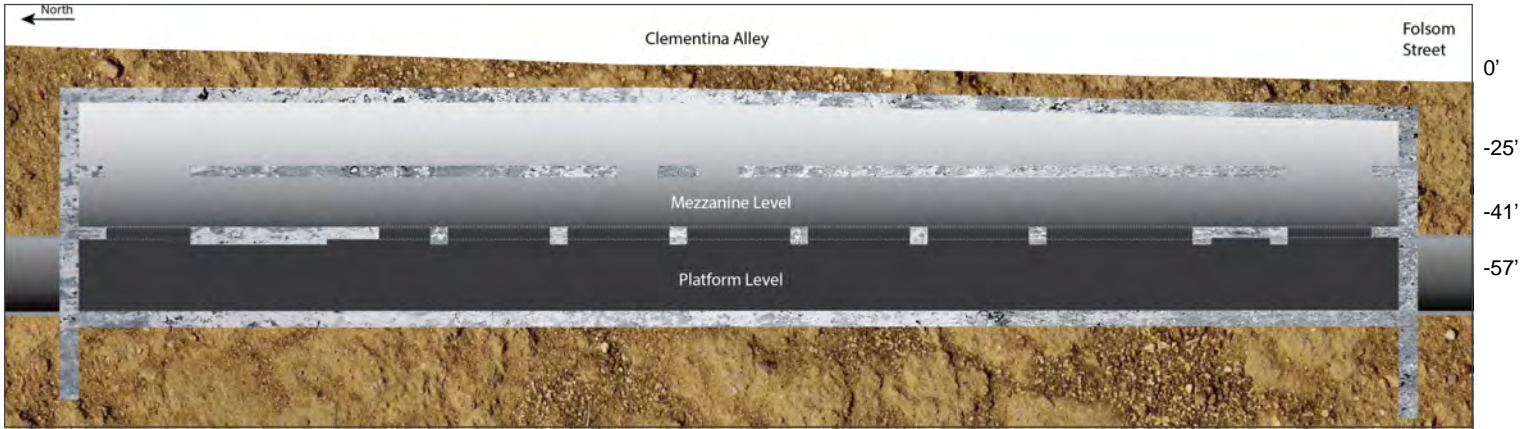
Contract 1300 - Work Package 1255

- Continue interior finishes on Mezzanine & Concourse Levels within Station Box
- Begin installation of sculpture at Surface level
- Complete installation of Artwork in Headhouse Concourse
- Complete installation of Elevators and Escalators 3 and 4
- Complete Finish grinding of Platform and Concourse Station Terrazzo Floors
- Complete installation and finish grinding of Concourse Headhouse Terrazzo Floor
- Complete Platform Kiosks
- Complete Station Agent Booth
- Complete Surface Plaza Area
- Complete Systems Start up and Acceptance Testing
- AT&T – Pull in wires to all building levels. Set trim and terminate devices
- Complete FA system
- Set trim and terminate devices – Test
- Complete CU equipment connect and testing

Station Excavation and Construction Progress Section

North

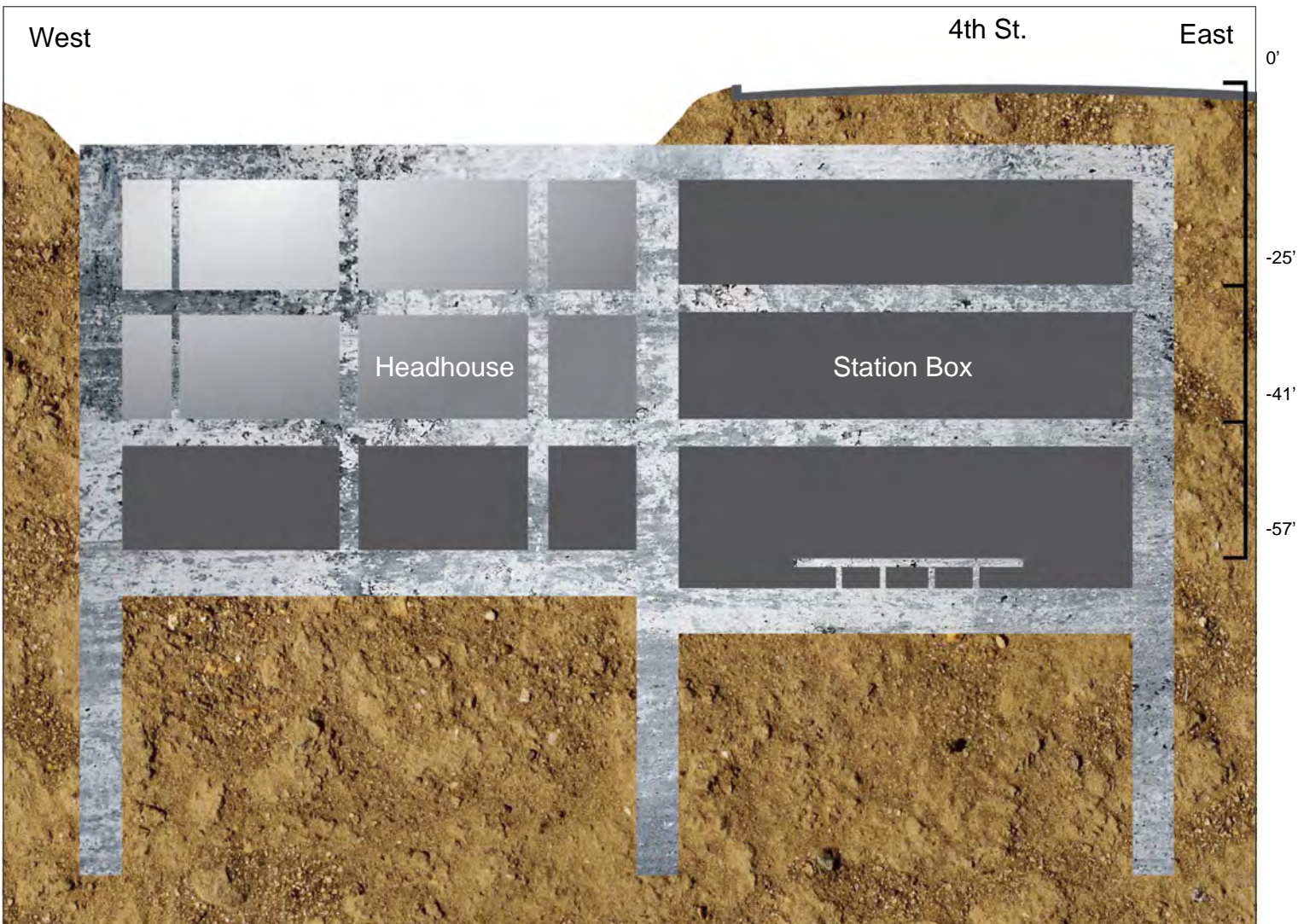
South



West

4th St.

East



Yerba Buena Moscone Station Construction - Continued

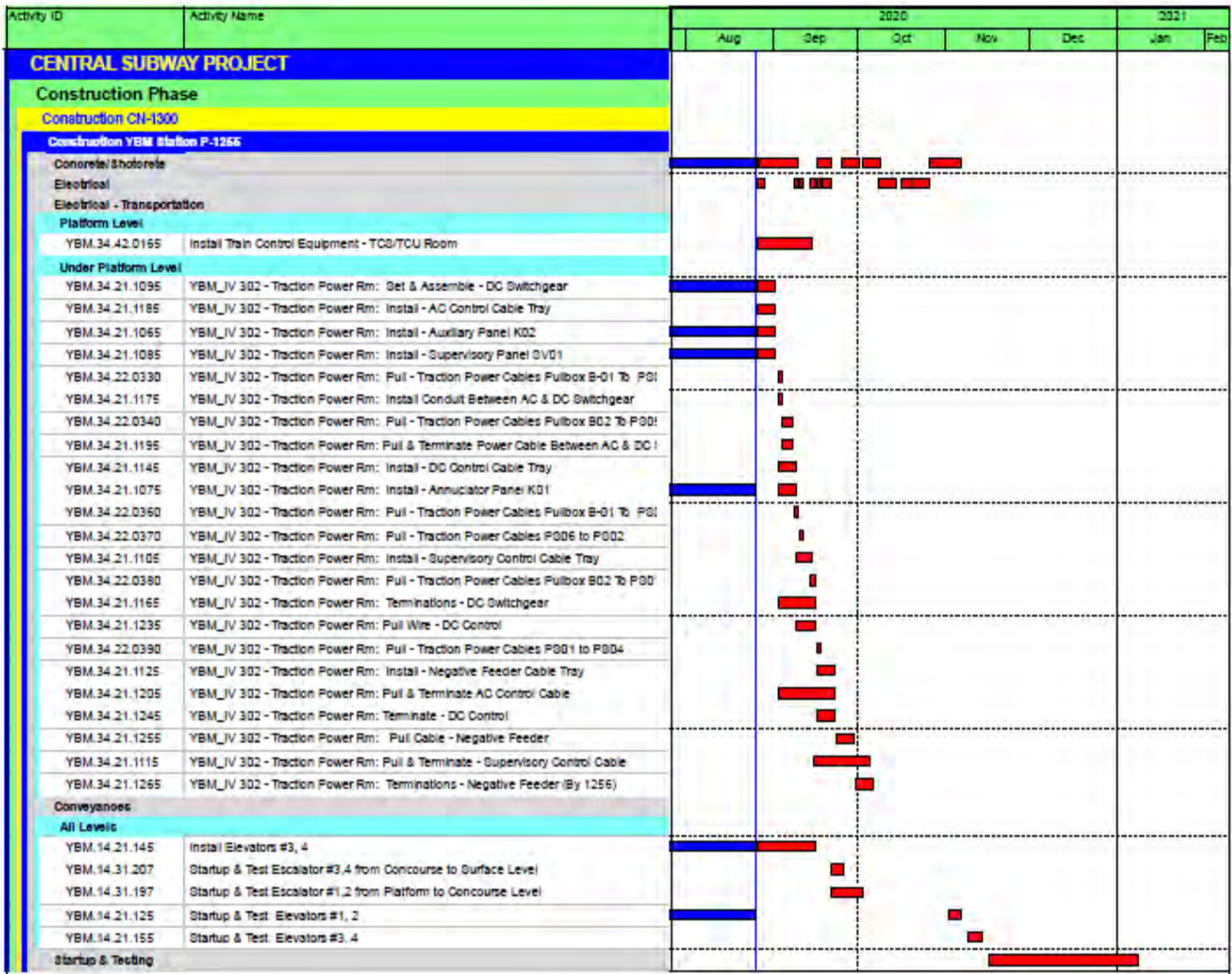
Contract Details

Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	December 28, 2020
Contract Award Value:	\$158,089,000
Modifications to Date (\$):	\$5,980,245
Modifications to Date (Days):	1,052
Current Contract Value:	\$164,069,245

Budget/Expenditures ▲

Current Budget	\$163,089,000
Other Project Offset Credits	\$415,331
Expenditures to Date	\$160,463,525

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 4th/Brannan platform construction
- Started axle counter box revisions at 4th St. portal
- Continued surface signaling work on 4th Street
- Continued traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical power
- Continued traction power cable installation and terminations
- Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation
- Continued installation of ATCS and radio system
- Completed ATCS installation at Lenox
- Continued installation of blast doors at tunnel Cross-passages

Work Expected Next Month

- Continue 4th/Brannan platform construction
- Continue axle counter box revisions at 4th St. portal
- Continue surface signaling work on 4th St.
- Continue traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical
- Continue traction power cable testing, installation and terminations
- Continue tunnel lighting, mini power, OCS hanger, ATCS, radio system and tunnel signage installation



- Continue installation of blast doors at tunnel Cross-passages

Three Month Look Ahead

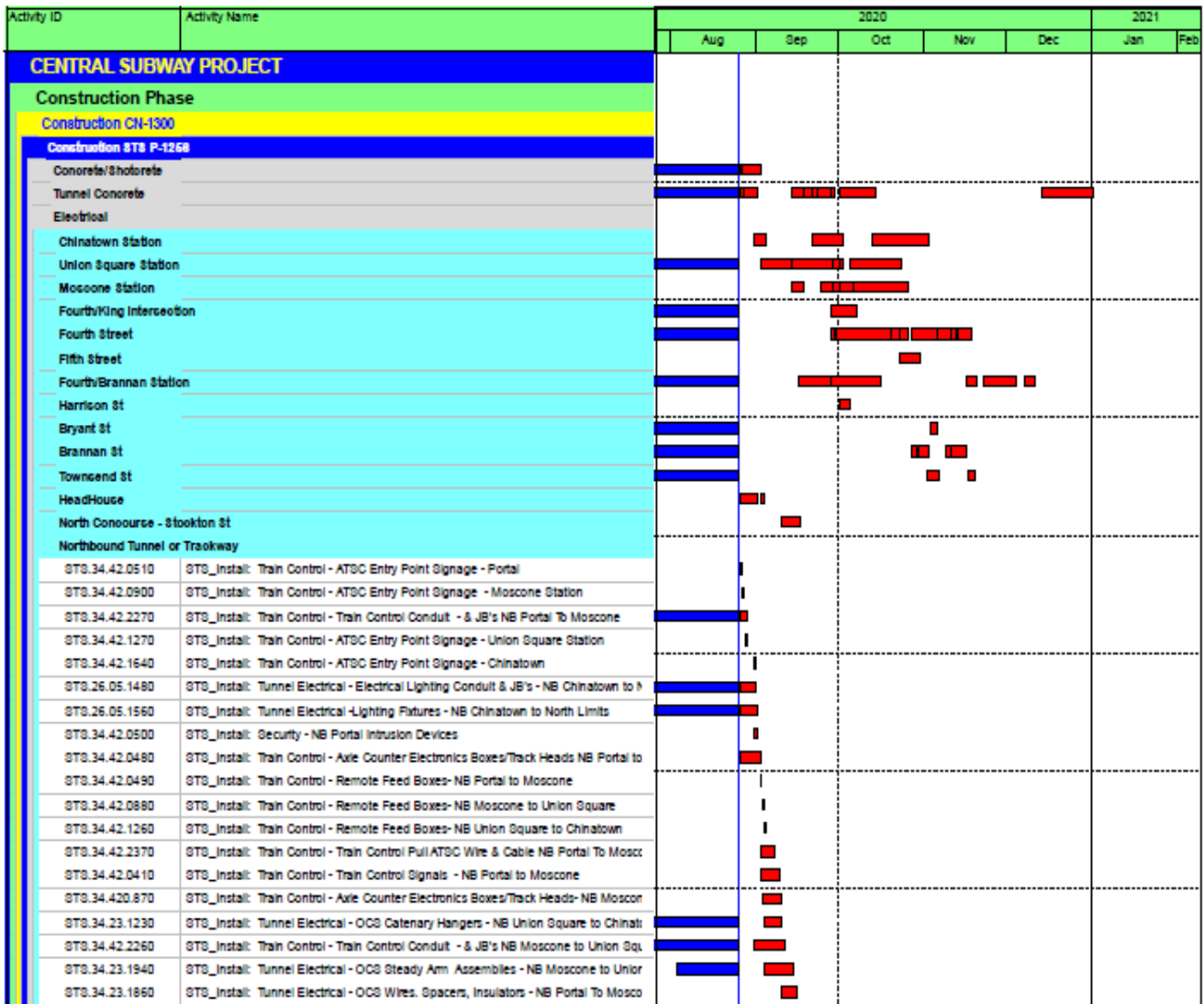
- Complete OCS/street light pole installation
- Continue OCS support/wire installation in tunnel and on 4th Street
- Continue 4th/Brannan platform construction
- Continue axle counter box revisions at 4th St. portal
- Continue surface signaling work on 4th St.
- Start FDC installation near 4th St. portal
- Continue electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting and tunnel electrical
- Continue tunnel lighting, mini power, OCS hanger, ATCS, radio system and tunnel signage installation
- Continue installation of blast doors at tunnel Cross-passages
- Continue pulling traction power feeder cables on surface
- Continue train case fabrication and testing for 4th/King and Bluxome Crossover
- Complete surface signaling to existing system at 4th/King
- Start fiber system installation

Systems, Trackwork, & Surface Station Construction - Continued

Contract Details	
Contract Awarded:	May 21, 2013
Notice to Proceed:	June 17, 2013
Substantial Completion:	December 28, 2020
Contract Award Value:	\$139,989,000
Modifications to Date (\$):	\$32,955,767
Modifications to Date (Days):	1,052
Current Contract Value:	\$172,944,767

Budget/Expenditures	
Current Budget	\$126,952,290
Other Project Offset Credits	\$2,632,766
Expenditures to Date	\$158,716,416

Systems, Track and Surface Station Three Month Schedule



Program Components

Community Outreach

Outreach public information, events and presentations for August 2020 include:

- Conducted virtual Chinatown Merchants Meeting
- Conducted virtual Chinatown Station Community Meeting
- Ongoing outreach to merchants and residents by email and social media
- Produced quarterly construction update video and other multimedia content
- Responded to constituent complaints and questions
- Preparation and dissemination of construction notices

Outreach in Support of Mitigation and Monitoring

- Team members participated in weekly teleconference meeting to address neighborhood concerns
- Weekly photo documentation of project work and editing
- Weekly construction update emails sent to list of approximately 700 residents and stakeholders

No Media coverage

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 Activities

Project Quality Assurance performs the following activities to ensure that the quality program complies with project quality requirements:

- QA observation of all work in progress for all work packages
- QA observations of QC inspection, testing and documentation by Smith Emery for all work packages
- QA observation of station construction at CTS, UMS, and YBM
- QA observation of STS invert and plinth concrete placement and track installation
- QA observation of STS rail preparation and installation
- QA review of TPC's Quality Control (QC) Daily Inspection Reports posted to project records CM13 which includes TPC's Specialty Subcontractor's QC checklists, associated documentation and Smith Emery inspection and testing reports provided by 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
- QA participation in definable feature of work preparatory and initial phase meetings as scheduled by the contractor's QC manager
- QA participation in Weekly Work Package Progress Meetings for STS, YBM, UMS and CTS
- QA participation in Monthly Project Risk Mitigation, Safety and Security, and weekly Construction Management Board (CMB) meetings as scheduling constraints allow

Document comment and review:

- QA staff reviews quality related submittals, other submittals and Requests for Information (RFIs) as needed and requested to support the RE's and CM administration of the Quality Assurance Program
- QA staff performs random checks of the Contractor's independent field inspection and testing laboratory reports and results as provided by the Contractor's testing laboratory
- Contractor Non Conformance Reports (CNCR) Status as indicated in the TPC QC CNCR Log:
 - ◇ Initial: 10 CNCRs are currently posted to the CNCR Log as INITIAL entries. (The Contractor is required to generate a CNCR within 24 hours of becoming aware of what appears to be nonconforming work).
 - ◇ Dispositioned (not acceptable): 30 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).
 - ◇ Dispositioned: 4 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 dis-

Quality Assurance - Continued

position is appropriate.

- ◇ Approved: 32 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
- ◇ Closed: 422 CNCRs are currently posted to the CNCR Log as CLOSED.
- ◇ Voided: 53 CNCRs are currently posted to the CNCR Log as VOIDED (subsequent evaluation of the INITIAL CNCRs determined that a CNCR is not warranted)
- ◇ 551 CNCRs are currently posted to the CNCR Log
- ◇ 76 CNCRs are currently posted to the CNCR Log as OPEN

Notice of Non-compliance (NCN):

- Project QA has issued 34 NCNs

Audits:

- Previously, Project QA performed an audit of the Contractor's compliance with specified requirements for Project Coordination and Management Staff. The audit resulted in five findings and five Corrective Action Requests. These findings remain open
- During this period, Project QA initiated an audit of the Contractor's compliance with document control and quality records requirements for the period

QA Issues:

- The Contractor is required to submit a revised Quality Control Program anytime there are changes to the program. In June, the Contractor was asked to submit a revised plan. The Contractor has not submitted a revision.
- The Contractor does not currently have the required number of QC staff. Four (4) full-time Assistant Contractor Quality Managers are required by Contract. Currently there are three vacancies
- The Contractor does not have a QC manager on the site at all times during construction as required by contract
- The Contractor continues to perform work in some instances prior to receipt of approved required submittals (including product information, coordination and shop drawings) and RFIs with or without knowledge of the Contractors QC or responsible production supervision. This presents potential risk

QA Concerns:

- The contractor continues to furnish and install OCS poles without meeting prerequisite certification requirements. Project QA issued STS NCN 003. The Contractor has not responded to the NCN
- The Contractor continues to VOID CNCRs without demonstrating that the work meets Contract requirements
- The Contractor is not identifying all nonconforming work as required by contract
- The Contractor continues to perform CNCR repairs prior to receiving approval of the proposed repair procedures
- The untimely identification and mitigation (SFMTA approval) of "last minute items" remains an ongoing challenge to all involved and often generates nonconforming work. Project quality has not suf-

Quality Assurance - Continued

ferred to date; however the aforementioned concern remains

- Project schedule compression demands disrupting RE, design staff priorities, and work flows as mentioned above; quality has not suffered but the concern remains
- CNCR 354, which documents that standard strength and not high strength 115 RE rail has been furnished and installed by Tutor Perini Corporation (TPC) the C1300 Contractor. CNCR 354 was dispositioned as Use-As-Is and was then rejected by SFMTA and returned to TPC QC to address the requirements of 34 11 14 *Rail*. SFMTA wrote a letter to TPC directing the removal of the non-conforming rail. SFMTA QA was informed by TPC's Project Manager that CNCR 354 would be voided. SFMTA QA's concern is that that CNCR 354 was voided by TPC perceived ambiguities in the contract documents without consideration of other contract document requirements. Non-compliance Notice NCN STS-001 was issued, directing TPC to reinstate CNCR 354. The CNCR has not been reinstated. This issue is being closely monitored by SFMTA

Program QA Practices Implemented:

- Close-out of Corrective Action Requests: Close outs continued as required from Quality Assurance staff's audits, surveillances and PMOC quarterly reviews. The status is tracked in the Corrective Action Log that is available to the project team and the FTA PMOC
- Project QA continues to hold weekly meetings with the Resident Engineers, Assistant Resident Engineers, and QA inspectors of all stations to review project quality assurance procedures and requirements and to discuss contractor quality control requirements

Risk Management

A Risk Mitigation Management Meeting took place on Tuesday August 4, 2020. The members of the Risk Assessment Committee will reconvene at a later date to review the top risks item in accordance with the risk summary sheet, which have been given a rating by the Committee of six and above. The Committee will discuss impacts of COVID 19 to the risk management of the program.

COVID 19 related impacts to the project are continually being monitored and updated by the risk owner under Risk item No. 112 - Major Safety Event Halts Work. Currently, thirty-four (34) construction risks, two (2) revenue service risk and one (1) remaining requirement risk, are being tracked on the Project's Risk Register; in addition to, establishing strategies for mitigation and evaluating potential unforeseen issues or conditions.

The Committee will continue to follow risks and risks will be monitored and statuses updated 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. The program is working with FTA and other funding partners to evaluate the current Revenue Service Date (RSD) related to risk, schedule, and cost. The program is in the process of validating the risk assessment report which was last updated at the end of 2019. The program plans to reissue an updated risk assessment when complete. The program has completed validating the program risks and will be issuing a revised risk analysis as part of the request to extend the FFGA Revenue Service Date (RSD) and adjusted cost in compliance with FFGA requirements to ensure that the program has sufficient schedule and cost contingency.

Top Risks

Risk #	Risk Description	Risk Rating	Contract Phase
255	Water leaks at YBM station, including water in conduits to both electrical room and TP room	10	YBM
251	Physical activities missing (not defined) in the schedule / identify activities of undefined scope	8	STA
205	Prolong period of CMod's creates additional cost/causes bad blood between Resident Engineer and Contractor	8	STA
257	Systems Test Integration between components does not work; fails	8	RS
253	Do not have adequate (subcontractor) resources defined to perform the work to meet schedule performance	6	STA
238	Quality Program is ineffective in processing the nonconformance items causing schedule impacts	6	STA
229	CN1300 System Acceptance Testing takes a prolonged amount of time	6	STA
230	SFMTA Commissioning Coordination (inaccurate time for coordination or participation from Muni Ops)	6	STA
261	Internal Staffing Resource Issue	6	GEN
254	CPUC Field Certification - Not having enough staff to certify the work may slow down the process	6	STA

Program Safety & Security

On March 17, 2020, the Mayor and the City's Health Office issued a Public Health Order to "Shelter-In Place" in response to the COVID-19 pandemic. The City's Health Office has issued adjustment to the health order to ensure safety to the public. The Contractors have implemented a revised site Safety and security plans to incorporate various requirements of the order. Construction of the Central Subway project continues to progress and Construction Management team continues to monitor progress and to monitor the Contractor and Subcontractors compliance with the site safety plan.

The Contractor reported no new case for this month and all quarantined personnel have returned back to work after completing the required protocol. The impacted labor forces are within several trade groups. The primary impacted area is the electrician trade from Fisk and Abbott. The other impacted subcontractor is BEST which is providing water sealing effort at YBM Station. All twelve cases have returned to work. Safety and CM team continues to monitor these cases to ensure compliance with the Safety and Security protocols. CM team has added additional resources to monitor these cases along with others that are identified. The schedule team continue to monitor impacts to the production rate with these reported cases.

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 daily job briefings. Weekly safety meetings are held on a weekly basis so all staff has an opportunity to attend. In response to shelter-in place, we have transitioned the weekly in person safety meetings to interfacing online via the Microsoft teams app platform.

Safety Summary for the 1300 Stations Systems Track Construction Package

In August, there was a first aid incident that involved a neck strain.

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. At CTS, we continue to install overhead conduit, stairs, water piping, CMU wall, and GFRC panels.
2. At UMS, we continue to install stairs, elevators, overhead plumbing, fire protection piping, and overhead fixture and electrical.
3. At the YBM station, we continue to install escalators, elevators, EV controls, and ceiling.
4. At the STS station, we continue traction power conduit and other electrical conduit installation inside the tunnel.

Program Safety & Security - continued

Project Safety Record - Contract 1300

SAFETY GOALS

Through Month End August 2020

OSHA Recordable Accidents, <3.4
Lost Time Cases, <1.6

JOB TO DATE	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	38	8	46	2.10
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	10	1	11	0.50
Total Project Incidents	48	9	57	2.61
Man Hours Worked Through M/E August 2020	2,134,494	2,240,491	4,374,986	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	7	2	9	4.00
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 August 2020	140,004	309,836	449,840	

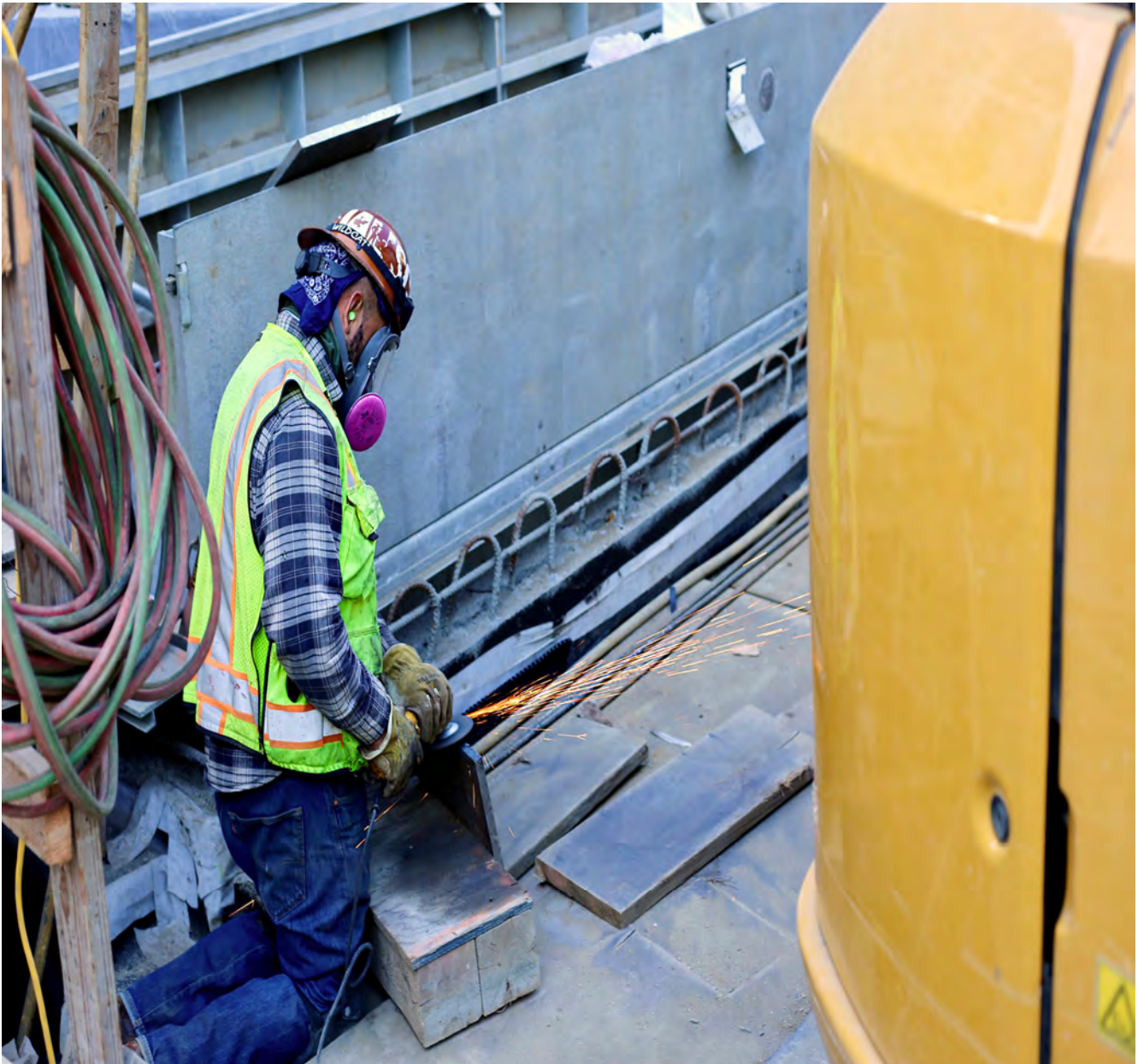
* Rate is calculated based on number of incidents divided by total number of man hours worked multiplied by 200,000 man hours.

