

central subway

It's all coming together

Wayfinding signage, public display destination signs and other interior finishes installation at UMS Station



Progress Report

July 2020



SFMTA

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Cover photo: Wayfinding signage, public display destination signs and other interior finishes at Concourse level at Union Square Market Street Station. More photos can be found starting on page 40.

Above photo: A worker surveys the surface site for Rose Pak-Chinatown Station, 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/>



Steel framing has been furred out from the east wall of the concourse lobby for the installation of utilities behind and wall panels against it.

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 has reported two additional cases to increase the total to twelve within their labor forces. The Contractor and its subcontractors have identified the impacted team members and cases are quarantined as required by the Safety and Security plan. Some of the positive cases have returned back to work after additional testing. 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. 35)

Chinatown Station - Completed constructing structural steel for Elevators 1 & 2 at Platform and Concourse levels. Completed pulling service wires at Main Communication room at Lower Mezzanine level. Completed construction of Plaza level slabs. Completed installing structural steel for Plaza level. 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 - Continued installing Escalators 3 and 4 and Elevators 1, 2, 3 and 4. Continued agent station booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse. Continued Systems startup and Acceptance testing.

Surface, Track and Systems— Completed trackwork at 4th and King tie-in. 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 system.

Total project costs to date are \$1,557.53 million, an increase of \$13.91 million over last month. The total cost to date equals 98.7% of 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 \$1.626B which is \$48M over 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 36

Key Milestones

Restoration of the southeast corner of Union Square adjacent to the north UMS station entrance



Waterproofing, terrace blocks, and landscaping are completed.

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



Below, mechanical systems and utilities for the station entrance are being fitted out.



Workers put the finishing touches on sealing the terrace blocks, adding lighting, and other systems.

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 continues to evaluate the Estimate at Completion (EAC) and has presented information to the SFMTA Board. 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 \$1.626B or \$48M 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 and the funds are identified, the team will revised the various cost sheet 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 has received the commitment from the SFMTA Finance and Grants is to identify additional funds needed to complete the project.

Total net incurred costs for the project are \$1,557.53 million, a \$13.91 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,527.42 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$23.02 million) and estimates of outstanding pay requests (credit of \$5.39 million). This incurred amount equals 98.7% of 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 July 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA July Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary July Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,592,567,980
Earned Value:	\$1,471,276,361
Actual Cost:	\$1,557,531,474
Schedule Performance Index (SPI):	0.92
Cost Performance Index (CPI):	0.94
Percent Complete:	92.3%

*July 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 July 2020. The July 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 July 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 occurred due to the social distancing requirement which is impacting production rates.

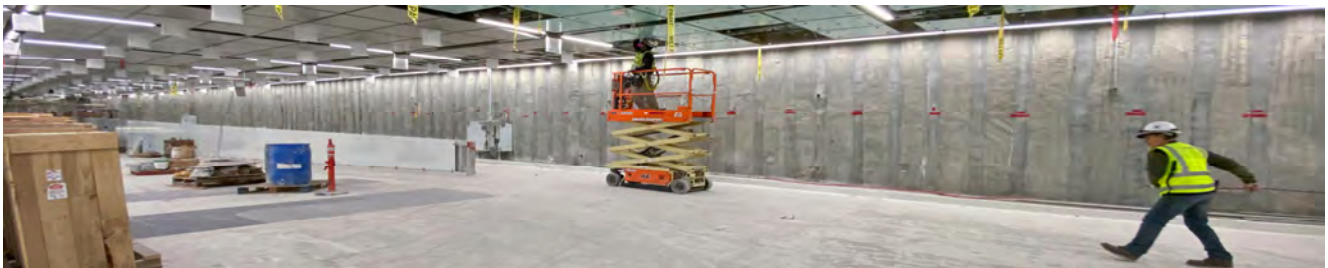
Currently we are experiencing day-to-day delays caused by TPC's electrical work in the tunnel impacted by lack of resources and extended approvals of contract modifications related to Radio and Train Control Systems. These issues have impacted TPC's Substantial Completion date, we have mitigated the 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 June 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 July 2020 schedule is used within the July Report. The SFMTA Contract 1300 July 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:

- 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
- Completed 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
- Completed 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 Plaza level slabs
- Continued construction of Plaza roof, walls and stairs
- Completed installing structural steel for Plaza level
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC layout at Surface level
- Began installing GFRC panels at Plaza level
- Began installing grating at Roof walkways
- Continued AWSS piping construction at intersection of Stockton/Washington Streets
- Closed north sidewalk of Washington Street to pedestrian traffic
- Began construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Began Sewer main installation along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

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
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Ceiling panels and LED Artwork on concourse level

Schedule Highlights - Continued

- Light fixtures and controls
 - Curved metal panel on platform strut level
 - Terrazzo on concourse and platform level
 - Fire Alarm /PA / Security System
 - Emergency lighting at tunnel tie-in on platform level
 - CCTV/Communication at tunnel tie-in on platform level
 - Station Agent Booth
 - HVAC startup and testing
 - Power startup and starting
- * North Concourse:
- Stair, escalator and elevators
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical
 - 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
- * 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-1255 (YBM) has performed the following work this month:

- Continued installing Escalators and 3 and 4
- Continued installing Elevators 1, 2, 3 and 4
- Installed glass rail supports, hand rail, precast runnels, and SS handrails at Egress Stair 2 & 3
- Installed roof fascia and completed roofing at Headhouse roof
- Continued installing station agent booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse
- Continued roof coping, fireproofing roof, deck, steel structure, terminating roofing membrane at curbs at Headhouse Roof
- Continued installing door frames and doors at Headhouse Mezzanine

Schedule Highlights - Continued

- Began preparations for terrazzo vapor barrier to install terrazzo fill around escalators and elevator fronts at House Concourse
- Installed metal wall panels and removed all scaffolds at Headhouse Concourse
- Complete hot water heater installation, restrooms, sewer ejectors at Headhouse Concourse
- Continued polishing and sealing terrazzo at Platform
- 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
- Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation
- Continued installation of ATCS system
- Continued installation of blast doors at tunnel Cross-passages
- Started installation of radio system
- Completed trackwork at 4th and King tie-in

Master Project Schedule

Activity	Activity Type	Capital Question	Start	End	2020	2021	2022	2023	2024
CENTRAL SUBWAY PROJECT									
Program Level Milestones									
Central Subway Project Start		0	05-Jun-20	05-Jun-20					
Final Design		0	05-Jun-20	05-Jun-20					
Light Rail Vehicle		0	05-Jun-20	05-Jun-20					
Final Estimate		0	05-Jun-20	05-Jun-20					
Construction Phases									
Construction Support and Costs		0	05-Jun-20	05-Jun-20					
Construction Utility Confirmed #1 - MOS & Portal CH-1250		0	05-Jun-20	05-Jun-20					
Construction Utility Confirmed #2 - UMS CH-1251		0	05-Jun-20	05-Jun-20					
Construction Tunnel CH-1252		0	05-Jun-20	05-Jun-20					
Construction STS P-1253 ATC 1		0	05-Jun-20	05-Jun-20					
Construction STS P-1254 Hoale		0	05-Jun-20	05-Jun-20					
Construction CH-1300		0	05-Jun-20	05-Jun-20					
CH-1300 Milestone		0	05-Jun-20	05-Jun-20					
Construction UMS Station P-1253		0	05-Jun-20	05-Jun-20					
Construction YSM Station P-1254		0	05-Jun-20	05-Jun-20					
Construction STS P-1255		0	05-Jun-20	05-Jun-20					
Construction STS P-1256		0	05-Jun-20	05-Jun-20					
Project Start Up		0	05-Jun-20	05-Jun-20					
Unallocated Contingency		0	05-Jun-20	05-Jun-20					
<p>Program Level Milestones</p> <p>Baseline Finish Date: 12-Sep-18</p> <p>CSP Revenue Service Date</p> <p>Construction Phase</p> <p>Construction Support and Costs</p> <p>Construction STS P-1253 ATC 2</p> <p>Construction STS P-1254 Hoale</p> <p>Construction CH-1300</p> <p>Construction UMS Station P-1253</p> <p>Construction YSM Station P-1254</p> <p>Construction STS P-1255</p> <p>Construction STS P-1256</p> <p>Project Start Up</p> <p>Unallocated Contingency</p>									
<p>ST MTA Central Subway Project</p> <p>Master Project Schedule</p> <p>Summary Schedule - June 2020</p> <p>Required Revenue Service Date: 26-Dec-18</p> <p>Date Date: 26-Jul-20</p>									



Glass railings, jade-colored wall panels, and other finishing interior elements are being installed inside the upper mezzanine level for Rose Pak-Chinatown Station.

Contracts & Construction

Construction Contracts In Progress

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

- Contractor: Tutor - Perini Corporation
- Amount: \$924.69 million
- Contract Status: 93.61% 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

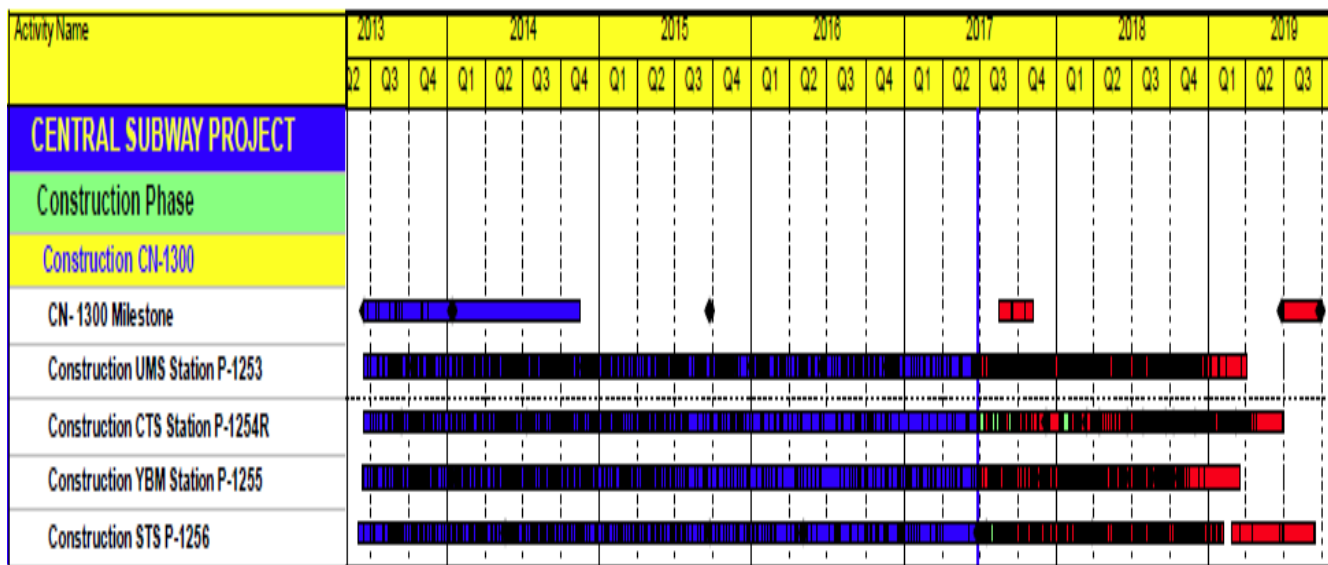
The Contract 1300 scope is to construct the Central Subway's three subway stations, one surface station, construct the 2,000 feet of surface track, and install track and operating systems throughout the new alignment. The separate station and systems work packages are presented in the following pages.

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 (\$):	\$85,014,511
Modifications to Date (Days):	1,052
Current Contract Value:	\$924,690,911

Budget/Expenditures▲	
Current Budget	\$861,639,691
Other Project Offset Credits	\$9,283,869
Expenditures to Date	\$870,718,769

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
- Completed 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
- Completed 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 Plaza level slabs
- Continued construction of Plaza roof, walls and stairs
- Completed installing structural steel for Plaza level
- Continued installing fire proofing for Plaza level



- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC layout at Surface level
- Began installing GFRC panels at Plaza level
- Began installing grating at Roof walkways
- Continued AWSS piping construction at intersection of Stockton/Washington Streets
- Closed north sidewalk of Washington Street to pedestrian traffic
- Began construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Began 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 all levels
- Continue 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
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC installation at Surface level
- Continue AWSS pipe construction at intersection of Stockton/Washington Streets
- Continue construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Continue underground utility construction (sewer, domestic water, AWSS) along Washington Street
- Continued street work (minor), ongoing monitoring and surveying
- 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

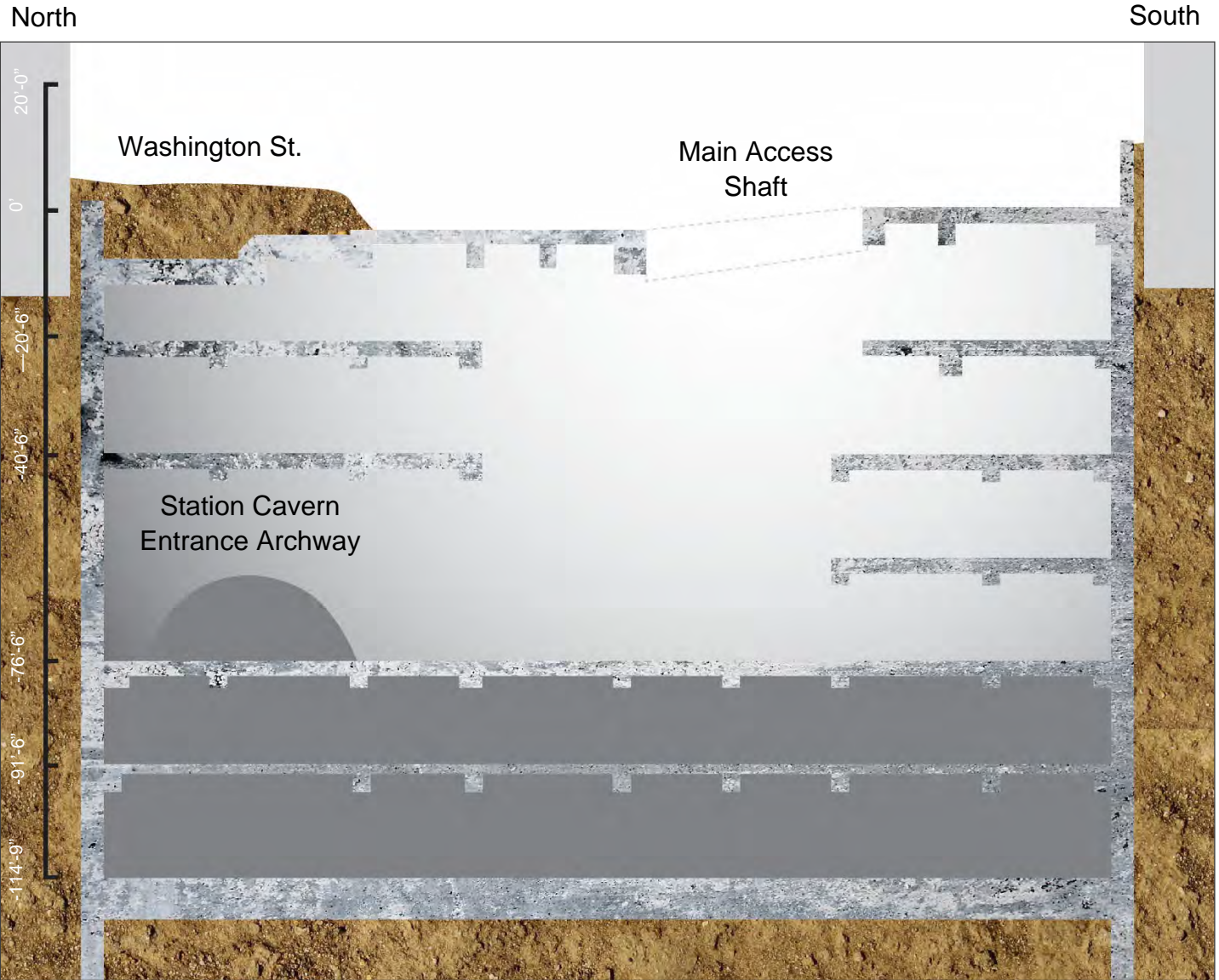
Three Month Look Ahead

- Complete installation of Elevators 1, 2, 3, and 4
- Complete installing mechanical, electrical,



A crew lays out rolls of waterproofing membrane where future stairs will be built leading to the rooftop plaza at Rose Pak-Chinatown Station.

Station Construction Progress Section

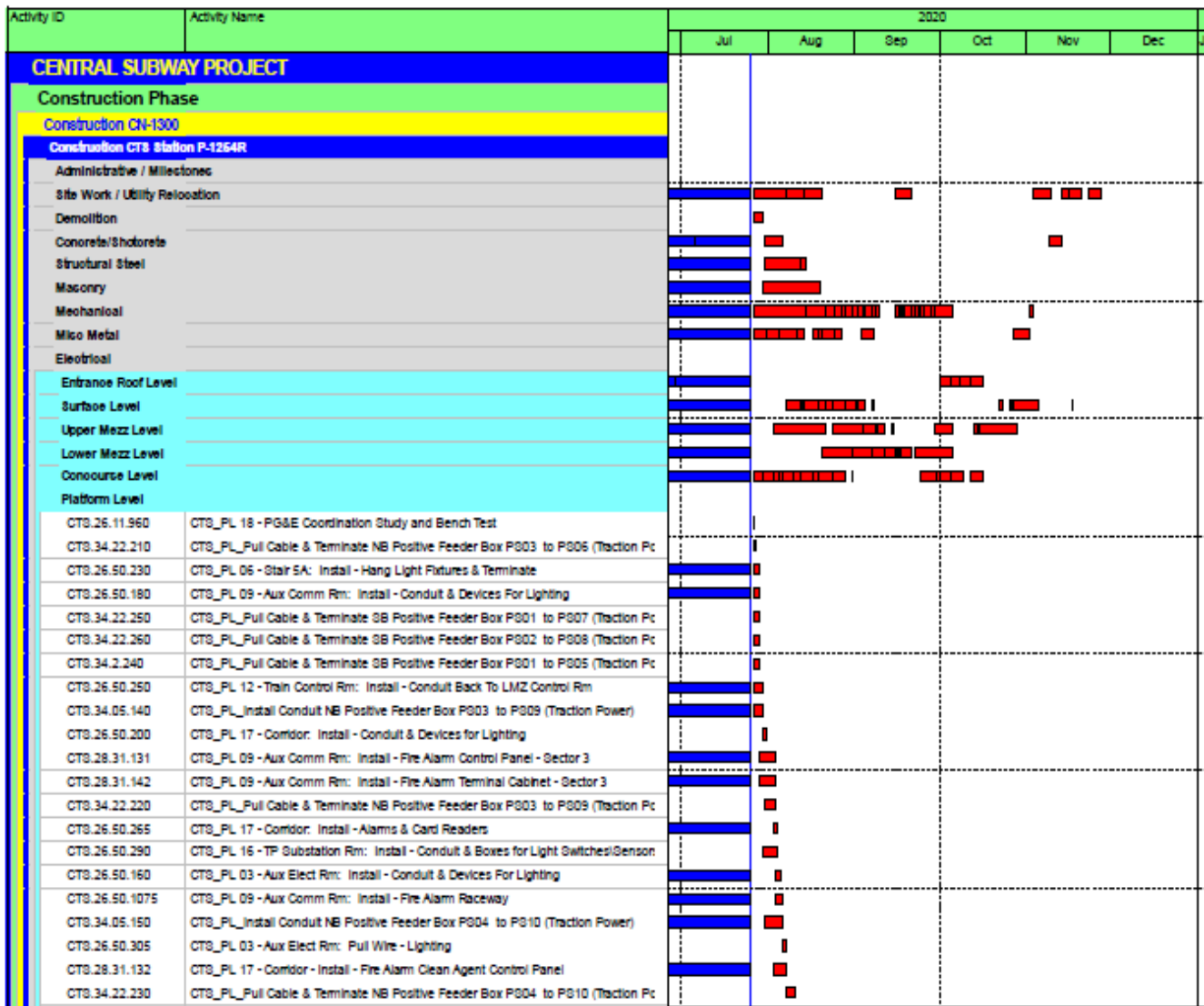


Chinatown Station Construction Status - Continued

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 (\$):	\$52,199,817
Modifications to Date (Days):	1,052
Current Contract Value:	\$299,767,627

Budget/Expenditures	
Current Budget	\$257,567,810
Other Project Offset Credits	\$6,235,772
Expenditures to Date	\$276,095,502

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
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- Ceiling panels and LED Artwork on concourse level
- Light fixtures and controls
- Curved metal panel on platform strut level
- Terrazzo on concourse and platform level
- Fire Alarm /PA / Security System
- Emergency lighting and CCTV/ Communication at tunnel tie-in on platform level
- Station agent booth
- HVAC startup and testing
- Power startup and starting

North Concourse:

- Stair, escalator and elevators
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- 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

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

Union Square/Market Street Station

Contract 1300 Work Package 1253

- 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 and EV startup and testing
- Power startup and testing
- Fire Alarm System startup and testing

North Concourse:

- Stairs, escalator, elevators
- Overhead plumbing, fire protection piping, and overhead fixture and electrical
- LED artwork

South Concourse:

- Stair and escalator
- Overhead electrical, light fixtures and controls.
- Ceiling panels

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
- 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

Union Square/Market Street Station

Contract 1300 Work Package 1253

South Concourse:

Completion of the following:

- Ceiling panels
- Glass wall panels
- Stairs and escalator

Continued construction / begin installation of the following:

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



Street/Surface:

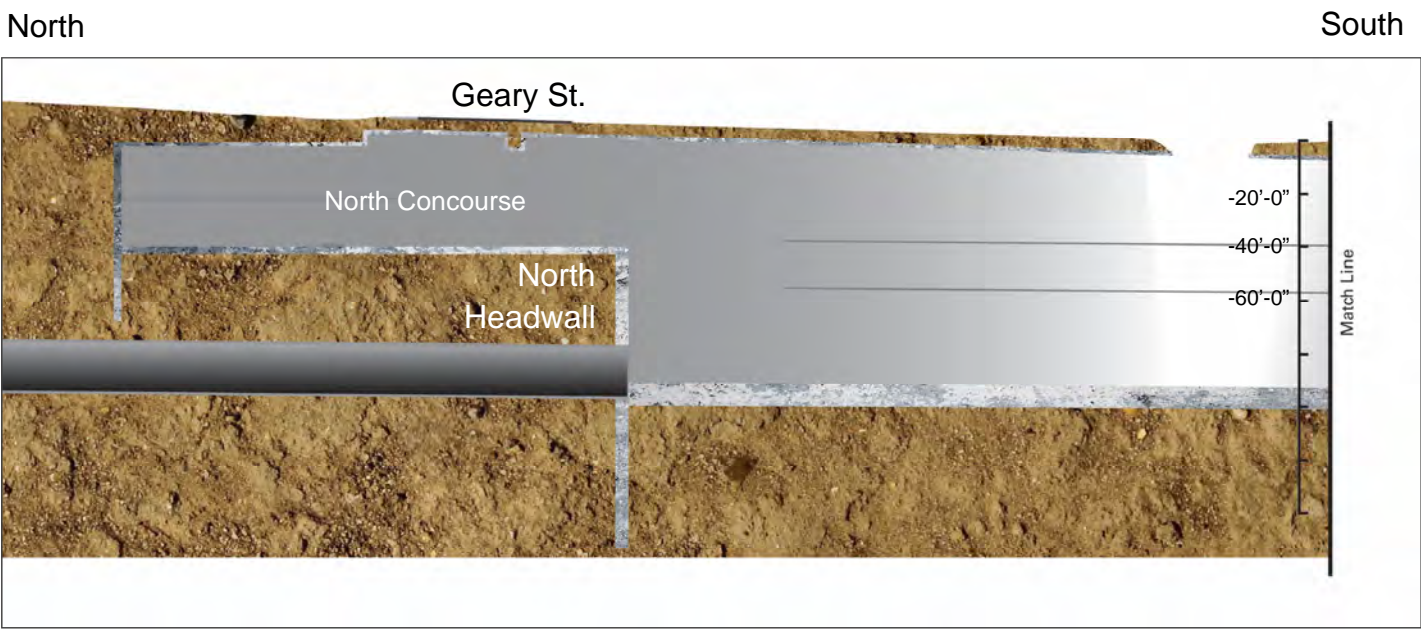
Completion of the following:

- 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

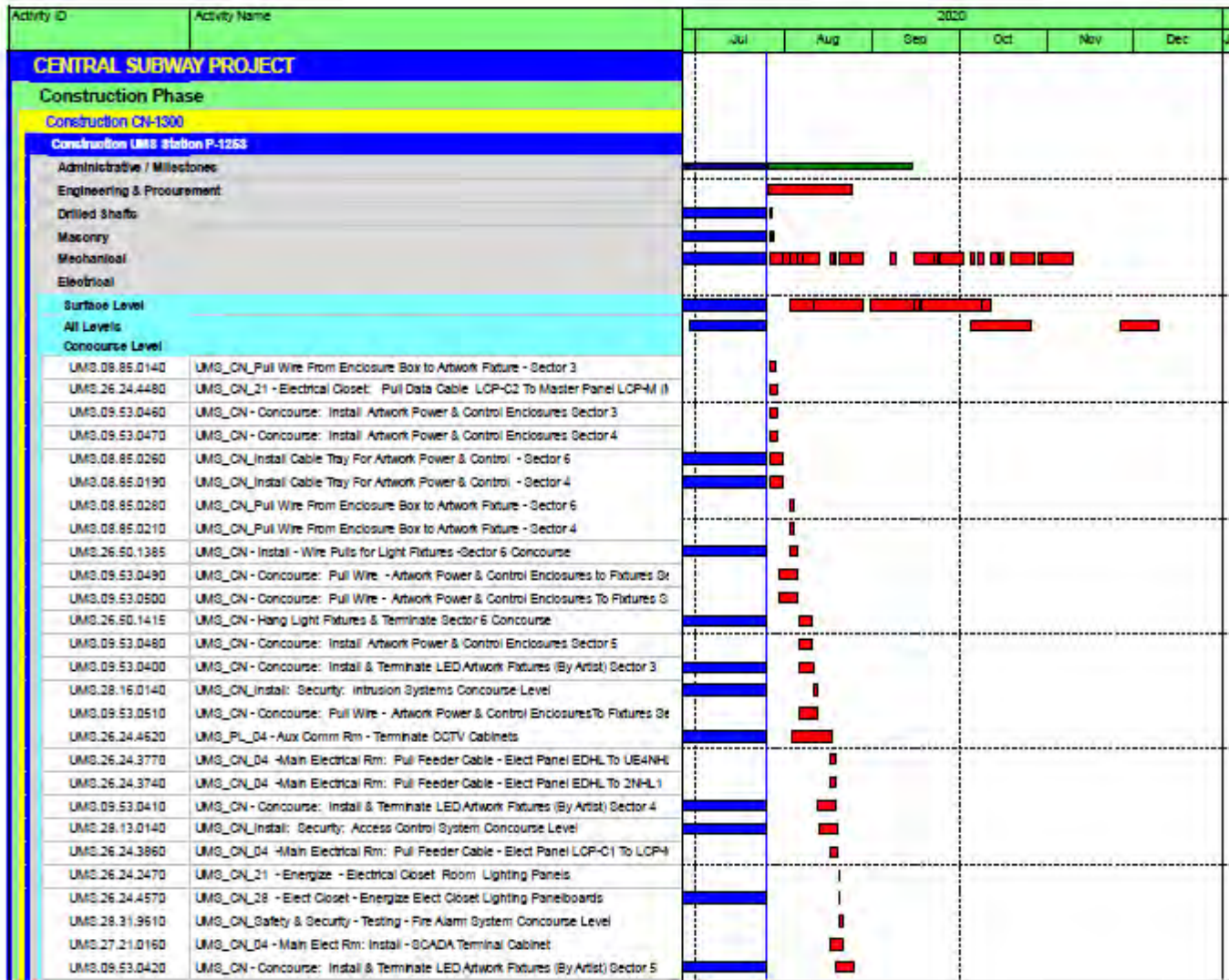


Union Square Market Street Station Construction - Continued

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 (\$):	\$7,744,337
Modifications to Date (Days):	1,052
Current Contract Value:	\$301,774,927

Budget/Expenditures, ▲	
Current Budget	\$314,030,590
Expenditures to Date	\$294,868,882

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 Escalators and 3 and 4
- Continued installing Elevators 1, 2, 3 and 4
- Installed glass rail supports, hand rail, pre-cast runnels, and SS handrails at Egress Stair 2 & 3
- Installed roof fascia and completed roofing at Headhouse roof
- Continued installing station agent booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse
- Continued roof coping, fireproofing roof, deck, steel structure, terminating roofing membrane at curbs at Headhouse Roof
- Continued installing door frames and doors at Headhouse Mezzanine
- Began preparations for terrazzo vapor barrier to install terrazzo fill around escalators and elevator fronts at House Concourse
- Installed metal wall panels and removed all scaffolds at Headhouse Concourse
- Complete hot water heater installation, restrooms, sewer ejectors at Headhouse Concourse
- Continued polishing and sealing terrazzo at Platform
- Continued Systems startup and Acceptance Testing
- Installed waterproof plaza deck, pavers, coupler, bolts at node, rebar and poured concrete at 4th & Clementina



- Continue installing glass rail supports, hand rail, precast runnels, and SS handrails at Egress Stair 2 & 3
- Continue installing roof fascia and completed roofing at Headhouse roof
- Continue installing metal wall panels, station agent booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse
- Continue roof coping, fireproofing roof, deck, steel structure, terminating roofing membrane at curbs at Headhouse Roof
- Continue installing door frames and doors at Headhouse Mezzanine
- Continue preparations for terrazzo vapor barrier to install terrazzo fill around escalators and elevator fronts at House Concourse
- Complete restrooms and sewer ejectors at Headhouse Concourse
- Continue polishing and sealing terrazzo at Platform
- Install drain and C Channel at beam room at Platform
- Install access doors for deluge area at Station Invert
- Continue Systems startup and Acceptance Testing

Work Expected Next Month

- Continue installing Escalators and 3 and 4
- Continue installing Elevators 1, 2, 3 and 4