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

The program has added staff to Construction Management and Safety team to monitor the new requirements related to COVID. Additionally, the Program continues to identify other staff for the construction management team. These staff are needed to provide support for the current construction activities and start-Up and Testing activities. These additional staff will supplement the existing staff to properly support ongoing effort to complete the project.



Worker cuts metal the surface of Rose Pak-Chinatown Station entrance site at Stockton and Washington.

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-2020		Jul-2020		Aug-2020	
	Planned	Actual	Planned	Actual	Planned	Actual
Project Management						
Program Management	6.60	4.75	6.60	4.75	6.60	4.75
Quality Assurance	1.30	1.00	1.30	1.00	1.30	1.00
Contract Administration	1.40	8.15	1.40	7.00	1.40	7.00
Community Outreach	5.50	2.00	5.50	2.00	5.50	2.00
Finance	2.00	0.00	2.00	0.00	2.00	0.00
Project Controls	4.80	4.65	4.80	4.65	4.80	4.65
Subtotal	22.10	20.55	22.10	19.40	22.10	19.40
Construction Management						
CM - CM1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CM1300	21.55	24.75	21.55	34.10	21.55	33.10
Design Support - CM1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CM1300	9.00	13.00	9.00	13.00	9.00	13.00
Subtotal	30.55	37.75	30.55	47.10	30.55	46.10
Start Up						
Start Up / Safety & Security	5.95	1.20	5.95	4.00	5.95	4.00
Subtotal	5.95	1.20	5.95	4.00	5.95	4.00
Total	58.60	59.50	58.60	70.50	58.60	69.50

*FTE counts may change at a later date due to additional information becoming available, thereby, changing the numbers on the chart.

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.

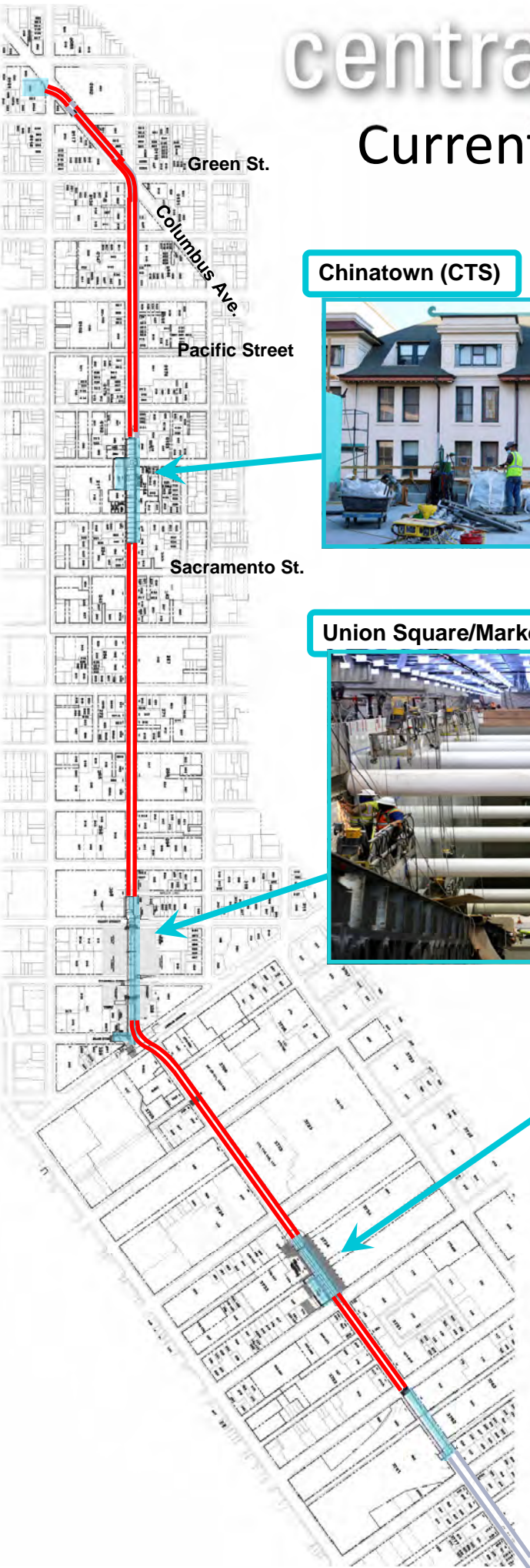
The delivery of 24 vehicles related to Central Subway has been completed.



Sign being fixed on concrete structural beam on the north end of Union Square/Market Street Station, where the platform meets the southbound tunnel.

central **T** subway

Current Construction Activity



Chinatown (CTS)



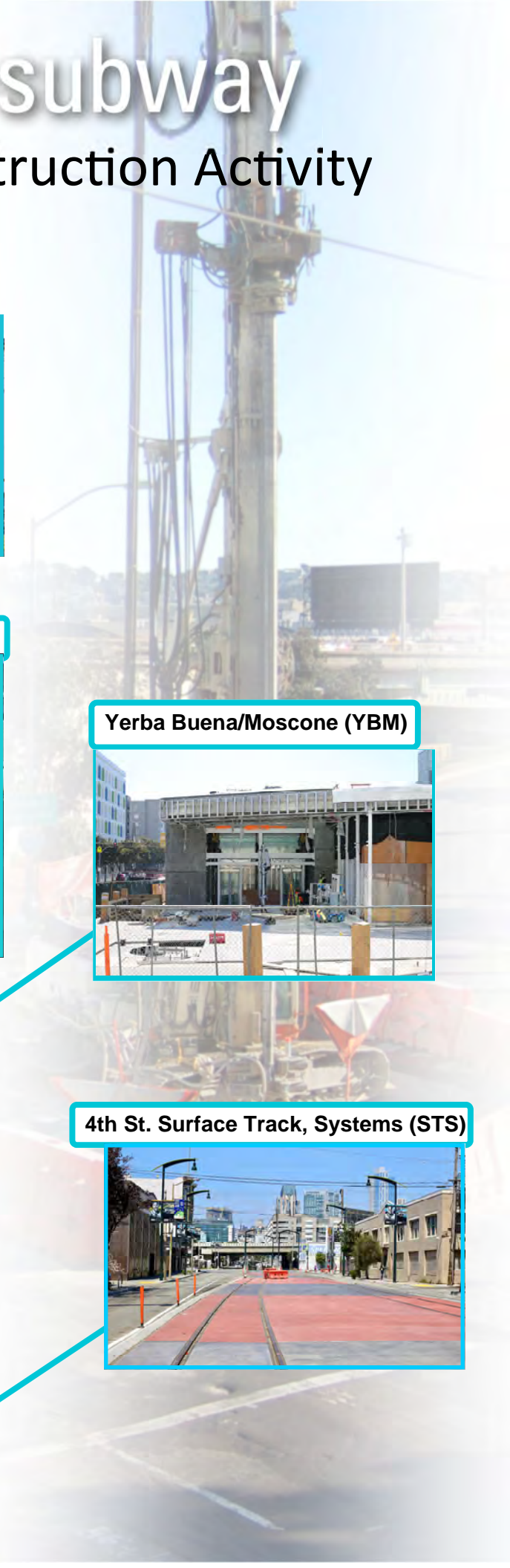
Union Square/Market Street (UMS)



Yerba Buena/Moscone (YBM)



4th St. Surface Track, Systems (STS)





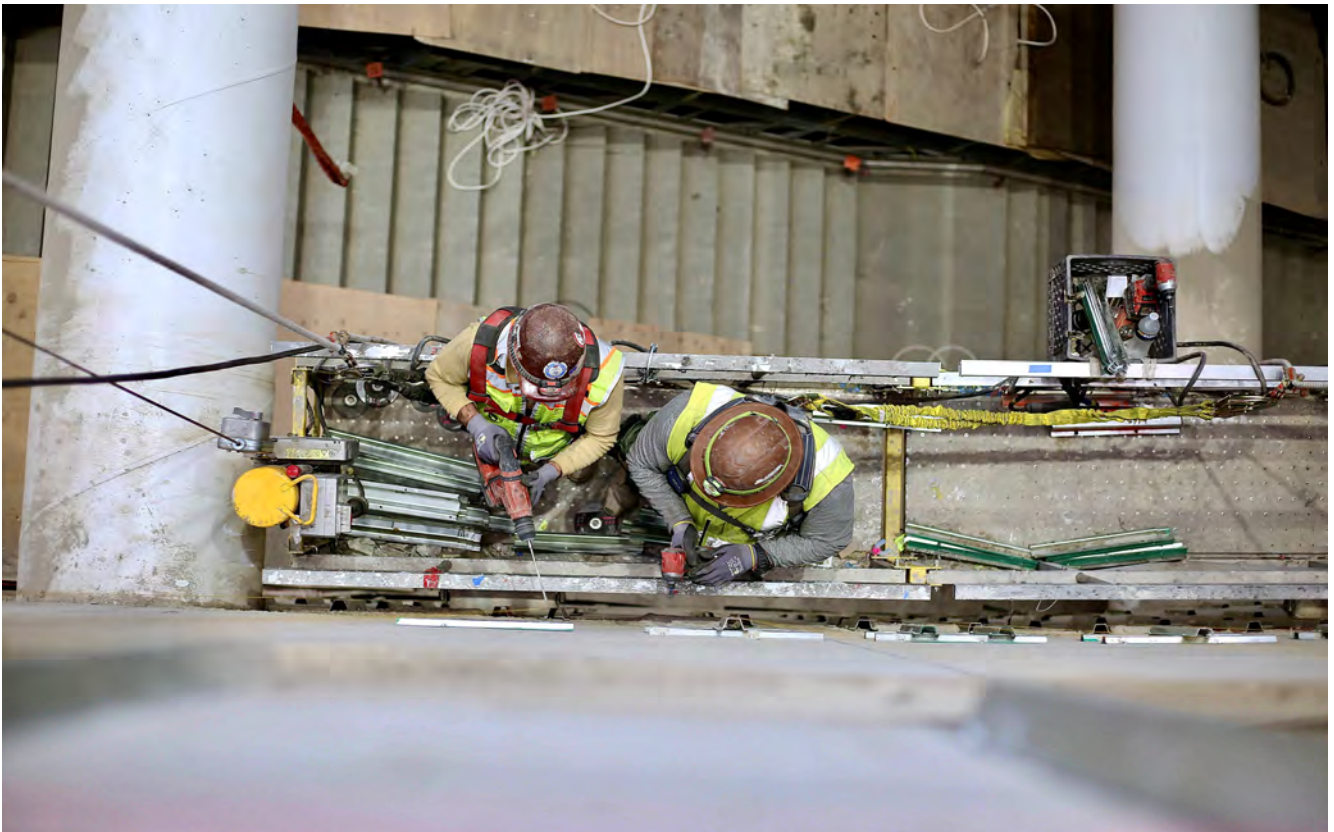
Formwork for the Monument Stairs on the surface of Stockton and Washington



Ceiling panels being placed for the future Rose Pak-Chinatown Station rooftop plaza.



Concourse level walkway, with workers working on wiring.



Workers hanging from a suspended platform to install panels on escalator walls going down to the platform



Workers working on entrance to Yerba Buena/Moscone Station surface.



Artwork being planned for Concourse Level at Yerba Buena/Moscone Station concourse.



Ventilation jet fans, automatic train control system, OCS, traction power, radio system supports and tunnel signage continue to be installed at tunnel systems portal.



Art installation at surface transit station

Appendix A

DETAIL COST REPORTS

*August 2020 Notice: The City continues to experience problems that were caused by error and inaccuracy from the transition from FAMIS to Financial System Project (FSP). An updated methodology has been implemented within the financial reporting that will provide more accurate figures for transactions occurring in fiscal year 2020.

1. PROJECT COST

The Current Cost Estimate (CCE) for the Central Subway Project is \$1.578 billion in year of expenditure dollars (\$YOE). The project is working with SFMTA Finance and Grants to identify these additional source of funds to provide for the shortfall. Currently, the project estimates the EAC to be \$1.656B or \$77M above the current budget. The project is working with SFMTA Finance and Grants to identify these additional source of funds to provide for the shortfall. Currently, the project estimates the EAC to be \$1.656B or \$77M above the current budget. This EAC has not been finalized as additional cost will need to be considered including the potential cost of delay due to the current pandemic crisis. When the EAC is revised and the funds are identified, the team will revise the various cost sheets to reflect the new budget and EAC number along with any impacted appendix. The team anticipates that this will take several report cycles to adjust. The team continues to work with SFMTA Finance and Grants to provide the budget shortfall and SFMTA Finance and Grants have identified additional funds when the agency annual budget is approved by the Mayor.

Total net incurred costs for the project are \$1,594.07 million, a \$36.53 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,544.29 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$42.27 million) and estimates of outstanding pay requests (credits of \$4.97 million). This incurred amount exceeds the total project budget of \$1.578 billion.

The current funding level to date has been fully met which includes Operating funds FY2019/2020 \$5,000,000 , PTMISEA (Public Transportation Modernization, Improvement, and Service Enhance Account) FY2020 \$1,752,935 and Other funds of \$2,6,90,875 totaling \$9,443,810 appropriated in July 2020 . This represents 100% of the total project budget as we have completed the funding of the program. The project team will continue to work with our financial partners to ensure that impacts to the project are minimized and the additional funds exceeding the budget will be met.

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CS155.1*	70	6/30/2016	\$ 24,327.00
CS155.1*	71	9/30/2016	\$ 65,000.00
CS155.1*	72	12/30/2016	\$ 50,000.00
CS155.1*	73	3/31/2017	\$ 35,282.00
CS155.2*	124	6/30/2020	\$ 333,000.73
CS155.2*	125	7/31/2020	\$ 333,000.73
CS155.2*	126	8/31/2020	\$ 333,000.73
CS155.3*	122	5/31/2020	\$ 187,334.95
CS155.3*	123	6/30/2020	\$ 187,334.95
CS155.3*	124	7/31/2020	\$ 187,334.95
CS155.3*	125	8/31/2020	\$ 187,334.95

CONTRACT	PP NO	PP PERIOD TO	PROG PYMT AMOUNT
CN1300	80	7/31/2020	\$ 8,151,623.00
CN1300	81	8/31/2020	\$ 11,800,000.00
CN1300	82	8/31/2020	\$ 17,540,060.00
CS149	135	2/29/2020	\$ 1,096,959.07
CS149	136	3/31/2020	\$ 1,310,687.00
CS149	137	4/30/2020	\$ 1,196,198.56
CS149	138	5/31/2020	\$ 1,175,403.46
CS149*	139	6/30/2020	\$ 1,175,403.46
CS149*	140	7/31/2020	\$ 1,175,403.46
CS149*	141	8/31/2020	\$ 1,175,403.46
other accruals*		8/31/2020	\$ (10,422,301.38)

* Estimated Amount

\$ 37,297,791.08

2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is negative \$76.07 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”.

In this reporting period, CN1300 Station processed five contract modifications in the amount of \$17,171,820. Four dummy contract modifications were created as holding accounts to reconcile \$5,372,820 in costs that could not be associated with bid items and/or contract modifications. Refer to Report 7.5 for approved contract modifications and potential changes.

3. BUDGET TRANSFERS

CN1300 Station processed three contract modifications in the amount of \$14,662,121 in SCC 40 category and two contract modifications in the amount of \$2,509,699 in SCC 50 category. In addition, \$5,250,000 was used from unprogrammed funds in SCC 90 in order to fund \$5,250,000 in costs in SCC 80.03-80.04 for AECOM 2020 AWP and ODC. There is a net budget transfer of \$0 in this reporting period due to the further drill down of SCC 10-50 categories; allocated contingency is in SCC 20 category. When a contract modification is processed, the funds are drawn from allocated contingency. Refer to Report 7.7 Column C for budget transfers.

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 \$12.51 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	(254,050)	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)	443,046	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)	1,053,691	
1.3.491.03.040.02 - FORM B - UMS: CN1300 UTILITY REIMBURSEMENT	(528,370)	467,600	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)	495,879	1.3.086.05.040.02 - YBM.1255: SITE UTILITIES, UTILITY RELOCA
TOTAL	(12,227,954)	12,507,414	

5. EARNED VALUE (EV) ANALYSIS

In August 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA August Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary August Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,593,002,941
Earned Value:	\$1,472,939,192
Actual Cost:	\$1,594,065,105
Schedule Performance Index (SPI):	0.92
Cost Performance Index (CPI):	0.92
Percent Complete:	92.4%

SFMTA, EV Chart
AUGUST 31, 2020 Update

Activity ID	Activity Name	Start	Finish	Performance % Complete	Budgeted Total Cost	Planned Value Cost (PV)	Earned Value Cost (EV)	Actual Total Cost (AC)	CVI	SPI
CENTRAL SUBWAY PROJECT										
		03-Jun-03 A	08-Dec-23	92.43%	\$1,578,300,009.95	\$1,593,002,941.27	\$1,472,938,191.70	\$1,594,065,104.58	0.92	0.92
	Preliminary Engineering Phase	03-Jun-10 A	07-Jan-10 A	100%	\$46,542,061.34	\$46,542,061.02	\$46,542,061.02	\$46,542,060.53	1.00	1.00
	Final Design	06-Jan-10 A	17-Jun-13 A	100%	\$115,075,987.10	\$115,075,987.06	\$115,075,987.06	\$113,985,793.80	1.01	1.00
	Light Rail Vehicles	15-Apr-13 A	26-Feb-21	8.25%	\$16,800,000.00	\$26,395,853.00	\$2,177,131.58	\$11,929,246.72	0.18	0.08
	Real Estate	01-Aug-08 A	15-May-15 A	100%	\$32,140,417.71	\$37,405,895.00	\$37,405,895.00	\$30,543,064.53	1.22	1.00
	Construction Phase	05-Jan-10 A	06-Mar-23	93.61%	\$1,366,108,874.80	\$1,358,073,888.70	\$1,271,738,117.04	\$1,391,064,936.00	0.91	0.94
	Construction Support and Costs	03-Jan-10 A	06-Mar-23	96.28%	\$215,474,127.80	\$199,862,849.08	\$196,420,237.32	\$214,212,775.19	0.92	0.98
	Construction Utility Contract #1- MOE & Portal CN-1250	04-Jan-10 A	23-May-11 A	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- UMS CN-1251	12-Jan-11 A	15-Oct-12 A	100%	\$20,669,061.47	\$20,794,562.00	\$20,794,562.00	\$20,669,061.47	1.01	1.00
	Construction Tunnels CN-1262	08-Jun-11 A	26-Aug-20	93.05%	\$233,511,253.03	\$251,069,047.23	\$233,608,974.28	\$233,511,253.34	1.00	0.93
	Construction STS P-1266 ATCS	20-May-14 A	23-Feb-21	53.87%	\$18,036,709.00	\$17,548,631.36	\$9,715,504.32	\$10,612,752.00	0.92	0.55
	Construction STS P-XXXX Radio	27-Aug-19 A	04-May-21	0.8%	\$4,809,652.50	\$4,841,950.49	\$38,735.60	\$30,098.00	1.21	0.01
	Construction CN-1300	03-Jun-13 A	11-May-21	93.8%	\$861,639,701.00	\$851,988,678.54	\$799,191,933.51	\$900,058,829.00	0.89	0.94
	Unallocated Contingency	26-Aug-20	29-Dec-21	0%	\$1,632,669.00	\$9,519,456.49	\$0.00	\$0.00	0.00	0.00
	Project Management	30-Dec-21	08-Dec-23	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))
Prelim. Engineering	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Final Design	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor Accruals and Invoices
Procurement	Planned Delivery Date	Actual Delivery Date	Time Keeping; Vendor Accruals and Invoices
Real Estate	Expenditure Plan Level of Effort (LOE)	Equals to Planned Value (LOE)	Time Keeping; Vendor/ Material Accruals and Invoices
Construction	Schedule of Work	% Complete* x Budget at Completion (BAC)	Vendor Accruals and Invoices
Sub-Total	Performance Measurement Baseline (PMB)	Total Earned Value	Total Actual Cost
Below the Line	+ Contingency		
Total	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 funding sources.

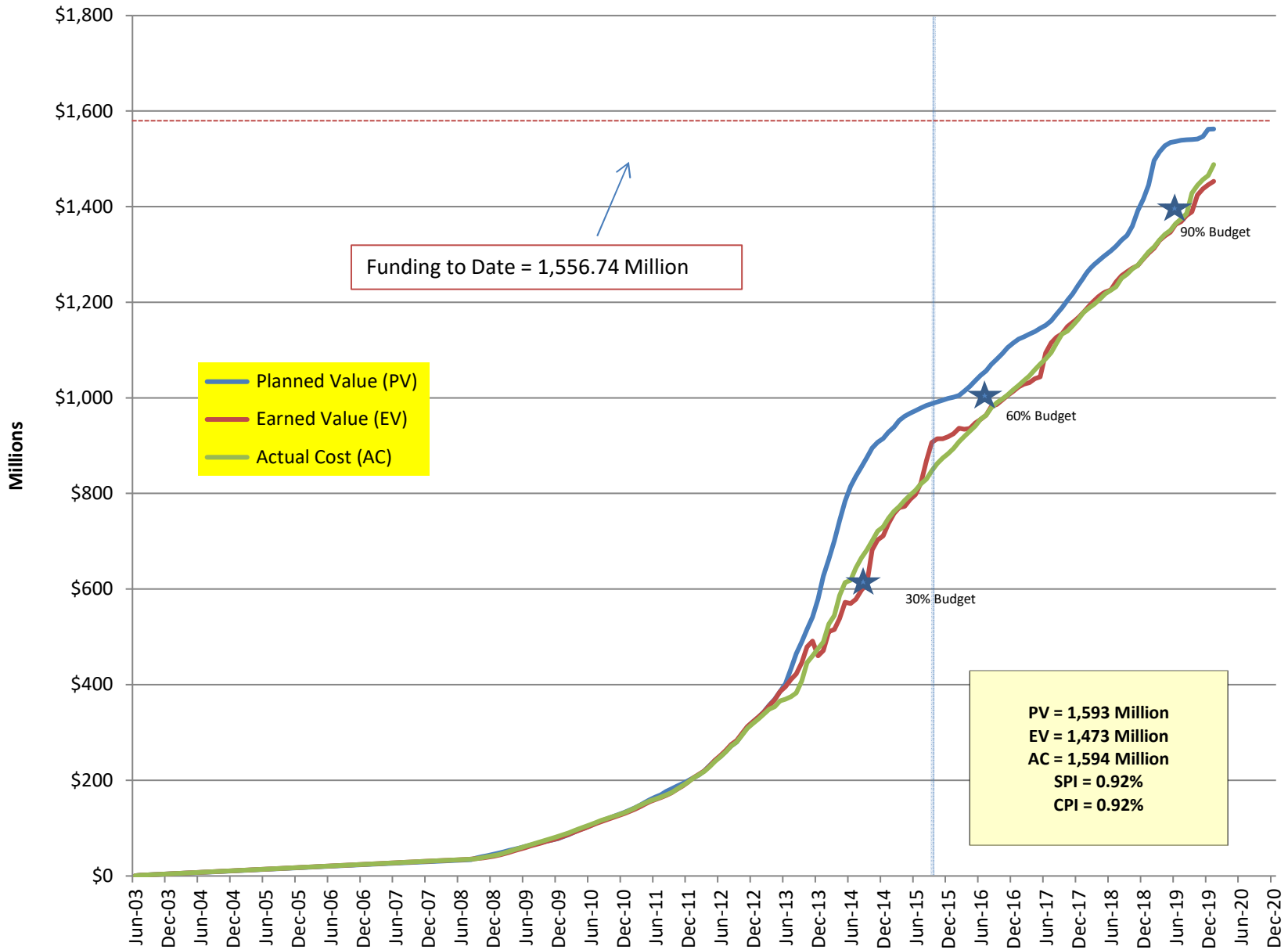
Funding Available Table		
	Funding	
	Committed Funding Sources	Total Awarded Funds to Date
Federal		
Sect. 5309-NS	\$942,200	\$942,200
Sect. 5307-OBAG	\$15,980	\$15,980
CMAQ	\$41,025	\$41,025
Federal Subtotal	\$999,205	\$999,205
State		
TCRP	\$14,000	\$14,000
State RIP	\$12,498	\$12,498
Prop. 1B (I-Bond)	\$308,601	\$312,236
PTIMSE		
Prop. 1A (HSR-Bond)	\$61,308	\$61,308
State Subtotal	\$396,407	\$400,042
Local		
LCTOP	\$4,000	\$4,000
Operating	\$4,970	\$12,570
MTA	\$0	\$475
Prop. B Pop Baseline	\$26,985	\$20,125
Prop. K	\$143,542	\$138,692
TSF Transit	\$3,191	\$3,191
Local Subtotal	\$182,688	\$179,053
CPT 544 Total	\$1,578,300	\$1,578,300

7. LIST OF COST REPORTS

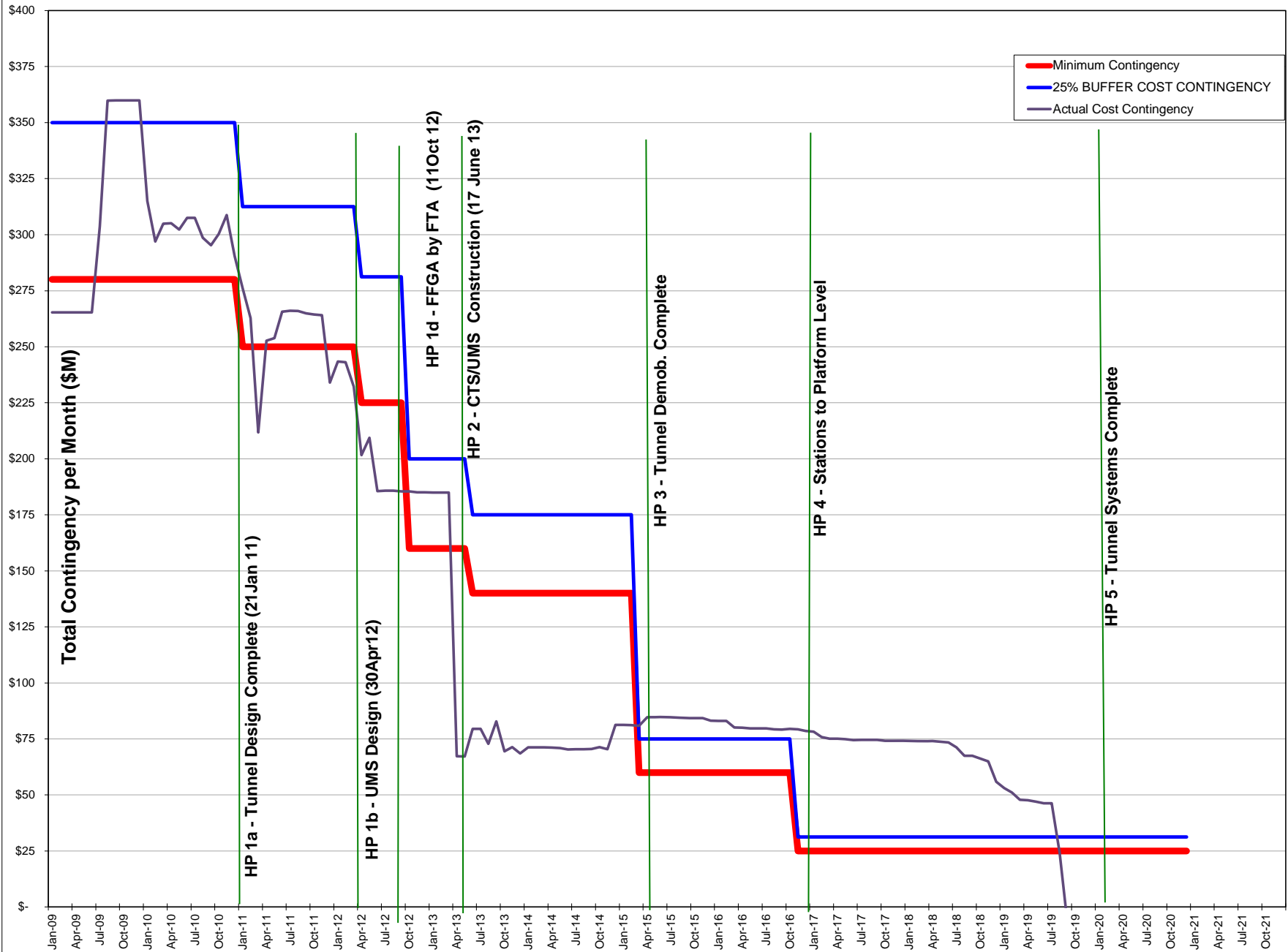
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted 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

A. Central Subway Project						
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
Total:		\$1,578,300,000				
B. Related SFMTA Capital Improvement Projects						
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
Total:		\$27,047,750				
C. Central Subway Project - Project Offset Credits						
	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	\$328,860	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 Support for North Beach Restoration, OCS and	\$112,102	68W409	Contract 1252 CMod #48	yes	14
10	3/15/2016 Streetlighting	\$155,468	68T7373342D2/D3	Contract 1252 CMod #51	yes	15
11	6/27/2016 DPW - MOU for Water Line above YBM Station SFWD - 8' water line at the intersection of Fourth and	\$438,218	68W592	Contract 1300 CMod #20 Contract 1252 CMod #49 partial	yes	16
12	12/9/2016 Jessie Street	\$21,020	68W456	(\$2,102) and #60 Contract 1300 CMOD #123	yes	17
13	1/15/2020 CS-Chinatown Metro Plaza - CN1300	\$6,160,772	68CPT7181341	partial	yes	17a
Total:		\$30,856,381				

Earned Value Cash Flow Curve



Cost Contingency Drawdown



COST STATUS BY CATEGORY	SCC CODES	Sum of Supplemental 2013 Budget	BUDGET July 2019	BUDGET TRANSFERS	BUDGET August 2020	Sum of August 2020	Remaining Budget (Column H-Column I)	August 2020 EAC	August 2020 Contingency	Cost Report Notes
		A	B	C	D	E	F	G	H	
GUIDEWAY & TRACK ELEMENTS	SCC 010	282,227,872	284,261,448	-	284,261,448	283,345,637	915,812	284,261,448	0	39
STATIONS, STOPS, TERMINALS, INTERMODAL	SCC 020	573,099,645	502,024,707	(17,171,820)	484,852,887	542,181,246	(57,328,359)	565,986,056	(80,223,040)	39
SITework & SPECIAL CONDITIONS	SCC 040	235,514,097	286,857,100	14,662,121	301,519,221	303,737,332	(2,218,111)	305,632,396	1,160,000	39
SYSTEMS	SCC 050	90,774,397	118,225,136	2,509,699	120,734,835	89,880,547	30,854,288	121,082,642		39
ROW, LAND, EXISTING IMPROVEMENTS	SCC 060	37,511,799	32,246,321	-	32,246,321	30,648,969	1,597,352	32,246,321		
VEHICLES	SCC 070	26,385,653	16,800,000	-	16,800,000	11,929,247	4,870,753	16,800,000	0	
PRELIM ENGINEERING	SCC 080.01	46,202,673	46,202,674	-	46,202,674	46,202,675	(1)	46,202,674		
FINAL DESIGN	SCC 080.02	61,137,604	61,318,331	-	61,318,331	61,234,149	84,182	61,318,331		
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	197,146,664	199,235,580	5,250,000	204,485,580	211,368,193	(6,882,613)	204,485,580	0	39
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	13,537,110	10,708,923	22,887,611	1,358,422	
UNALLOC CONTINGENCY	SCC 090	3,883,480	6,882,669	(5,250,000)	1,632,669		1,632,669	(5,250,000)	1,632,672	39
Grand Total		1,578,300,000	1,578,300,000	(0)	1,578,300,000	1,594,065,105	(15,765,105)	1,655,653,059	(76,071,946)	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400				\$941,862,731
Substantial Completion	12/28/2020				12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES
Potential Changes	2,983,747	835,899	1,021,434	1,690,031	31
Change Order - Pending					
Job Readiness - CTS		(195,000)			
Job Readiness - STS				(70,000)	
Job Readiness - UMS	(195,000)				
Job Readiness - YBM			(70,000)		
STS PCC 481 NL Drainage and Bulkhea				0	
UMS COR 2239 Inst Dtls for New Elec	12,425				
UMS PCC 631 R1 Revise FSD Size	0				
Change Order Request (COR)					
CTS COR 1042 SFWD Delay		886			
CTS COR 1704 GEN Failure of Timely		0			
CTS COR 1710 3 Added Labeling for D		0			
CTS COR 1742 DSC/Notice of Delay Ex		0			
CTS COR 1760 Flat Jack System		0			
CTS COR 1781 Flooring Sealer		0			
CTS COR 1932 Plmbing Pipes at Stair		0			
CTS COR 1966 Add'l Revision to Elev		1,978			
CTS COR 2009 Fire Prtctn Pipe Routi		0			
CTS COR 2058 Cntrct Dsgn Cmpln T24		0			
CTS COR 2071 PCC 050 Stair Tread Re		0			
CTS COR 2141 Light Fixture Mounting		73,025			
CTS COR 2165 Rebar at Stair 7 Slab		3,710			
CTS COR 2166 Layer of Rebar to CC A		7,562			
CTS COR 2206 Plaza Lvl Switchboards		0			
GEN COR 1686 T&M Delay Impacts	2,483,670				
STS 2256 Elev Esc Lift-Net O&M Sub				0	
STS COR 2068 STS Signage Product Da				0	
STS COR 2094 Conduit Conflict at Mo				0	
STS COR 2160 Traction Power Ductban				0	
STS COR 2189 Mortar Bed for Accent				0	
STS COR 2228 MUNI Entrance & Sig Si				0	
STS COR 2232 Power circuits for SCA				0	
STS COR 2237 4th and King St Track				16,831	
STS COR 2247 4th & King St Track Ti				46,762	
STS COR 2263 Tunnel Inserts for Rad				0	
STS COR 2266 Escalator Ultra violet				192,765	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount
Substantial Completion

839,676,400
12/28/2020

\$941,862,731
12/28/2020

COST REPORT
NOTES

	UMS	CTS	YBM	STS
STS COR 2279 S3 Signage Mounting De				0
STS COR#2220 FSS System Programming				0
UMS COR 2015 Field Modifications at	19,875			
UMS COR 2267 Artwork Shipment Delay	0			
USG COR 275 Conn. Plaza Grid B	0			
YBM COR 2065 Added Cladding to Esca			0	
YBM COR 2107 Allowance for TC Reimb			0	
YBM COR 2155 Trac Pwr Sec Sys Oper			0	
YBM COR 2257 Missing Existing OCS w			0	
Negotiation				
CTS COR 1898 Concrete Wall Rebar to		0		
CTS COR 1924 Main Power Grating		0		
CTS COR 2222 Stair 5 Elev Confl		4,613		
CTS PCC 548 Spot Acceleration		292,939		
CTS PCC 593 Station Benches Change		0		
CTS PCC 702 Esc landing gap fill		116,554		
STS COR 1251 Shal Utl Trak Slab				65,000
STS COR 1320 Accel Sewer Work				15,000
STS COR 1510 Sta Canopy Column Slee				2,501
STS COR 1615 Public Safety Comms				1
STS COR 1739 Delete (4) gas line ca				(1)
STS COR 1816 Trackway Info for PAV				0
STS COR 1874 PAV Headend Train Mvmt				0
STS COR 1876 OCC Facility Sys Cutov				0
STS COR 2129 Confirm Revised Routin				0
STS COR 2145 Notice of Delay				0
STS COR 2209 Emergency Ventilation				0
STS COR 890 Ex Pll Box Incon Crb Rm				1,501
STS COR 909 PGE Gas Interruption				29,350
STS PCC 639 Spot Acceleration				264,755
STS PCC 643 Bryant Portal ATCS Mod				134,703
STS PCC 683 Bluxome VPI and Traffic				330,598
STS PCC 694 Modify 4th King Route				0
STS PCC 699 Fiber Optic Cables				172,117
STS PCC 725 ATS for CP5 Sump Pump				288,637
STS PCC 807 Cross Passage Door Fram				25,334
STS PCC 831 ATCS Equipment Transpor				18,759
UMS COR 1753 Stair Framing Conflict	5,001			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400					\$941,862,731
Substantial Completion	12/28/2020					12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES	
UMS COR 1893 All Sta Martinez Steel	575,000					
UMS COR 1922 SCADA Analog Connecti	20,000					
UMS PCC 829 Side Cladding Backing	0					
UMS PCC 839 Apply Paint on Struts	37,777					
YBM COR 1906 Best Construction Delay			891,792			
YBM COR 390 Chip Mezzanine Headwall			30,003			
YBM PCC 748 Added FSDs in Sector 3			53,135			
YBM PCC 770 Revised Wall Panels			47,910			
YBM PCC 817 Revise Spindle Length			5,570			
YBM PCC 825 Rlct S Wall Pnl & Inst			0			
Proposed Contract Change (PCC)						
CTS PCC 456 Throat Size and Anchor		0				
CTS PCC 471 Additional 120 VAC Powe		2,210				
CTS PCC 486 Structural Slab Changes		9,054				
CTS PCC 548 Spot Acceleration		100,000				
CTS PCC 788 Soil Offhaul		246,942				
CTS PCC 845 Add Fire rated Soffit		25,000				
CTS PCC 848 Added GFRC for Soffit		7,500				
CTS PCC 850 Comcast JT		1,006				
CTS PCC 858 Rev Stair 6 at Surf Lvl		2,935				
CTS PCC 863 Stair Nosing		10,000				
CTS PCC628 Police Officer at Powell		75,000				
CTS PCC746 GFRC Framing Support		3,613				
STS PCC 618 Mod Swoosh Arm P1 P2				4,705		
STS PCC 688 OCS & SL Revisions				(50,000)		
STS PCC 725 ATS for CP5 Sump Pump				16,087		
STS PCC 741 PA PDS Accpetance Chang				60,831		
STS PCC 803 Add COVID Monitoring				25,000		
STS PCC 804 Added TPC SCADA Points				15,000		
STS PCC 815R1 Radio System Revisions				17,209		
STS PCC 860 ATCS Loop Changes				22,500		
UMS PCC 842 Relocate Supply Fans at	25,000					
YBM PCC 817 Revise Spindle Length			5,000			
YBM PCC 824 Station Signage Revise			10,000			
YBM PCC 862 Canopy Penetrations			20,000			
Approved	9,631,090	53,619,230	5,980,245	32,955,767		
Contract Modification						
CMod # 14 YBM COR 036, 078			58,526			

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400					\$941,862,731
Substantial Completion	12/28/2020					12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #017 CTS CORs 001 053 & 069		54,322				
CMod #018 CTS PCC 012		60,248				
CMod #021 STS CORs 48/52/114/233/252				18,221		
CMod #025 - Various CORs			59,113			
CMod #026 YBM COR 072			84,509			
CMod #027 UMS PCC 092	0					
CMod #028 CTS PCC 017.1		97,743				
CMod #029 STS PCC 009.1				(143,668)		
CMod #033 CTS Various CORs		56,422				
CMod #037 CTS Various CORs		8,886				
CMod #038 STS Various CORs				52,553		
CMod #039 UMS Various CORs	23,271					
CMod #040 YBM Analytical Soil Test			3,655			
CMod #049 STS DSC CORs				136,728		
CMod #050 STS DSC CORs				67,036		
CMod #053 STS DSC CORs				17,035		
CMod #081 Various DSC CORs & PCCs			57,886			
CMod #082 YBM COR 385			21,170			
CMod #083 YBM Various Changes			27,270			
CMod #084 YBM Various Changes			12,156			
CMod #085 YBM COR 086 Existing AT&T			156,831			
CMod #086 YBM COR 1106			1,897			
CMod #1 BART Elevator Option 1 @ Pow	90,000					
CMod #10 YBM PCC 042			64,287			
CMod #100 UMS PCC 102 Fire & Life	48,149					
CMod #101 YBM COR 75 Slurry Wall			22,423			
CMod #102 STS PCC 410 ATCS Ext Cable				125,412		
CMod #103 UMS PCC 345 Lead Paint	221,766					
CMod #104 CTS Soil CMod Suppl CMOD19		1,621,173				
CMod #105 UMS Schedule Recovery	732,979					
CMod #106 CTS COR 1080 Acceleration		970,131				
CMod #107 YBM PCC 446 COR 1425			1,500,787			
CMod #108 STS Various Changes				50,400		
CMod #109 YBM 109 Various CORs			33,471			
CMod #11 UMS PCC 002	12,997					
CMod #110 UMS COR 251 770 779 781	118,911					
CMod #111 STS PCC 457 Traffic Signal				38,012		
CMod #112 UMS Various Changes	337,401					

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400					\$941,862,731
Substantial Completion	12/28/2020					12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES	
CMod #113 STS Various Changes				103,369		
CMod #114 YBM Various CORs			99,028			
CMod #115 CTS Various Force Accounts		25,026				
CMod #116 UMS COR 034/CCC 004 Type B	627,081					
CMod #117 YBM Various PCCs			111,027			
CMOD #118 YBM Various PCCs & CORs			421,616			
CMod #12 STS Traffic Control				1,032,302		
CMod #123 CTS PCC 050 Chinatown Plaz		9,360,183				
CMod #124 STS Delete ARS				(4,876,785)		
CMod #125 Omnibus				18,995,027		
CMod #126 YBM Door Hardware PCC 318			1,648,534			
CMod #127 STS Office Lease				1,845,604		
CMod #128 STS Radio System Revisions				1,666,735		
CMod #13 CTS COR 006		57,707				
CMod #130 ATCS				15,920,625		
CMod #131 PCC 569 EVAC Fire Alarm				1,210,445		
CMod #15 YBM COR 196			3,178			
CMod #19 CTS COR 007, 026		2,274,225				
CMod #22 UMS PCC 045, 046	16,198					
CMod #23 UMS PCC 058	63,838					
CMod #3 CTS Work Safely Ard Power Po		25,956				
CMod #30 YBM Various CORs			334,165			
CMod #31 UMS COR 595	53,701					
CMod #32 YBM Various PCCs			92,934			
CMod #36 YBM Conflict with Waterline			14,484			
CMod #4 CTS-Force Account Change Or		130,000				
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 #5 YBM Deletion of Comp Groutin			(1,833,869)			
CMod #51 YBM Various CORs and PCCs			24,875			
CMod #55 YBM Archeological Discovery			102,734			
CMod #56 YBM Contaminated Material			106,923			
CMod #57 STS Crossover Materials				21,245		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400					\$941,862,731
Substantial Completion	12/28/2020					12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES	
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 #62 UMS Wales and Waterproofing	277,714					
CMod #63 CTS DSC CORs		38,025				
CMod #64 STS DSC CORs and SFWD				52,570		
CMod #65 UMS Various CORs and PCCs	10,320					
CMod #66 STS Sewer Notching				66,949		
CMod #67 UMS Solar/Low-e Coating	23,290					
CMod #68 STS Various CORs				59,555		
CMod #69 UMS Various CORs	49,682					
CMod #70 YBM Various CORs			178,079			
CMod #71 UMS Haz and Asbestos Abate	81,907					
CMod #72 YBM COR 249. 566			74,694			
CMod #74 UMS PCC 39 12" Wtrln Reloc	336,236					
CMod #75 UMS COR 060 New 8" Wtr Line	58,672					
CMod #76 YBM COR 806 Gardril credits			(9,611)			
CMod #77 STS Various Changes				56,629		
CMod #78 STS Various DSC CORs				191,175		
CMod #80 STS Add'l Work to DSCs CORs				111,701		
CMod #87 CTS Var Slurry Wall Changes		3,596,000				
CMod #88 STS Various COR Misc Work				38,346		
CMod #89 YBM CORs 390,485 & 848			85,095			
CMod #9 YBM COR 10,15,16,18,20,25			126,663			
CMod #90 CTS DRB Reimbursement		1,296,364				
CMod #91 YBM PCC 069			84,537			
CMod #92 CTS PCC 233 & 26		1,126,478				
CMod #93 STS Coordinate of ATCS Work				(18,036,709)		
CMod #94 UMS Various Changes	46,057					
CMod #95 UMS Bart Elv Opt 2 Add Cost	400,000					
CMod #96 UMS Comp Grout Quantities	775,000					
CMod #97 STS COR 322 Tunnel Cleaning				399,000		
CMod #98 YBM PCC 76 AWSS SSFM			163,113			
CMod #99 UMS Various Changes	996,584					
CMod 073 - PCC 066 PB				96,516		
CMOD 24 STS PCC 23				108,053		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400					\$941,862,731
Substantial Completion	12/28/2020					12/28/2020
	UMS	CTS	YBM	STS	COST REPORT NOTES	
Cmod#119: UMS: Various Changes PCC 110, 124, 127 190, 191, 247, and 429	131,687					
Cmod#120: UMS: PCC 122R1 - UMS 1 1/2 inch Drain Piping Grout Details - Dowel Support	560,280					
Cmod#121: YBM: Various Changes COR 825, 1359, 1610 and PCC 320R1			142,904			
CMod#132 STS - CCC 105 Impacts of DSCs and Design Changes to Valverde				11,800,000		
CMod#7 STS FACOs 016, 017 &COR 009				80,170		
CMod#8 STS PCC 006 ATT MH, PB&Trench				225,208		
Cmod#884 UMS - Automobile Bus Acceleration - dummy	1,886,753					
Cmod#885: CTS - Communications - dummy		1,419,413				
Cmod#886: YBM - Communications - dummy			1,090,286			
Cmod#889: STS - Automobile Bus Acceleration -dummy				975,368		
CTS CMod #122 Schedule Delay Costs		31,240,000				
STS CMod 045 PCC 008 Tunnel Lowering				107,285		
Grand Total	12,614,836	54,455,129	7,001,679	34,645,798		

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

Report Period: August 2020

		July 2020			August 2020				
Group by Contract & SCC	CATEGORY ITEM	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	August 2020 Base	August 2020 Allocated Contingency	August 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [August 2020] vs. [July 2020]	Cost Report Notes
10-50	CONSTRUCTION CONTRACT PACKAGES	1,248,417,662	(61,891,220)	1,191,368,392	1,265,589,482	(79,063,040)	1,191,368,392	0	
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	20,744,696		20,744,696	20,744,696		20,744,696	0	
	Contract 1251 Form B Credit	(7,618,412)		(7,618,412)	(7,618,412)		(7,618,412)	0	
1252	GUIDEWAY TUNNEL	233,511,253	0	233,511,253	233,511,253	0	233,511,253	0	32
	Contract 1252 Form B Credit	(254,050)		(254,050)	(254,050)		(254,050)	0	
1300	CN1300 STATIONS TOTAL	924,690,911	(63,051,220)	861,639,691	941,862,731	(80,223,040)	861,639,691	0	33
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	301,774,927	12,255,663	314,030,590	303,661,680	10,368,910	314,030,590	0	
	UMS 1253 Form B Credit	(528,370)		(528,370)	(528,370)		(528,370)	0	
1254: CTS	CHINA TOWN STATION [CTS]	299,767,627	(42,199,817)	257,567,810	301,187,040	(43,619,230)	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]	162,978,959	110,042	163,089,001	164,069,245	(980,244)	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	160,169,399	(33,217,109)	126,952,290	172,944,767	(45,992,477)	126,952,290	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	
OTHER	OTHER CONSTRUCTION TOTAL	77,331,096	1,160,000	78,491,096	77,331,096	1,160,000	78,491,096	0	
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	33
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	34
50.01	THALES T&S ATCS	487,972		487,972	487,972		487,972	0	
50.01	CN1266-2 Advanced Train Control System (ATCS) - Implementation	14,611,285		14,611,285	14,611,285		14,611,285	0	34a
50.01	CN1266-1 Advanced Train Control System (ATCS) - Equipment	3,425,424		3,425,424	3,425,424		3,425,424	0	34a
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: August 2020

		July 2020			August 2020				
Group by Contract & SCC	CATEGORY ITEM	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	August 2020 Base	August 2020 Allocated Contingency	August 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [August 2020] vs. [July 2020]	Cost Report Notes
40.02	JOB ORDER CONTRACTS (JOCS) - CONSTRUCTION	117,255		117,255	117,255		117,255	0	
40.08	AON RISK INSURANCE	25,094,436		25,094,436	25,094,436		25,094,436	0	34b
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	
50.05	CSP Radio Design	641,950		641,950	641,950		641,950	0	34c
50.05	CSP Radio Cable	377,788		377,788	377,788		377,788	0	34c
50.05	CSP Radio Design Procurement	3,822,212		3,822,212	3,822,212		3,822,212	0	34c
60	ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	0	32,246,321	32,246,321	0	32,246,321	0	
60.01	PURCHASE OR LEASE OF REAL ESTATE	30,065,810	0	30,065,810	30,065,810	0	30,065,810	0	35
60.02	RELOCATION OF EXISTING HOUSEHOLDS	2,180,511		2,180,511	2,180,511		2,180,511	0	
70	VEHICLES	16,800,000	0	16,800,000	16,800,000	0	16,800,000	0	
70.01	LIGHT RAIL	16,800,000	0	16,800,000	16,800,000	0	16,800,000	0	36
80	PROFESSIONAL SERVICES	329,644,196	1,358,422	331,002,618	334,894,196	1,358,422	336,252,618	5,250,000	
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	89,244,281	0	89,244,281	93,744,281	0	93,744,281	4,500,000	36a

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

Report Period: August 2020

		July 2020			August 2020				
Group by Contract & SCC	CATEGORY ITEM	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	August 2020 Base	August 2020 Allocated Contingency	August 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [August 2020] vs. [July 2020]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	109,991,299	0	109,991,299	110,741,299	0	110,741,299	750,000	36a
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	
	ALL SCC CATEGORIES 10 TO 80	1,627,108,179	(60,532,798)	1,571,417,331	1,649,529,999	(77,704,618)	1,576,667,331	0	37
90	UNALLOCATED CONTINGENCIES			6,882,672			1,632,672	(5,250,000)	38
	TOTAL PROJECT COST 10 TO 100			1,578,300,003			1,578,300,003		
	TOTAL CONTINGENCY			(53,650,126)			(76,071,946)		
	CONTINGENCY MINIMUM			25,000,000			25,000,000		
	BELOW OR ABOVE MINIMUM			(78,650,126)			(101,071,946)		

COST STATUS BY CATEGORY	SCC CODES	Sum of Supplemental 2013 Budget	BUDGET July 2019	BUDGET TRANSFERS	BUDGET August 2020	Sum of August 2020	Remaining Budget (Column H-Column I)	August 2020 EAC	August 2020 Contingency	Cost Report Notes
		A	B	C	D	E	F	G	H	
GUIDEWAY & TRACK ELEMENTS	SCC 010	282,227,872	284,261,448	-	284,261,448	283,345,637	915,812	284,261,448	0	39
STATIONS, STOPS, TERMINALS, INTERMODAL	SCC 020	573,099,645	502,024,707	(17,171,820)	484,852,887	542,181,246	(57,328,359)	565,986,056	(80,223,040)	39
SITework & SPECIAL CONDITIONS	SCC 040	235,514,097	286,857,100	14,662,121	301,519,221	303,737,332	(2,218,111)	305,632,396	1,160,000	39
SYSTEMS	SCC 050	90,774,397	118,225,136	2,509,699	120,734,835	89,880,547	30,854,288	121,082,642		39
ROW, LAND, EXISTING IMPROVEMENTS	SCC 060	37,511,799	32,246,321	-	32,246,321	30,648,969	1,597,352	32,246,321		
VEHICLES	SCC 070	26,385,653	16,800,000	-	16,800,000	11,929,247	4,870,753	16,800,000	0	
PRELIM ENGINEERING	SCC 080.01	46,202,673	46,202,674	-	46,202,674	46,202,675	(1)	46,202,674		
FINAL DESIGN	SCC 080.02	61,137,604	61,318,331	-	61,318,331	61,234,149	84,182	61,318,331		
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	197,146,664	199,235,580	5,250,000	204,485,580	211,368,193	(6,882,613)	204,485,580	0	39
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	13,537,110	10,708,923	22,887,611	1,358,422	
UNALLOC CONTINGENCY	SCC 090	3,883,480	6,882,669	(5,250,000)	1,632,669		1,632,669	(5,250,000)	1,632,672	39
Grand Total		1,578,300,000	1,578,300,000	(0)	1,578,300,000	1,594,065,105	(15,765,105)	1,655,653,059	(76,071,946)	

SCC DESCRIPTION	August 2020 BUDGET	August 2020 CTD
010 - GUIDEWAY & TRACK ELEMENTS	284,261,448	283,345,637
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	484,852,887	542,181,246
040 - SITEWORK & SPECIAL CONDITIONS	301,519,221	303,737,332
050 - SYSTEMS	120,734,835	89,880,547
060 - ROW, LAND, EXISTING IMPROVEMENTS	32,246,321	30,648,969
070 - VEHICLES (number)	16,800,000	11,929,247
080 - PROFESSIONAL SERVICES (applies to Cats. 10-50)	336,252,618	332,342,127
090 - UNALLOCATED CONTINGENCY	1,632,669	
Grand Total	1,578,300,000	1,594,065,105

SCC DESCRIPTION	August 2020 BUDGET	August 2020 CTD
010.02-Guideway: At grade semi-exclusive (allows cross-traffic)	2,860,000	2,860,000
010.06-Guideway: Underground cut & cover	69,816,407	69,495,710
010.07-Guideway: Underground tunnel	200,374,315	199,783,200
010.09-Track: Direct fixation	6,761,089	6,757,090
010.12-Track: Special (switches, turnouts)	4,449,637	4,449,637
020.01-At-grade station, stop, shelter, mall, terminal, platform	7,602,857	6,485,400
020.02-Aerial station, stop, shelter, mall, terminal, platform	(45,992,477)	-
020.03-Underground station, stop, shelter, mall, terminal, platform	491,570,431	515,117,097
020.04-OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	-
020.07-Elevators, escalators	22,311,892	20,578,749
040.01-Demolition, Clearing, Earthwork	12,754,615	12,495,015
040.02-Site Utilities, Utility Relocation	68,753,443	78,843,789
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	9,423,125	9,092,036
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	1,060,669
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	5,403,501
040.07-Automobile, bus, van accessways including roads, parking lots	9,441,220	9,331,749
040.08-Temporary Facilities and other indirect costs during construction	187,526,494	184,804,142
050.01-Train control and signals	44,211,988	41,262,263
050.02-Traffic signals and crossing protection	12,804,956	12,180,741
050.03-Traction power supply: substations	21,465,073	19,629,172
050.04-Traction power distribution: catenary and third rail	12,441,113	3,993,381
050.05-Communications	21,097,119	10,466,040
050.06-Fare collection system and equipment	6,100,000	627,988
050.07-Central Control	2,614,586	1,720,962
060.01-Purchase or lease of real estate	30,065,810	28,239,539
060.02-Relocation of existing households and businesses	2,180,511	2,409,430
070.01-Light Rail	16,800,000	11,929,247
080.01-Preliminary Engineering	46,202,674	46,202,675
080.02-Final Design	61,318,331	61,234,149
080.03-Project Management for Design and Construction	83,144,281	83,548,026
080.04-Construction Administration & Management	121,341,299	127,820,167
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	6,288,730
080.07-Surveys, Testing, Investigation, Inspection	933,100	908,184
080.08-Start up	8,300,329	-
090.00-Unallocated Contingency	1,632,669	-
Grand Total	1,578,300,000	1,594,065,105

[A] Cost Account Description	[B] August 2020 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total			
TOTAL PRELIMINARY ENGINEERING	46,542,061	46,542,061	0	0	46,542,061	0	40	
11 - SFMTA PROJECT MANAGEMENT	8,800,164	8,253,957	0	0	8,253,957	546,208	41	
12 - SFMTA ENGINEERING SERVICES	11,425,594	11,425,594	0	0	11,425,594	0	42	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	921,906	802,883	0	0	802,883	119,023		
21 - ARTS COMMISSION	1,500,570	1,500,570	0	0	1,500,570	0	43	
22 - FIRE DEPARTMENT	33,825	35,343	0	0	35,343	(1,518)		
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	44	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	3,336,432	3,336,432	0	0	3,336,432	0		
34 - DPW - IDC CONSTRUCTION (CAPITAL)	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	45	
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	26,793,234	26,793,234	0	0	26,793,234	0	46	
66 - ANIL VERMA	395,204	395,204	0	0	395,204	0	47	
67 - HILL INTERNATIONAL CONTRACT 156	6,716,294	6,716,294	0	0	6,716,294	0	48	
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	49	
72 - STATIONS - CONTRACT # CONTRACT 155-2	26,220,609	26,220,609	0	0	26,220,609	0	50	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	11,432,312	11,432,312	0	0	11,432,312	0	51	
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	33,324	33,324	(33,324)		
TOTAL FINAL DESIGN	115,075,988	113,952,470	0	33,324	113,985,794	1,090,194		
11 - SFMTA PROJECT MANAGEMENT	16,500,000	17,694,857	109,870	562,884	18,257,741	(1,757,741)		
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	16,500,000	17,694,857	109,870	562,884	18,257,741	(1,757,741)		
12 - SFMTA ENGINEERING SERVICES	2,923,582	3,015,487	14,573	48,788	3,064,275	(140,693)		
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	2,957,839	14,573	48,788	3,006,627	(206,627)		
13 - SFMTA CONSTRUCTION MANAGEMENT	25,432,035	24,044,802	125,582	732,092	24,776,894	655,141		
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	25,432,035	24,044,802	125,582	732,092	24,776,894	655,141		
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	2,719,319	9,119	40,415	2,759,735	899,578		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	361,224	8,462	13,119	374,343	(74,743)		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	146,092	459	2,283	148,375	126,525		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	224,412	0	598	225,011	13,389		
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	288,313	199	24,415	312,728	564,148		
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)		