Yerba Buena/Moscone Station

Contract 1300 - Work Package 1255

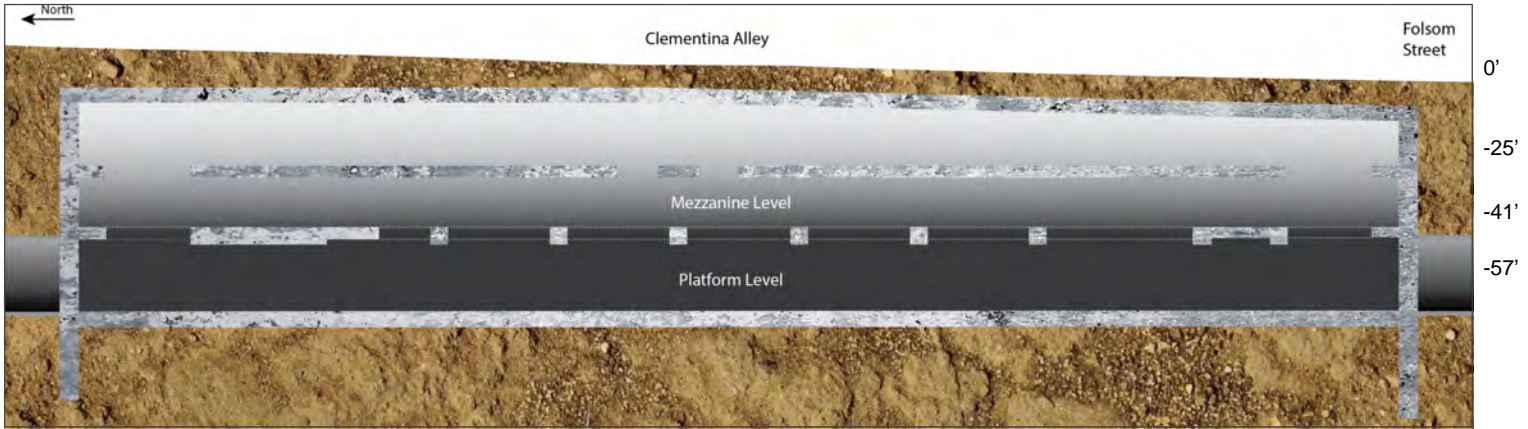
Three Month Look Ahead

- 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

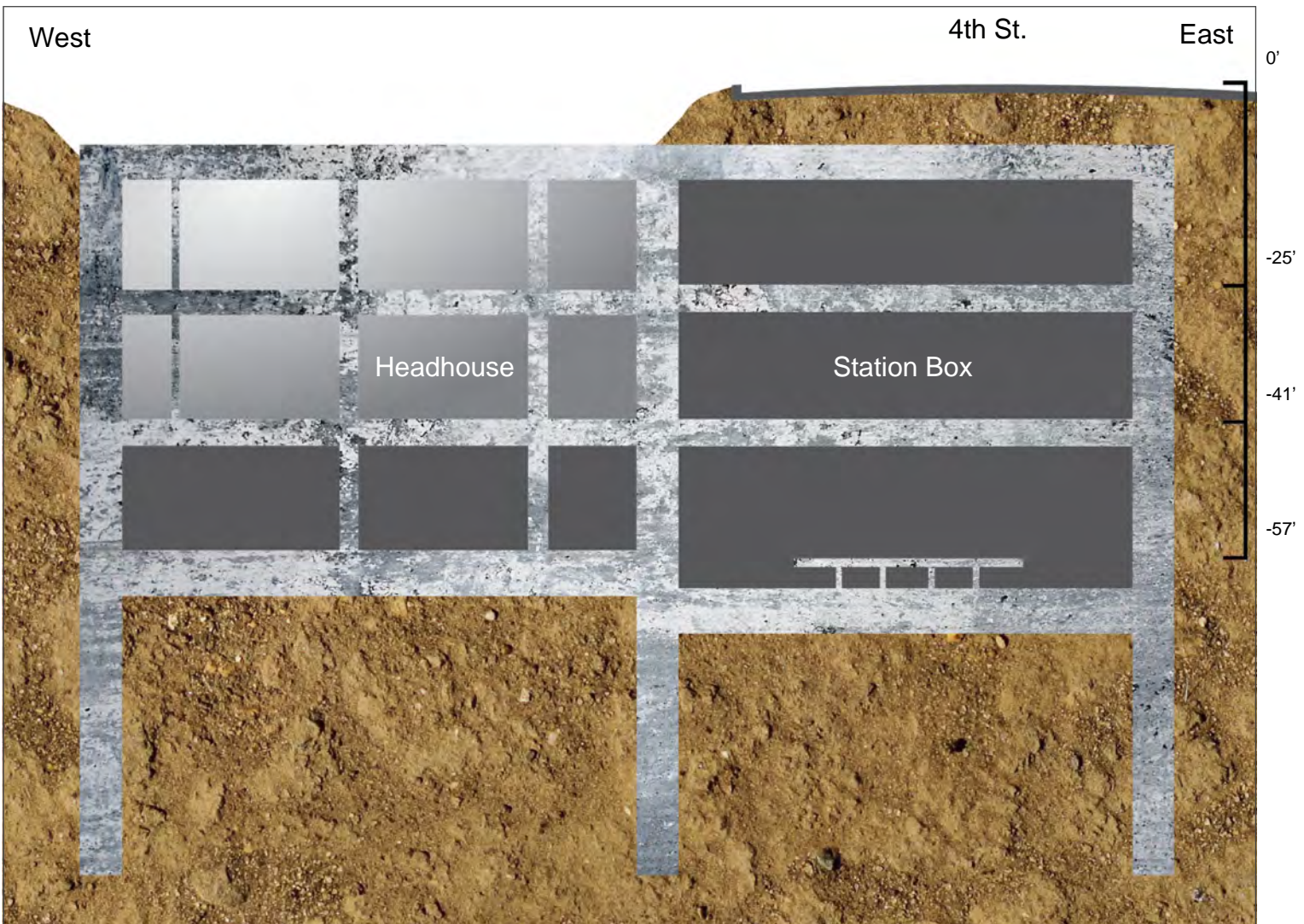
South



West

4th St.

East



Yerba Buena Moscone Station Construction - Continued

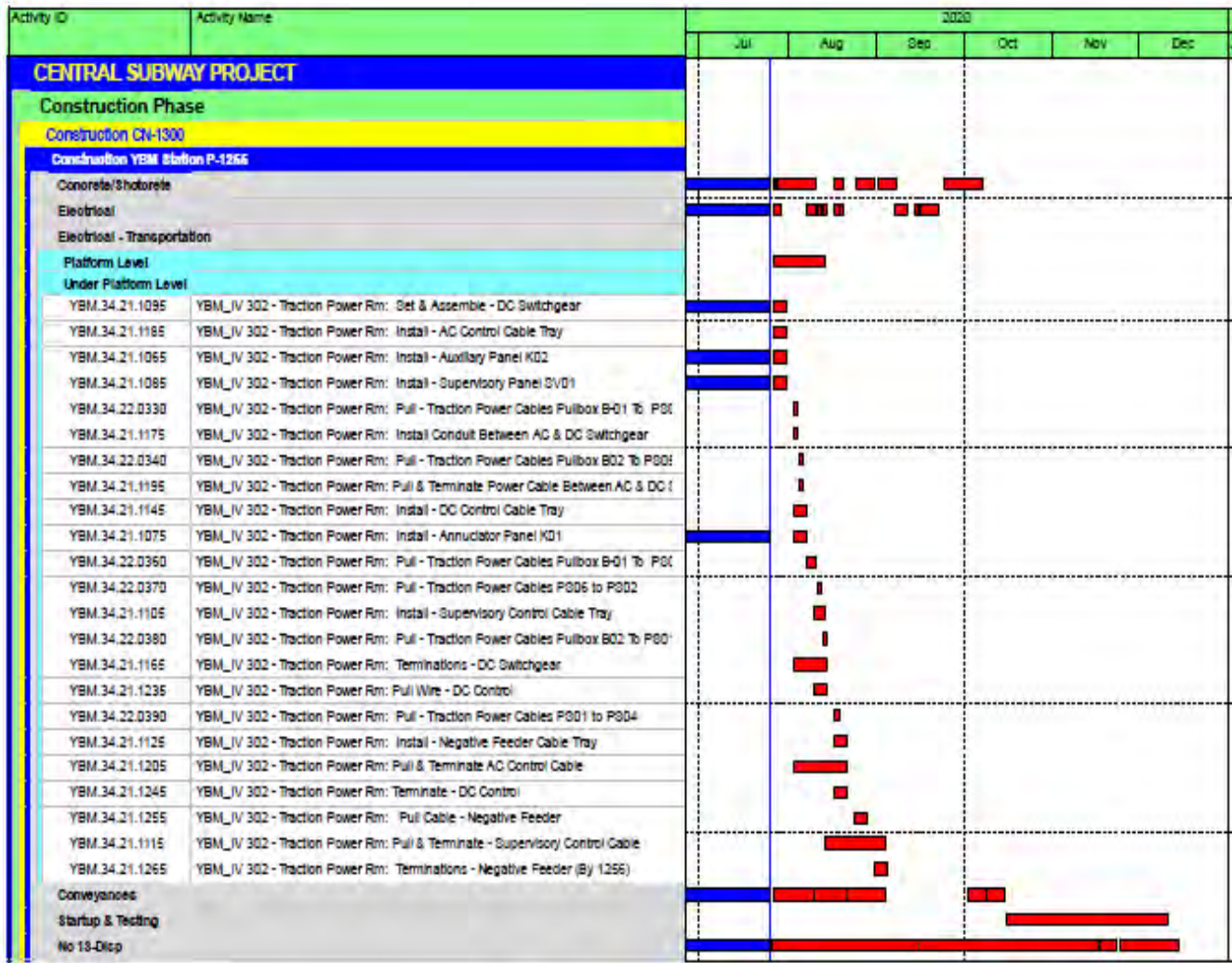
Contract Details

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 (\$):	\$4,889,959
Modifications to Date (Days):	1,052
Current Contract Value:	\$162,978,959

Budget/Expenditures ▲

Current Budget	\$163,089,000
Other Project Offset Credits	\$390,331
Expenditures to Date	\$158,295,618

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
- 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
- Started installation of blast doors at tunnel Cross-passages

Work Expected Next Month

- Continue 4th/Brannan platform construction
- 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 and tunnel signage installation
- Complete installation of end of platform emergency stairs at station interfaces
- Continue installation of blast doors at tunnel Cross-passages



- Complete trackwork at 4th/King intersection

Three Month Look Ahead

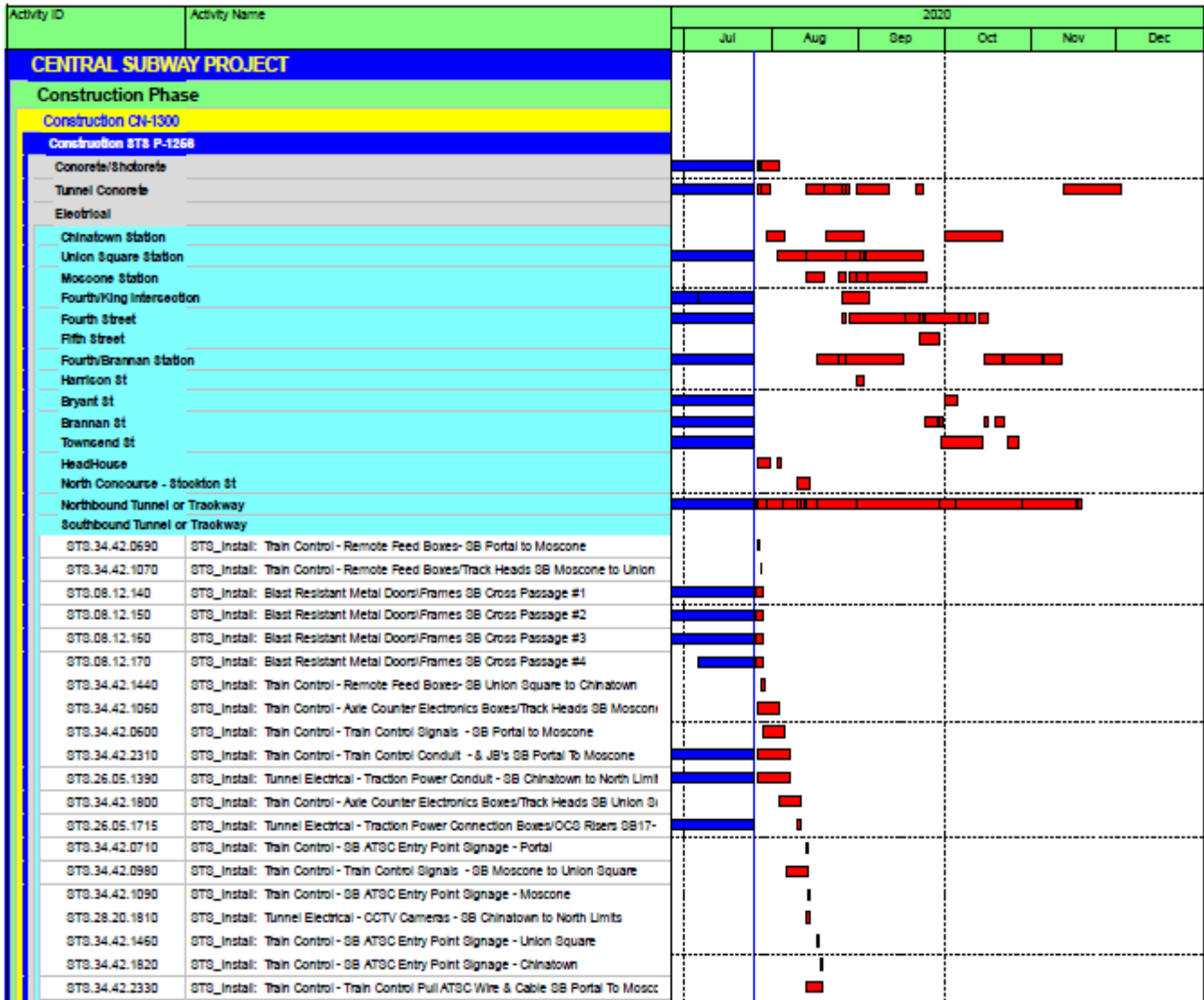
- Complete OCS/street light pole installation
 - Continue OCS support/wire installation in tunnel and on 4th Street
 - Continue 4th/Brannan platform construction
 - Continue electrical conduit installation inside tunnel for CCTV, telephone, tunnel lighting and tunnel electrical
 - Continue tunnel lighting, mini power, OCS hanger, ATCS 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 tie in for track work and surface signaling to existing system at 4th/King
- 28 Start fiber and radio 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 (\$):	\$20,180,399
Modifications to Date (Days):	1,052
Current Contract Value:	\$160,169,399

Budget/Expenditures	
Current Budget	\$126,952,290
Other Project Offset Credits	\$2,657,766
Expenditures to Date	\$141,458,767

Systems, Track and Surface Station Three Month Schedule



Program Components

Community Outreach

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

- 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

Media coverage

Central Subway Media Coverage			
Date	Title (with link to story)	Source	Reporter/
7/10/2020	13 steps to becoming a car-free city	San Francisco Chronicle	Peter Hartlaub

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): 35 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: 8 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: 30 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: 417 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)
- ◇ 553 CNCRs are currently posted to the CNCR Log
- ◇ 83 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 July 2, 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.

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 will request an extension of the Revenue Service Date with 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 has reported two additional cases to increase the total to twelve positive cases within their labor forces. The additional cases are within TPC labor forces. The additional cases are quarantined as required by the Safety and Security Plan. Others that have tested positive have returned back to work after passing the requirement to return 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 continues 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 July, there were five recordable injuries; one lower back injury, one right shoulder and elbow pain, one cut to tip of finger and two cases of foreign body in eye.

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

Through Month End July 2020

SAFETY GOALS

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

JOB TO DATE

	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	38	8	46	2.11
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	2.62
Man Hours Worked Through M/E July 2020	2,117,216	2,240,491	4,357,708	

YEAR TO DATE (Month ,Day, Year to Month, Day, Year)

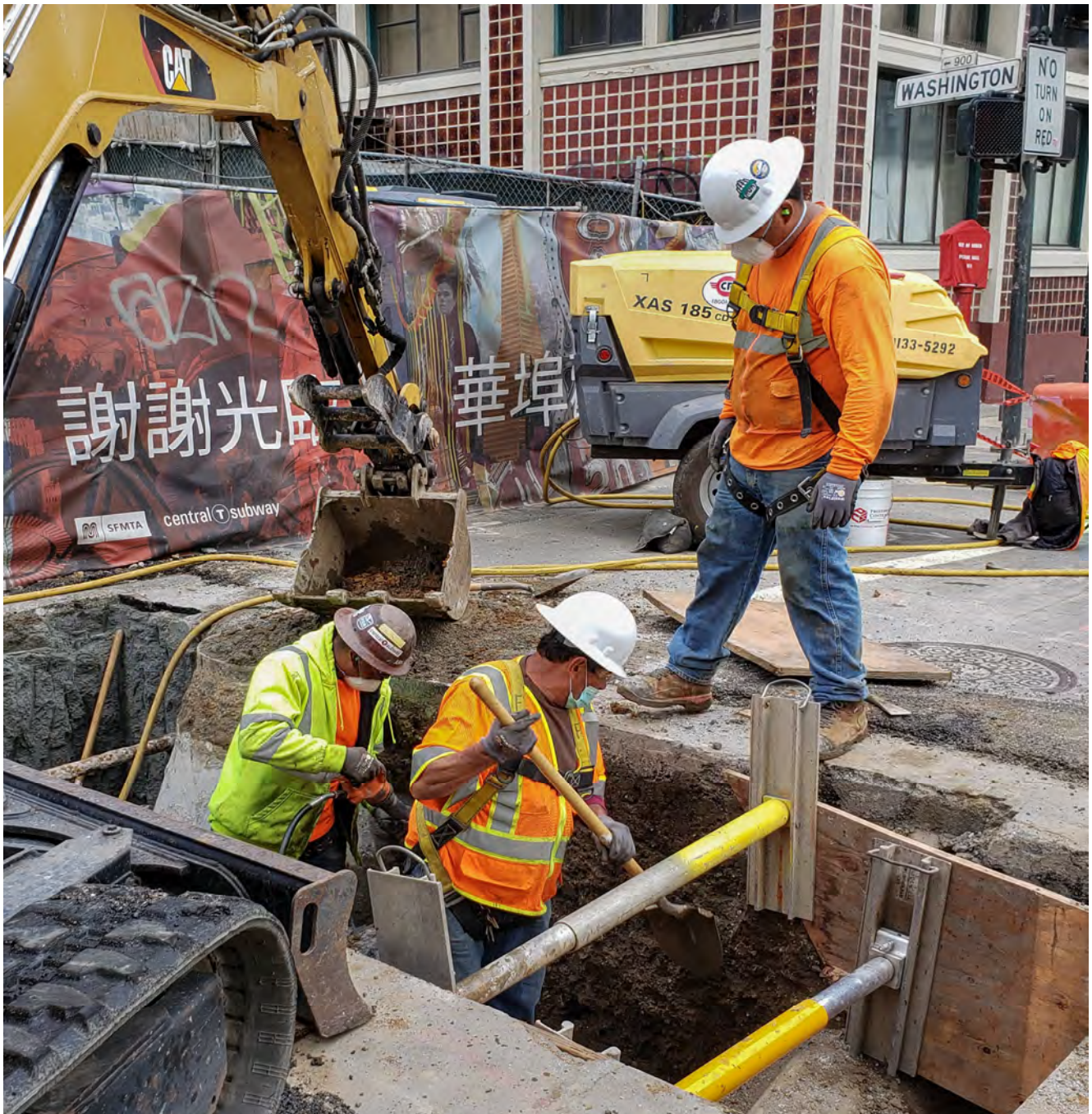
	Tutor	Subs	Total Project	Rate*
OSHA Recordable Accidents	7	2	9	4.92
Job Transfer or Restricted Duty Cases	0	0	0	0.00
Lost Time Cases	0	0	0	0.00
Total Project Incidents	0	0	0	0.00
Man Hours Worked Through M/E July 2020	122,726	243,246	365,971	

* 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 Contract Modification process to ensure that the program catches up to the backlog. These additional staff will supplement the existing staff to properly support ongoing effort to complete the project.



Workers excavate and shore up a trench for utility laterals adjacent to the 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.

	May-2020		Jun-2020		Jul-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	1.80	1.00	1.80	1.00	1.80	1.00
Contract Administration	1.40	8.15	1.40	8.15	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	20.55	22.10	19.40
Construction Management						
CM - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
CM - CN 1300	21.55	24.75	21.55	24.75	21.55	34.10
Design Support - CN 1252	0.00	0.00	0.00	0.00	0.00	0.00
Design Support - CN 1300	9.00	13.00	9.00	13.00	9.00	13.00
Subtotal	30.55	37.75	30.55	37.75	30.55	47.10
Start Up						
Start Up / Safety & Security	5.95	1.20	5.95	1.20	5.95	4.00
Subtotal	5.95	1.20	5.95	1.20	5.95	4.00
Total	58.60	59.50	58.60	59.50	58.60	70.50

*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.



Utilities, conduits, and permanent lighting are being extended from 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)





Architectural glass panels are being installed along adjacent to escalators at Ticketing Hall of Rose Pak-Chinatown Station.



Structural beams and corrugated steel panels which will hold the future Rose Pak-Chinatown Station rooftop plaza are being placed and installed.



Precast stairs and planters have been installed and landscaping work is being performed at Union Square/Market Street Station terrace



Installed Artwork Lighting at Union Square/Market Street Station concourse.



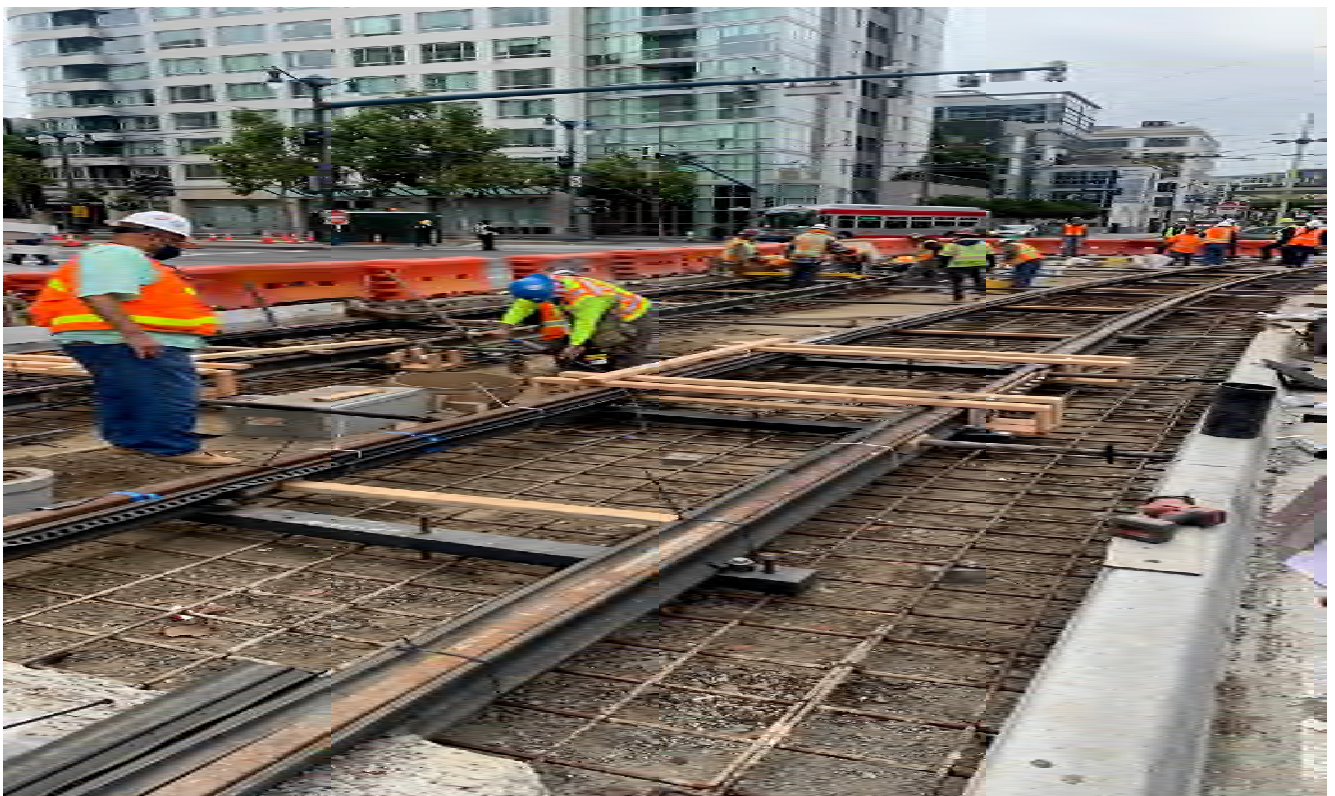
Workers installing pavers at Yerba Buena/Moscone Station surface.



A worker operating a concrete floor grinder to smooth rough surfaces of the floor for Yerba Buena/Moscone Station concourse.



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



Crews work to connect the Central Subway tracks to the existing T Line at 4th and King Streets.

Appendix A

DETAIL COST REPORTS

*July 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 continues to evaluate the Estimate at Completion (EAC) and has presented information to the SFMTA Board. 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 \$1.626B or \$48M 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 and the funds are identified, the team will revised the various cost sheet 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 has received the commitment from the SFMTA Finance and Grants is to identify additional funds needed to complete the project.

Total net incurred costs for the project are \$1,557.53 million, a \$13.91 million increase over last month. The cost to date figure reflects expenditures through FAMIS 786 Report (\$1,527.42 million) plus the utilities joint trench Form B Reimbursement payment (\$12.51 million), invoices currently being processed (\$23.02 million) and estimates of outstanding pay requests (credit of \$5.39 million). This incurred amount equals 98.7% of 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.

CONTRACT	PP NO	PP PERIOD	PROG PYMT
		TO	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	122	4/30/2020	\$ 304,412.00
CS155.2	123	5/31/2020	\$ 333,000.73
CS155.3	119	2/29/2020	\$ 179,287.12
CS155.3	120	3/31/2020	\$ 226,311.16
CS155.3	121	4/30/2020	\$ 187,334.95
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

CONTRACT	PP NO	PP PERIOD	PROG PYMT
		TO	AMOUNT
CN1300	78	5/31/2020	\$ 6,194,011.00
CN1300	79	6/30/2020	\$ 6,452,077.00
CN1300	80	7/31/2020	\$ 8,151,623.00
CS149	134	1/31/2020	\$ 990,726.00
CS149*	135	2/29/2020	\$ 1,310,686.57
CS149*	136	3/31/2020	\$ 1,365,000.00
CS149*	137	4/30/2020	\$ 1,365,000.00
CS149*	138	5/31/2020	\$ 1,365,000.00
CS149*	139	6/30/2020	\$ 1,365,000.00
CS149*	140	7/31/2020	\$ 1,365,000.00
other accruals*		7/31/2020	\$ (14,926,686.03)

* Estimated Amount

\$ 17,630,398.81

2. CONTINGENCY ALLOCATIONS AND USAGE

The current Total Project Contingency is negative \$53.65 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 three contract modification in the amount of \$18,797,805. Refer to Report 7.5 for approved contract modifications and potential changes.

3. BUDGET TRANSFERS

CN1300 Station processed two contract modifications in the amount of \$17,587,360 in SCC 50 category and one contract modification in the amount of \$1,210,445 in SCC 40 category. 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 July 2020 Report, the Preliminary Earned Value Analysis reports is based on the SFMTA July Schedule Update. The Planned Value, Earned Value, Actual Cost, Percent Complete and resulting indexes as follows:

Preliminary July Earned Value

Overall Budgeted Cost:	\$1,578,300,000
Planned Value:	\$1,592,567,980
Earned Value:	\$1,471,276,361
Actual Cost:	\$1,557,531,474
Schedule Performance Index (SPI):	0.92
Cost Performance Index (CPI):	0.94
Percent Complete:	92.3%

SFMTA, EV Chart
 JULY 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)	CFI	SPI
CENTRAL SUBWAY PROJECT										
	Preliminary Engineering Phase	03-Jun-03 A	07-Dec-23	92.33%	\$1,578,299,999.95	\$1,592,567,979.86	\$1,471,276,361.04	\$1,557,531,473.84	0.94	0.92
	Final Design	08-Jan-10 A	17-Jun-13 A	100%	\$46,542,061.34	\$46,542,061.02	\$46,542,061.02	\$46,542,060.53	1.00	1.00
	Light Rail Vehicles	15-Apr-13 A	26-Jan-21	8.25%	\$16,800,000.00	\$26,385,653.00	\$2,177,131.58	\$11,929,246.72	1.01	1.00
	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	03-Jan-10 A	03-Feb-23	93.49%	\$1,360,858,864.80	\$1,357,638,927.29	\$1,270,075,286.38	\$1,354,564,632.07	0.94	0.94
	Construction Support and Coats	03-Jan-10 A	03-Feb-23	96.28%	\$210,224,127.80	\$199,662,849.06	\$196,420,237.32	\$206,940,391.55	0.95	0.96
	Construction Utility Contract #1 - MGS & 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%	\$20,669,081.47	\$20,794,562.00	\$20,794,562.00	\$20,669,081.47	1.01	1.00
	Construction Tunnels CN-1262	08-Jun-11 A	27-Jul-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	22-Jan-21	53.87%	\$18,036,709.00	\$17,113,669.97	\$9,715,504.32	\$10,674,889.00	0.91	0.57
	Construction STS P-XXXX Radio	27-Aug-19 A	02-Apr-21	0.8%	\$4,809,852.50	\$4,841,950.49	\$38,735.60	\$32,098.00	1.21	0.01
	Construction CN-1300	03-Jun-13 A	11-Apr-21	93.61%	\$661,639,691.00	\$651,988,678.54	\$797,529,102.86	\$870,718,768.71	0.92	0.94
	Unallocated Contingency	27-Jul-20	28-Dec-21	0%	\$6,882,669.00	\$9,519,456.49	\$0.00	\$0.00	0.00	0.00
	Project Management	29-Dec-21	07-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.

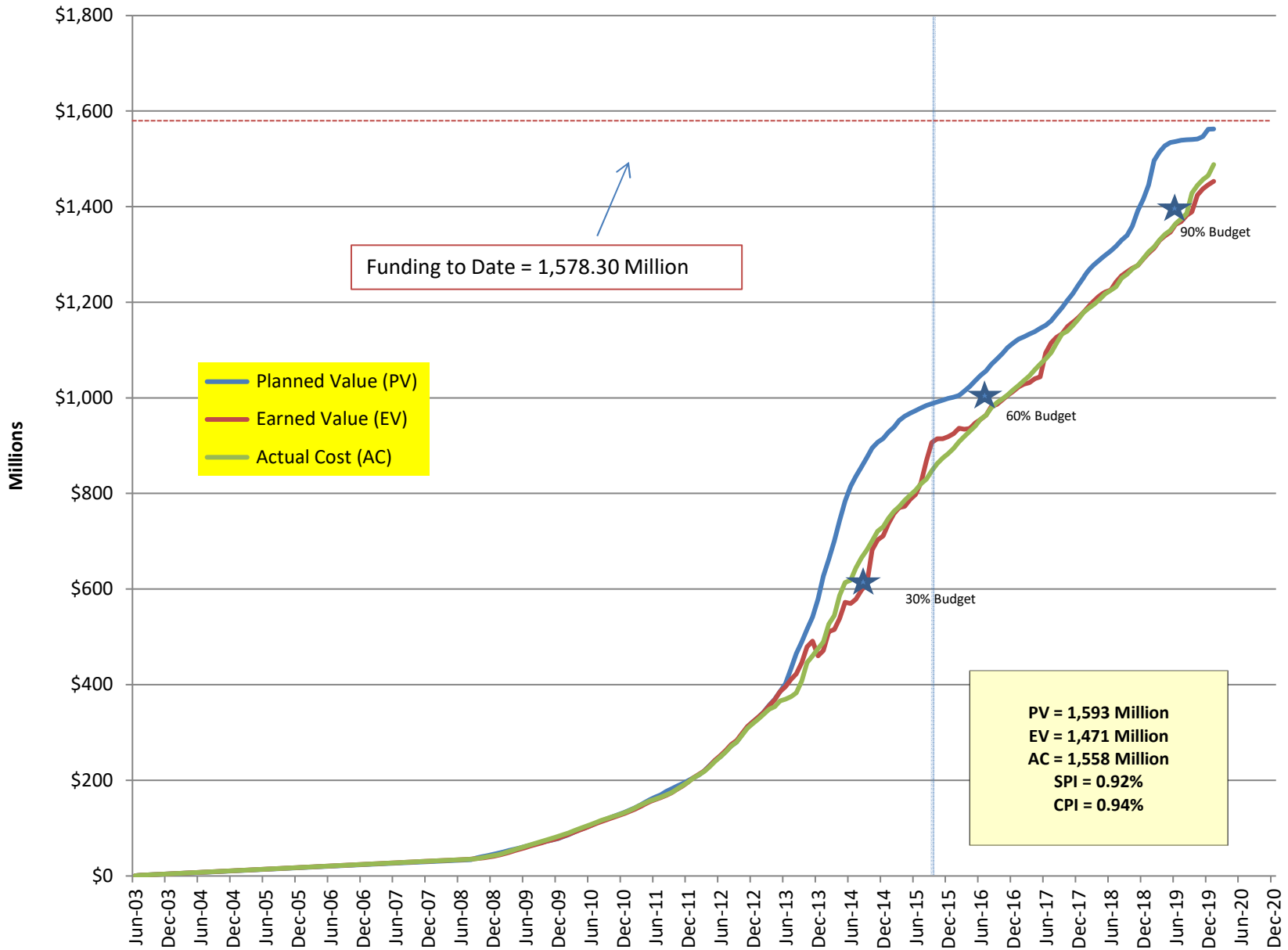
Funding Available Table		
	Funding	
	Committed Funding Sources	Total Awarded Funds to Date
Federal		
Sect. 5309-NS	\$942,200	\$942,200
Sect. 5307-OBAG	\$15,980	\$15,980
CMAQ	\$41,025	\$41,025
Federal Subtotal	\$999,205	\$999,205
State		
TCRP	\$14,000	\$14,000
State RIP	\$12,498	\$12,498
Prop. 1B (I-Bond)	\$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