[A] Cost Account Description	[B] August 2020 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total			
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	163,411	0	0	163,411	(163,411)		
1.3.016.05.040.08 - PCOS:1300/YBM [68CPT544132Y.CPT544132Y]	0	207,537	0	0	207,537	(207,537)		
1.3.016.09.040.08 - PCOS:1300/STS [68CPT544132Z.CPT544132Z]	0	245,049	0	0	245,049	(245,049)		
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	127,460	2,753	6,925	134,385	265,615		
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	40,594	2,753	5,293	45,887	54,113		
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300 - UMS O/L	50,255	72,185	0	1,632	73,817	(23,561)		
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300/UMS	249,745	14,681	0	0	14,681	235,063		
19 - OTHER SFMTA	1,000,000	945,836	0	0	945,836	54,164		
1.3.019.07.080.07 - OTH.MTA SFMTA-SURVEY; TSTG [6840]	1,800	1,720	0	0	1,720	80		
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 DUR	848,200	817,966	0	0	817,966	30,234		
21 - ARTS COMMISSION	12,010,886	6,136,237	41,645	195,394	6,331,632	5,679,254		
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCTION COSTS	3,769,932	0	0	0	0	3,769,932		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [1227]	1,719,387	388,167	0	0	388,167	1,331,220	52	
1.3.021.01.080.04 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT544122]	21,000	12,465	0	0	12,465	8,535		
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.132J]	834,264	916,702	7,536	12,826	929,527	(95,263)		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFUNA.CPT544132]	10,149	11,093	0	0	11,093	(944)		
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFUNA.CPT544132]	4,439	4,439	0	0	4,439	0		
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT5441327.CPT5441327]	1,393,660	1,393,660	0	0	1,393,660	0		
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA.CPT5441327]	3,011,963	3,409,712	34,110	182,568	3,592,281	(580,318)		
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	2,802,830	677,076	0	2,802,830	(631,049)		
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	2,802,830	677,076	0	2,802,830	(631,049)		
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	26,697	0	0	26,697	110,365		
1.3.026.01.080.06 - CM:CTYCO-PLANNING DEPARTMENT	137,062	26,697	0	0	26,697	110,365		
28 - PUBLIC UTILITIES COMMISSION WATER	4,242,012	4,234,193	5,827	16,396	4,250,589	(8,577)		
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	511,028	820	4,063	515,091	(116,691)		
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	632,056	0	1,741	633,797	(27,443)		

[A] Cost Account Description	ACTUAL COSTS						COST REPORT NOTES
	[B] August 2020 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total	[G] VARIANCE (B - F)	
1.3.028.03.080.04 - PUC:CMB CONTRACT 1300/UMS INSPECTION	230,000	34,508	0	0	34,508	195,492	
1.3.028.04.040.02 - PUC:CDD CONTRACT 1300/CTS SUPPORT	271,755	203,513	1,554	5,151	208,664	63,091	
1.3.028.04.080.04 - PUC:CMB CONTRACT 1300/CTS INSPECTION	115,000	55,773	0	0	55,773	59,227	
1.3.028.05.040.02 - PUC:CDD CONTRACT 1300/YBM SUPPORT	450,282	503,518	0	87	503,605	(53,323)	
1.3.028.05.080.04 - PUC:CMB CONTRACT 1300/YBM INSPECTION	184,000	98,643	0	0	98,643	85,357	
1.3.028.06.040.02 - PUC:CMB CONTRACT 1300/SFWD AWSS MATERIAL	225,079	249,247	0	0	249,247	(24,168)	
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 [3BB]	0	88,879	0	0	88,879	(88,879)	
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	490,505	3,453	5,354	495,858	24,219	
1.3.028.09.080.04 - PUC:CMB CONTRACT 1300/STS INSPECTION	207,000	257,294	0	0	257,294	(50,294)	
32 - DPW - IDC ENGINEERING (HYDRAULIC)	1,150,459	560,763	985	0	560,763	589,696	
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	130,415	0	0	130,415	167,523	
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	58,932	0	0	58,932	242,950	
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112B112]	85,275	85,275	0	0	85,275	0	53
1.3.032.06.080.04-1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C112]	109,658	109,658	0	0	109,658	0	54
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D112]	15,791	15,791	0	0	15,791	0	55
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E112]	11,193	11,193	0	0	11,193	0	56
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F112]	107,798	107,798	0	0	107,798	0	57
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G112]	21,690	47,917	0	0	47,917	(26,227)	58
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	257,065	985	0	257,065	(77,065)	
34 - DPW - IDC CONSTRUCTION (CAPITAL)	6,703,969	6,345,071	0	0	6,345,071	358,898	
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	2,352,071	0	0	2,352,071	358,898	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	465,562	158,741	0	0	158,741	306,821	
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	92,977	0	0	92,977	(44,544)	
37 - DPW - PCS MATERIAL TESTING LABORATORY	83,100	0	0	0	0	83,100	
1.3.037.01.080.07 - DPW.MTL.LABDPW-MATERIAL TESTIN	83,100	0	0	0	0	83,100	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	613,853	438,455	0	0	438,455	175,398	
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	

[A] Cost Account Description	[B] August 2020 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total			
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		
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 [13C]	18,632	16,880	0	0	16,880	1,753		
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR) – CN1300 [13C]	41,379	24,761	0	0	24,761	16,618		
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	667,049	6,281	2,914	669,963	100,880		
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	626,158	6,281	2,771	628,929	67,824		
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	28,912	0	143	29,055	25,945		
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM TRAILER	9,090	10,923	0	0	10,923	(1,833)		
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	59	
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRACT 149	70,970,187	68,875,528	1,365,000	4,949,020	73,824,547	(2,854,360)		
1.3.063.01.080.03 - CM:PM:AECOM.CS149 OM-EPC JV CS149-PM	5,017,804	5,017,804	0	0	5,017,804	0	60	
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3B]	1,969,213	1,969,213	0	0	1,969,213	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3E]	6,386,250	6,386,250	0	0	6,386,250	(0)		
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]	4,101,465	4,101,466	0	0	4,101,466	(0)		
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]	5,167,381	5,167,381	0	0	5,167,381	(0)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3G][PM]	1,291,845	1,291,845	0	0	1,291,845	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3H]	4,380,849	4,380,849	0	0	4,380,849	(0)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3H][PM]	1,095,212	1,095,212	0	0	1,095,212	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3i]	7,310,184	5,582,974	0	0	5,582,974	1,727,210		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3i][PM]	2,590,785	1,395,744	0	0	1,395,744	1,195,041		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3j]	7,000,000	13,296,655	1,092,000	(7,215,254)	6,081,401	918,599		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3j][PM]	2,000,000	3,324,164	273,000	(1,803,814)	1,520,350	479,650		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [3m]	3,600,000	0	0	10,050,901	10,050,901	(6,450,901)		
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3m][PM]	900,000	0	0	2,512,725	2,512,725	(1,612,725)		
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]	515,694	515,694	0	0	515,694	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9E]	523,943	523,943	0	0	523,943	0		
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]	501,912	501,912	0	0	501,912	0		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9H]	1,219,093	1,219,093	0	0	1,219,093	(0)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9i]	2,974,444	3,039,000	0	0	3,039,000	(64,556)		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9j]	3,000,000	1,392,217	0	883,381	2,275,598	724,402		
1.3.063.01.080.04 - CM:AECOM.CS149OM-EPC JV CS-149 [9m]	750,000	0	0	521,080	521,080	228,920		
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	0	0	0	0	0	0		

[A] Cost Account Description	ACTUAL COSTS						COST REPORT NOTES
	[B] August 2020 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total	[G] VARIANCE (B - F)	
64 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855	61
1.3.064.06.040.08 - CN1300 JOB READINESS PROGRAM	1,060,000	956,145	0	0	956,145	103,855	
67 - HILL INTERNATIONAL CONTRACT 156	3,031,391	2,848,817	0	0	2,848,817	182,574	
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. [133O]	127,261	127,261	0	0	127,261	0	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2016 [68CPT5441340.CPT5441]	883,631	883,631	0	0	883,631	(0)	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2017 [68CPT5441346.CPT5441]	566,925	384,352	0	0	384,352	182,573	
69 - BAYLAND SOIL PROCESS CONTRACT 175	500,000	255,144	0	0	255,144	244,856	62
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	2,215,889	0	0	2,215,889	(57,043)	
1.3.071.01.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1232]	0	(87,201)	0	0	(87,201)	87,201	63
1.3.071.02.080.04 - CM: CS155.1 DESIGN SUPPORT DURING CM [1332]	2,158,846	2,303,091	0	0	2,303,091	(144,245)	
72 - STATIONS - CONTRACT # CONTRACT 155-2	14,612,416	21,418,252	674,233	333,001	21,751,253	(7,138,837)	
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1233]	51,351	61,130	0	0	61,130	(9,779)	64
1.3.072.01.080.04 - CM: CS155.2 DESIGN SUPPORT DURING CM [1333]	14,561,065	21,357,122	674,233	333,001	21,690,122	(7,129,057)	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	6,425,946	258,502	218,542	6,644,488	(1,816,219)	
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	6,336,155	258,502	218,542	6,554,697	(1,816,428)	
81 - UTILITIES RELOCATION #1 (PORTAL & MOS) - CONTRACT 1250	11,968,150	11,968,150	0	0	11,968,150	0	
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	
82 - UTILITIES RELOCATION #2 (UMS) - CONTRACT 1251	20,669,081	20,669,081	0	0	20,669,081	(0)	65
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	10,202,543	10,202,543	0	0	10,202,543	(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	
GUIDEWAY TUNNELS TOTAL	233,511,253	233,511,253	0	0	233,511,253	0	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 BASE	233,584,015	233,584,015	0	0	233,584,015	0	66
1.3.083.02.010.06 - CONTRACT 1252:GUIDEWAY:UNDERGRN'D 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	105,423,090	0	0	105,423,090	0	
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	10,895,000	0	0	10,895,000	0	
1.3.083.02.040.03 - CONTRACT 1252:SITWORK:HAZMAT&MITIGAT	200,000	200,000	0	0	200,000	0	
1.3.083.02.040.04 - CONTRACT 1252:SITWORK:ENVIRON. MITIG	300,000	300,000	0	0	300,000	0	
1.3.083.02.040.06 - CONTRACT 1252:SITWORK:PED/BIKE ACCES	50,000	50,000	0	0	50,000	0	
1.3.083.02.040.07 - CONTRACT 1252:SITWORK:AUTO/BUS ACCES	1,345,000	1,345,000	0	0	1,345,000	0	

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1.3.083.02.040.08 - CONTRACT 1252:SITWORK:TEMP FACILITIE	30,799,500	30,799,500	0	0	30,799,500	0	
83 - GUIDEWAY TUNNELS - CONTRACT # 1252 CMODs	(72,762)	(72,762)	0	0	(72,762)	0	67
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	1,810,094	1,810,094	0	0	1,810,094	0	
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	1,035,588	0	0	1,035,588	(0)	
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	(4,488,326)	(4,488,326)	0	0	(4,488,326)	0	
CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TOTAL	861,639,701	870,718,769	8,102,058	29,340,060	900,058,829	-38,419,128	69
84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK PACKAGE 1253	294,030,590	287,611,674	407,268	2,359,581	289,971,255	4,059,335	21
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	250,088,140	189,549	1,046,903	251,135,043	1,946,409	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	9,005,019	123,961	47,680	9,052,699	412,995	
1.3.084.03.040.01 - UMS.1253: DEMOLITION CLEARING	6,071,588	6,071,588	0	0	6,071,588	0	
1.3.084.03.040.02 - UMS.1253: SITE UTILITIES UTIL	4,360,395	4,360,395	0	0	4,360,395	0	
1.3.084.03.040.03 - UMS.1253: HAZARDOUS MATERIALS	550,000	6,936	0	425,218	432,154	117,846	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	194,500	0	50,000	244,500	0	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	18,322	647	0	18,322	647	
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	1,031,201	0	116,408	1,147,609	10,801	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	9,892,488	0	567,054	10,459,542	680,159	
1.3.084.03.050.02 - UMS.1253: TRAFFIC SIGNALS AND	4,773,076	4,773,076	0	0	4,773,076	0	
1.3.084.03.050.03 - UMS.1253: TRACTION POWER SUPPL	1,815,534	1,021,534	0	0	1,021,534	794,000	
1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	87,388	20,210	96,368	183,756	33,201	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	1,061,087	72,901	9,950	1,071,037	63,277	
84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs	9,631,090	7,257,208	0	1,986,753	9,243,961	387,129	
1.3.084.84.020.03 - CMOD:UMS.1253: UNDERGROUD STATION	1,832,330	1,809,040	0	0	1,809,040	23,290	
1.3.084.84.020.07 - CMOD:UMS.1253: ELEVATORS, ESCALATORS	490,000	90,000	0	100,000	190,000	300,000	
1.3.084.84.040.01 - CMOD:UMS.1253: DEMOLITION CLEARING	944,987	944,987	0	0	944,987	0	
1.3.084.84.040.02 - CMOD:UMS.1253: SITE UTILITIES UTIL	3,270,038	3,206,200	0	0	3,206,200	63,838	
1.3.084.84.040.03 - CMOD:UMS.1253: HAZARDOUS MATERIALS	349,730	349,730	0	0	349,730	0	
1.3.084.84.040.08 - CMOD:UMS.1253: TEMPORARY FACILITIES	809,103	809,102	0	0	809,102	1	
1.3.084.84.050.05 - CMOD:UMS.1253: COMMUNICATIONS	48,149	48,149	0	0	48,149	0	
1.3.084.94.020.03 - UMS.1253: AC: ALLOC CONTING	10,368,910	0	0	0	0	10,368,910	41
85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254	247,567,810	233,837,967	2,430,567	4,148,757	237,986,724	9,581,086	
1.3.085.04.010.07 - CTS.1254: GUIDEWAY: UNDERGROUND TUNNEL	76,417,579	76,417,579	0	0	76,417,579	0	
1.3.085.04.020.03 - CTS.1254: UNDERGROUND STATION	133,001,053	121,969,335	1,301,609	3,450,558	125,419,893	7,581,160	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	5,843,957	15,000	353,914	6,197,871	614,985	
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	5,521,257	295,792	129,000	5,650,257	351,461	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	350,000	350,000	0	350,000	0	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	325,665	300,000	0	325,665	0	
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	130,008	0	0	130,008	95,669	
1.3.085.04.040.08 - CTS.1254: TEMPORARY FACILITIES	16,571,322	16,269,570	153,248	194,832	16,464,402	106,920	

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1.3.085.04.050.02 - CTS.1254: TRAFFIC SIGNALS AND	1,599,593	1,665,255	0	0	1,665,255	(65,662)		
1.3.085.04.050.03 - CTS.1254: TRACTION POWER SUPPL	4,063,927	3,570,677	0	0	3,570,677	493,250		
1.3.085.04.050.04 - CTS.1254: TRACTION POWER DISTRIBUTION	124,481	94,490	0	0	94,490	29,991		
1.3.085.04.050.05 - CTS.1254: COMMUNICATIONS	1,658,938	1,280,173	14,918	20,453	1,300,626	358,312		
85 - CHINATOWN STATION (CTS) CMODs	53,619,230	42,257,535	0	1,419,413	43,676,948	9,942,282	71	
1.3.085.85.020.03 - CMOD:CTS.1254: UNDERGROUND STATION	1,201,478	1,126,478	0	0	1,126,478	75,000		
1.3.085.85.020.04 - CMOD:CTS.1254: OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0	0	0	0	9,360,183		
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	4,022,598	3,996,251	0	0	3,996,251	26,347		
1.3.085.85.040.03 - CMOD:CTS.1254: HAZARDOUS MATERIALS	3,895,399	3,895,396	0	0	3,895,396	3		
1.3.085.85.040.08 - CMOD:CTS.1254: TEMPORARY FACILITIES	33,564,202	33,091,198	0	0	33,091,198	473,004		
1.3.085.85.050.05 - CMOD:CTS.1254: COMMUNICATIONS	1,419,413	0	0	1,419,413	1,419,413	0	71a	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	(43,619,229)	0	0	0	0	(43,619,229)	72	
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAGE 1255	158,089,000	153,879,211	437,099	1,044,553	154,923,764	3,165,236		
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	117,057,965	393,000	306,225	117,364,190	1,041,650		
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	4,892,292	44,099	35,832	4,928,124	405,163		
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	7,163,276	0	0	7,163,276	2		
1.3.086.05.040.03 - YBM.1255: HAZARDOUS MATERIALS	2,629,439	2,115,947	0	300,254	2,416,201	213,238	73	
1.3.086.05.040.04 - YBM.1255: ENVIRONMENTAL MITIGA	100,000	37,770	0	0	37,770	62,230		
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	1,539,725	0	0	1,539,725	3,000		
1.3.086.05.040.08 - YBM.1255: TEMPORARY FACILITIES	15,564,753	14,726,649	0	401,267	15,127,916	436,837		
1.3.086.05.050.02 - YBM.1255: TRAFFIC SIGNALS AND	1,726,492	1,723,992	0	0	1,723,992	2,500		
1.3.086.05.050.03 - YBM.1255: TRACTION POWER SUPPL	3,708,425	2,741,349	0	0	2,741,349	967,076		
1.3.086.05.050.05 - YBM.1255: COMMUNICATIONS	1,241,096	1,223,245	0	975	1,224,220	16,876		
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	5,980,245	4,416,407	0	1,123,354	5,539,761	440,484		
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	466,470	417,013	0	33,068	450,081	16,389		
1.3.086.86.020.07 - CMOD:YBM.1255: ELEVATORS ESCALATOR	210,055	210,055	0	0	210,055	0		
1.3.086.86.040.01 - CMOD:YBM.1255: DEMOLITION CLEARING	266,386	259,386	0	0	259,386	7,000	73	
1.3.086.86.040.02 - CMOD:YBM.1255: SITE UTILITIES UTIL	3,570,282	3,158,755	0	0	3,158,755	411,527		
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	29,921	0	0	29,921	5,568		
1.3.086.86.040.08 - CMOD:YBM.1255: TEMPORARY FACILITIES	87,715	87,715	0	0	87,715	0		
1.3.086.86.050.05 - CMOD:YBM.1255: COMMUNICATIONS	1,090,286	0	0	1,090,286	1,090,286	0	73a	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	(980,244)	0	0	0	0	(980,244)	74	
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 1256	139,989,000	121,398,342	3,187,318	1,412,195	122,810,537	17,178,463		
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUSIVE (ALLOWS C	2,860,000	2,860,000	0	0	2,860,000	0		
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & CVR	9,257,731	8,937,034	0	0	8,937,034	320,697		
1.3.087.09.010.07 - STS.1256: GUIDEWAY: UNDERGROUN	16,723,552	16,161,355	0	(28,918)	16,132,437	591,115		
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	6,753,340	80,250	3,750	6,757,090	4,000		

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1.3.087.09.010.12 - STS.1256: TRACK: SPECIAL	4,449,637	4,449,637	0	0	4,449,637	0		
1.3.087.09.020.01 - STS.1256: AT-GRADE STATION	7,602,857	6,439,978	209,500	45,422	6,485,400	1,117,457		
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	14,646,681	(18,698)	(14,808)	14,631,873	2,832,173		
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	200,000	200,000	0	200,000	0	73	
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	50,000	50,000	0	50,000	0	73	
1.3.087.09.040.07 - STS.1256: AUTOMOBILE BUS ACCE	2,116,925	2,116,924	0	0	2,116,924	1		
1.3.087.09.040.08 - STS.1256: TEMPORARY FACILITIES	13,896,832	13,725,367	11,861	10,000	13,735,367	161,464		
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	25,198,843	1,852,137	662,643	25,861,486	1,681,965		
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	3,798,418	36,550	0	3,798,418	664,950		
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	8,367,573	157,850	53,340	8,420,913	1,468,101		
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	3,121,331	16,419	343,270	3,464,601	2,635,074		
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	3,128,995	8,964	59,400	3,188,395	4,807,842		
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	1,442,866	582,485	278,096	1,720,962	893,624		
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	32,955,777	20,060,425	1,639,806	15,845,454	35,905,879	(2,950,102)		
1.3.087.89.020.03 - CMOD:STS.1256: UNDERGROUND STATION	(4,876,785)	-4,876,785	0	0	(4,876,785)	(0)		
1.3.087.89.040.01 - CMOD:STS.1256: DEMOLITION, CLEARING, EARTHWORK	399,000	399,000	0	0	399,000	0		
1.3.087.89.040.02 - CMOD:STS.1256: SITE UTILITIES, UTILITY RELOCA	1,482,322	1,345,796	0	0	1,345,796	136,526		
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	0	0	18,219	2		
1.3.087.89.040.07 - CMOD:STS.1256: AUTOMOBILE BUS ACCE	975,368	0	0	975,368	975,368	0		
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	34,904,633	21,240,873	(60,212)	11,881,286	33,122,159	1,782,474	74a	
1.3.087.89.050.01 - CMOD:STS.1256: TRAIN CONTROL	(1,856,144)	1,713,322	1,700,018	2,988,800	4,702,122	(6,558,266)		
1.3.087.89.050.02 - CMOD:STS.1256: TRAFFIC SIGNALS AND	242,427	220,000	0	0	220,000	22,427		
1.3.087.89.050.05 - CMOD:STS.1256: COMMUNICATIONS	1,666,735	0	0	0	0	1,666,735		
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	(45,992,477)	0	0	0	0	(45,992,477)	75	
88 - STATIONS CONTRACT 1300	2,435,063	1,059,913	1,017	53,877	1,113,790	1,321,273		
1.3.088.06.080.04 - CN1300 CONSTRUCTION TRAILER [68CPT5441316.CPT5441316]	80,000	0	0	0	0	80,000		
1.3.088.06.080.04 - DT-CN1300 COMMUNICATIONS INSTALL [68CPT5441317.CPT5441317]	1,430,594	30,480	0	31,932	62,412	1,368,182		
1.3.088.06.080.04 - MTA Communications - Business Liaison to support CN1300 CON[68CPT5441318.CPT5441318]	420,000	343,778	0	0	343,778	76,222		
1.3.088.06.080.04 - IT-CN1300 Installation [68CPT5441319.CPT5441319]	448,371	279,610	1,017	4,700	284,310	164,061		
1.3.088.06.080.04 - CN1300 Installation Maintenance [68CPT5441320.CPT5441320]	25,000	365,410	0	17,245	382,655	(357,655)		
1.3.088.06.080.04 - DT Support - Stations [68CPT544135.CPT5441325]	31,098	40,635	0	0	40,635	(9,537)		
141 - CONSTRUCTION ADMINISTRATION	0	0	0	0	0	0		
142 - LEGAL/PERMITS	2,014,204	0	0	0	0	2,014,204		
1.3.142.01.080.06 - LGL.PRMTSF:LEGAL; PERMITS	2,014,204	0	0	0	0	2,014,204		
144 - STARTUP	8,300,329	0	0	0	0	8,300,329		
1.3.144.01.080.08 - STRT: STARTUP (SFMTA Transit)	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		
151 - TEMPORARY LICENSE AGREEMENT	17,000	0	0	0	0	17,000		
1.3.151.01.080.06 - TEMP.LICPORARY LICENSE AGREEME	17,000	0	0	0	0	17,000		
170 - COMMUNICATIONS CONNECTIONS	10,599,579	1,123,913	0	0	1,123,913	9,475,666		
1.3.170.01.050.04 - COMM.CONNN:COMMUNICATION CONN	5,757,629	0	0	0	0	5,757,629		
1.3.170.01.050.05 - CSP Radio Design	641,950	641,950	0	0	641,950	0		
1.3.170.01.050.05 - CSP Radio Cable	377,788	321,963	0	0	321,963	55,825		

[A] Cost Account Description	[B] August 2020 Budget (YOE)	ACTUAL COSTS					[G] VARIANCE (B - F)	COST REPORT NOTES
		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total			
1.3.170.01.050.05 - CSP Radio Procurement	3,822,212	160,000	0	0	160,000	3,662,212		
181 - AON RISK INSURANCE CS 163	25,119,436	25,119,206	0	0	25,119,206	230		
1.3.181.01.040.08 - AON.CS163 AON RISK INS.	25,094,436	25,094,206	0	0	25,094,206	230		
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	152,852	0	0	152,852	5,247,148		
1.3.191.01.050.06 - FARE.CONSUM:FARE COLLECTION	5,400,000	152,852	0	0	152,852	5,247,148		
192 - THALES T&S CENTRAL CONTROL	18,524,681	10,698,655	2,517,850	0	10,698,655	7,826,026		
1.3.192.01.050.01 - THALES T&S ATCS	487,972	106,179	0	0	106,179	381,793		
1.3.192.01.050.01 - CN1266-2 Advanced Train Control System (ATCS) - Implementation	14,611,285	7,475,844	2,517,850	0	7,475,844	7,135,441		
1.3.192.01.050.01 - CN1266-1 Advanced Train Control System (ATCS) - Equipment	3,425,424	3,116,632	0	0	3,116,632	308,792		
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	3,874,699	0	0	3,874,699	(1,886,526)		
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	1,305,477	0	0	1,305,477	1,654,349		
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	0	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	476,611	0	0	476,611	474,745		
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	443,459	0	0	443,459	457,897		
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	475,136	0	0	475,136	224,864		
1.3.334.01.050.06 - BART:BART FARE COLLECTION EQP	700,000	475,136	0	0	475,136	224,864		
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	250,534	0	0	250,534	(8,163)		
1.3.402.07.050.04 - DT:1UTL:COMM. CONNECTIONS	166,756	179,179	0	0	179,179	(12,423)		
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	0	0	(254,050)	76	
1.3.491.03.040.02 - FORMB - UMS:CONTRACT 1300 UTILITY REIMBURSEMENT	(528,370)	0	0	0	0	(528,370)	77	
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBURSEMENT	(451,703)	0	0	0	0	(451,703)	78	
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBURSEMENT	(100,000)	0	0	0	0	(100,000)	79	

[A] Cost Account Description	ACTUAL COSTS						COST REPORT NOTES
	[B] August 2020 Budget (YOE)	[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total	[G] VARIANCE (B - F)	
1.3.491.07.040.02 - FORMB - CONTRACT 1250 UTILITY REIMBUR	(2,275,419)	0	0	0	0	(2,275,419)	81
1.3.491.08.040.02 - FORMB - CONTRACT 1251 UTILITY REIMBUR	(7,618,412)	0	0	0	0	(7,618,412)	82
1.3.491.09.040.02 - FORMB - STS:CONTRACT 1300 UTILITY REIMBURSEMENT	(1,000,000)	0	0	0	0	(1,000,000)	83
TOTAL CONSTRUCTION PHASE	1,366,108,875	1,354,564,632	13,912,374	36,500,308	1,391,064,939	(24,956,065)	
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	14,622,868	9,781,465	0	0	9,781,465	4,841,403	
TOTAL VEHICLES	16,800,000	11,929,247	0	0	11,929,247	4,870,753	
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	15,955,138	14,224,616	0	0	14,224,616	1,730,522	
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	2,764,872	2,764,872	0	0	2,764,872	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)	
TOTAL ROW, LAND, EXISTING IMPROVEMENTS	32,140,418	30,543,065	0	0	30,543,065	1,597,353	
90 - CONTINGENCY	(76,071,946)	0	0	0	0	(76,071,946)	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	1,632,669					1,632,669	84
TOTAL ALLOCATED CONTINGENCY	(77,704,615)					(77,704,615)	
TOTAL PROJECT COST	1,578,300,010	1,557,531,473	13,912,374	36,533,631	1,594,065,105	(15,765,095)	

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.
17	SFWD funded Contract Modification #60 for 8' water line at the intersection of Fourth and Jessie Street which are reimbursements for work carried out in Contract 1252.
17a	The Chinatown Plaza (CPT 718) is used for Chinatown Station enhancement. The project has funding outside of the Central Subway Project. The construction is carried out in Contract 1300 Contract Modifications. CMOD#123 is being partially funded by CPT718 funding.

7.4 Contingency Management Trend Report	
18	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.
19	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.
20	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. In March 2018 report, increased Contract 1252 contingency by \$131,715 cost to reflect certification of two CMODS.
21	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. In March 2019, \$18,036,709 was taken out of original contract of \$879,676,400 due to ATCS no longer being done by Tutor hence new revised budget of \$861,639,691. In August 2019, used new methodology to report on the potential changes to our contract cost. See backup via SCC codes. The budget number in cell m14 has also been updated to reflect the true cost.
22	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.
23	In December 2017 Report, \$1,060,000 Job Readiness Budget is shown as an approved change in Column "b". In March 2019 report, \$18,036,709 taken out of Tutor contract (STS package) and put into unallocated contingency. We then used the same amount from unallocated contingency, \$18,036,709 and moved to its own line for the ATCS (advanced train control system) contract. As of March 2019, Tutor has not given us credit for the \$18,036,709 that is still sitting on the STS AL-14 bid item. That bid item should not be \$25M but instead be \$7,054,078 to reflect amount we have previously paid out. We will continue to monitor the STS-AL bid item to make sure Tutor corrects the amount. In August 2019, we are showing the \$4,841,950 from unallocated program contingency being moved to SCC 50 Systems category.

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24	In December 2017 Report, there is a change in Column "f" and Column "h" to reflect reporting to include CN1250 and CN1251. Prior to this, Column "f" and Column "h" reporting excluded CN1250 and CN1251.
25	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.
26	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. In Dec 2018 Report, increased LRV budget by \$3,491,000 to reflect final costs of vehicles (\$4,200,000/unit) for vehicle procurement contract to \$16,800,000. Reduced LRV contract and transferred the \$9,585,653 from LRV contingency to unprogrammed contingency.
26a	In July 2018 Report, increased SCC 80 Professional Services category budget by \$2,263,498 due to additional costs related to CN1300 stations; cost was transferred from program unallocated contingency. In August 2019 report, we are realigned and adjusted the allocated contingency for Professional Services and moved to approved changes column.
27	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. In July 2018 report, used \$2,263,498 to increase SCC 80 Professional Services category regarding matters related to stations from program unallocated contingency. In August 2019 report, used \$4,841,950 to increased SCC 50 Systems category regarding matters related to CSP Radio from program unallocated contingency.
28	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.
29	Estimate at Completion is shown at Column "e".
30	Estimate at Completion vs. Budget variance is shown at Column "k".
7.5 Contract Modification/Trend Log - Contract 1300 Stations	
31	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. In May 2017, updated probability formula and adjusted cost.