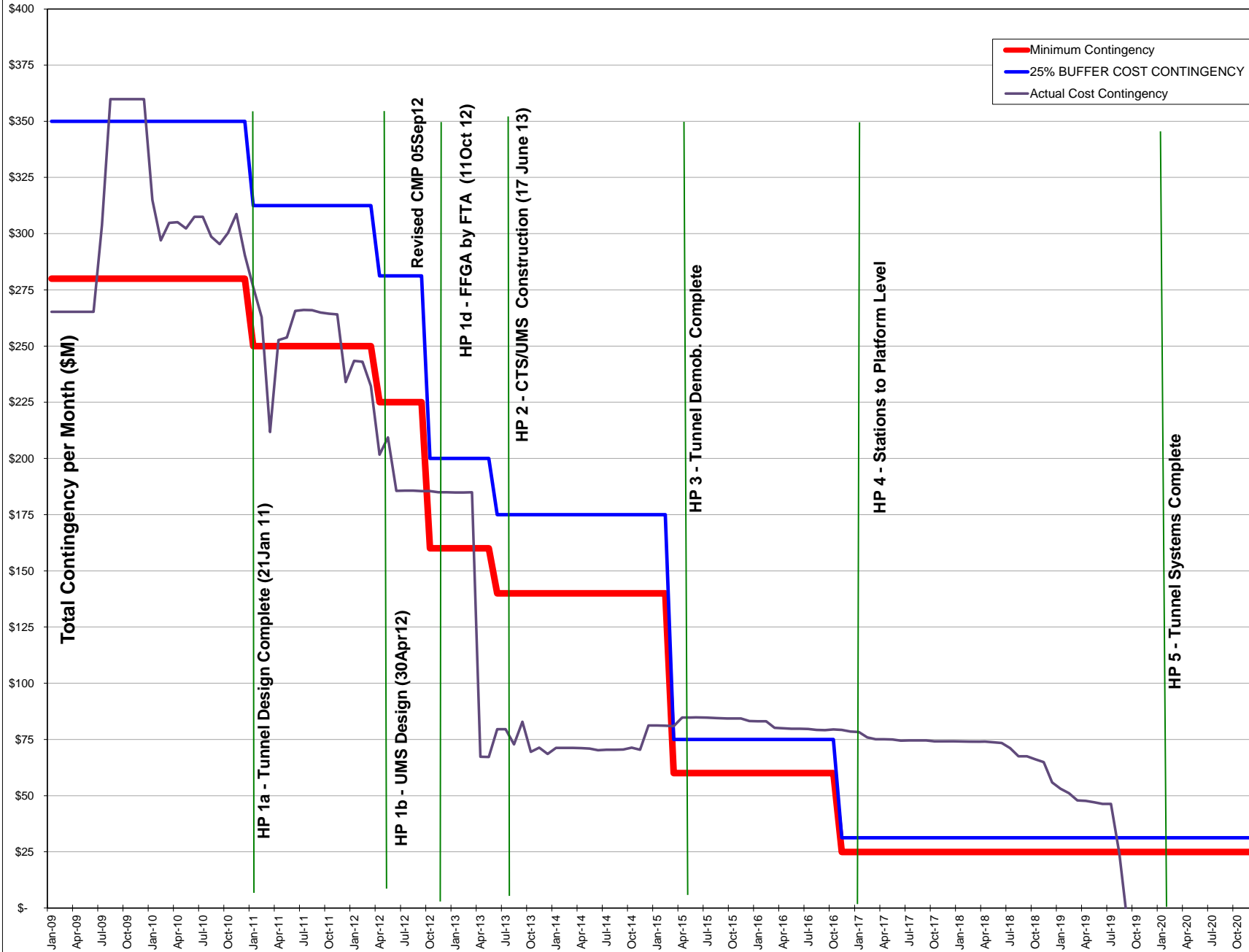
- 7.1 Program Project Budget
- 7.2 Earned Value Cash Flow
- 7.3 Contingency Drawdown Curve
- 7.4 Summary Contingency Management Trend Report
- 7.5 Detail Contingency Usage Report
- 7.6 Budget Revisions: Report sorted by Construction Packages & Soft Costs
- 7.7 Project Budget & Expenditure Report: Sorted 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 ELEMENT	CONTRACT COST					CONTINGENCY					BUDGET	VARIANCE	Cost Report Notes	
	ORIGINAL CONTRACT VALUE / September 2013 SUPPLEMENTAL BUDGET	APPROVED CHANGES	CURRENT CONTRACT VALUE	POTENTIAL CHANGES	ESTIMATE AT COMPLETION (EAC)	ORIGINAL CONTINGENCY / Sep 2013 SUPPLEMENTAL CONTINGENCY (Include CN 1250 & CN1251)	CONTINGENCY ADJUSTMENT TRANSFERS	REVISED AUTHORIZED CONTINGENCY (Include CN1250 & CN1251)	REMAINING CONTINGENCY AFTER APPROVED CHANGES DEDUCTED	REMAINING CONTINGENCY AFTER POTENTIAL CHANGES DEDUCTED [i - d]	ORIGINAL CONTRACT VALUE + REVISED AUTHORIZED CONTINGENCY	BUDGET - ESTIMATE AT COMPLETE		
	a	b	[a + b]	d	e	f	g	[f + g]	h	i	j	[j - e]	k	
SCC 10-50 CONSTRUCTION CONTRACT PACKAGES														
1250 UTILITY RELOCATION PACKAGE #1	9,273,939	2,694,211	11,968,150		11,968,150	1,953,377	740,834	2,694,211			11,968,150			18
<i>Contract 1250 Department of Technology</i>	166,756		166,756		166,756						166,756			
1251 UTILITY RELOCATION PACKAGE #2	16,832,550	3,836,531	20,669,081		20,669,081	5,367,297	(1,530,766)	3,836,531			20,669,081			19
<i>Contract 1251 Department of Technology</i>	75,615		75,615		75,615						75,615			
1252 GUIDEWAY TUNNEL	233,584,015	(72,762)	233,511,253	-	233,511,253	23,658,464	(23,731,226)	(72,763)			233,511,253		(1)	20
1300 STATIONS	839,676,400	85,014,511	924,690,911	6,797,243	931,488,154	20,000,000	20,000,000	21,963,291	(63,051,220)	(69,848,463)	861,639,691	(69,848,463)		21
1253 UNION SQUARE/MARKET ST STATION [UMS]	294,030,590	7,744,337	301,774,927	2,971,322	304,746,248	5,000,000	15,000,000	20,000,000	12,255,663	9,284,342	314,030,590	9,284,342		
1254 CHINA TOWN STATION [CTS]	247,567,810	52,199,817	299,767,627	727,787	300,495,414	5,000,000	5,000,000	10,000,000	(42,199,817)	(42,927,604)	257,567,810	(42,927,604)		22
1255 YERBA BUENA/ MOSCONE STATION [YBM]	158,089,000	4,889,959	162,978,959	1,110,281	164,089,240	5,000,000		5,000,000	110,041	(1,000,240)	163,089,000	(1,000,240)		
1256 SURFACE TRACKWORK & SYSTEMS [STS]	139,989,000	20,180,399	160,169,399	1,987,854	162,157,252	5,000,000		(13,036,709)	(33,217,108)	(35,204,961)	126,952,291	(35,204,961)		
OTHER	38,239,187	23,938,659	62,177,846		62,177,846	1,160,000	1,060,000	25,098,659	1,160,000	1,160,000	63,337,846	1,160,000		23
SCC 10 - 50 Construction Sub-total	1,137,848,462	115,411,150	1,253,259,612	6,797,243	1,260,056,855	52,139,137	(3,461,158)	53,519,929	(61,891,220)	(68,688,463)	1,191,368,391	(68,688,463)		24
SCC 60-80 SOFT COSTS PACKAGES														
60 ROW, LAND, EXISTING IMPROVEMENTS	36,511,799	(4,265,478)	32,246,321		32,246,321	1,000,000	(1,000,000)	0	0	0	32,246,321	0		25
70 VEHICLES	24,108,712	(7,308,712)	16,800,000		16,800,000	2,276,941	(2,276,941)	0	0	0	16,800,000	0		26
80 PROFESSIONAL SERVICES	310,518,041	19,126,155	329,644,196		329,644,196	18,221,079	(16,862,657)	1,358,422	1,358,422	1,358,422	331,002,618	1,358,422		26a
SCC 60 - 80 Construction Sub-total	371,138,552	7,551,965	378,690,517	0	378,690,517	21,498,020	(20,139,598)	1,358,422	1,358,422	1,358,422	380,048,939	1,358,422		
SCC 90 UNALLOCATED CONTINGENCY						3,845,945	7,608,606	11,454,551	6,882,669	6,882,669	6,882,669	6,882,669		27
TOTAL	1,508,987,014	122,963,115	1,631,950,129	6,797,243	1,638,747,372	77,483,102	(15,992,150)	66,332,902	(53,650,129)	(60,447,372)	1,578,299,999	(60,447,373)		
											Total Project Budget	1,578,300,000	28	
											Estimate At Completion	1,638,747,372	29	
											Variance	(60,447,373)	30	
Note #17 - Adjusted Contract 1252 Guideway Tunnel contingency "column g" to reflect construction contract modifications #20, #40, #41, #48, #51 and #60 were funded by other funding sources.														

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
Potential Changes	2,971,322	727,787	1,110,281	1,987,854	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	0				
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			
CTS COR 2287 T-Shaped Steel at Glas		0			
GEN COR 2116 SFMTA Prtrctd Rvw Fsk				0	
STS 2256 Elev Esc Lift-Net O&M Sub				0	
STS COR 1816 Trackway Info for PAV				0	
STS COR 1959 Assembly of Moto Ohtak				0	
STS COR 2068 STS Signage Product Da				0	
STS COR 2094 Conduit Conflict at Mo				0	
STS COR 2128 Simulated Field Accept				89,344	
STS COR 2129 Confirm Revised Routin				0	
STS COR 2145 Notice of Delay				0	
STS COR 2160 Traction Power Ductban				0	
	1 of 7				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 2188 Emergency Veticalion s				0	
STS COR 2189 Mortar Bed for Accent				0	
STS COR 2209 Emergency Ventilation				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	
STS COR 2279 S3 Signage Mounting De				0	
STS COR#2220 FSS System Programming				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 1810 Aluminum Roll Up Door		0			
CTS COR 1827 PA Mounting Detail		0			
CTS COR 1886 Specs for Alum. Comp.		0			
CTS COR 1898 Concrete Wall Rebar to		0			
CTS COR 1924 Main Power Grating		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 1622 Exist Pull Box Ramp				501	
STS COR 1634 Sewer Confl Light Pole				1,000	
STS COR 1700 Reject O&M Submittals				15,000	
STS COR 1739 Delete (4) gas line ca				(1)	
STS COR 1804 Structural Support Det				2,500	
STS COR 1874 PAV Headend Train Mvmt				0	
STS COR 1876 OCC Facility Sys Cutov				0	
STS COR 1908 Cnfrm Crss Psg Sump Pu				0	
STS COR 406 Addtl TC at 4th/King				200,760	
STS COR 890 Ex Pll Box Incon Crb Rm				1,501	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS COR 909 PGE Gas Interruption				29,350	
STS PCC 639 Spot Acceleration				234,616	
STS PCC 643 Bryant Portal ATCS Mod				197,627	
STS PCC 683 Bluxome VPI and Traffic				248,702	
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				
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 Pnls & Inst			0		
Proposed Contract Change (PCC)					
CTS PCC 456 Throat Size and Anchor		0			
CTS PCC 486 Structural Slab Changes		9,054			
CTS PCC 728 Restroom Wall at Surf		214			
CTS PCC 788 Soil Offhaul		246,942			
CTS PCC 814 H Beam Lateral Supp		25,000			
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 851 Stair Config Rev		10,000			
CTS PCC 854 Stair 6 CMU Fire Rating		5,000			
CTS PCC 858 Rev Stair 6 at Surf Lvl		12,500			
CTS PCC746 GFRC Framing Support		3,613			
STS PCC 688 OCS & SL Revisions				(50,000)	
STS PCC 741 PA PDS Accpetance Chang				77,500	
STS PCC 804 Added TPC SCADA Points				15,000	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
STS PCC 811 Relocation of MPCs				9,500	
STS PCC 815R1 Radio System Revisions				17,209	
STS PCC 831 ATCS Equip Transport				10,750	
UMC PCC 841 Damper Opening Curb Con	0				
UMS PCC 842 Relocate Supply Fans at	25,000				
YBM PCC 805 Eye Wash Sta Crsrn Inhi			10,000		
YBM PCC 817 Revise Spindle Length			5,000		
YBM PCC 824 Station Signage Revise			10,000		
YBM PCC 827 Esc Cladding Mtrl Type			126,873		
Approved	7,744,337	52,199,817	4,889,959	20,180,399	
Contract Modification					
CMod # 14 YBM COR 036, 078			58,526		
CMod #017 CTS CORs 001 053 & 069		54,322			
CMod #018 CTS PCC 012		60,248			
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 #034 CTS Various CORs		19,334			
CMod #035 STS PCC 077				11,147	
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		

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
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				
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 #127 STS Office Lease				1,845,604	
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 #16 UMS COR 184	8,261				
CMod #19 CTS COR 007, 026		2,274,225			
CMod #20 YBM PCC 047 and 45			364,562		
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		
	5 of 7				

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
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 #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 #52 YBM Undgrnd. Storage Tanks			167,393		
CMod #54 UMS USG Underpinning	732,157				
CMod #56 YBM Contaminated Material			106,923		
CMod #57 STS Crossover Materials				21,245	
CMod #58 STS DSC CORs				90,081	
CMod #59 CTS DSC CORs		66,592			
CMod #6 CTS Plaza Constr Supt Servi		75,000			
CMod #60 UMS USG Two Fuel Tanks	61,312				
CMod #61 YBM Various CORs			207,181		
CMod #62 UMS Wales and Waterproofing	277,714				
CMod #63 CTS DSC CORs		38,025			
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 #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 #79 STS PCC 014 Traffic Signal				242,427	

Contract Modification/Trend Log - Contract 1300 Stations

Awarded NTE Amount	839,676,400	\$924,690,911
Substantial Completion	12/28/2020	12/28/2020

	UMS	CTS	YBM	STS	COST REPORT NOTES
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	
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#7 STS FACOs 016, 017 & COR 009				80,170	
CMod#8 STS PCC 006 ATT MH, PB&Trench				225,208	
CTS CMod #122 Schedule Delay Costs		31,240,000			
STS CMod 045 PCC 008 Tunnel Lowering				107,285	
Grand Total	10,715,658	52,927,604	6,000,240	22,168,252	

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

Report Period: July 2020

		June 2020			July 2020				
Group by Contract & SCC	CATEGORY ITEM	June 2020 Base	June 2020 Allocated Contingency	June 2020 Base + Allocated Contingency (YOE)	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [July 2020] vs. [June 2020]	Cost Report Notes
10-50	CONSTRUCTION CONTRACT PACKAGES	1,229,619,857	(43,093,415)	1,191,368,392	1,248,417,662	(61,891,220)	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	905,893,106	(44,253,415)	861,639,691	924,690,911	(63,051,220)	861,639,691	0	33
1253: UMS	UNION SQUARE/MARKET STREET STATION [UMS]	301,774,927	12,255,663	314,030,590	301,774,927	12,255,663	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	299,767,627	(42,199,817)	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	162,978,959	110,042	163,089,001	0	
	YBM 1255 Form B Credit	(100,000)		(100,000)	(100,000)		(100,000)	0	
1256: STS	SURFACE TRACKWORK & SYSTEMS [STS]	141,371,594	(14,419,304)	126,952,290	160,169,399	(33,217,109)	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: July 2020

		June 2020			July 2020				
Group by Contract & SCC	CATEGORY ITEM	June 2020 Base	June 2020 Allocated Contingency	June 2020 Base + Allocated Contingency (YOE)	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [July 2020] vs. [June 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	329,644,196	1,358,422	331,002,618	0	
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	89,244,281	0	89,244,281	0	36a

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

Report Period: July 2020

		June 2020			July 2020				
Group by Contract & SCC	CATEGORY ITEM	June 2020 Base	June 2020 Allocated Contingency	June 2020 Base + Allocated Contingency (YOE)	July 2020 Base	July 2020 Allocated Contingency	July 2020 Base + Allocated Contingency (YOE)	BUDGET TRANSFERS [July 2020] vs. [June 2020]	Cost Report Notes
80.04	CONSTRUCTION ADMINISTRATION & MANAGEMENT	109,991,299	0	109,991,299	109,991,299	0	109,991,299	0	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	1,608,310,374	(41,734,993)	1,571,417,331	1,627,108,179	(60,532,798)	1,571,417,331	0	37
90	UNALLOCATED CONTINGENCIES			6,882,672			6,882,672	0	38
	TOTAL PROJECT COST 10 TO 100			1,578,300,003			1,578,300,003		
	TOTAL CONTINGENCY			(34,852,321)			(53,650,126)		
	CONTINGENCY MINIMUM			25,000,000			25,000,000		
	BELOW OR ABOVE MINIMUM			(59,852,321)			(78,650,126)		

COST STATUS BY CATEGORY	SCC CODES	Sum of Supplemental 2013 Budget	BUDGET June 2019	BUDGET TRANSFERS	BUDGET July 2020	Sum of July 2020	Remaining Budget (Column H-Column I)	July 2020 EAC	July 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	283,370,805	890,644	284,261,448	0	39
STATIONS, STOPS, TERMINALS, INTERMODAL	SCC 020	573,099,645	520,822,512	(18,797,805)	502,024,707	536,761,644	(34,736,937)	565,933,313	(63,051,220)	39
SITework & SPECIAL CONDITIONS	SCC 040	235,514,097	285,646,655	1,210,445	286,857,100	286,610,442	246,658	291,371,047	1,160,000	39
SYSTEMS	SCC 050	90,774,397	100,637,776	17,587,360	118,225,136	82,857,553	35,367,583	118,491,047		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	61,200,826	117,506	61,318,331		
PM FOR DESIGN & CONSTRUCTION	SCC 080.03 - 080.04	197,146,664	199,235,580	-	199,235,580	204,413,835	(5,178,255)	199,235,580	0	39
OTHER PROF SRVCS	SCC 080.05 - 080.08	24,416,118	24,246,033	-	24,246,033	13,535,479	10,710,554	22,887,611	1,358,422	
UNALLOC CONTINGENCY	SCC 090	3,883,480	6,882,669	-	6,882,669		6,882,669		6,882,672	39
Grand Total		1,578,300,000	1,578,300,000	-	1,578,300,000	1,557,531,473	20,768,527	1,638,747,372	(53,850,136)	

SCC DESCRIPTION	July 2020 BUDGET	July 2020 CTD
010 - GUIDEWAY & TRACK ELEMENTS	284,261,448	283,370,805
020 - STATIONS, STOPS, TERMINALS, INTERMODAL	502,024,707	536,761,644
040 - SITEWORK & SPECIAL CONDITIONS	286,857,100	286,610,442
050 - SYSTEMS	118,225,136	82,857,553
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)	331,002,618	325,352,814
090 - UNALLOCATED CONTINGENCY	6,882,669	
Grand Total	1,578,300,000	1,557,531,473

SCC DESCRIPTION	July 2020 BUDGET	July 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	199,812,118
010.09-Track: Direct fixation	6,761,089	6,753,340
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	6,439,978
020.02-Aerial station, stop, shelter, mall, terminal, platform	(33,217,109)	0
020.03-Underground station, stop, shelter, mall, terminal, platform	495,966,883	510,280,343
020.04-OTHER STATIONS, LANDING, TERMINALS: INTERMODAL, FERRY, TROLLEY, ETC	9,360,183	0
020.07-Elevators, escalators	22,311,892	20,041,323
040.01-Demolition, Clearing, Earthwork	12,754,615	12,495,015
040.02-Site Utilities, Utility Relocation	68,753,443	78,711,971
040.03-Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	9,423,125	8,366,564
040.04-Environmental mitigation, e.g. wetlands, historic/archeologic, parks	1,122,899	1,010,669
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	5,220,933
040.07-Automobile, bus, van accessways including roads, parking lots	6,579,099	6,353,220
040.08-Temporary Facilities and other indirect costs during construction	175,726,494	171,745,640
050.01-Train control and signals	44,211,988	37,610,820
050.02-Traffic signals and crossing protection	12,804,956	12,180,741
050.03-Traction power supply: substations	21,465,073	19,575,832
050.04-Traction power distribution: catenary and third rail	12,441,113	3,553,743
050.05-Communications	18,587,420	7,865,563
050.06-Fare collection system and equipment	6,100,000	627,988
050.07-Central Control	2,614,586	1,442,866
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	61,200,826
080.03-Project Management for Design and Construction	82,244,281	82,260,633
080.04-Construction Administration & Management	116,991,299	122,153,202
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	906,553
080.08-Start up	8,300,329	0
090.00-Unallocated Contingency	6,882,669	
Grand Total	1,578,300,000	1,557,531,473

[A] Cost Account Description	[B] July 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 (CAPTITAL)	17,462	17,462	0	0	17,462	0	
36 - DPW - BSM INFRASTRUCTURE (MAPPING)	76,549	76,549	0	0	76,549	0	
39 - DPW - PCS SITE ASSESSMENT & REMEDIATION (SAR)	13,993	13,993	0	0	13,993	0	
51 - 821 HOWARD STREET	1,005,653	1,005,653	0	0	1,005,653	0	
55 - 651 BRANNAN	2,294,910	2,294,910	0	0	2,294,910	0	45
63 - CENTRAL SUBWAY PARTNERSHIP - AECOM-EPC JV CONTRA	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	0	0	0	0	0	0	
TOTAL FINAL DESIGN	115,075,988	113,952,470	0	0	113,952,470	1,123,518	
11 - SFMTA PROJECT MANAGEMENT	16,500,000	17,584,986	515,055	109,870	17,694,857	(1,194,857)	
1.3.011.01.080.03 - CM:SFMTA LABOR-PROJECT MANAGEMENT	16,500,000	17,584,986	515,055	109,870	17,694,857	(1,194,857)	
12 - SFMTA ENGINEERING SERVICES	2,923,582	3,000,914	48,938	14,573	3,015,487	(91,905)	
1.3.012.02.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT I	123,582	57,648	0	0	57,648	65,934	
1.3.012.06.080.04 - CM: SFMTA LABOR-ENGINEERING CONTRACT I	2,800,000	2,943,266	48,938	14,573	2,957,839	(157,839)	
13 - SFMTA CONSTRUCTION MANAGEMENT	25,432,035	23,919,219	547,575	125,582	24,044,802	1,387,233	
1.3.013.01.080.04 - CM:SFMTA LABOR-CONSTR. MANAGEM	25,432,035	23,919,219	547,575	125,582	24,044,802	1,387,233	
16 - DEPARTMENT OF PARKING AND TRAFFIC (DPT)	3,659,313	2,710,200	32,633	9,119	2,719,319	939,994	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT UMS	299,600	352,762	26,063	8,462	361,224	(61,624)	

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1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT CTS	274,900	145,633	2,243	459	146,092	128,808	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT YBM	238,400	224,412	1,863	0	224,412	13,988	
1.3.016.01.080.04 - DPT CONTRACT 1300 SUPPORT STS	876,876	288,114	2,458	199	288,313	588,563	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B84]	0	1,464	0	0	1,464	(1,464)	
1.3.016.02.040.08 - DPT: FIELD OPS TUNNEL [B86]	0	204,261	0	0	204,261	(204,261)	
1.3.016.06.040.02 - DPT:DPT TRAFFIC SHOP CONTRACT 1300	1,200,000	0	0	0	0	1,200,000	
1.3.016.08.040.08 - DPT:PCOS:2UTL [68A]	400,728	400,728	0	0	400,728	0	
1.3.016.08.040.08 - DPT:SSD CN:2UTL	0	108,020	0	0	108,020	(108,020)	
1.3.016.08.080.04 - DPT:SSD [1326]	252,536	252,536	0	0	252,536	0	
1.3.016.08.080.04 - DPT:SSD [13BN]	23,302	23,302	0	0	23,302	0	
1.3.016.08.080.04 - DPT:SSD [13CN]	963	963	0	0	963	0	
1.3.016.08.080.04 - DPT:SSD [B85]	92,008	92,008	0	0	92,008	0	
1.3.016.03.040.08 - PCOS:1300/UMS [68CPT544132W.CPT544132W]	0	163,411	5	0	163,411	(163,411)	
1.3.016.04.040.08 - PCOS:1300/CTS [68CPT544132X.CPT544132X]	0	0	0	0	0	0	
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	124,707	1,091	2,753	127,460	272,540	
1.3.018.04.040.02 - OPS:SUPPORT TO CONTRACT 1300/CTS	100,000	37,841	1,091	2,753	40,594	59,406	
1.3.018.06.080.07 - OPS:SUPPORT TO CONTRACT 1300 - UMS O/L	50,255	72,185	0	0	72,185	(21,930)	
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 DUR1	848,200	817,966	0	0	817,966	30,234	
21 - ARTS COMMISSION	12,010,886	6,094,592	13,498	41,645	6,136,237	5,874,648	
1.3.021.01.040.06 - ARTS:CTYCO-ARTS COMMISSION CONSTRUCT	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 [PWE335MPFU	21,000	12,465	0	0	12,465	8,535	
1.3.021.06.080.03 - ARTS:CTYCO-ARTS COMMISSION PM [285MC.13	834,264	909,166	10,929	7,536	916,702	(82,437)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWA335MPFU	10,149	11,093	0	0	11,093	(944)	
1.3.021.01.080.03 - ARTS:CTYCO-ARTS COMMISSION [PWE335MPFU	4,439	4,439	0	0	4,439	0	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [68CPT544132	1,393,660	1,393,660	0	0	1,393,660	0	
1.3.021.06.040.06 - ARTS:CTYCO-ARTS COMMISSION [285MCPFUNA	3,011,963	3,375,602	2,570	34,110	3,409,712	(397,749)	
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	2,125,754	120	677,076	2,802,830	(631,049)	
1.3.023.01.080.06 - ATTY:CN LEGAL-CITY ATTORNEY OF	2,171,781	2,125,754	120	677,076	2,802,830	(631,049)	

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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	(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	4,228,366	52,878	5,827	4,234,193	7,819	
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	510,208	0	820	511,028	(112,628)	
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	0	632,056	(25,702)	
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	201,959	0	1,554	203,513	68,242	
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	1,883	0	503,518	(53,236)	
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 MATER	225,079	249,247	0	0	249,247	(24,168)	
1.3.028.07.040.02 - PUC:PUC CDD WATER CONNECTION CONTRAC	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 CONTRAC	0	88,879	49,303	0	88,879	(88,879)	
1.3.028.08.040.02 - PUC:PUC CDD WATER CONNECTION CONTRAC	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	487,052	1,692	3,453	490,505	29,572	
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	559,778	0	985	560,763	589,696	
1.3.032.01.080.04 - CM:DPW:1424J-BUREAU OF ENGINEERING (BOE	(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.CPT544112B	85,275	85,275	0	0	85,275	0	53
1.3.032.06.080.04-1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112C	109,658	109,658	0	0	109,658	0	54
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112D	15,791	15,791	0	0	15,791	0	55
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112E	11,193	11,193	0	0	11,193	0	56
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112F	107,798	107,798	0	0	107,798	0	57
1.3.032.06.080.04 -1424J-BOE LABOR [PWE1X5MPFUNA.CPT544112G	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	256,080	0	985	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	

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1.3.034.06.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	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 [13CC]	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)	92,459	92,459	0	0	92,459	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	78,400	78,400	0	0	78,400	0	
1.3.039.01.080.04 -DPW:SITE ASSESSMENT & REMEDIATION (SAR)	151,515	151,515	0	0	151,515	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	24,343	24,343	0	0	24,343	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION	58,757	10,109	0	0	10,109	48,648	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	31,367	31,367	0	0	31,367	0	
1.3.039.01.080.04 - DPW:SITE ASSESSMENT & REMEDIATION (SAR)	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)	18,632	16,880	0	0	16,880	1,753	
1.3.039.02.080.04 - DPW: SITE ASSESSMENT & REMEDIATION (SAR)	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	660,768	201	6,281	667,049	103,794	
1.3.051.01.080.03 - ODC.HWRD:ODCs - 821 HOWARD STR	696,753	619,878	0	6,281	626,158	70,595	
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	201	0	28,912	26,088	
1.3.051.06.080.04 - ODC.HWRD:W/MTA INST WTR SVC @ STS&YBM	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 CONTRA	65,720,187	67,510,528	1,365,000	1,365,000	68,875,528	(3,155,340)	
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)	

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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	12,204,655	1,092,000	1,092,000	13,296,655	(6,296,655)	
1.3.063.01.080.03 - CM:AECOM.CS149OM-EPC JV CS-149 [3j][PM]	2,000,000	3,051,164	273,000	273,000	3,324,164	(1,324,164)	
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	0	1,392,217	1,607,783	
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	
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. [1330]	127,261	127,261	0	0	127,261	0	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2016 [68CPT5]	883,631	883,631	0	0	883,631	(0)	
1.3.067.01.080.03 - HILL INTERNATIONAL CS156 AWP 2017 [68CPT5]	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 [133]	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	20,744,019	0	674,233	21,418,252	(6,805,836)	
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	20,682,888	0	674,233	21,357,122	(6,796,057)	
73 - SYSTEMS/INTEGRATION - CONTRACT 155-3	4,828,269	6,167,443	334,479	258,502	6,425,946	(1,597,677)	
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	6,077,652	334,479	258,502	6,336,155	(1,597,886)	
81 - UTILITIES RELOCATION #1 (PORTAL & MOS) - CONTRACT 12	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

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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 CU	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&MITIGA	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	
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	
1.3.083.93.010.07 - CONTRACT 1252: TUNNEL ALLOC CONTING	0	0	0	0	0	0	68
CONTRACT 1300 - STATIONS, TRACKWORK AND SYSTEMS TO	861,639,701	862,616,711	5,984,613	8,102,058	870,718,769	-9,079,068	69
84 - UNION SQUARE/MARKET STREET STATION (UMS) - WORK P	294,030,590	287,204,406	(129,909)	407,268	287,611,674	6,418,916	21
1.3.084.03.020.03 - UMS.1253: UNDERGROUD STATION	253,081,452	249,898,591	(215,381)	189,549	250,088,140	2,993,312	
1.3.084.03.020.07 - UMS.1253: ELEVATORS ESCALATOR	9,465,694	8,881,058	0	123,961	9,005,019	460,675	
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	6,936	0	6,936	543,064	
1.3.084.03.040.04 - UMS.1253: ENVIRONMENTAL MITIGA	244,500	194,500	0	0	194,500	50,000	
1.3.084.03.040.06 - UMS.1253: PEDESTRIAN/BIKE	18,969	17,675	1,174	647	18,322	647	
1.3.084.03.040.07 - UMS.1253: AUTOMOBILE BUS ACCE	1,158,410	1,031,201	0	0	1,031,201	127,209	
1.3.084.03.040.08 - UMS.1253: TEMPORARY FACILITIES	11,139,701	9,892,488	(2,518)	0	9,892,488	1,247,213	
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	40,000	0	1,021,534	794,000	