7.6 Budget Revisions: Report Sorted by Construction Packages	
32	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. In March 2018 Report, increased CN1252 allocated contingency by \$131,715 to execute two contract modifications (#61 and #62), see Report 7.5 Detail Contingency Usage Report. In December 2018 Report, released CN1252 allocated contingency of \$966,431 to program unallocated contingency.
33	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.
34	In April 2015, initiated budget from program unallocated contingencies for CS-175 Bayland Soil Process contract, refer to Note 20.
34a	In March 2019, initiated transfer due to budget being withdrawn from Tutor contract (STS package) to fund the Advanced Train Control System contract amount of \$18,036,709. CN1266-2 Advanced Train Control System (ATCS) Implementation for \$14,611,285 and CN1266-1 Advanced Train Control System (ATCS) Equipment for \$3,425,424.
34b	In December 2018, initiated budget from program unallocated contingencies for AON Risk Insurance, refer to Note 20.
35	In February 2017, released completed phase real estate assigned contingency \$5,265,478 to program unallocated contingency.
36	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. In December 2018 Report, adjusted budget from \$13,309,000 to \$16,800,000 from allocated contingency. Took the remaining allocated contingency of \$9,585,653 and moved it to program unallocated contingency.
36a	In August 2019 Report, utilized the contingency of \$16,862,657 from 80.03 Project Management budget and 80.04 Construction Management budget and redistributed funds to align with AECOM budget to reflect true costs plus additional \$12,000,000 in 2019 annual work plan.

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37	<p>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. In June 2017, initiated budget from Contract 1251's contract value (true final administrative close out cost) to program unallocated contingency, a deduction contract modification that lowered CN1251's contract value by \$125,501. In March 2018 report, 1252 program contingency increased by \$131,715 due to execution of two contract modifications as credit offsets. In July 2018, increased SCC category Professional Services in 80.04 Construction Management by \$2,263,498 by reducing program unallocated contingency. In August 2019, increased SCC category Other Construction in 50.05 CSP Radio by \$4,841,950 by reducing program unallocated contingency.</p>
38	<p>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. In July 2017, increased program unallocated contingency by \$125,501 due to CN1251's revised contract value. In July 2018, reduced program unallocated contingency by \$2,263,498 to fund additional costs for SCC category Professional Services in 80.04 Construction Management. In December 2018, reallocated CN1252 budget of 2,402,247 (due to closeout cmod reduction of 1,435,816 and contingency release of 966,430) and LRV budget contingency of 9,585,653 and released a total of 11,987,900 to unprogrammed contingency. In August 2019, reduced program contingency by \$4,841,950 to fund additional costs for SCC category Other Construction in 50.05 to fund CSP Radio related services. In August 2020, used \$5.25M of unprogrammed contingency to fund AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K.</p>
<p>7.7 Budget Expenditures by SCC Codes</p>	
39	<p>In March 2017, added new columns for "Supplemental 2013 Budget" and "Remaining Budget". In April, added new column for "Contingency". In May 2017, added new column for "Report Note". In May 2017, breakdown the combined SCC codes 10 to 50 into individual row for 10, 20, 40, 50 categories. Assigned SCC code to all CN1300 potential changes. Contract 1300 Station assigned contingency SCC are 20.01 and 20.03. The budget transfer is using assigned contingency to process contract modifications. In June 2017, adjusted and realigned SCC codes. In July 2018, the budget transfer is using SCC 90 program unallocated contingency to process an increase in budget for category SCC 80.03-90.04 PM For Design & Construction. In March 2019, added \$18,036,709 from taking out the ATCS from Tutor contract. The budget transfer was used to create a stand alone line for ATCS work in 50.01 under Thales. In August 2020, used \$5.25M of unprogrammed contingency to create AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K.</p>
<p>7.9 Detail Monthly Expenditure Report</p>	
<p>Phase 1 Preliminary Engineering</p>	
40	<p>In February 2017, line item budget was adjusted to line-up expenditures. 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.</p>

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Phase 2 Design Phase	
41	Famis cost adjustment to transfer Project Management cost from July 2013 to Phase 3 Construction Phase.
	Famis Phase 1 PE Index Code: 357906.CPT5441112 cost is \$10,222,939
42	\$8,949,300 is reported in Cost Report Phase 1 PE and the balance of \$1,273,639 is reported in Phase 2 Design.
	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
43	[357909ART001.CPT5441227]
44	In December 2016 Report, Central Subway Project has re-activated CSA Audit Work Order to perform overhead audit for three consultant forms.
	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
45	[35CPT5441241.CPT5441241]
	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
46	Cost Transfer: Future costs to 1.3.063.01.080.03 - AECOM.CS149 OM-EPC JV CS149-PM [68CPT544133D.CPT544133D]
47	AVA Cost \$395,204 is reported in Phase 2 Final Design 1.2.066.01.080.03
48	In January 2017 Report, remove variance amount of (\$920,555) that was incorrectly reported in August 2016.
	1.2.071.01.080.02 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]: FAMIS: \$5,608,147 Cost Report: \$5,469,336
49	Cost Transfer: \$138,811 to 1.3.071.01.080.04 - FD:FINAL DESIGN-DP1 [35CPT5441232.CPT5441232]
	1.2.072.01.080.02 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]: FAMIS: \$26,268,511 COST REPORT: \$26,220,609
50	COST TRANSFER: \$47,902 to 1.3.072.01.080.04 - FD:FINAL DESIGN-DP2 [35CPT5441233.CPT5441233]
	1.2.073.01.080.02 - FD:FINAL DESIGN-DP3 [35CPT5441236.CPT5441236]: FAMIS: \$11,502,372 COST REPORT: \$11,432,312
51	COST TRANSFER: \$70,060 to 1.3.073.01.080.04 - CM: DP3 [35CPT5441236.CPT5441236]
Phase 3 Construction Phase	
	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
52	Cost Transfer: any future costs to 1.3.021.01.080.03

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53	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.
54	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.
55	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.
56	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.
57	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.
58	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.
59	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
60	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]
61	In February 2017, transferred \$1,060,000 from programs unallocated contingency to initiate CN1300 JOB READINESS contracts, (cost account code 1.3.064.06.040.08). A deductive Construction Modification to CN1300 will process.
62	Used \$500K program contingency for CS-175 Bayland Soil Process contract. Refer to Report Notes #20.
63	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]
64	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]
65	Contract 1251 Final cost is \$20,794,582.

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66	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
67	In March 2016, July 2016 and October 2016, contract 1252 modifications budget and actuals have been realigned and adjusted to reflect actuals costs.
68	Revised Contract 1252 allocated contingency SCC code from 040.08 to 010.07.
69	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.
69a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed UMS with \$1,886,753 and having it sit in cost center 1.3.088.84.040.07.
70	Revised Contract 1300/UMS allocated contingency SCC code from 040.08 to 020.03.
71	In March 2016 Report, reduced Contract 1252 contingency by \$377,435 cost to reflect certification of five CMODS.
71a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed CTS with \$1,419,413 and having it sit in cost center 1.3.088.85.050.05.
72	Revised Contract 1300/CTS allocated contingency SCC code from 040.08 to 020.03.
73	Negative Current or Prior Monthly expenditure is due to replenish allowance expenses by approved Contract Modifications.
73a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed YBM with \$1,090,286 and having it sit in cost center 1.3.088.86.050.05.
74	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
74a	In August 2020, based on Tutor's PP#82, there was a total of \$5,371,820 of costs that was not associated with bid item or cmod. Based on Tutor's spreadsheet, our CM team spread it across the four stations and attributed STS with \$975,368 and having it sit in cost center 1.3.088.89.040.07.
75	Revised Contract 1300/STS allocated contingency SCC code from 040.08 to 020.01.
75a	In August 2019 Report, reallocated and aligned SCC 80 Professional Services category budget by \$2,956,812 due to additional costs; cost was transferred from construction management allocated contingency.
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	Revised Form B Reimbursements SCC code from 900.01 to 040.02
82	Revised Form B Reimbursements SCC code from 900.01 to 040.02
83	Revised Form B Reimbursements SCC code from 900.01 to 040.02

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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 30. Also, released \$5,265,478 assigned real estate contingency to program unallocated contingency, refer to Note 27. In July 2018 report, used \$2,263,498 to fund SCC 80 Professional Services category regarding matters related to stations from program unallocated contingency. In December 2018, moved \$11,987,900 from CN1252 and LRV contingency to program unallocated contingency. In March 2019, added \$18,036,709 from taking out the ATCS from Tutor contract. The budget transfer was used to create a stand alone line for ATCS work in 50.01 under Thales. In August 2019, used \$4,841,950 from program unallocated contingency to create CSP Radio Design, CSP Radio Cable, and CSP Radio Procurement in SCC 50 Systems category. Waiting for a contract modification to readjust the borrowed contingency from unprogramed contingency. In August 2020, used \$5.25M of unprogramed contingency to create AECOM 2020 AWP \$4.5M and AECOM 2020 ODC \$750K.

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Appendix B

DETAIL SCHEDULE REPORTS

SCHEDULE HIGHLIGHTS

The Master Project Schedule (MPS) below includes progress through August 2020. The August 2020 Schedule Update submittal from Contract 1300 Contractor was not submitted as the CN1300 Contractor has not provided the updated corrections to their June 2017, through July 2018 Schedule Updates. The Contract 1300 schedule represented in this report is based on the SFMTA August 2020 Schedule Update.

The MPS shows a forecast Revenue Service Date of December 2021 based on a revised assessment of the overall schedule and the current project conditions. The project continues to evaluate this date with potential impact from COVID 19. The schedule team is assessing the risk with this issue and identifying potential mitigation to reduce the risk to the overall schedule. The Contractor is notifying the City that potential delay may have occurred due to the social distancing requirement which is impacting production rates.

Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources. These issues have impacted TPC's Substantial Completion date. TPC and SFMTA are working to reach scope and cost agreements for contract modifications as TPC refuses to commence work without an approved Contract Modification. The controlling critical (longest) path of the MPS runs through the electrical activities within the tunnel which are impacting the TPC's Startup and Testing and subsequently the rail activation process. The latest schedule shows the longest path running through the Surface, Tracks and Systems (STS).

SFMTA continues to meet with Contractor to discuss all schedule concerns and comments. TPC has not been able to correctly staff the project which could potentially delay the project. In order to achieve the Baseline work productivity, TPC needs to increase the number of crews assigned to electrical work, allowing concurrent work within the tunnel and stations in order to make this completion date possible. It also requires that the front end portion of ATCS Startup and Testing is performed concurrently with TPC's Startup and Testing followed by ATCS software testing in coordination with SFMTA Operations.

Contract 1300 Contractor submitted fifty-four (54) Schedule Updates from December 2014 to July 2019. SFMTA rejected twenty-eight (28) Schedule Updates from January 2016 to April 2016 and June 2016 to July 2018 due to multiple and repetitive issues that vary from incorrect working sequences to unrealistic forecasted completion dates to artificially steering the schedule longest path through certain portions of the project. SFMTA approved as noted December 2014 through December 2015, and May 2016 Schedule Updates. Contractor has been directed to provide a Revised Schedule as required by the overall settlement agreement to maintain the forecasted project completion.

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 August 2020 schedule is used within the August Report. The SFMTA Contract 1300 August 2020 schedule is based on the approved baseline schedule logic with adjustments made as mentioned above. 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 SFMTA's scheduling concerns.

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

- Continued installing Stair 5 and 6
- Continued pulling service wires at Equipment Room at Underplatform level
- Continued installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Continued pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continued installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at all levels
- Continued installing GFRC panels at ticketing hall at Concourse level
- Continued installing Elevators 1, 2, 3, and 4
- Continued installing Escalator 5 & 6 at Upper Mezzanine level
- Continued construction of Plaza roof, walls and stairs
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued installing HVAC at Surface level
- Continued installing GFRC panels at Plaza level
- Continued installing grating at Roof walkways
- Continued AWSS piping construction at intersection of Stockton/Washington Streets and along Washington Street
- Closed north sidewalk of Washington Street to pedestrian traffic
- Continued construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Completed Sewer main installation along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

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

- Complete installing Stair 6
- Complete installing Stair 5
- Complete pulling service wires at Equipment Room at Underplatform level
- Continue installing overhead conduit at Traction Power rooms at Headhouse Platform level
- Continue pulling service wires at Main Electrical and Traction Power rooms at Headhouse Platform level
- Continue installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at levels 1 to 6
- Continue installing storm, sewer, water piping, refrigerant, and fire sprinkler piping at Surface and Plaza levels
- Complete installing GFRC panels at ticketing hall at Concourse level
- Continue installing Elevators 1, 2, 3, and 4

- Complete installing Escalator 5 & 6 at Upper Mezzanine level
- Complete construction of Plaza roof, walls and stairs
- Continue installing fire proofing for Surface and Plaza level
- Continue installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC installation at Surface level
- Complete AWSS pipe construction at intersection of Stockton/Washington Streets and along Washington Street
- Continue construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Continue underground utility construction (domestic water, drain downspouts, gas line) along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

Activity ID	Activity Name	2020					2021	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction CTS Station P-1254R								
Administrative / Milestones								
Site Work / Utility Relocation								
Demolition								
Concrete/Shotcrete								
Masonry								
Mechanical								
Misc Metal								
Electrical								
Entrance Roof Level								
Surface Level								
Upper Mezz Level								
Lower Mezz Level								
Concourse Level								
Platform Level								
CTS.26.11.960	CTS_PL 18 - PG&E Coordination Study and Bench Test							
CTS.34.22.210	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS06 (Traction Pc							
CTS.26.50.230	CTS_PL 06 - Stair 5A: Install - Hang Light Fixtures & Terminate							
CTS.26.50.160	CTS_PL 03 - Aux Elect Rm: Install - Conduit & Devices For Lighting							
CTS.26.50.180	CTS_PL 09 - Aux Comm Rm: Install - Conduit & Devices For Lighting							
CTS.34.22.250	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS07 (Traction Pc							
CTS.34.22.260	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS02 to PS08 (Traction Pc							
CTS.34.2.240	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS05 (Traction Pc							
CTS.26.50.250	CTS_PL 12 - Train Control Rm: Install - Conduit Back To LMZ Control Rm							
CTS.26.50.305	CTS_PL 03 - Aux Elect Rm: Pull Wire - Lighting							
CTS.34.05.140	CTS_PL_Install Conduit NB Positive Feeder Box PS03 to PS09 (Traction Power)							
CTS.26.50.200	CTS_PL 17 - Coridor: Install - Conduit & Devices for Lighting							
CTS.26.50.380	CTS_PL 03 - Aux Elect Rm: Hang Light Fixtures & Terminate							
CTS.28.31.131	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Control Panel - Sector 3							
CTS.28.31.142	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Terminal Cabinet - Sector 3							
CTS.34.22.220	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS09 (Traction Pc							
CTS.26.50.265	CTS_PL 17 - Coridor: Install - Alarms & Card Readers							
CTS.26.50.290	CTS_PL 16 - TP Substation Rm: Install - Conduit & Boxes for Light Switches(Sensor							
CTS.26.50.1075	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Raceway							
CTS.34.05.150	CTS_PL_Install Conduit NB Positive Feeder Box PS04 to PS10 (Traction Power)							
CTS.28.31.132	CTS_PL 17 - Coridor - Install - Fire Alarm Clean Agent Control Panel							
CTS.34.22.230	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS04 to PS10 (Traction Pc							
CTS.28.31.133	CTS_PL 17 - Coridor - Install - Fire Alarm Praction Cabinet							

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

- Continued construction, installation and testing of the following items:
- Platform Station:
 - Stairs, escalators and elevators – including glass enclosure and glass wall panels.
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical.
 - Ceiling panels and LED Artwork on concourse level.
 - Light fixtures and controls.
 - Terrazzo on concourse and platform level.
 - Artwork on platform strut level
 - Fire Alarm /PA / Security System.
 - Emergency lighting and CCTV Communication at tunnel tie-in on platform level.
 - Station Agent Booth.
 - HVAC, EV, power, and fire alarm system startup and testing.
- Concourse:
 - Stair, escalator and elevators.
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical.
 - LED artwork at Stair #1.
 - Overhead electrical, light fixtures and controls.
 - Ceiling panels.
 - Station Agent Booth.
- Street/Surface:
 - Precast architectural concrete elements at USG terrace level.
 - Glass roof walk at USG terrace level.
 - Landscaping and drainage at USG terrace level.
 - USG Roof level exhaust vent.
 - Tap room and emergency command post at surface level.
 - OCS on Stockton Street

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

Continued construction, installation and testing of the following items:

Platform Station:

- Stairs, escalators and elevators – including glass enclosure and glass wall panels.
- Overhead plumbing, fire protection piping, and overhead fixture and electrical.
- Ceiling panels and LED Artwork on concourse level.

- Light fixtures and controls.
- Terrazzo on concourse and platform level.
- Artwork on platform strut level
- Fire Alarm /PA / Security System.
- Emergency lighting and CCTV Communication at tunnel tie-in on platform level.
- Station Agent Booth.
- HVAC, EV, power, and fire alarm system startup and testing.

Concourse

- Stair, escalator and elevators.
- Overhead plumbing, fire protection piping, and overhead fixture and electrical.
- LED artwork at Stair #1.
- Overhead electrical, light fixtures and controls.
- Ceiling panels.
- Station Agent Booth.

Street/Surface:

- Precast architectural concrete elements at USG terrace level.
- Glass roof walk at USG terrace level.
- Landscaping and drainage at USG terrace level.
- USG Roof level exhaust vent.
- Tap room and emergency command post at surface level.
- OCS on Stockton Street

Activity ID	Activity Name	2020					2021	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction UMS Station P-1253								
Administrative / Milestones								
Engineering & Procurement								
Drilled Shafts								
Masonry								
Mechanical								
Electrical								
Surface Level								
All Levels								
Concourse Level								
Intermediate Strut Level								
UMS.26.24.4280	UMS_IS_01 -Elect Fan Rm: Terminations - SCADA System							
UMS.28.20.9975	UMS_PL_Startup & Test: Security: CCTV System Intermediate Strut Level							
Mezzanine Level								
UMS.27.51.0310	UMS_PSL_Install: Comm: SSFD & Emerg Phone System Raceway - Platform Strut							
UMS.28.13.0160	UMS_MZ_Install: Security: Access Control System Mezzanine Level							
UMS.27.51.0320	UMS_PSL_Comm: SSFD & Emerg Phone System Wire Pulls - Platform Strut Level							
UMS.28.16.0160	UMS_MZ_Install: Security: Intrusion Systems Mezzanine Level							
UMS.27.51.0330	UMS_PSL_Comm: SSFD & Emerg Phone System Terminations - Platform Strut Lev							
UMS.26.24.3630	UMS_MZ_11 - Aux Elect Rm: Install Feeder Conduit - Elect Panel 3DHP4 To Esc 4-4							
UMS.27.51.0340	UMS_PL_Install: Comm: SSFD & Emerg Phone System Cabinets - Platform Level							
UMS.26.24.4520	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHL to 4SHL (PL12)							
UMS.26.24.4560	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel E3DHL To UE4SHL (P							
UMS.26.24.4550	UMS_MZ_11 - Aux Elect Rm: Pull Feeder Cable - Elect Panel 3DHP4 To Esc 4-6							
UMS.34.05.0290	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-1 (Tra							
UMS.27.51.0350	UMS_PL_Install: Comm: SSFD & Emerg Phone System Raceway - Platform Level							
UMS.27.51.0360	UMS_PL_Comm: SSFD & Emerg Phone System Wire Pulls - Platform Level							
UMS.28.20.5050	UMS_MZ_Security: CCTV System Pull Wire & Terminate Cameras Mezzanine Level							
UMS.26.24.2540	UMS_MZ_11 - Aux Elect Rm: Terminations - Elect Panel LCP-M							
UMS.34.05.0330	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-4 (Tra							
UMS.34.05.0320	UMS_MZ Install Feeder Conduit: - NB Positive Feeder Gap Breaker Rm to PB-3 (Tra							
UMS.28.20.9965	UMS_Mz_Startup & Test: Security: CCTV System Mezzanine Level							
UMS.27.51.0370	UMS_PL_Comm: SSFD & Emerg Phone System Terminations - Platform Level							
UMS.28.20.9985	UMS_CN_Startup & Test: Security: CCTV System Mezzanine Level							
UMS.28.31.0160	UMS_MZ_Install Security: Addressable Fire Alarm System Mezzanine Level							
UMS.28.31.9620	UMS_MZ_Safety & Security - Testing - Fire Alarm System Mezzanine Level							
UMS.27.30.0090	UMS_MZ_Install: Comm: Telephone System Equipment Mezzanine Level							
UMS.27.51.9820	UMS_MZ_Startup & Test: Comm: Public Address System Mezzanine Level							

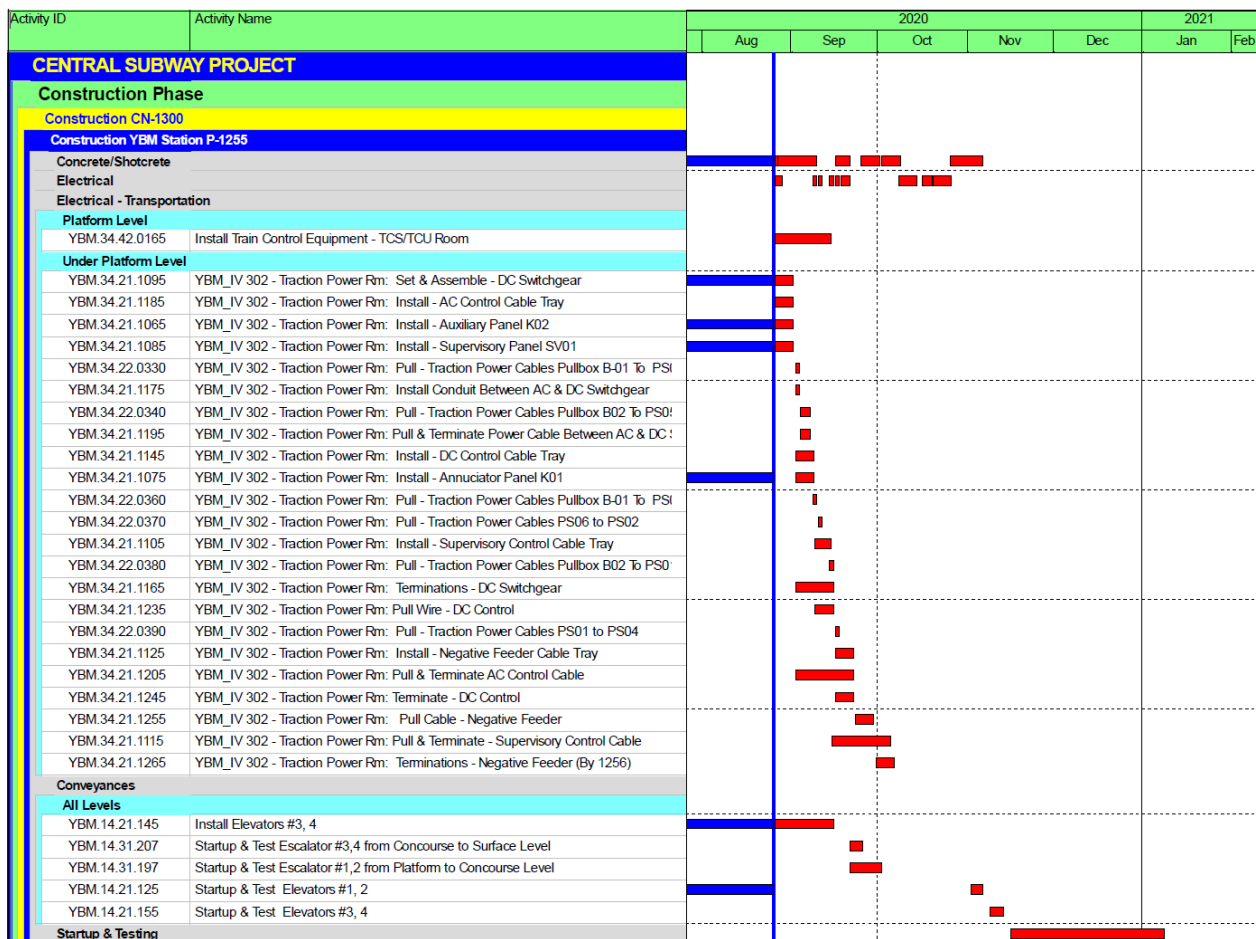
Work Package P-1255 (YBM) has performed the following work this month:

- Continued installing pavers, coupler and bolts at node and rebar
- Poured Concrete at 4th and Clementina
- Set wood template at node and waterproof Concrete at node and escalators at 4th & Clementina
- Continued installing Elevators 1 & 2
- Continued installing Elevators 3 and 4
- Completed installing light poles near stair 6, rough-in PDS sign and fire alarm devices at Elevators 3 and 4
- Continued installing pavers over blackout at Headhouse Surface Level
- Continued installing sky light glass at Headhouse roof
- Continued installing door frames and doors at Headhouse Mezzanine
- Continued installing all systems- label conduit, seismic inspection and clearance instrumentation, pilling wire and terminating at Station Mezzanine level
- Continued terroxy fill, terrazzo, metal wall panels, station agent booth and fronts at escalators and elevators at Headhouse Concourse level
- Continued installing doors, terrazzo and hardware at Station Concourse level

- Continue removing hydrophilic grout from drainpipes at Main Electrical Room at Headhouse Invert level
- Install drain between escalators and ducks at cut/core openings at Platform

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

- Install runnels and terroxy fill at egress Stair 7
- Install ceiling metal panes and coiling door grille at Headhouse roof
- Deliver and install frames and doors at Headhouse Mezzanine level
- Remove all scaffold and install elevator fronts at Headhouse Concourse level
- Continue installing doors and hardware
- Install benches, rough in FSD, torque conduit racks, fire alarm pull wire and kiosk frames at Platform



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

- Continued 4th/Brannan platform construction
- Started axle counter box revisions at 4th St. portal
- Continued surface signaling work on 4th Street

- Continued traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical power
- Continued traction power cable installation and terminations
- Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation
- Continued installation of ATCS system
- Completed ATCS installation at Lenox
- Continued installation of blast doors at tunnel Cross-passages
- Continued installation of radio system

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

- Continue 4th/Brannan platform construction
- Continue axle counter box revisions at 4th St. portal
- Continue surface signaling work on 4th St.
- Continue traction power conduit and other electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting, and tunnel electrical
- Continue Traction Power Cable installation and terminations
- Continue traction power cable testing
- Continue tunnel lighting, mini power, OCS hanger, ATCS, radio system and tunnel signage installation
- Continue installation of blast doors at tunnel Cross-passages

Activity ID	Activity Name	2020					2021	
		Aug	Sep	Oct	Nov	Dec	Jan	Feb
CENTRAL SUBWAY PROJECT								
Construction Phase								
Construction CN-1300								
Construction STS P-1256								
Concrete/Shotcrete								
Tunnel Concrete								
Electrical								
Chinatown Station								
Union Square Station								
Moscone Station								
Fourth/King Intersection								
Fourth Street								
Fifth Street								
Fourth/Brannan Station								
Harrison St								
Bryant St								
Brannan St								
Townsend St								
HeadHouse								
North Concourse - Stockton St								
Northbound Tunnel or Trackway								
STS.34.42.0510	STS_Install: Train Control - ATSC Entry Point Signage - Portal							
STS.34.42.0900	STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station							
STS.34.42.2270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone							
STS.34.42.1270	STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station							
STS.34.42.1640	STS_Install: Train Control - ATSC Entry Point Signage - Chinatown							
STS.26.05.1480	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - NB Chinatown to N							
STS.26.05.1560	STS_Install: Tunnel Electrical - Lighting Fixtures - NB Chinatown to North Limits							
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices							
STS.34.42.0480	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to							
STS.34.42.0490	STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone							
STS.34.42.0880	STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square							
STS.34.42.1260	STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown							
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Mosco							
STS.34.42.0410	STS_Install: Train Control - Train Control Signals - NB Portal to Moscone							
STS.34.420.870	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscon							
STS.34.23.1230	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Union Square to Chinat							
STS.34.42.2260	STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Sq							
STS.34.23.1940	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Unio							
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Mosco							

SCHEDULE REVISIONS

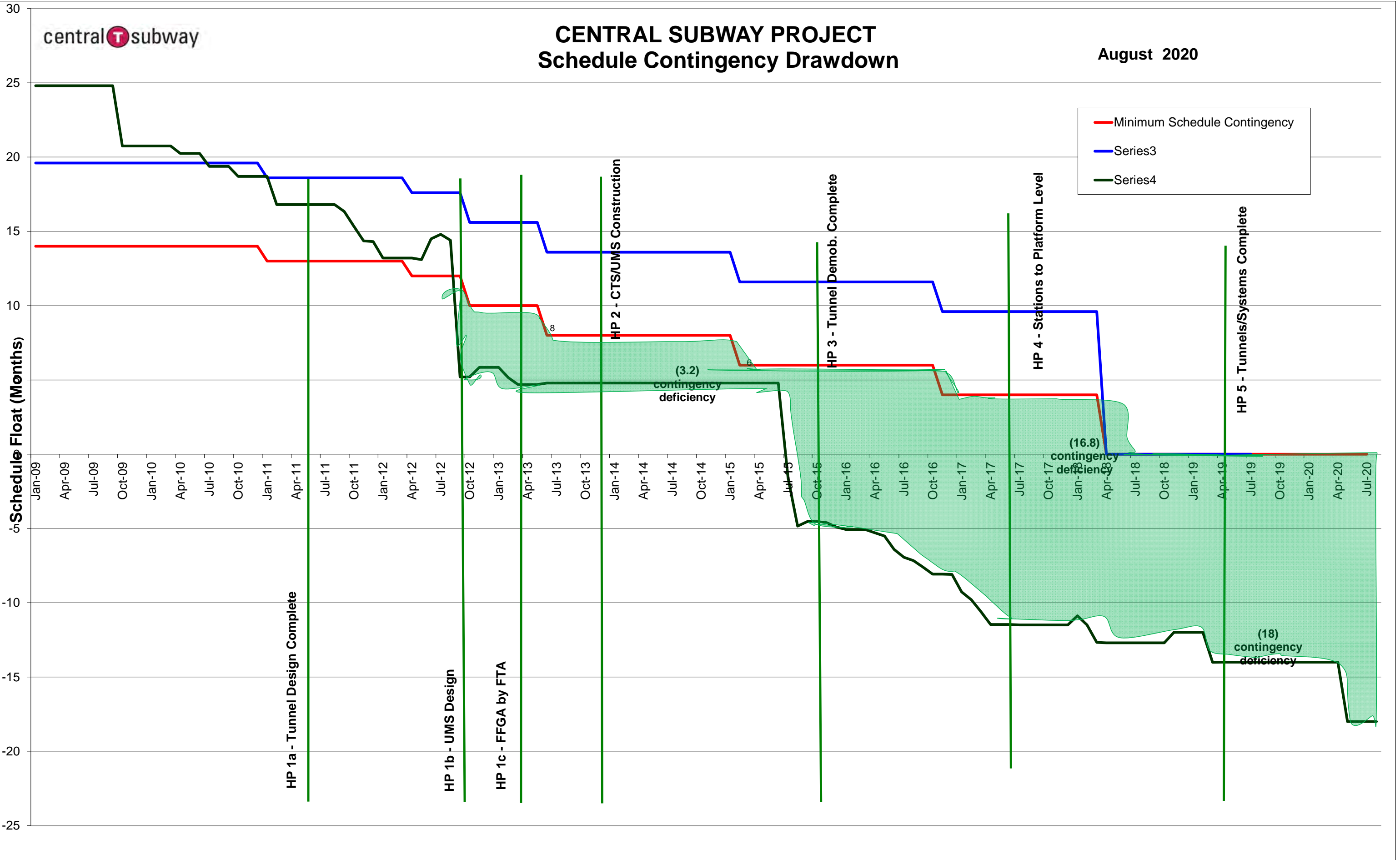
The SFMTA Contract 1300 August 2020 schedule update was added this period to the Central Subway Project Master Schedule.