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1.3.084.03.050.04 - UMS.1253: TRACTION POWER DISTR	216,957	67,178	0	20,210	87,388	129,569	
1.3.084.03.050.05 - UMS.1253: COMMUNICATIONS	1,134,314	988,186	39,880	72,901	1,061,087	73,227	
84 - UNION SQUARE/MARKET STREET STATION (UMS) CMODs	7,744,337	7,257,208	0	0	7,257,208	487,129	
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	0	90,000	400,000	
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	12,255,663	0	0	0	0	12,255,663	41
85 - CHINATOWN STATION (CTS) - WORK PACKAGE 1254	247,567,810	231,407,400	188,161	2,430,567	233,837,967	13,729,843	
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	120,667,726	38,698	1,301,609	121,969,335	11,031,718	
1.3.085.04.020.07 - CTS.1254: ELEVATORS ESCALATOR	6,812,856	5,828,957	34,175	15,000	5,843,957	968,899	
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	5,225,465	0	295,792	5,521,257	480,461	
1.3.085.04.040.03 - CTS.1254: HAZARDOUS MATERIALS	350,000	0	0	350,000	350,000	0	
1.3.085.04.040.04 - CTS.1254: ENVIRONMENTAL MITIGA	325,665	25,665	0	300,000	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	16,116,322	0	153,248	16,269,570	301,752	
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	1,265,255	115,288	14,918	1,280,173	378,765	
85 - CHINATOWN STATION (CTS) CMODs	52,199,817	42,257,535	0	0	42,257,535	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	
1.3.085.95.020.03 - CTS.1254: AC: ALLOC CONTING	(42,199,816)	0	0	0	0	(42,199,816)	72
86 - YERBA BUENA MOSCONE STATION (YBM) - WORK PACKAG	158,089,000	153,442,112	378,474	437,099	153,879,211	4,209,789	
1.3.086.05.020.03 - YBM.1255: UNDERGROUND STATION	118,405,840	116,664,965	363,024	393,000	117,057,965	1,347,875	
1.3.086.05.020.07 - YBM.1255: ELEVATORS ESCALATOR	5,333,287	4,848,193	0	44,099	4,892,292	440,995	
1.3.086.05.040.01 - YBM.1255: DEMOLITION CLEARING	657,000	657,000	0	0	657,000	0	

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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	3,252	0	2,115,947	513,492	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	12,198	0	14,726,649	838,104	
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	0	1,223,245	17,851	
86 - YERBA BUENA MOSCONE STATION (YBM) CMODs	4,889,959	4,416,407	0	0	4,416,407	473,552	
1.3.086.86.020.03 - CMOD:YBM.1255: UNDERGROUND STATION	466,470	417,013	0	0	417,013	49,457	
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	
1.3.086.96.020.03 - YBM.1255: AC: ALLOC CONTING	110,042	0	0	0	0	110,042	74
87 - SURFACE TRACKWORK AND SYSTEMS -WORK PACKAGE 12	139,989,000	118,211,024	5,474,099	3,187,318	121,398,342	18,590,658	
1.3.087.09.010.02 - STS.1256: GUIDEWAY: AT-GRADE SEMI-EXCLUS	2,860,000	2,860,000	5,000	0	2,860,000	0	
1.3.087.09.010.06 - STS.1256: GUIDEWAY: UNDERGROUND CUT & C	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	49,778	0	16,161,355	562,197	
1.3.087.09.010.09 - STS.1256: TRACK DIRECT FIXATION	6,761,089	6,673,090	0	80,250	6,753,340	7,750	
1.3.087.09.010.10 - STS.1256: TRACK: EMBEDDED	0	0	0	0	0	0	
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	6,230,478	66,456	209,500	6,439,978	1,162,879	
1.3.087.09.040.02 - STS.1256: SITE UTILITIES, UTILITY RELOCA	17,464,046	14,665,379	0	(18,698)	14,646,681	2,817,365	
1.3.087.09.040.03 - STS.1256: HAZARDOUS MATERIALS	200,000	0	0	200,000	200,000	0	73
1.3.087.09.040.04 - STS.1256: ENVIRONMENTAL MITIGATION	50,000	0	0	50,000	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	13,713,506	0	11,861	13,725,367	171,464	
1.3.087.09.050.01 - STS.1256: TRAIN CONTROL AND SIGNALS	27,543,451	23,346,706	4,743,986	1,852,137	25,198,843	2,344,608	
1.3.087.09.050.02 - STS.1256: TRAFFIC SIGNALS AND	4,463,368	3,761,868	0	36,550	3,798,418	664,950	
1.3.087.09.050.03 - STS.1256: TRACTION POWER SUPPL	9,889,014	8,209,723	526,124	157,850	8,367,573	1,521,441	
1.3.087.09.050.04 - STS.1256: TRACTION POWER DISTRIBUTION	6,099,675	3,104,912	57,813	16,419	3,121,331	2,978,344	
1.3.087.09.050.05 - STS.1256: COMMUNICATIONS	7,996,237	3,120,031	24,942	8,964	3,128,995	4,867,242	
1.3.087.09.050.07 - STS.1256: CENTRAL CONTROL	2,614,586	860,381	0	582,485	1,442,866	1,171,720	
87 - SURFACE TRACKWORK AND SYSTEMS (STS) CMODs	20,180,409	18,420,619	73,788	1,639,806	20,060,425	119,984	
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	

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		[C] PRIOR MONTH Total	[D] PRIOR MONTH Monthly	[E] CURRENT Monthly	[F] CURRENT Total		
1.3.087.89.040.03 - CMOD:STS.1256: HAZARDOUS MATERIALS	18,221	18,219	0	0	18,219	2	
1.3.087.89.040.08 - CMOD:STS.1256: TEMPORARY FACILITIES	23,104,633	21,301,085	73,788	(60,212)	21,240,873	1,863,760	
1.3.087.89.050.01 - CMOD:STS.1256: TRAIN CONTROL	(1,856,144)	13,304	0	1,700,018	1,713,322	(3,569,466)	
1.3.087.89.050.02 - CMOD:STS.1256: TRAFFIC SIGNALS AND	242,427	220,000	0	0	220,000	22,427	
1.3.087.99.020.01 - STS.1256: AC: ALLOC CONTING	(33,217,109)	0	0	0	0	(33,217,109)	75
88 - STATIONS CONTRACT 1300	2,435,063	1,058,896	3,381	1,017	1,059,913	1,375,150	
1.3.088.06.080.04 - CN1300 CONSTRUCTION TRAILER [68CPT544131]	80,000	0	0	0	0	80,000	
1.3.088.06.080.04 - DT-CN1300 COMMUNICATIONS INSTALL [68CPT	1,430,594	30,480	(343,778)	0	30,480	1,400,114	
1.3.088.06.080.04 - MTA Communications - Business Liaison to support CN	420,000	343,778	68,566	0	343,778	76,222	
1.3.088.06.080.04 - IT-CN1300 Installation [68CPT5441319.CPT5441319]	448,371	278,593	(86,817)	1,017	279,610	168,761	
1.3.088.06.080.04 - CN1300 Installation Maintenance [68CPT5441320.CP	25,000	365,410	365,410	0	365,410	(340,410)	
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	
1.3.141.97.080.04 - CONSTR.ADMIN:ALLOC CONTING	0	0			0	0	75a
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	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	
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	8,180,805	0	2,517,850	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) - In	14,611,285	4,957,994	0	2,517,850	7,475,844	7,135,441	
1.3.192.01.050.01 - CN1266-1 Advanced Train Control System (ATCS) - E	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	

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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	5,548	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	5,548	0	443,459	457,897	
333 - AMERICAN PUBLIC TRANSP. ASSOCIATION (APTA) CS-APT	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 REIMBU	(528,370)	0	0	0	0	(528,370)	77
1.3.491.04.040.02 - FORMB - CTS:CONTRACT 1300 UTILITY REIMBU	(451,703)	0	0	0	0	(451,703)	78
1.3.491.05.040.02 - FORMB - YBM:CONTRACT 1300 UTILITY REIMBU	(100,000)	0	0	0	0	(100,000)	79
1.3.491.06.040.02 - FORMB - CONTRACT 1300 UTILITY REIMBUR	0	0	0	0	0	0	80
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 REIMBU	(1,000,000)	0	0	0	0	(1,000,000)	83
TOTAL CONSTRUCTION PHASE	1,360,858,875	1,340,652,257	8,905,011	13,912,374	1,354,564,632	6,294,243	83a
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 [68	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	
1.4.091.97.070.01 - LRVA:AC: VEHICLES ALLOC CONTI	0	0	0	0	0	0	26
TOTAL VEHICLES	16,800,000	11,929,247	0	0	11,929,247	4,870,753	

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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	(53,650,129)	0	0	0	0	(53,650,129)	
1.7.500.91.090.00 - UNALLOCATED CONTINGENCY	6,882,669					6,882,669	84
TOTAL ALLOCATED CONTINGENCY	(60,532,798)					(60,532,798)	
TOTAL PROJECT COST	1,578,300,010	1,543,619,099	8,905,011	13,912,374	1,557,531,473	20,768,536	

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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.</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.</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. In July 2019 report, Tutor actuals have exceeded Tutor budget due to current budget does not reflect ongoing cmods, omnibus, settlements, other direct and indirect costs etc. This is why we are showing a negative contingency. All of the contingency has been used. The team continues to work with SFMTA Finance and Grants to provide the budget shortfall and has received the commitment from the SFMTA Finance and Grants that they are to identify additional funds needed to complete the project.
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.
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.
74	Revised Contract 1300/YBM allocated contingency SCC code from 040.08 to 020.03.
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
83a	Tutor actuals have exceeded the budget because the current budget does not reflect ongoing cmods, omnibus, settlements, other direct and indirect costs etc. This is why we are showing a negative contingency. All of the contingency has been used. The team continues to work with SFMTA Finance and Grants to provide the budget shortfall and has received the commitment from the SFMTA Finance and Grants that they are to identify additional funds needed to complete the project.

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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.

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Appendix B

DETAIL SCHEDULE REPORTS

SCHEDULE HIGHLIGHTS

The Master Project Schedule (MPS) below includes progress through July 2020. The July 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 July 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 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. TPC and SFTMA 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 July 2020 schedule is used within the July Report. The SFMTA Contract 1300 July 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
- Completed 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
- Completed 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 Plaza level slabs
- Continued construction of Plaza roof, walls and stairs
- Completed installing structural steel for Plaza level
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC layout at Surface level
- Began installing GFRC panels at Plaza level
- Began installing grating at Roof walkways
- Continued AWSS piping construction at intersection of Stockton/Washington Streets
- Closed north sidewalk of Washington Street to pedestrian traffic
- Began construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Began 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 all levels
- Continue 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
- Continued installing fire proofing for Plaza level
- Continued installing electrical conduits and sprinkler piping at Surface and Plaza levels
- Continued HVAC installation at Surface level
- Continue AWSS pipe construction at intersection of Stockton/Washington Streets
- Continue construction of electrical joint trench (PG&E, Comcast, AT&T, Fire Alarm Pull) along North sidewalk of Washington Street
- Continue underground utility construction (sewer, domestic water, AWSS) along Washington Street
- Continued street work (minor), ongoing monitoring and surveying

Activity ID	Activity Name	2020							2
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	
CENTRAL SUBWAY PROJECT									
Construction Phase									
Construction CN-1300									
Construction CTS Station P-1254R									
Administrative / Milestones									
Site Work / Utility Relocation									
Demolition									
Concrete/Shotcrete									
Structural Steel									
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.26.50.180	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.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.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.26.50.160	CTS_PL 03 - Aux Elect Rm: Install - Conduit & Devices For Lighting								
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.26.50.305	CTS_PL 03 - Aux Elect Rm: Pull Wire - Lighting								
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								

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.
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical.
 - Ceiling panels and LED Artwork on concourse level.
 - Light fixtures and controls.
 - Curved metal panel on platform strut level.
 - Terrazzo on concourse and platform level.
 - Fire Alarm /PA / Security System.
 - Emergency lighting at tunnel tie-in on platform level.
 - CCTV/Communication at tunnel tie-in on platform level.
 - Station Agent Booth.
 - HVAC startup and testing.
 - Power startup and starting.

- North Concourse:
 - Stair, escalator and elevators.
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical.
 - 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.

- 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 at tunnel tie-in on platform level.
 - CCTV/Communication at tunnel tie-in on platform level.
 - Station Agent Booth.
 - HVAC and EV startup and testing.
 - Power startup and testing.
 - Fire Alarm System startup and testing.

- North Concourse
 - Stairs, escalator, elevators.
 - Overhead plumbing, fire protection piping, and overhead fixture and electrical.
 - LED artwork.

- South Concourse:
 - Stair and escalator.
 - Overhead electrical, light fixtures and controls.
 - Ceiling panels.

- 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						2
		Jul	Aug	Sep	Oct	Nov	Dec	
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								
UMS.08.85.0140	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 3							
UMS.26.24.4480	UMS_CN_21 - Electrical Closet: Pull Data Cable LCP-C2 To Master Panel LCP-M (f							
UMS.09.53.0460	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 3							
UMS.09.53.0470	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 4							
UMS.08.85.0260	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 6							
UMS.08.85.0190	UMS_CN_Install Cable Tray For Artwork Power & Control - Sector 4							
UMS.08.85.0280	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 6							
UMS.08.85.0210	UMS_CN_Pull Wire From Enclosure Box to Artwork Fixture - Sector 4							
UMS.26.50.1385	UMS_CN - Install - Wire Pulls for Light Fixtures -Sector 6 Concourse							
UMS.09.53.0490	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures to Fixtures S							
UMS.09.53.0500	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures S							
UMS.26.50.1415	UMS_CN - Hang Light Fixtures & Terminate Sector 6 Concourse							
UMS.09.53.0480	UMS_CN - Concourse: Install Artwork Power & Control Enclosures Sector 5							
UMS.09.53.0400	UMS_CN - Concourse: Install & Terminate LED Artwork Fixtures (By Artist) Sector 3							
UMS.28.16.0140	UMS_CN_Install: Security: Intrusion Systems Concourse Level							
UMS.09.53.0510	UMS_CN - Concourse: Pull Wire - Artwork Power & Control Enclosures To Fixtures S							
UMS.26.24.4620	UMS_PL_04 - Aux Comm Rm - Terminate CCTV Cabinets							
UMS.26.24.3770	UMS_CN_04 -Main Electrical Rm: Pull Feeder Cable - Elect Panel EDHL To UE4NH1							
UMS.26.24.3740	UMS_CN_04 -Main Electrical Rm: Pull Feeder Cable - Elect Panel EDHL To 2NHL1							
UMS.09.53.0410	UMS_CN - Concourse: Install & Terminate LED Artwork Fixtures (By Artist) Sector 4							
UMS.28.13.0140	UMS_CN_Install: Security: Access Control System Concourse Level							
UMS.26.24.3860	UMS_CN_04 -Main Electrical Rm: Pull Feeder Cable - Elect Panel LCP-C1 To LCP-I							
UMS.26.24.2470	UMS_CN_21 - Energize - Electrical Closet Room Lighting Panels							
UMS.26.24.4570	UMS_CN_28 - Elect Closet - Energize Elect Closet Lighting Panelboards							
UMS.28.31.9610	UMS_CN_Safety & Security - Testing - Fire Alarm System Concourse Level							
UMS.27.21.0160	UMS_CN_04 - Main Elect Rm: Install - SCADA Terminal Cabinet							
UMS.09.53.0420	UMS_CN - Concourse: Install & Terminate LED Artwork Fixtures (By Artist) Sector 5							

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

- Continued installing Escalators and 3 and 4
- Continued installing Elevators 1, 2, 3 and 4
- Installed glass rail supports, hand rail, precast runnels, and SS handrails at Egress Stair 2 & 3
- Installed roof fascia and completed roofing at Headhouse roof
- Continued installing station agent booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse
- Continued roof coping, fireproofing roof, deck, steel structure, terminating roofing membrane at curbs at Headhouse Roof
- Continued installing door frames and doors at Headhouse Mezzanine
- Began preparations for terrazzo vapor barrier to install terrazzo fill around escalators and elevator fronts at House Concourse
- Installed metal wall panels and removed all scaffolds at Headhouse Concourse
- Complete hot water heater installation, restrooms, sewer ejectors at Headhouse Concourse
- Continued polishing and sealing terrazzo at Platform
- Continued Systems startup and Acceptance Testing