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

August 2020



Activity ID	Activity Name	Original Duration	Start	Finish	2020		2021				2022			
							Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CENTRAL SUBWAY PROJECT		4994	03-Jun-03 A	26-Jul-22	CENTRAL SUBWAY PROJECT									
Program Level Milestones		5111	03-Jun-03 A	30-Dec-21	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		30-Dec-21*	◆ Baseline Finish Date: 12-26-2018									
MS0009	CSP Revenue Service Date	0		30-Dec-21*	◆ CSP Revenue Service Date									
Preliminary Engineering Phase		2661	03-Jun-03 A	07-Jan-10 A										
Final Design		1811	08-Jan-10 A	17-Jun-13 A										
Light Rail Vehicles		2875	15-Apr-13 A	26-Feb-21	Light Rail Vehicles									
Real Estate		3130	01-Aug-08 A	02-Jan-14 A										
Construction Phase		3275	04-Jan-10 A	26-Jul-22	Construction Phase									
Construction Support and Costs		3852	04-Jan-10 A	26-Jul-22	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	26-Aug-20	Construction Tunnels CN-1252									
Construction STS P-1256 ATCS		1825	20-May-14 A	23-Feb-21	Construction STS P-1256 ATCS									
Construction STS P-XXXX Radio		195	27-Aug-19 A	04-May-21	Construction STS P-XXXX Radio									
Construction CN-1300		2060	03-Jun-13 A	11-May-21	Construction CN-1300									
CN- 1300 Milestone		2060	17-Jun-13 A	11-May-21	CN- 1300 Milestone									
Construction UMS Station P-1253		1997	17-Jun-13 A	11-Feb-21	Construction UMS Station P-1253									
Construction CTS Station P-1254R		1997	17-Jun-13 A	11-Feb-21	Construction CTS Station P-1254R									
Construction YBM Station P-1255		1997	10-Jun-13 A	11-Feb-21	Construction YBM Station P-1255									
Construction STS P-1256		1997	03-Jun-13 A	25-Feb-21	Construction STS P-1256									
Project Start Up		322	10-Feb-21	30-Dec-21	Project Start Up									
Unallocated Contingency		337	26-Aug-20	29-Dec-21	Unallocated Contingency									

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020		2021				2022				2023	
						Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Program Level Milestones						0	30-Dec-21	30-Dec-21	-398								
MS0019	Baseline Finish Date: 12-26-2018	0		30-Dec-21*	-398												
MS0009	CSP Revenue Service Date	0		30-Dec-21*	-398												
CN- 1300 Milestone						0	10-Feb-21	10-Feb-21	-581								
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		10-Feb-21*	-581												
Construction STS P-1256						398	13-May-19 A	10-Feb-21	-415								
STS.34.23.1800	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	3	20-May-20 A	27-Aug-20	-410												
STS.34.23.0460	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone	5	30-Sep-19 A	31-Aug-20	-410												
STS.34.23.1970	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal	5	28-Aug-20	03-Sep-20	-410												
STS.34.23.1930	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Portal To Moscone	7	01-Sep-20	09-Sep-20	-410												
STS.34.23.1830	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - In NB Portal	4	04-Sep-20	09-Sep-20	-410												
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	4	10-Sep-20	15-Sep-20	-410												
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Moscone to Union Square	14	16-Sep-20	05-Oct-20	-410												
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	8	04-May-20 A	19-Oct-20	-410												
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box	2	20-Oct-20	21-Oct-20	-410												
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Union Square to Chinatown	12	06-Oct-20	21-Oct-20	-410												
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	5	22-Oct-20	28-Oct-20	-410												
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS South Platform	1	01-Jun-20 A	29-Oct-20	-410												
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To MOS (C)	7	04-May-20 A	02-Nov-20	-410												
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS South Platform	1	03-Nov-20	03-Nov-20	-410												
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MOS (C)	3	04-Nov-20	06-Nov-20	-410												
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS South Platform	1	09-Nov-20	09-Nov-20	-410												
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MOS (C)	1	10-Nov-20	10-Nov-20	-410												
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS To UMS North Platform	15	08-Jun-20 A	12-Nov-20	-410												
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS North Platform	2	13-Nov-20	16-Nov-20	-410												
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS South Platform	2	29-May-20 A	18-Nov-20	-410												
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South Platform	1	19-Nov-20	19-Nov-20	-410												
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To UMS North Platform	3	20-Nov-20	24-Nov-20	-410												
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS North Platform	1	25-Nov-20	25-Nov-20	-410												
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - Chinatown	2	25-Nov-20	26-Nov-20	-410												
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown	1	27-Nov-20	27-Nov-20	-410												
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	02-Dec-20	-410												
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	27-Nov-20	15-Dec-20	-410												
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	27-Nov-20	16-Dec-20	-410												
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits	2	17-Dec-20	18-Dec-20	-410												
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	40	15-Feb-21 A	10-Feb-21	-410												
Project Start Up						322	10-Feb-21	30-Dec-21	-579								
STU1010	S&S Certification / Pre-Revenue Activities	223	10-Feb-21	29-Dec-21	-398												
BUF0018	Muni Float	0	30-Dec-21	30-Dec-21	-398												

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019				2020		2021	
				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	Q1	Q2		
CENTRAL SUBWAY PROJECT	2588	08-Jun-11 A	11-May-21																																				
Construction Phase	2588	08-Jun-11 A	11-May-21																																				
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	2060	03-Jun-13 A	11-May-21																																				
CN- 1300 Milestone	2060	17-Jun-13 A	11-May-21																																				
Construction UMS Station P-1253	1997	17-Jun-13 A	11-Feb-21																																				
Construction CTS Station P-1254R	1997	17-Jun-13 A	11-Feb-21																																				
Construction YBM Station P-1255	1997	10-Jun-13 A	11-Feb-21																																				
Construction STS P-1256	1997	03-Jun-13 A	25-Feb-21																																				

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q3	Q4	Q1	
CENTRAL SUBWAY PROJECT									
Light Rail Vehicles									
Construction Phase									
Construction Support and Costs									
Construction STS P-1256 ATCS									
Construction CN-1300									
CN- 1300 Milestone									
No 13-Disp									
Construction UMS Station P-1253									
Mechanical									
Electrical									
Electrical - Transportation									
Mezzanine Level									
UMS.34.21.1565	UMS_MZ: Install - Traction Power Pull Box PB-1 For NB Track - Sector 3	3	26-Aug-20	28-Aug-20	-378				
UMS.34.21.1375	UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1	5	27-Aug-20	02-Sep-20	-362				
UMS.34.21.1435	UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station	5	29-Mar-18 A	02-Sep-20	-361				
UMS.34.21.1465	UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1	5	29-Mar-18 A	02-Sep-20	-364				
UMS.34.21.1415	UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01	5	29-Mar-18 A	02-Sep-20	-362				
UMS.34.21.1365	UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02	5	29-Mar-18 A	02-Sep-20	-367				
UMS.34.21.1575	UMS_MZ: Install - Traction Power Pull Box PB-2 For SB - Track - Sector 3	5	01-Oct-19 A	04-Sep-20	-378				
UMS.34.21.1385	UMS_MZ07 - Gap Breaker Rm: Install - Annunciator Panel K01	5	03-Sep-20	09-Sep-20	-367				
UMS.34.21.1395	UMS_MZ07 - Gap Breaker Rm: Install - Control Wiring Wireway	5	03-Sep-20	09-Sep-20	-364				
UMS.34.21.1475	UMS_MZ07 - Gap Breaker Rm: Install Security Panel SE01	5	03-Sep-20	09-Sep-20	-361				
UMS.34.21.1585	UMS_MZ: Install - Traction Power Pull Box PB-3 For NB - Track - Sector 5	5	08-Oct-19 A	11-Sep-20	-378				
UMS.34.05.0300	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Traction Power)	5	07-Sep-20	11-Sep-20	-368				
UMS.34.21.1635	UMS_MZ07 - Gap Breaker Rm: Install Conduit Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	10-Sep-20	11-Sep-20	-361				
UMS.34.21.1645	UMS_MZ07 - Gap Breaker Rm: Pull Wire Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	14-Sep-20	15-Sep-20	-361				
UMS.34.21.1495	UMS_MZ07 - Gap Breaker Rm: Terminations - Negative Feeder (By 1256)	5	10-Sep-20	16-Sep-20	-360				
UMS.34.21.1655	UMS_MZ07 - Gap Breaker Rm: Terminate Security Panel SE01 To DS1, DS2, DS3, & Security Bell	1	16-Sep-20	16-Sep-20	-361				
UMS.34.21.1675	UMS_MZ07 - Gap Breaker Rm: Install Conduit DC Panel DP01 To D01, K01, K02, SV1, DCT1	5	29-Mar-18 A	16-Sep-20	-367				
UMS.34.21.1665	UMS_MZ07 - Gap Breaker Rm: Energize Security Panelboard	1	17-Sep-20	17-Sep-20	-361				
UMS.34.21.1595	UMS_MZ: Install - Traction Power Pull Box PB-4 For SB Track - Sector 5	5	15-Oct-19 A	18-Sep-20	-378				
UMS.34.21.1685	UMS_MZ07 - Gap Breaker Rm: Pull Wire DC Panel DP01 To D01, K01, K02, SV1, DCT1	3	29-Mar-18 A	21-Sep-20	-367				
UMS.34.21.1405	UMS_MZ07 - Gap Breaker Rm: Pull & Terminate - Control Cables	9	10-Sep-20	22-Sep-20	-364				
UMS.34.21.1695	UMS_MZ07 - Gap Breaker Rm: Terminations - DC Panel DP01 To D01, K01, K02, SV1, DCT1	3	29-Mar-18 A	24-Sep-20	-367				
UMS.34.21.1705	UMS_MZ07 - Gap Breaker Rm: Energize - DC Panel DP01, D01, K01, K02, SV1, DCT1	1	04-Jun-18 A	25-Sep-20	-367				
UMS.34.21.1445	UMS_MZ07 - Gap Breaker Rm: Terminations - WFO-1&2	9	30-Sep-20	12-Oct-20	-378				
UMS.34.21.1545	UMS_MZ07 - Gap Breaker Rm: Energize Gap Breaker Equipment	5	13-Oct-20	19-Oct-20	-378				
UMS.34.21.1625	UMS_MZ07 - Gap Breaker Rm: Test Traction Power Systems	15	13-Oct-20	02-Nov-20	-378				
Platform Level									
Under Platform Level									
Architectual Finishes									
Conveyances									
Stairs									
Startup & Testing									
No 13-Disp									
Construction CTS Station P-1254R									
Site Work / Utility Relocation									
Concrete/Shotcrete									
Masonry									

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q3	Q4	Q1	
Mechanical		483	05-Mar-18 A	30-Oct-20	-337				
Misc Metal		122	18-Mar-20 A	05-Oct-20	-324				
Electrical		496	07-May-18 A	07-Dec-20	-368				
Entrance Roof Level		19	29-Jun-20 A	29-Sep-20	-352				
Surface Level		246	07-Oct-19 A	07-Dec-20	-363				
Upper Mezz Level		331	08-Jul-19 A	30-Nov-20	-373				
Lower Mezz Level		229	01-Oct-19 A	05-Nov-20	-346				
Concourse Level		466	08-Oct-18 A	13-Nov-20	-362				
CTS.26.50.552	CTS_CN 10 - Emerg Command Rm: Wire Pulls - Lighting	1	31-Aug-20	31-Aug-20	-342				CTS_CN 10 - Emerg Command Rm: Wire Pulls - Lighting
CTS.26.50.590	CTS_CN 17 - Janitor Rm: Pull Wire - Lighting	1	31-Aug-20	31-Aug-20	-339				CTS_CN 17 - Janitor Rm: Pull Wire - Lighting
CTS.26.50.570	CTS_CN 01 - Install - Conduit & Devices for Ceiling Lighting	5	28-Oct-19 A	01-Sep-20	-342				CTS_CN 01 - Install - Conduit & Devices for Ceiling Lighting
CTS.26.50.588	CTS_CN 15 - Storage Rm: Hang Light Fixtures & Terminate	2	31-Aug-20	01-Sep-20	-346				CTS_CN 15 - Storage Rm: Hang Light Fixtures & Terminate
CTS.26.50.564	CTS_CN 06 - Stair 6: Hang Light Fixtures	4	31-Aug-20	03-Sep-20	-326				CTS_CN 06 - Stair 6: Hang Light Fixtures
CTS.26.50.616	CTS_CN 13 - Concessions: Pull Wire - Lighting	4	31-Aug-20	03-Sep-20	-346				CTS_CN 13 - Concessions: Pull Wire - Lighting
CTS.28.31.516	CTS_CN 10 - Emergency Command Rm: Set & Hook up - Fire Alarm Control Panel	4	19-Nov-19 A	04-Sep-20	-342				CTS_CN 10 - Emergency Command Rm: Set & Hook up - Fire Alarm Control Panel
CTS.26.50.534	CTS_CN 07 - Elevator Control Closet: Install - Elevator Controller Cabinets & Disconnects	5	31-Aug-20	04-Sep-20	-346				CTS_CN 07 - Elevator Control Closet: Install - Elevator Controller Cabinets & Disconnects
CTS.26.50.581	CTS_CN 01 - Wire Pulls for Ceiling Lighting	3	02-Sep-20	04-Sep-20	-342				CTS_CN 01 - Wire Pulls for Ceiling Lighting
CTS.26.50.526	CTS_CN 03 - Ticketing Hall: Install - Overhead Lighting Conduit & Devices	5	02-Sep-20	08-Sep-20	-368				CTS_CN 03 - Ticketing Hall: Install - Overhead Lighting Conduit & Devices
CTS.26.50.550	CTS_CN 13 - Concessions: Install - Conduit & Devices For Power	5	08-Oct-18 A	10-Sep-20	-351				CTS_CN 13 - Concessions: Install - Conduit & Devices For Power
CTS.26.50.632	CTS_CN 07 - Elevator Control Closet: Pull Wire To Elevators 3 & 4.	4	07-Sep-20	10-Sep-20	-346				CTS_CN 07 - Elevator Control Closet: Pull Wire To Elevators 3 & 4.
CTS.26.05.670	CTS_CN 13 - Concessions: Hang Fixtures & Terminate	5	04-Sep-20	10-Sep-20	-346				CTS_CN 13 - Concessions: Hang Fixtures & Terminate
CTS.26.50.582	CTS_CN 01 - Hang Fixtures & Terminate	5	07-Sep-20	11-Sep-20	-342				CTS_CN 01 - Hang Fixtures & Terminate
CTS.26.50.558	CTS_CN 03 - Ticketing Hall: - Lighting Wire Pulls	5	09-Sep-20	15-Sep-20	-368				CTS_CN 03 - Ticketing Hall: - Lighting Wire Pulls
CTS.26.50.624	CTS_CN 03 - Ticketing Hall: Pull Wire & Set Light Switches/Sensors	5	09-Sep-20	15-Sep-20	-349				CTS_CN 03 - Ticketing Hall: Pull Wire & Set Light Switches/Sensors
CTS.28.20.452	CTS_CN 23 - Stair 5: Set & Hook up - CCTV Camera (1 each)	1	07-Oct-19 A	16-Sep-20	-350				CTS_CN 23 - Stair 5: Set & Hook up - CCTV Camera (1 each)
CTS.28.20.500	CTS_CN 24 - Valve Rm: Set & Hook up - CCTV Camera (1 each)	1	14-Oct-19 A	16-Sep-20	-350				CTS_CN 24 - Valve Rm: Set & Hook up - CCTV Camera (1 each)
CTS.28.20.442	CTS_CN 25 - Stair 5A: Set & Hook up - CCTV Cameras (2 each) - Sector 3	2	21-Oct-19 A	17-Sep-20	-351				CTS_CN 25 - Stair 5A: Set & Hook up - CCTV Cameras (2 each) - Sector 3
CTS.28.20.422	CTS_CN 26 - Stair 4: Set & Hook up - CCTV Cameras (2 each) - Sector 1	2	07-Oct-19 A	17-Sep-20	-351				CTS_CN 26 - Stair 4: Set & Hook up - CCTV Cameras (2 each) - Sector 1
CTS.26.50.648	CTS_CN 13 - Concessions: Pull Wire - Power	5	11-Sep-20	17-Sep-20	-351				CTS_CN 13 - Concessions: Pull Wire - Power
CTS.26.24.720	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard EDHL - Power Feeders	4	11-May-20 A	21-Sep-20	-354				CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard EDHL - Power Feeders
CTS.26.05.695	CTS_CN 03 - Ticketing Hall: Pull Wire & Set Receptacles	4	16-Sep-20	21-Sep-20	-353				CTS_CN 03 - Ticketing Hall: Pull Wire & Set Receptacles
CTS.28.20.432	CTS_CN 01: Set & Hook up - CCTV Cameras (8 each) - Sector 2	5	07-Oct-19 A	22-Sep-20	-354				CTS_CN 01: Set & Hook up - CCTV Cameras (8 each) - Sector 2
CTS.26.24.710	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4P1 - Fire Smoke Dampers,Clean Agent P:	5	04-May-20 A	22-Sep-20	-339				CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4P1 - Fire Smoke Dampers
CTS.26.24.680	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard LCP-4 - Lighting Control	5	16-Sep-20	22-Sep-20	-345				CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard LCP-4 - Lighting Control
CTS.26.50.656	CTS_CN 03 - Ticketing Hall: Hang Light Fixtures & Terminate	5	16-Sep-20	22-Sep-20	-368				CTS_CN 03 - Ticketing Hall: Hang Light Fixtures & Terminate
CTS.26.11.925	CTS_CN 08 - Aux Elect Rm: Energize - Panelboard EDHL	1	23-Sep-20	23-Sep-20	-355				CTS_CN 08 - Aux Elect Rm: Energize - Panelboard EDHL
CTS.26.05.986	CTS_CN 13 - Concessions: Terminate Power Devices	5	18-Sep-20	24-Sep-20	-326				CTS_CN 13 - Concessions: Terminate Power Devices
CTS.26.11.930	CTS_CN 08 - Aux Elect Rm: Energize - Lighting Panelboards	1	24-Sep-20	24-Sep-20	-346				CTS_CN 08 - Aux Elect Rm: Energize - Lighting Panelboards
CTS.26.24.610	CTS_CN 02 - Station Agent Booth: Install - Panelboard	5	22-Oct-20	28-Oct-20	-385				CTS_CN 02 - Station Agent Booth: Install - Panelboard
CTS.26.50.560	CTS_CN 02 - Station Agent Booth: Install - Lighting	3	28-Oct-20	30-Oct-20	-397				CTS_CN 02 - Station Agent Booth: Install - Lighting
CTS.26.05.700	CTS_CN 02 - Station Agent Booth: Pull Wire - Power	5	29-Oct-20	04-Nov-20	-385				CTS_CN 02 - Station Agent Booth: Pull Wire - Power
CTS.26.50.658	CTS_CN 02 - Station Agent Booth: Pull Wire & Set Light Fixtures	5	02-Nov-20	06-Nov-20	-397				CTS_CN 02 - Station Agent Booth: Pull Wire & Set Light
CTS.28.31.526	CTS_CN 02 - Station Agent Booth Rm: Security & Communications Equipment	5	14-Oct-19 A	13-Nov-20	-397				CTS_CN 02 - Station Agent Booth Rm: Security &
Platform Level		471	07-May-18 A	02-Nov-20	-343				
Under Platform Level		14	07-Sep-20	24-Sep-20	-353				
Electrical - Transportation		226	16-Dec-19 A	20-Oct-20	-369				
Platform Level		226	16-Dec-19 A	20-Oct-20	-369				
CTS.34.21.223	CTS_PL 15 - Traction Power Rm: Install Conduit Between AC & DC Switchgear	2	11-May-20 A	01-Sep-20	-346				CTS_PL 15 - Traction Power Rm: Install Conduit Between AC & DC Switchgear
CTS.34.21.233	CTS_PL 15 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear	2	02-Sep-20	03-Sep-20	-346				CTS_PL 15 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear
CTS.34.21.115	CTS_PL 15 - Traction Power Rm: Install - Ceiling Mounted Pull Box #2	4	16-Dec-19 A	03-Sep-20	-353				CTS_PL 15 - Traction Power Rm: Install - Ceiling Mounted Pull Box #2
CTS.34.21.116	CTS_PL 15 - Traction Power Rm: Install - Ceiling Mounted Pull Box #1	4	27-Jul-20 A	03-Sep-20	-361				CTS_PL 15 - Traction Power Rm: Install - Ceiling Mounted Pull Box #1

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q3	Q4	Q1	
CTS.34.21.127	CTS_PL 15 - Traction Power Rm: Install - AC Control Cable Tray	5	04-May-20 A	04-Sep-20	-361				CTS_PL 15 - Traction Power Rm: Install - AC Control Cable Tray
CTS.34.21.112	CTS_PL 15 - Traction Power Rm: Install - Positive Feeder Cable Tray & Conduit To PB01 & PB02	5	21-May-20 A	04-Sep-20	-354				CTS_PL 15 - Traction Power Rm: Install - Positive Feeder Cable Tray & Conduit To PB01 & PB02
CTS.34.21.113	CTS_PL 15 - Traction Power Rm: Install - DC Control Cable Tray	5	21-May-20 A	04-Sep-20	-354				CTS_PL 15 - Traction Power Rm: Install - DC Control Cable Tray
CTS.34.21.114	CTS_PL 15 - Traction Power Rm: Install - Negative Feeder Cable Tray	5	21-May-20 A	04-Sep-20	-355				CTS_PL 15 - Traction Power Rm: Install - Negative Feeder Cable Tray
CTS.34.22.270	CTS_PL 15 - Traction Power Rm: Pull - Traction Power Cables To PB02 To (PS01 & PS02)	2	07-Sep-20	08-Sep-20	-354				CTS_PL 15 - Traction Power Rm: Pull - Traction Power Cables To PB02 To (PS01 & PS02)
CTS.34.21.163	CTS_PL 15 - Traction Power Rm: Install - Supervisory Control Cable Tray	5	22-May-20 A	22-Sep-20	-364				CTS_PL 15 - Traction Power Rm: Install - Supervisory Control Cable Tray
CTS.34.21.243	CTS_PL 15 - Traction Power Rm: Pull & Terminate AC Control Cable	14	07-Sep-20	24-Sep-20	-361				CTS_PL 15 - Traction Power Rm: Pull & Terminate AC Control Cable
CTS.34.22.121	CTS_PL 15 - Traction Power Rm: Pull - Traction Power Cables To PB01 To (PS03 & PS04)	2	05-Oct-20	06-Oct-20	-374				CTS_PL 15 - Traction Power Rm: Pull - Traction Power Cables To PB01 To (PS03 & PS04)
CTS.34.21.925	CTS_PL 15 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable	15	23-Sep-20	13-Oct-20	-364				CTS_PL 15 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable
CTS.34.21.213	CTS_PL 15 - Traction Power Rm: Terminations - DC Switchgear	10	07-Oct-20	20-Oct-20	-374				CTS_PL 15 - Traction Power Rm: Terminations - DC Switchgear
Architectural Finishes		581	25-Sep-15 A	23-Dec-20	-375	[Gantt bars for Architectural Finishes]			
Conveyances		118	06-Apr-20 A	20-Nov-20	-378	[Gantt bars for Conveyances]			
Startup & Testing		30	14-Dec-20	22-Jan-21	-397	[Gantt bars for Startup & Testing]			
No 13-Disp		1917	23-Dec-13 A	11-Feb-21	63	[Gantt bars for No 13-Disp]			
Construction YBM Station P-1255		1825	10-Jul-14 A	10-Feb-21	64	[Gantt bars for Construction YBM Station P-1255]			
Concrete/Shotcrete		459	15-Oct-18 A	06-Nov-20	-371	[Gantt bars for Concrete/Shotcrete]			
Electrical		44	26-Aug-20	26-Oct-20	-380	[Gantt bars for Electrical]			
Electrical - Transportation		365	28-May-19 A	06-Oct-20	-366	[Gantt bars for Electrical - Transportation]			
Platform Level		14	26-Aug-20	14-Sep-20	-343	[Gantt bars for Platform Level]			
Under Platform Level		358	28-May-19 A	06-Oct-20	-364	[Gantt bars for Under Platform Level]			
YBM.34.21.1095	YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear	15	03-Jun-19 A	01-Sep-20	-374				YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear
YBM.34.21.1185	YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray	5	26-Aug-20	01-Sep-20	-359				YBM_IV 302 - Traction Power Rm: Install - AC Control Cable Tray
YBM.34.21.1085	YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01	5	28-May-19 A	01-Sep-20	-363				YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01
YBM.34.22.0330	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03	2	02-Sep-20	03-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03
YBM.34.21.1175	YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear	2	02-Sep-20	03-Sep-20	-348				YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear
YBM.34.22.0340	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05	2	04-Sep-20	07-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear	2	04-Sep-20	07-Sep-20	-348				YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear
YBM.34.21.1145	YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray	5	02-Sep-20	08-Sep-20	-354				YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray
YBM.34.22.0360	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06	2	08-Sep-20	09-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06
YBM.34.22.0370	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02	2	10-Sep-20	11-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02
YBM.34.21.1105	YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray	4	09-Sep-20	14-Sep-20	-368				YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray
YBM.34.22.0380	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS01	2	14-Sep-20	15-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS01
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear	10	02-Sep-20	15-Sep-20	-349				YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear
YBM.34.21.1235	YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control	5	09-Sep-20	15-Sep-20	-354				YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control
YBM.34.22.0390	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS01 to PS04	2	16-Sep-20	17-Sep-20	-353				YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS01 to PS04
YBM.34.21.1125	YBM_IV 302 - Traction Power Rm: Install - Negative Feeder Cable Tray	5	16-Sep-20	22-Sep-20	-364				YBM_IV 302 - Traction Power Rm: Install - Negative Feeder Cable Tray
YBM.34.21.1205	YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable	15	02-Sep-20	22-Sep-20	-359				YBM_IV 302 - Traction Power Rm: Pull & Terminate AC Control Cable
YBM.34.21.1245	YBM_IV 302 - Traction Power Rm: Terminate - DC Control	5	16-Sep-20	22-Sep-20	-354				YBM_IV 302 - Traction Power Rm: Terminate - DC Control
YBM.34.21.1255	YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder	5	23-Sep-20	29-Sep-20	-364				YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder
YBM.34.21.1115	YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable	15	15-Sep-20	05-Oct-20	-368				YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)	5	30-Sep-20	06-Oct-20	-364				YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)
Conveyances		232	06-Jan-20 A	13-Nov-20	-387	[Gantt bars for Conveyances]			
Startup & Testing		40	16-Nov-20	08-Jan-21	-387	[Gantt bars for Startup & Testing]			
No 13-Disp		1814	10-Jul-14 A	10-Feb-21	64	[Gantt bars for No 13-Disp]			
Construction STS P-1256		1784	13-Jan-14 A	25-Feb-21	64	[Gantt bars for Construction STS P-1256]			
Concrete/Shotcrete		5	27-Aug-20	02-Sep-20	-325	[Gantt bars for Concrete/Shotcrete]			
Tunnel Concrete		594	22-Jan-18 A	14-Oct-20	-340	[Gantt bars for Tunnel Concrete]			
Electrical		1070	14-May-14 A	18-Dec-20	102	[Gantt bars for Electrical]			
Upper Mezz Level		5	29-Sep-20	05-Oct-20	-378	[Gantt bars for Upper Mezz Level]			
Lower Mezz Level		25	31-Aug-20	02-Oct-20	-357	[Gantt bars for Lower Mezz Level]			
Intermediate Strut Level		5	10-Sep-20	16-Sep-20	-355	[Gantt bars for Intermediate Strut Level]			

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021	
						Q3	Q4	Q1		
Mezzanine Level						2	02-Sep-20	03-Sep-20	-336	
Platform Level						7	21-Oct-20	29-Oct-20	-366	
No 13-Level						1070	14-May-14 A	18-Dec-20	102	
STS.26.05.1740	STS_Install: Tunnel Electrical -Lighting Fixtures - SB Union Square to Chinatown	10	30-Mar-20 A	07-Aug-20 A					STS_Install: Tunnel Electrical -Lighting Fixtures - SB Union Square to Chinatown	
STS.26.05.0920	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Moscone to Union Square	20	26-Nov-19 A	14-Aug-20 A					STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Moscone to Union Square	
STS.34.42.0690	STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone	1	26-Aug-20	26-Aug-20	-335				STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone	
STS.34.42.0510	STS_Install: Train Control - ATSC Entry Point Signage - Portal	1	26-Aug-20	26-Aug-20	-333				STS_Install: Train Control - ATSC Entry Point Signage - Portal	
STS.34.42.1070	STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square	1	27-Aug-20	27-Aug-20	-335				STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square	
STS.34.42.0900	STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station	1	27-Aug-20	27-Aug-20	-333				STS_Install: Train Control - ATSC Entry Point Signage - Moscone Station	
STS.34.42.1440	STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown	1	27-Aug-20	28-Aug-20	-335				STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown	
STS.34.42.2270	STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	4	20-Mar-17 A	28-Aug-20	-377				STS_Install: Train Control - Train Control Conduit - & JB's NB Portal To Moscone	
STS.34.42.1270	STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station	1	28-Aug-20	28-Aug-20	-333				STS_Install: Train Control - ATSC Entry Point Signage - Union Square Station	
STS 34 42 37 c	STS_Fab/Deliver: Transportation: ATCS Wayside Equipment (34 42 37)	180	14-Apr-16 A	30-Aug-20	-510				STS_Fab/Deliver: Transportation: ATCS Wayside Equipment (34 42 37)	
STS.34.42.1640	STS_Install: Train Control - ATSC Entry Point Signage - Chinatown	1	31-Aug-20	31-Aug-20	-333				STS_Install: Train Control - ATSC Entry Point Signage - Chinatown	
STS.26.05.1480	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - NB Chinatown to North Limits	4	26-May-20 A	31-Aug-20	-333				STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - NB Chinatown to North Limits	
STS.26.05.1370	STS_Install: Tunnel Electrical -Lighting Fixtures - SB Chinatown to North Limits	5	27-May-20 A	01-Sep-20	177				STS_Install: Tunnel Electrical -Lighting Fixtures - SB Chinatown to North Limits	
STS.26.05.1560	STS_Install: Tunnel Electrical -Lighting Fixtures - NB Chinatown to North Limits	5	26-May-20 A	01-Sep-20	-334				STS_Install: Tunnel Electrical -Lighting Fixtures - NB Chinatown to North Limits	
STS.34.42.0500	STS_Install: Security - NB Portal Intrusion Devices	2	31-Aug-20	01-Sep-20	-357				STS_Install: Security - NB Portal Intrusion Devices	
STS.34.42.1060	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Square	6	26-Aug-20	02-Sep-20	-344				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Square	
STS.34.42.0480	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone	6	26-Aug-20	02-Sep-20	-348				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Portal to Moscone	
STS.34.42.0490	STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone	1	02-Sep-20	02-Sep-20	-338				STS_Install: Train Control - Remote Feed Boxes- NB Portal to Moscone	
STS.34.42.0880	STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square	1	03-Sep-20	03-Sep-20	-338				STS_Install: Train Control - Remote Feed Boxes- NB Moscone to Union Square	
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone	6	28-Aug-20	04-Sep-20	-364				STS_Install: Train Control - Train Control Signals - SB Portal to Moscone	
STS.34.42.1260	STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown	1	04-Sep-20	04-Sep-20	-338				STS_Install: Train Control - Remote Feed Boxes- NB Union Square to Chinatown	
STS.34.42.2370	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	4	02-Sep-20	07-Sep-20	-367				STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Portal To Moscone	
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone	4	20-Mar-17 A	08-Sep-20	-393				STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone	
STS.26.05.1010	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square	3	04-Sep-20	08-Sep-20	-354				STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square	
STS.26.05.1390	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Chinatown to North Limits	10	15-Jul-19 A	08-Sep-20	-344				STS_Install: Tunnel Electrical - Traction Power Conduit - SB Chinatown to North Limits	
STS.26.05.1290	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Chinatown to North Limits	4	29-May-20 A	08-Sep-20	172				STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Chinatown to North Limits	
STS.34.42.0410	STS_Install: Train Control - Train Control Signals - NB Portal to Moscone	6	02-Sep-20	09-Sep-20	-357				STS_Install: Train Control - Train Control Signals - NB Portal to Moscone	
STS.34.42.0870	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Square	6	03-Sep-20	10-Sep-20	-348				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads- NB Moscone to Union Square	
STS.34.42.1800	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinatown	6	02-Sep-20	10-Sep-20	-344				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinatown	
STS.26.05.1715	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers SB17- SB Chinatown	2	05-Aug-19 A	10-Sep-20	-344				STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers SB17- SB Chinatown	
STS.34.23.1230	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Union Square to Chinatown	5	16-Mar-20 A	10-Sep-20	-400				STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Union Square to Chinatown	
STS.34.42.2260	STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Square	13	12-Mar-18 A	11-Sep-20	-377				STS_Install: Train Control - Train Control Conduit - & JB's NB Moscone to Union Square	
STS 27 32 10 f1	STS_Prep\Submit: Comm: Radio System Test Plans & Procedures	5	07-Sep-20	11-Sep-20	-529				STS_Prep\Submit: Comm: Radio System Test Plans & Procedures	
STS.26.05.3820	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U	3	09-Sep-20	11-Sep-20	-342				STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U	
STS.34.42.0710	STS_Install: Train Control - SB ATSC Entry Point Signage - Portal	1	14-Sep-20	14-Sep-20	-346				STS_Install: Train Control - SB ATSC Entry Point Signage - Portal	
STS.34.42.0980	STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square	6	07-Sep-20	14-Sep-20	-364				STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square	
STS.34.23.1940	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Union Square	7	03-Aug-20 A	14-Sep-20	-409				STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Moscone to Union Square	
STS.34.42.1090	STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone	1	15-Sep-20	15-Sep-20	-346				STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone	
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	4	10-Sep-20	15-Sep-20	-410				STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Portal To Moscone	
STS.28.20.2020	STS_Install: - SCADA System Terminations - UMS Communications Rm	10	02-Sep-20	15-Sep-20	-344				STS_Install: - SCADA System Terminations - UMS Communications Rm	
STS.26.05.2000	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits	2	14-Sep-20	15-Sep-20	-346				STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to North Limits	
STS.28.20.1810	STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits	2	14-Sep-20	15-Sep-20	-345				STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits	
STS.34.23.1220	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Union Square to Chinatown	3	03-Aug-20 A	15-Sep-20	-396				STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Union Square to Chinatown	
STS.26.05.3790	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square	5	09-Sep-20	15-Sep-20	-344				STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Union Square	
STS.34.42.1460	STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square	1	16-Sep-20	16-Sep-20	-346				STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square	
STS.34.42.0790	STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square	6	10-Sep-20	17-Sep-20	-357				STS_Install: Train Control - Train Control Signals - NB Moscone to Union Square	
STS.34.42.1820	STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown	1	17-Sep-20	17-Sep-20	-346				STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown	

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021			
						Q3	Q4	Q1	Q3	Q4	Q1	
STS.34.42.2330	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone	4	14-Sep-20	17-Sep-20	-374							STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone
STS.26.05.3800	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to Union Square	2	16-Sep-20	17-Sep-20	-346							STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - NB Chinatown to Union Square
STS.34.42.1250	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinatown	6	10-Sep-20	18-Sep-20	-348							STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Union Square to Chinatown
STS.26.05.1960	STS_Install: Tunnel Electrical - Comm/TC Cable Tray - SB Tunnel Wireduct Interface - South Platform	5	14-Sep-20	18-Sep-20	-370							STS_Install: Tunnel Electrical - Comm/TC Cable Tray - SB Tunnel Wireduct Interface - South Platform
STS.26.05.2060	STS_Install: Tunnel Electrical - Comm/TC Conduit & Pull Boxes - SB Tunnel Wireduct Interface - @ I	5	14-Sep-20	18-Sep-20	-362							STS_Install: Tunnel Electrical - Comm/TC Conduit & Pull Boxes - SB Tunnel Wireduct Interface - @ I
STS.34.23.1950	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Union Square to Chinatown	7	03-Aug-20 A	21-Sep-20	-400							STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Union Square to Chinatown
STS.34.42.1720	STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown	6	15-Sep-20	22-Sep-20	-364							STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown
STS.26.05.2160	STS_Install: Traction Power - Install Conduit/TP SCADA Cable to Existing FODP Panel @ King Sub	10	09-Sep-20	22-Sep-20	-374							STS_Install: Traction Power - Install Conduit/TP SCADA Cable to Existing FODP Panel @ King Sub
STS.34.42.1620	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limits	1	23-Sep-20	23-Sep-20	-350							STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads NB Chinatown to North Limits
STS.34.42.1630	STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits	1	23-Sep-20	23-Sep-20	-350							STS_Install: Train Control - Remote Feed Boxes- NB Chinatown to North Limits
STS.34.42.1810	STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits	1	23-Sep-20	23-Sep-20	-352							STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits
STS.34.42.1430	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limits	1	23-Sep-20	23-Sep-20	-352							STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limits
STS.26.05.3870	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Moscone to Union Square	5	03-Aug-20 A	24-Sep-20	-367							STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Moscone to Union Square
STS.34.23.1600	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Chinatown to North Limits	2	16-Mar-20 A	24-Sep-20	-361							STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Chinatown to North Limits
STS.34.22.3170	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC	3	22-Sep-20	24-Sep-20	-396							STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC
STS.34.42.0520	STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover	2	19-Aug-19 A	24-Sep-20	-351							STS_Install: Train Control - NB Switch Machines @ Chinatown Crossover
STS.28.20.1870	STS_Install: - CCTV Camera Equipment Cabinets - CTS Communications Rm	4	21-Sep-20	24-Sep-20	-352							STS_Install: - CCTV Camera Equipment Cabinets - CTS Communications Rm
STS.34.42.2280	STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown	14	20-Apr-16 A	25-Sep-20	-377							STS_Install: Train Control - Train Control Conduit - & JB's NB Union Square to Chinatown
STS.34.23.1590	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Chinatown to North Limits	1	27-Jul-20 A	25-Sep-20	-357							STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - NB Chinatown to North Limits
STS.34.22.3010	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I	4	22-Sep-20	25-Sep-20	-397							STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I
STS.34.42.1350	STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits	3	23-Sep-20	25-Sep-20	-354							STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits
STS.34.22.2980	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05 - UMS To MC	10	04-May-20 A	25-Sep-20	-397							STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05 - UMS To MC
STS.34.42.1170	STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown	6	18-Sep-20	25-Sep-20	-357							STS_Install: Train Control - Train Control Signals - NB Union Square to Chinatown
STS.28.20.2050	STS_Install: - Terminate CCTV Camera Equipment Cabinets - CTS Communications Rm	5	21-Sep-20	25-Sep-20	-352							STS_Install: - Terminate CCTV Camera Equipment Cabinets - CTS Communications Rm
STS.34.42.100	STS_Transportation: Surface Signaling System - Testing & Startup	30	28-Aug-20	26-Sep-20	-502							STS_Transportation: Surface Signaling System - Testing & Startup
STS 34 42 39 c	STS_Fab\Deliver: Transportation: ATCS Central Equipment (34 42 39)	10	19-Sep-20	28-Sep-20	-525							STS_Fab\Deliver: Transportation: ATCS Central Equipment (34 42 39)
STS.34.42.2120	STS_Install: Train Control - ATSC Power Panels - Chinatown Station Control Room	4	23-Sep-20	28-Sep-20	-370							STS_Install: Train Control - ATSC Power Panels - Chinatown Station Control Room
STS.34.42.2160	STS_Install: Train Control - ATSC 5KVA UPS Battery Cabinet - Union Square Station Control Room	2	25-Sep-20	28-Sep-20	-372							STS_Install: Train Control - ATSC 5KVA UPS Battery Cabinet - Union Square Station Control Room
STS.34.22.3160	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Source	1	28-Sep-20	28-Sep-20	-397							STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Source
STS.34.42.2020	STS_Install: Train Control - ATSC Emergency Feed In Device - Moscone Station Control Room	3	24-Sep-20	28-Sep-20	-373							STS_Install: Train Control - ATSC Emergency Feed In Device - Moscone Station Control Room
STS.34.22.3190	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS North	1	28-Sep-20	28-Sep-20	161							STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS North
STS.26.05.3510	STS_Install: Lighting - 4th/Brannan Station	10	19-Feb-18 A	29-Sep-20	-354							STS_Install: Lighting - 4th/Brannan Station
STS.20.71.550	STS_Manufacture - PCC SCADA Equipment	20	17-Jan-20 A	29-Sep-20	-374							STS_Manufacture - PCC SCADA Equipment
STS.34.23.2600	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Townsend To King Street	2	28-Sep-20	29-Sep-20	-391							STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Townsend To King Street
STS.34.22.2970	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS	2	01-Jun-20 A	29-Sep-20	-397							STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS
STS.34.23.1410	STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Chinatown to North Limits	5	09-Mar-20 A	29-Sep-20	-364							STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Chinatown to North Limits
STS.08.44.0110	STS_Install: Platform Wind Screens - 4th/Brannan Station	10	16-Sep-20	29-Sep-20	-334							STS_Install: Platform Wind Screens - 4th/Brannan Station
STS.26.05.2070	STS_Install: Traction Power - Remove Existing Mimic Panel Equipment @ PCC	5	23-Sep-20	29-Sep-20	-374							STS_Install: Traction Power - Remove Existing Mimic Panel Equipment @ PCC
STS.26.05.1750	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown	3	25-Sep-20	29-Sep-20	-357							STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown
STS.34.42.2110	STS_Install: Train Control - ATSC Transformer - Chinatown Station Control Room	2	29-Sep-20	30-Sep-20	-370							STS_Install: Train Control - ATSC Transformer - Chinatown Station Control Room
STS.34.23.1400	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - SB Chinatown to North Limits	1	27-Jul-20 A	30-Sep-20	-360							STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - SB Chinatown to North Limits
STS.34.22.3150	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS North	1	30-Sep-20	30-Sep-20	-397							STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS North
STS.28.20.0950	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Moscone to Union Square	13	13-Dec-19 A	30-Sep-20	-372							STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Moscone to Union Square
STS.34.41.2120	STS_Install; Traffic Signal Displays 4th St/King	3	28-Sep-20	30-Sep-20	-386							STS_Install; Traffic Signal Displays 4th St/King
STS.34.42.1540	STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits	3	28-Sep-20	30-Sep-20	-357							STS_Install: Train Control - Train Control Signals - NB Chinatown to North Limits
STS.34.01.24.100	STS.: PA/PDS Software: Operation control Center (34 01 24)	30	18-Dec-19 A	01-Oct-20	-537							STS.: PA/PDS Software: Operation control Center (34 01 24)
STS.34.01.24.130	STS.: Cable Installation: Operation control Center (34 01 24)	30	27-Jul-20 A	01-Oct-20	-537							STS.: Cable Installation: Operation control Center (34 01 24)
STS.34.23.1960	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Chinatown to North Limits	5	03-Aug-20 A	01-Oct-20	-361							STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Chinatown to North Limits
STS.26.05.3880	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown	5	03-Aug-20 A	01-Oct-20	155							STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown
STS.34.42.2010	STS_Install: Train Control - ATSC Feed In Device - Moscone Station Control Room	3	29-Sep-20	01-Oct-20	-373							STS_Install: Train Control - ATSC Feed In Device - Moscone Station Control Room

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021			
						Q3	Q4	Q1	Q3	Q4	Q1	
STS.26.05.2120	STS_Install: Traction Power - Make Fiber Node Connections From UMS Gap Breaker Station @PCC	5	14-Oct-20	20-Oct-20	-374							
STS.34.42.2390	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Union Square to Chinatown	14	01-Oct-20	20-Oct-20	-371							
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Poi	2	20-Oct-20	21-Oct-20	-410							
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Union Square to Chinatown	12	06-Oct-20	21-Oct-20	-410							
STS.34.42.2400	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable NB Chinatown to North Limits	2	21-Oct-20	22-Oct-20	-371							
STS.34.23.2620	STS_Install: OCS System - Install OCS Trolley Wire & Special Work In 4th St/Townsend Street - Inte	17	30-Sep-20	22-Oct-20	-391							
STS.34.22.2930	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat	2	21-Oct-20	22-Oct-20	-372							
STS.34.23.1890	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - SB Chinatown to North Limits	5	16-Oct-20	22-Oct-20	-371							
STS.28.20.1740	STS_Install: Tunnel Electrical - CCTV Cameras - NB Union Square to Chinatown	6	15-Oct-20	22-Oct-20	-374							
STS.28.20.1320	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Chinatown to North Limits	16	27-May-20 A	22-Oct-20	-372							
STS.28.20.1850	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North Limits	1	23-Oct-20	23-Oct-20	-372							
STS.34.22.3120	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown	1	23-Oct-20	23-Oct-20	-372							
STS.34.22.2880	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-04 To PFCB NB11 - UMS :	2	03-Aug-20 A	23-Oct-20	-409							
STS.34.42.2530	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Union Square Station Control Room	15	05-Oct-20	23-Oct-20	-372							
STS.34.41.2000	STS_Install; Traffic Signals 4th St	15	24-Apr-17 A	26-Oct-20	-386							
STS.34.23.2590	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Bluxome To Townsend	2	23-Oct-20	26-Oct-20	-380							
STS.28.20.1710	STS_Install: Tunnel Electrical - CCTV Cameras NB Chinatown to North Limits	2	23-Oct-20	26-Oct-20	-374							
STS.28.20.1780	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Union Square to Chinatown	2	23-Oct-20	26-Oct-20	-374							
STS.34.42.2540	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Moscone Station Control Room	15	06-Oct-20	26-Oct-20	-373							
STS.34.22.2890	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB11To NB04 - UMS To	8	11-May-20 A	27-Oct-20	-409							
STS.26.05.2110	STS_Install: Traction Power - Make Fiber Node Connections From CTS Washington Substation @ P	5	21-Oct-20	27-Oct-20	-374							
STS.28.20.1750	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate NB Chinatown to North Limits	1	27-Oct-20	27-Oct-20	-374							
STS.34.42.2320	STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to Chinatown	14	21-Apr-16 A	28-Oct-20	-390							
STS.34.23.1840	STS_Install: Tunnel Electrical - OCS Wires. Spacers, Insulators - NB Chinatown to North Limits	5	22-Oct-20	28-Oct-20	-375							
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890	5	22-Oct-20	28-Oct-20	-410							
STS 09 90 00 c12	STS_Paint Crossover Passage Doors	10	16-Oct-20	29-Oct-20	-351							
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS	1	01-Jun-20 A	29-Oct-20	-410							
STS.34.41.2130	STS_Install; Traffic Signal Displays 5th St/Brannan	3	27-Oct-20	29-Oct-20	-386							
STS.34.23.2640	STS_Install: OCS System - Install OCS Trolley Wire In 5th Street To Brannan	6	23-Oct-20	30-Oct-20	-391							
STS.34.01.24.150	STS_: PA/PDS: Operation control Center (34 01 24)	30	30-Jul-18 A	31-Oct-20	-537							
STS.34.01.24.110	STS_: Testing Cutover: Operation control Center (34 01 24)	30	02-Oct-20	31-Oct-20	-537							
STS.34.01.24.120	STS_: System Integration: Operation control Center (34 01 24)	30	02-Oct-20	31-Oct-20	-537							
STS.34.01.24.160	STS_: FSS: Operation control Center (34 01 24)	30	06-May-19 A	31-Oct-20	-537							
STS.34.01.24.170	STS_: CCTV & Access Control: Operation control Center (34 01 24)	30	25-May-20 A	31-Oct-20	-537							
STS.34.01.24.180	STS_: Network Communication: Operation control Center (34 01 24)	30	02-Oct-20	31-Oct-20	-537							
STS.34.01.24.200	STS_: AV Management: Operation control Center (34 01 24)	30	25-May-20 A	31-Oct-20	-537							
STS.34.01.24.210	STS_: Integrated Human Machine Interface (IHMI) System: Operation control Center (34 01 24)	30	25-May-20 A	31-Oct-20	-537							
STS.34.01.24.220	STS_: Elevator/ Escalator Remote Monitoring System: Operation control Center (34 01 24)	30	25-May-20 A	31-Oct-20	-537							
STS.34.41.2110	STS_Install; Traffic Signal Displays 4th St/Brannan	5	19-Jun-17 A	02-Nov-20	-386							
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS Tr	7	04-May-20 A	02-Nov-20	-410							
STS.34.42.2340	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone to Union Square	13	15-Oct-20	02-Nov-20	-393							
STS.34.42.2520	STS_Install: Train Control - ATSC Wire Pulls & Terminations - Chinatown Station Control Room	15	13-Oct-20	02-Nov-20	-378							
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS Sout	1	03-Nov-20	03-Nov-20	-410							
STS.34.42.2290	STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to North Limits	5	29-Oct-20	04-Nov-20	-382							
STS.20.71.210	STS_Prep\Submit: Systems Reliability Analysis - Radio Sub-System - Moscone	20	09-Oct-20	05-Nov-20	113							
STS.34.41.2010	STS_Install; Traffic Signal Displays 4th S/Bryant	6	07-Jan-19 A	05-Nov-20	-386							
STS.34.42.0960	STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square	12	21-Oct-20	05-Nov-20	-397							
STS 33 71 73 a12	STS_Manufacture: Utilities: Electrical Service Panel	30	28-Sep-20	06-Nov-20	-382							
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MC	3	04-Nov-20	06-Nov-20	-410							
STS.34.23.2580	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Brannan To Bluxome	9	27-Oct-20	06-Nov-20	-350							

**SFMTA Central Subway Project
Master Project Schedule
One Month Back & Remaining Work - August 2020 Update**

Required Revenue Serive Date 26-Dec-18
Data Date: 26-Aug-20

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021			
						Q3	Q4	Q1	Q3	Q4	Q1	
STS.34.23.2630	STS_Install: OCS System - Install OCS Trolley Wire In Townsend Street To 5th Street	11	09-Mar-20 A	06-Nov-20	-391							
STS.27.32.1180	STS_Install: Tunnel Electrical - Radiax Cable - & JB's NB Union Square to Chinatown	25	05-Oct-20	06-Nov-20	-372							
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS Sour	1	09-Nov-20	09-Nov-20	-410							
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MC	1	10-Nov-20	10-Nov-20	-410							
STS.34.23.2570	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Freelon To Brannan	2	09-Nov-20	10-Nov-20	-350							
STS.34.23.2650	STS_Install: OCS System - Install OCS Trolley Wire In Brannan To 4th Street	2	09-Nov-20	10-Nov-20	-391							
STS.34.41.2030	STS_Pull & Terminate Traffic Signal Wiring 4th St	16	24-Apr-17 A	12-Nov-20	-386							
STS.27.32.1790	STS_Install: Tunnel Electrical - Radiax Cable - SB Portal To Moscone	5	06-Nov-20	12-Nov-20	-365							
STS.34.23.2560	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Welsh To Freelon	2	11-Nov-20	12-Nov-20	-350							
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS T	15	08-Jun-20 A	12-Nov-20	-410							
STS.26.05.0785	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers NB12 To NB18 - NB Ur	7	06-May-19 A	13-Nov-20	-409							
STS 10 41 00 d1	STS_Prep\Submit: Display Case Mockup	30	16-Oct-20	14-Nov-20	-522							
STS 06 10 53 c	STS_Fab\Deliver: Wood Trough (06 10 53)	30	16-Oct-20	14-Nov-20	-493							
STS 10 14 00 c	STS_Fab\Deliver: Signage (10 14 00)	30	12-Apr-19 A	14-Nov-20	-544							
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS	2	13-Nov-20	16-Nov-20	-410							
STS.34.23.3700	STS_Install: OCS System - Remove/Install Cross Spans in Brannan	4	30-Dec-19 A	16-Nov-20	-391							
STS.27.32.1770	STS_Install: Tunnel Electrical - Radiax Cable - NB Union Square to Chinatown	7	09-Nov-20	17-Nov-20	-354							
STS.34.23.2550	STS_Install: OCS System - Install OCS Trolley Wire In 4th St - Bryant to Welsh	4	13-Nov-20	18-Nov-20	-350							
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS S	2	29-May-20 A	18-Nov-20	-410							
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS Sout	1	19-Nov-20	19-Nov-20	-410							
STS.34.23.3710	STS_Install: OCS System - Remove/Install Cross Spans in Townsend	3	30-Dec-19 A	19-Nov-20	-391							
STS.34.42.2360	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Union Square to Chinatown	13	03-Nov-20	19-Nov-20	-393							
STS.10.41.100	STS_Install: Display Cases Between Windscreens	5	16-Nov-20	20-Nov-20	-367							
STS.10.14.3510	STS_Install: Roof Canopy Signage - 4th/Brannan Station	5	16-Nov-20	20-Nov-20	-382							
STS 34 01 24 a30	STS_Prep\Submit: Operation control Center- Systems Diagrams (34 01 24)	90	26-May-19 A	23-Nov-20	148							
STS.27.32.1800	STS_Install: Tunnel Electrical - Radiax Cable - SB Moscone to Union Square	7	13-Nov-20	23-Nov-20	-365							
STS.34.42.2350	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Chinatown to North Limits	2	20-Nov-20	23-Nov-20	-393							
STS 01 79 00 c2	STS_Submit:O&M Manuals 60 Days Prior to Training	60	11-Nov-19 A	24-Nov-20	-539							
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To U	3	20-Nov-20	24-Nov-20	-410							
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS Nort	1	25-Nov-20	25-Nov-20	-410							
STS.34.42.1700	STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown	14	06-Nov-20	25-Nov-20	-397							
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - China	2	25-Nov-20	26-Nov-20	-410							
STS.34.42.1330	STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits	2	26-Nov-20	27-Nov-20	-397							
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatowr	1	27-Nov-20	27-Nov-20	-410							
STS.20.71.515	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - PCC SCADA Equipment	40	21-Oct-20	29-Nov-20	163							
STS.20.71.525	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - Surface Signalling Systems	40	21-Oct-20	29-Nov-20	-558							
STS.20.71.535	STS_Prep\Submit: Sub-Systems Maintainability Demonstration -Facility SCADA Systems (FSS)	40	21-Oct-20	29-Nov-20	-558							
STS.20.71.575	STS_Prep\Submit: Sub-Systems Maintainability Demonstration - Radio System	40	21-Oct-20	29-Nov-20	-558							
STS.27.32.1780	STS_Install: Tunnel Electrical - Radiax Cable - SB Union Square to Chinatown	7	24-Nov-20	02-Dec-20	-365							
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	02-Dec-20	-410							
STS.10.14.3520	STS_Install: Platform Signage - 4th/Brannan Station	10	23-Nov-20	04-Dec-20	-382							
STS.27.32.1810	STS_Install: Tunnel Electrical - Radiax Cable - SB Chinatown to North Limits	5	03-Dec-20	09-Dec-20	-365							
STS.01.64.100	STS_Install:Owner Next Bus Signs @ 4th/Brannon Station	5	07-Dec-20	11-Dec-20	-382							
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square	13	27-Nov-20	15-Dec-20	-410							
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown	14	27-Nov-20	16-Dec-20	-410							
STS.27.32.1740	STS_Install: Tunnel Electrical - Radiax Cable - NB Chinatown to North Limits	5	14-Dec-20	18-Dec-20	-372							
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits	2	17-Dec-20	18-Dec-20	-410							
Electrical - Transportation		10	26-Aug-20	08-Sep-20	-310							
Startup & Testing		40	15-Feb-21 A	10-Feb-21	-410							
No 13-Disp		1784	13-Jan-14 A	25-Feb-21	64							

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
							Q3	Q4	Q1
	Unallocated Contingency	337	26-Aug-20	29-Dec-21	-398				

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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 4th 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%
Total	\$648.460	\$1,588.000	\$2,236.460	100.0%

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:

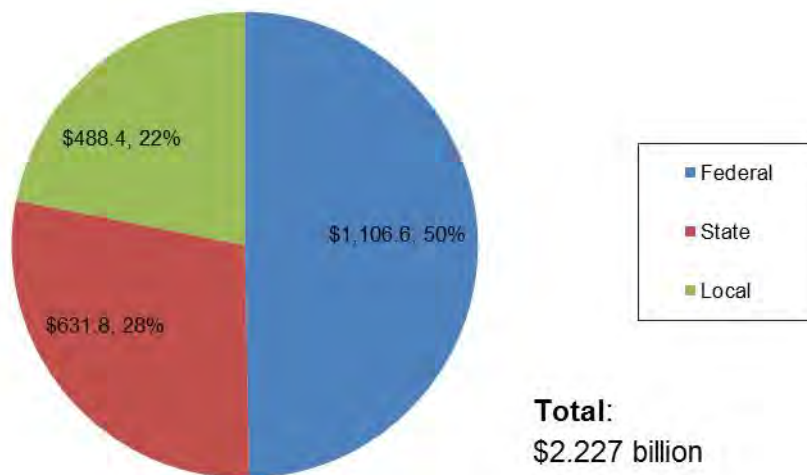
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

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.

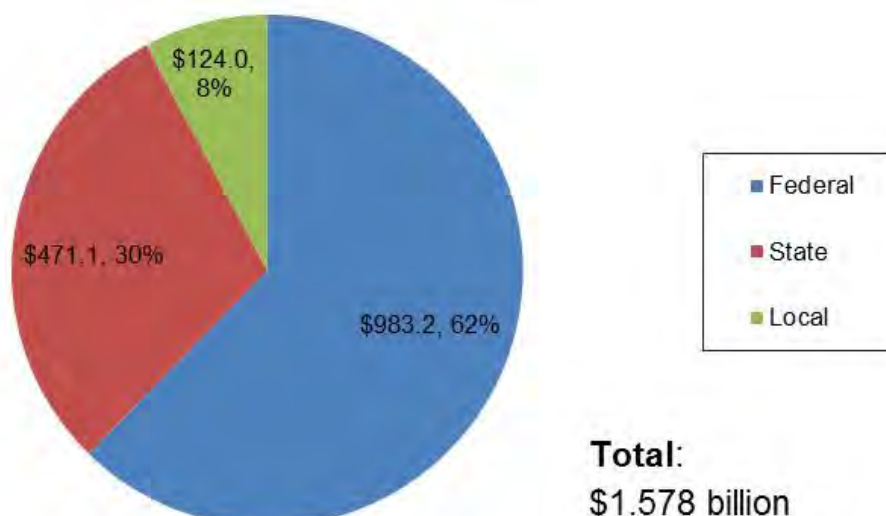
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2
(\$ in millions)



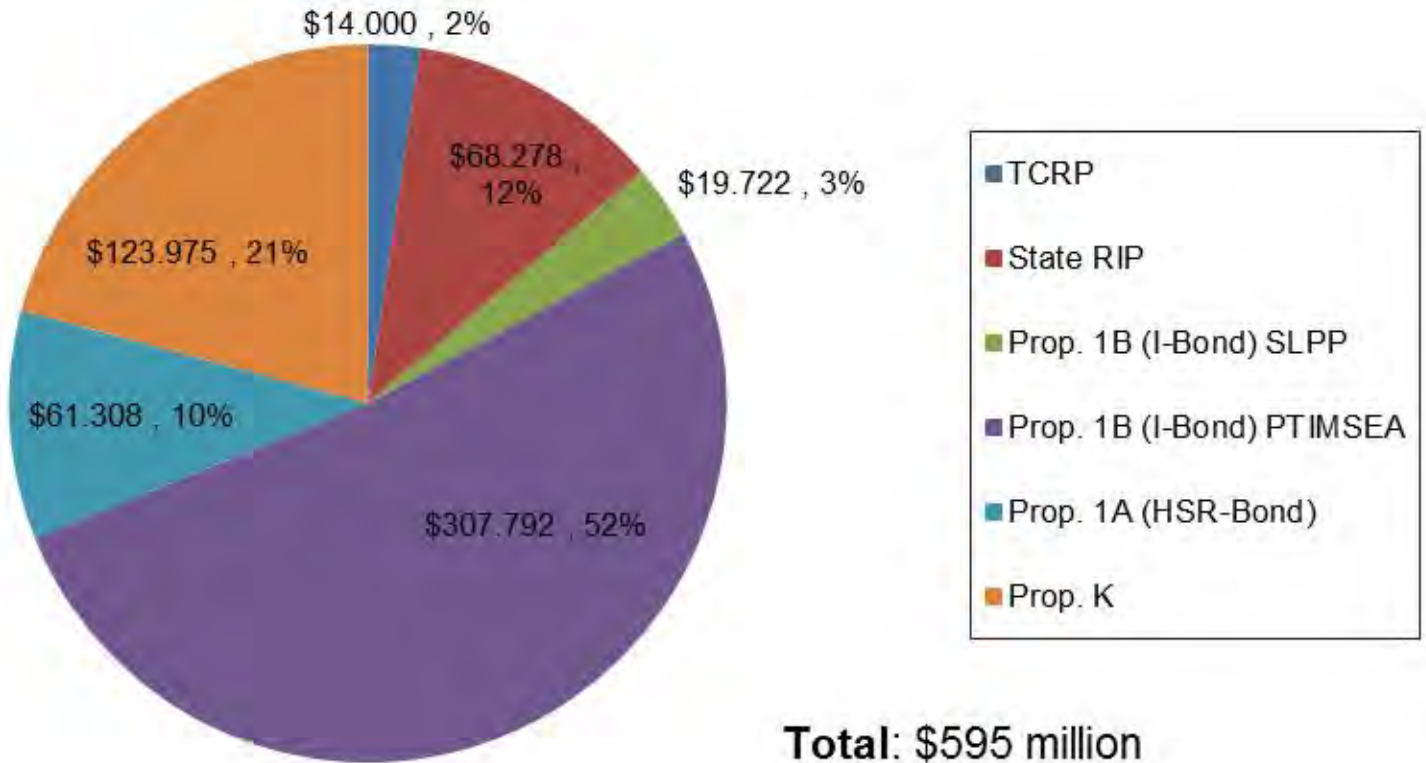
Central Subway Project Funding

Phase 2
(\$ in millions)



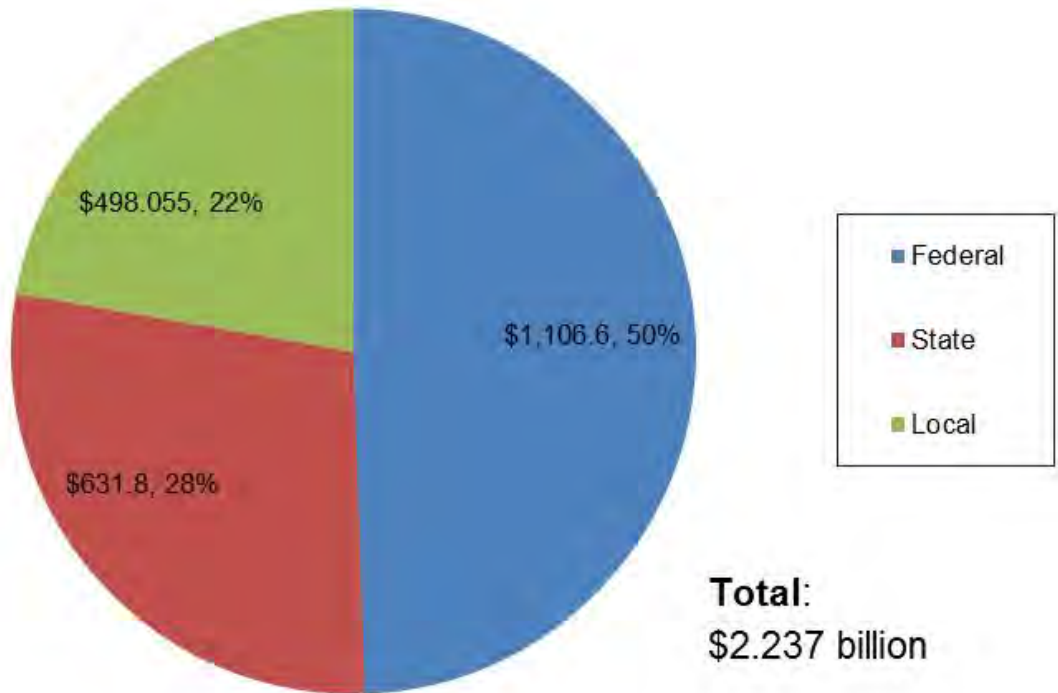
State and Local Funding

Phase 2
(\$ in millions)



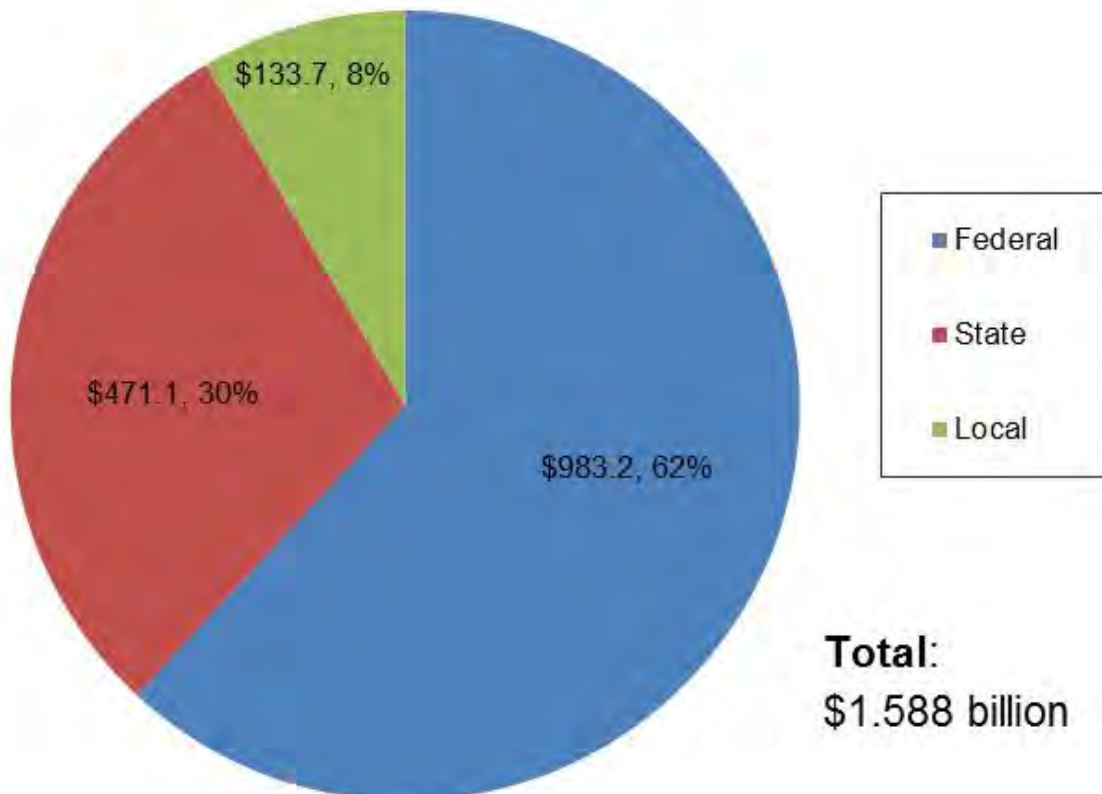
Third Street Light Rail Transit Project Funding

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

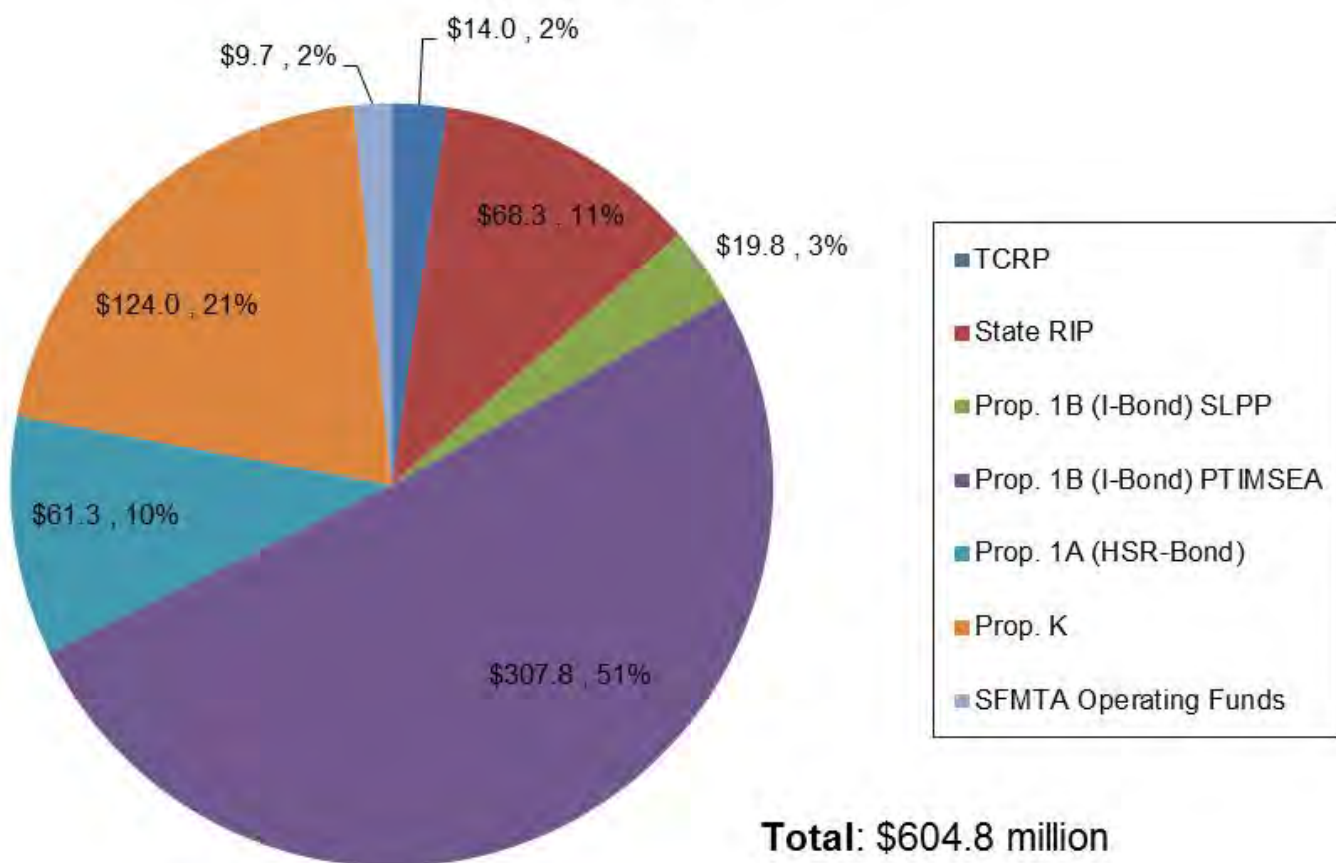


Central Subway Project Funding

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.

Budget/Expenditures

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

Contract Details

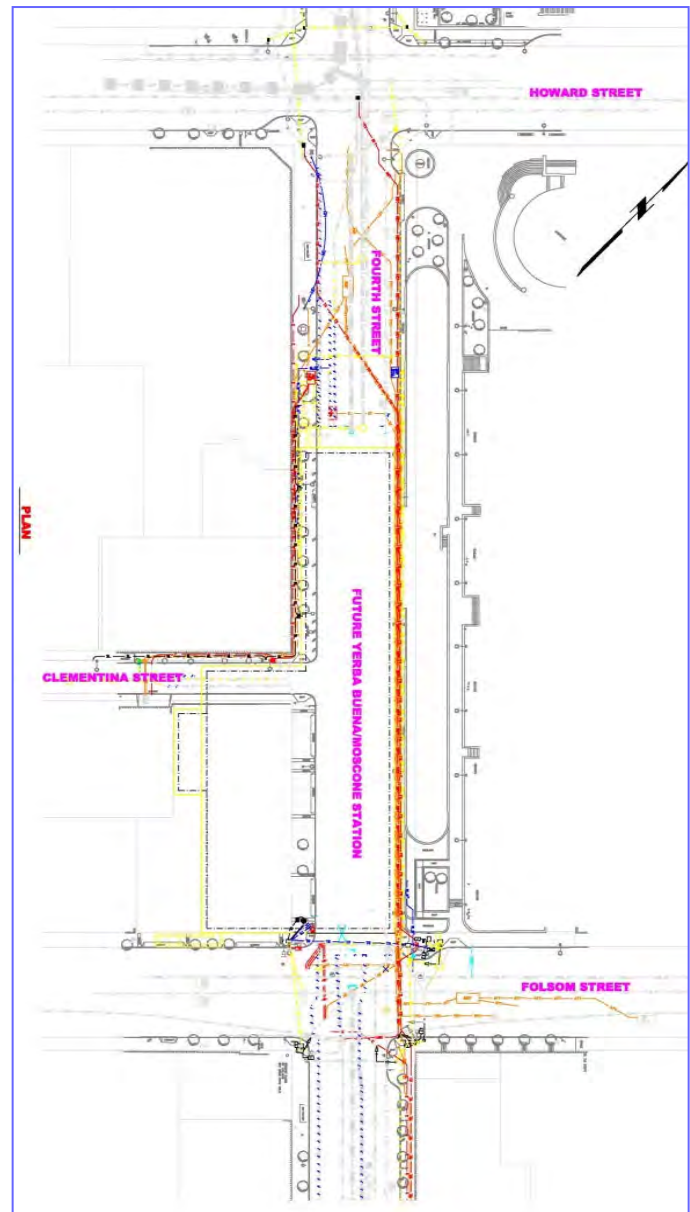
Contract Awarded:	November 17, 2009
Notice to Proceed:	January 4, 2010
Substantial Completion:	June 23, 2011
Contract Award Value:	\$ 9,273,939
Modifications Final :	\$ 2,694,211
Final Contract Value:	\$11,968,150

Status

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

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.



Union Square/Market Street Station Utility Relocation

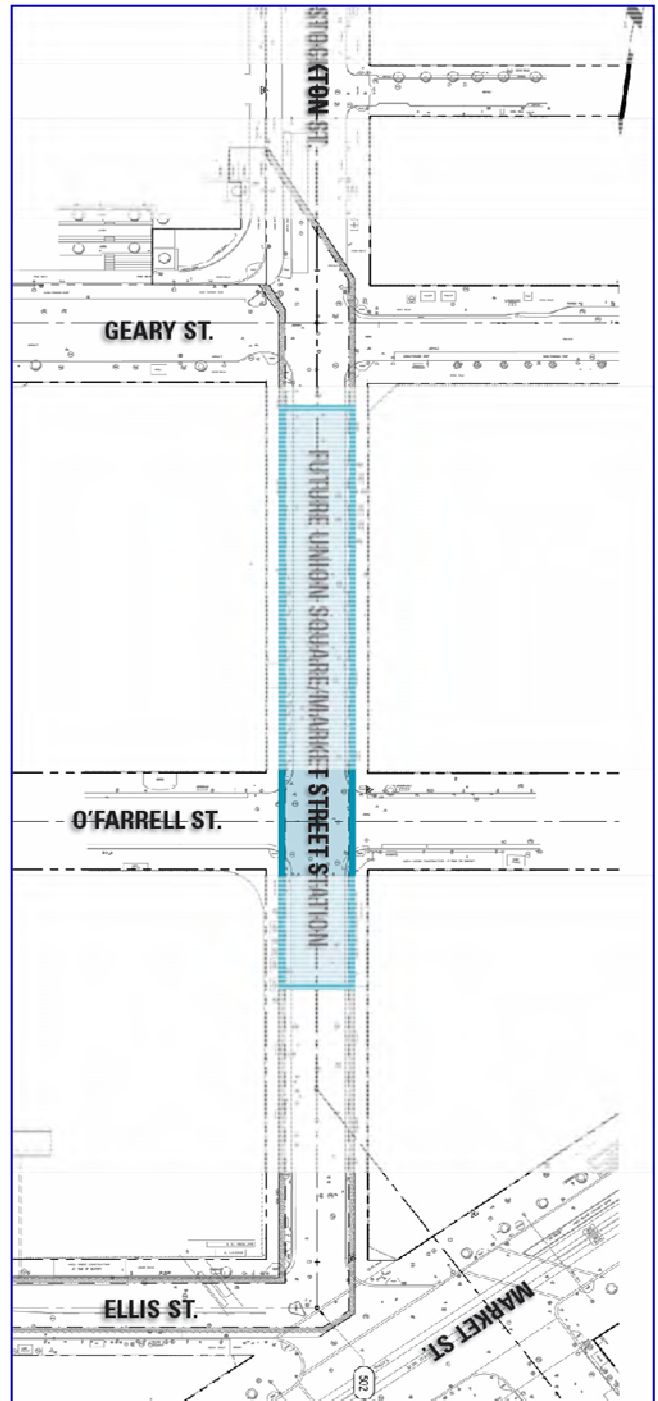
Contract 1251

Contractor: Synergy Project Management, Inc.

Budget/Expenditures	
Category	Amount
Original Budget	\$22,199,847
Expenditures Final	\$20,669,081
Utility Reimbursements	(7,413,510)
Final Program Costs	\$13,176,169
Budget Impact (Underrun)	(9,023,678)

Description

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



Contract Details	
Contract Awarded:	December 7, 2010
Notice to Proceed:	January 12, 2011
Substantial Completion:	August 16, 2012
Contract Award Value:	\$16,832,550
Modifications Final:	\$3,836,531
Final Contract Value:	\$20,669,081

Status

- Final completion on October 15, 2012
- Completed punch list work
- Project Final Acceptance on November 15, 2013
- Completed final construction contract administrative closeout in June 2017

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.

- Contract funded by SFMTA Operating funds
- Work was substantially completed September 24, 2013
- Completed administrative closeout in June 2016

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

Contract Details	
Contract Awarded:	June 12, 2013
Notice to Proceed:	July 15, 2013
Substantial Completion:	Sept. 24, 2013
Contract Award Value:	\$498,995
Modifications to Date:	\$149,981
Current Contract Value:	\$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
- Completed administrative closeout in November 2018

Budget/Expenditures	
Category	Amount
Current Budget	\$239,973,354
Other Project Budget	\$5,150,000
Other Offset Credits	\$1,312,101
Expenditures Final	\$233,511,253

Contract Details	
Contract Awarded:	June 28, 2011
Notice to Proceed 1:	January 27, 2012
Notice to Proceed 2:	March 14, 2012
Partial NTP 3:	April 12, 2012
Notice to Proceed 3:	October 15, 2012
Substantial Completion:	April 15, 2015
Contract Award Value:	\$233,584,015
Modifications to Date:	\$6,389,339
Final Contract Value:	\$239,973,354



Appendix E

SBE PARTICIPATION

Quarterly Report

Current Report: March 2020 to June 2020

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 June 30, 2020.¹

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 2020

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)	
A Project Professional Services Contracts			millions		millions		millions	millions		
1	149	CS Partnership	Project Management	\$97.72	30%	\$94.39	32.1%	\$29.31	\$30.28	31.4%
2	156	Hill International	Project Controls Task 1	\$17.11	26%	\$10.12	29.3%	\$4.45	\$2.96	26.0%
3	155-1	PB Telemon	Tunnels Design	\$7.94	30%	\$7.90	30.2%	\$2.38	\$2.39	31.6%
4	155-2	CS Design Group	Stations Design	\$54.78	30%	\$47.78	30.0%	\$16.43	\$14.33	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.74	30%	\$17.74	25.7%	\$5.32	\$4.56	30.0%
Subtotal Professional Services				\$195.29		\$177.93		\$57.90	\$54.53	
B Project Construction Contracts			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	\$20.70	20%	\$20.70	87.4%	\$4.14	\$18.10	94.9%
3	1252	BIH	Tunnels and Portal - in Construction	\$239.97	6%	\$239.97	5.8%	\$14.40	\$13.88	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	\$905.89	20%	\$865.40	20.1%	\$181.18	\$173.65	25.5%
Subtotal Construction Contracts				\$1,179.18		\$1,138.69		\$202.76	\$217.90	
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

¹ 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").

\$ 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 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 29.3% 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 #79 June 2020, 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: 6/30/2020

Contract:	Project Management and Construction management	
Contract No.	CS-149 Central Subway Partnership*	
Status:	On-going	
	Base Contract Value	\$97,715,988
	Approved Change Orders	-0-
	Current Contract Value	\$97,715,988
	Expended to Date (est.)	94,389,263
	% Expended	96.6%
	SBE SFMTA Goal	30.0%
	SBE Participation	32.1%

Contract:	Project Controls Cost and Schedule Support	
Contract No.	CS 156 Hill International Task 1*	
Status:	On-going	
	Base Contract Value	\$17,112,873
	Approved Change Orders	-0-
	Current Contract Value	\$17,112,873
	Expended to Date (est.)	\$10,115,598
	% Expended	59.1%
	SBE SFMTA Goal	26.0%
	SBE Participation	29.3%

Contract:	Design Package 1 for CNs 1250, 1251 and 1252 Tunnels	
Contract No.	CS-155-1 PB / Telemon*	
Status:	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.)	\$7,904,713
	% Expended	99.6%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.2%

Contract:	Design Package 2 for 1253 UMS, 1254 CTS, 1255 YBM Stations.	
Contract No.	CS-155-2 Central Subway Design Group*	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	\$39,949,948
	Approved Change Orders (6)	\$14,829,744
	Current Contract Value	\$54,779,692
	Expended to Date (est.)	\$47,782,352
	% Expended	87.2%
	SBE SFMTA Goal	30.0%
	SBE Participation	30.0%

Contract:	DP 3 Systems, Track work, Surface station.	
Contract No.	CS-155-3 HNTB-B&C*	
Status:	Design is completed. Construction support ongoing	
	Base Contract Value	17,549,417.00
	Approved Change Orders (9)	\$368,002
	Current Contract Value	\$17,917,419
	Expended to Date (est.)	17,740,907
	% Expended	99.0%
	SBE SFMTA Goal	30.0%
	SBE Participation	25.7%

* denotes accrual

Active and Completed Construction Contracts - SBE Participation Details

<i>Data as of:</i>		6/30/2020
Contract:	Synergy Inc Utility Relocation 1 YBM & Launch Box	
Contract No.	1250	
Status:	Contract is completed and closed out	
	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%
Contract:	Synergy Inc Utility Relocation 2 UMS	
Contract No.	1251	
Status:	Contract is completed and closed out	
	Base Contract Value	\$16,832,550
	Approved Change Orders	3,836,531
	Final Contract Value	\$20,699,081
	% Expended	100%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	87.4%
Contract:	Pagoda Palace Demolition / MH Construction	
Contract No.	1277	
Status:	Contract is completed and closed out	
	Base Contract Value	\$498,995
	Approved Change Orders	\$149,981
	Final Contract Value	\$648,976
	% Expended	100%
	SBE SFMTA Goal	100%
	SBE Participation To Date	100%
Contract:	Tunnels Barnard/Impregilo/Haley	
Contract No.	1252	
Status:	Contract is completed and closed out	
	Base Contract Value	\$233,584,015
	Approved Change Orders	\$6,389,339
	Current Contract Value	\$239,973,354
	Expended to Date (est.)	\$239,973,354
	% Expended	100%
	SBE SFMTA Goal	6.0%
	SBE Participation To Date	5.8%
Contract:	Stations and Systems / Tutor Perini	
Contract No.	1300	
Status:	On-going	
	Base Contract Value	\$839,676,400
	Approved Change Orders	\$66,216,706
	Current Contract Value	\$905,893,106
	Expended to Date (est.)	\$865,398,938
	% Expended	95.5%
	SBE SFMTA Goal	20.0%
	SBE Participation To Date	20.1%

Photos on the next page:

(top to bottom) August 2020:
 At Chinatown Station, installing escalator cabs at train platform level.
 Installation of crystallized glass at north escalator opening for Union Square Market Street Station.
 At Yerba Buena/Moscone Station, next train sign boards are displayed at platform level.
 Blast door at cross passage 5 at Surface, Track, and Systems station.

central subway

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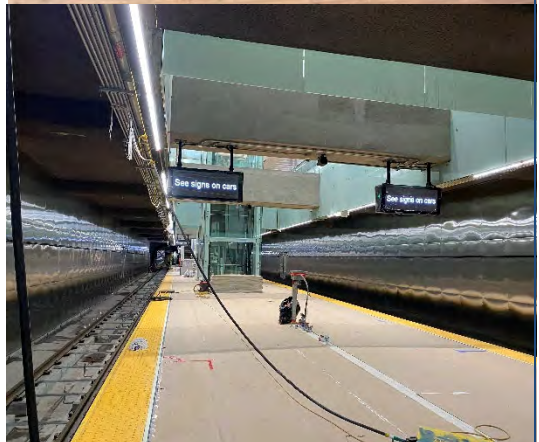


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