- Installed waterproof plaza deck, pavers, coupler, bolts at node, rebar and poured concrete at 4th & Clementina

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

- Continue installing Escalators and 3 and 4
- Continue installing Elevators 1, 2, 3 and 4
- Continue installing glass rail supports, hand rail, precast runnels, and SS handrails at Egress Stair 2 & 3
- Continue installing roof fascia and completed roofing at Headhouse roof
- Continue installing metal wall panels, station agent booth, line art glass, waterproof deck and precast pavers at Headhouse Concourse
- Continue roof coping, fireproofing roof, deck, steel structure, terminating roofing membrane at curbs at Headhouse Roof
- Continue installing door frames and doors at Headhouse Mezzanine
- Continue preparations for terrazzo vapor barrier to install terrazzo fill around escalators and elevator fronts at House Concourse
- Complete restrooms and sewer ejectors at Headhouse Concourse
- Continue polishing and sealing terrazzo at Platform
- Install drain and C Channel at beam room at Platform
- Install access doors for deluge area at Station Invert
- Continue Systems startup and Acceptance Testing

Activity ID		Activity Name		2020						
				Jul	Aug	Sep	Oct	Nov	Dec	Jan
CENTRAL SUBWAY PROJECT										
Construction Phase										
Construction CN-1300										
Construction YBM Station P-1255										
Concrete/Shotcrete										
Electrical										
Electrical - Transportation										
Platform Level										
Under Platform Level										
YBM.34.21.1095	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									
YBM.34.21.1065	YBM_IV 302 - Traction Power Rm: Install - Auxiliary Panel K02									
YBM.34.21.1085	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 PSI									
YBM.34.21.1175	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 PS01									
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC									
YBM.34.21.1145	YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray									
YBM.34.21.1075	YBM_IV 302 - Traction Power Rm: Install - Annunciator Panel K01									
YBM.34.22.0360	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PSI									
YBM.34.22.0370	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									
YBM.34.22.0380	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS0									
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear									
YBM.34.21.1235	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									
YBM.34.21.1125	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									
YBM.34.21.1245	YBM_IV 302 - Traction Power Rm: Terminate - DC Control									
YBM.34.21.1255	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									
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)									
Conveyances										
Startup & Testing										
No 13-Disp										

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
- Continued tunnel lighting, mini power, OCS hanger and tunnel signage installation
- Continued installation of ATCS system
- Continued installation of blast doors at tunnel Cross-passages
- Started installation of radio system
- Completed trackwork at 4th and King tie-in

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

- Continue 4th/Brannan platform construction
- 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						2
		Jul	Aug	Sep	Oct	Nov	Dec	
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								
Southbound Tunnel or Trackway								
STS.34.42.0690	STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone							
STS.34.42.1070	STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union							
STS.08.12.140	STS_Install: Blast Resistant Metal Doors/Frames SB Cross Passage #1							
STS.08.12.150	STS_Install: Blast Resistant Metal Doors/Frames SB Cross Passage #2							
STS.08.12.160	STS_Install: Blast Resistant Metal Doors/Frames SB Cross Passage #3							
STS.08.12.170	STS_Install: Blast Resistant Metal Doors/Frames SB Cross Passage #4							
STS.34.42.1440	STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown							
STS.34.42.1060	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone							
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone							
STS.34.42.2310	STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone							
STS.26.05.1390	STS_Install: Tunnel Electrical - Traction Power Conduit - SB Chinatown to North Limits							
STS.34.42.1800	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square							
STS.26.05.1715	STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers SB17-							
STS.34.42.0710	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							
STS.34.42.1090	STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone							
STS.28.20.1810	STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits							
STS.34.42.1460	STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square							
STS.34.42.1820	STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown							
STS.34.42.2330	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone							

SCHEDULE REVISIONS

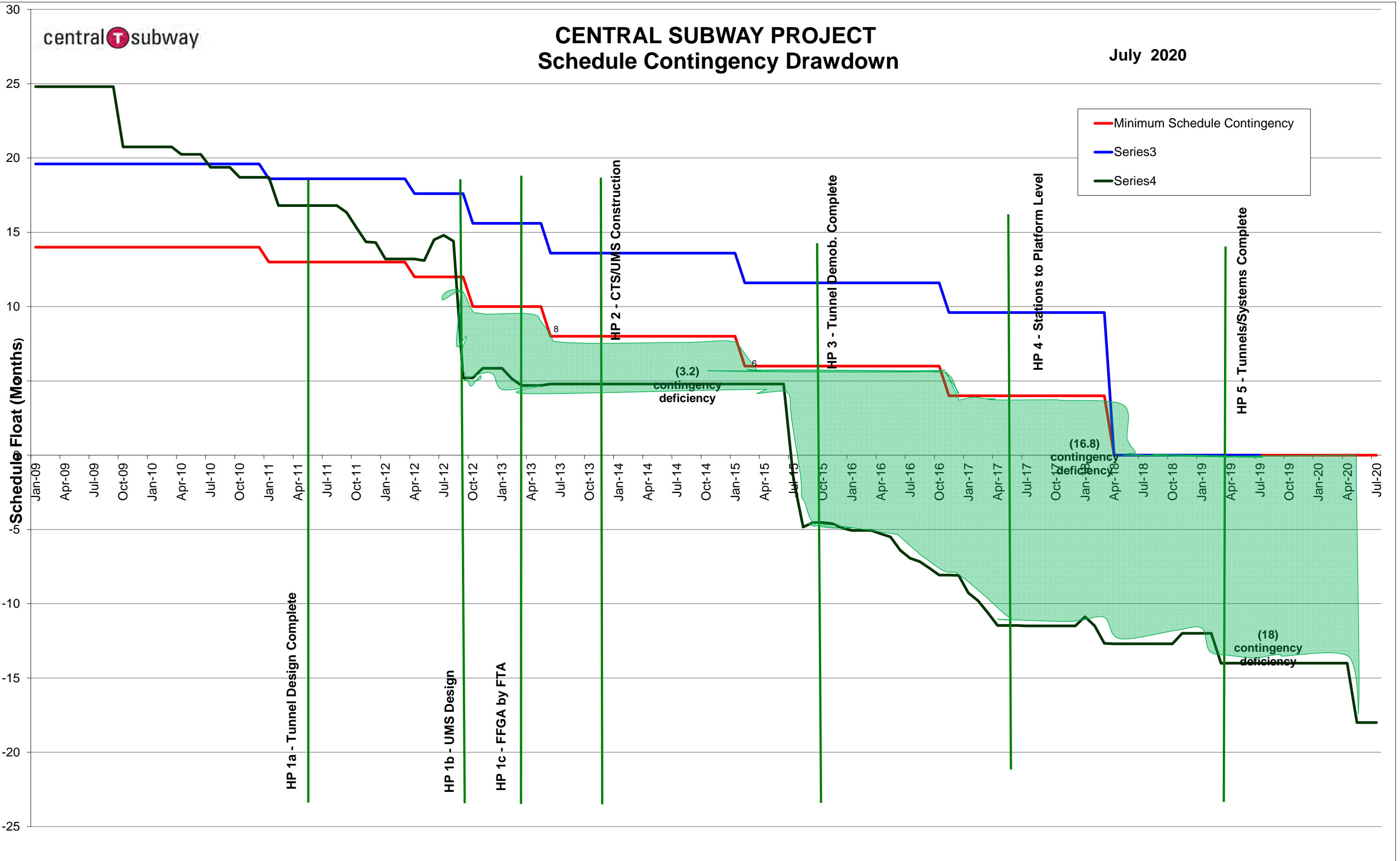
The SFMTA Contract 1300 July 2020 schedule update was added this period to the Central Subway Project Master Schedule.

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

July 2020



Activity ID	Activity Name	Original Duration	Start	Finish	2020			2021			2022					
					Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
CENTRAL SUBWAY PROJECT		4972	03-Jun-03 A	25-Jun-22	CENTRAL SUBWAY PROJECT											
Program Level Milestones		5110	03-Jun-03 A	29-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		29-Dec-21*	◆ Baseline Finish Date: 12-26-2018											
MS0009	CSP Revenue Service Date	0		29-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		2844	15-Apr-13 A	26-Jan-21	Light Rail Vehicles											
Real Estate		3130	01-Aug-08 A	02-Jan-14 A												
Construction Phase		3253	04-Jan-10 A	25-Jun-22	Construction Phase											
Construction Support and Costs		3821	04-Jan-10 A	25-Jun-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	27-Jul-20	Construction Tunnels CN-1252											
Construction STS P-1256 ATCS		1825	20-May-14 A	22-Jan-21	Construction STS P-1256 ATCS											
Construction STS P-XXXX Radio		195	27-Aug-19 A	02-Apr-21	Construction STS P-XXXX Radio											
Construction CN-1300		2038	03-Jun-13 A	11-Apr-21	Construction CN-1300											
CN- 1300 Milestone		2038	17-Jun-13 A	11-Apr-21	CN- 1300 Milestone											
Construction UMS Station P-1253		1975	17-Jun-13 A	12-Jan-21	Construction UMS Station P-1253											
Construction CTS Station P-1254R		1975	17-Jun-13 A	12-Jan-21	Construction CTS Station P-1254R											
Construction YBM Station P-1255		1975	10-Jun-13 A	12-Jan-21	Construction YBM Station P-1255											
Construction STS P-1256		1975	03-Jun-13 A	25-Feb-21	Construction STS P-1256											
Project Start Up		351	11-Jan-21	29-Dec-21	Project Start Up											
Unallocated Contingency		358	27-Jul-20	28-Dec-21	Unallocated Contingency											

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020		2021				2022				2023			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1		
Program Level Milestones						0	29-Dec-21	29-Dec-21											-397
MS0019	Baseline Finish Date: 12-26-2018	0		29-Dec-21*	-397											◆ Baseline Finish Date: 12-26-2018			
MS0009	CSP Revenue Service Date	0		29-Dec-21*	-397											◆ CSP Revenue Service Date			
CN- 1300 Milestone						0	11-Jan-21	11-Jan-21											-581
MS-10	Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }	0		11-Jan-21*	-581											◆ Substantial Completion - 1,700 Calendar Days (SP-4.B) { 10-Feb-18 }			
Construction STS P-1256						395	13-May-19 A	11-Jan-21											-415
STS.34.23.1800	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal	3	20-May-20 A	28-Jul-20	-409											STS_Install: Tunnel Electrical - OCS Catenary Hangers - In NB Portal			
STS.34.23.1820	STS_Install: Tunnel Electrical - OCS Catenary Hangers - In SB Portal	3	26-Feb-20 A	29-Jul-20	-409											STS_Install: Tunnel Electrical - OCS Catenary Hangers - In SB Portal			
STS.34.23.0460	STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone	5	30-Sep-19 A	30-Jul-20	-409											STS_Install: Tunnel Electrical - OCS Catenary Hangers - NB Portal To Moscone			
STS.34.23.1970	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal	5	29-Jul-20	04-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - In NB Portal			
STS.34.23.0660	STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Portal To Moscone	5	01-Oct-19 A	05-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Portal To Moscone			
STS.34.23.1930	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Portal To Moscone	7	31-Jul-20	10-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - NB Portal To Moscone			
STS.34.23.1830	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - In NB Portal	4	05-Aug-20	10-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - In NB Portal			
STS.34.23.1980	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - SB Portal To Moscone	7	06-Aug-20	14-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - SB Portal To Moscone			
STS.34.23.1860	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Moscone	4	11-Aug-20	14-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Portal To Moscone			
STS.34.23.1910	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Portal To Moscone	4	17-Aug-20	20-Aug-20	-409											STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Portal To Moscone			
STS.34.22.2990	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To SB03 -	1	08-Jun-20 A	21-Aug-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To SB03 - MOS South Platform			
STS.34.22.3180	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To SB03 - MO	1	24-Aug-20	24-Aug-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To SB03 - MOS South Platform			
STS.34.22.3000	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB05 To F	1	25-Aug-20	25-Aug-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB05 To PS-03 - MOS North Platform			
STS.34.22.3010	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To F	4	26-Aug-20	31-Aug-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS North Platform			
STS.34.23.1850	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Union	14	17-Aug-20	03-Sep-20	-409											STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Moscone to Union Square			
STS.34.22.2980	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To S	10	04-May-20 A	07-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05 - UMS To MOS			
STS.34.22.3160	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB05	1	08-Sep-20	08-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS South Platform			
STS.34.22.2970	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB S	2	01-Jun-20 A	09-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS South Platform			
STS.34.22.3150	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03	1	10-Sep-20	10-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS North Platform			
STS.34.22.2960	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To F	2	11-Sep-20	14-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS-03 - UMS North Platform			
STS.34.22.2900	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To N	8	04-May-20 A	17-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box			
STS.34.22.3090	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01	2	18-Sep-20	21-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB03 To NB01 - MOS To Portal Pull Box			
STS.34.23.1870	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Union Square to C	12	04-Sep-20	21-Sep-20	-409											STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - NB Union Square to Chinatown			
STS.34.22.3280	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull B	5	22-Sep-20	28-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - NB Portal Pull Box To MH1890			
STS.34.22.2910	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB I	1	01-Jun-20 A	29-Sep-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-05 To PFCB NB10 - UMS South Platform			
STS.34.22.2920	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To N	7	04-May-20 A	01-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt WA -11)			
STS.34.22.2950	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To S	15	01-Jun-20 A	01-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To SB10 - CTS To UMS			
STS.34.22.3070	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11	1	02-Oct-20	02-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-04 To PFCB NB11 - UMS South Platform			
STS.34.42.0580	STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone	4	13-May-19 A	07-Oct-20	-409											STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone			
STS.34.22.3080	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04	3	05-Oct-20	07-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB05 To NB04 - UMS To MOS (Ckt FO-12)			
STS.34.22.3100	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10	1	08-Oct-20	08-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-05 To PFCB NB10 - UMS South Platform			
STS.34.22.3110	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06	1	09-Oct-20	09-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB10 To NB06 - UMS To MOS (Ckt WA -11)			
STS.34.22.2860	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To N	15	08-Jun-20 A	13-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB18 To NB12 - CTS To UMS			
STS.34.22.2870	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To F	2	14-Oct-20	15-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB12 To PS-01 - UMS North Platform			
STS.34.22.2850	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB I	2	29-May-20 A	19-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-10 To PFCB NB18 - CTS South Platform			
STS.34.22.3040	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18	1	20-Oct-20	20-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-10 To PFCB NB18 - CTS South Platform			
STS.34.22.3050	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12	3	21-Oct-20	23-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB18 To NB12 - CTS To UMS			
STS.34.42.0960	STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Sq	12	08-Oct-20	23-Oct-20	-409											STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square			
STS.34.22.3060	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01	1	26-Oct-20	26-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB12 To PS-01 - UMS North Platform			
STS.34.22.2840	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To F	2	26-Oct-20	27-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB NB19 To PS-06 - Chinatown to North Limits			
STS.34.22.3030	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06	1	28-Oct-20	28-Oct-20	-409											STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB NB19 To PS-06 - Chinatown to North Limits			
STS.34.42.0390	STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone	4	13-May-19 A	02-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System NB Portal To Moscone			
STS.34.42.1700	STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chin	14	26-Oct-20	12-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown			
STS.34.42.0770	STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Sc	13	28-Oct-20	13-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System NB Moscone to Union Square			
STS.34.42.1330	STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North L	2	13-Nov-20	16-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits			
STS.34.42.1150	STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chir	14	28-Oct-20	16-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System NB Union Square to Chinatown			
STS.34.42.1520	STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North L	2	17-Nov-20	18-Nov-20	-409											STS_Install: Train Control - Train Control Cable Loop System NB Chinatown to North Limits			
STS.34.42.425	Startup & Testing - Tunnel & ATSC Systems	40	15-Feb-21 A	11-Jan-21	-409														
Project Start Up						351	11-Jan-21	29-Dec-21											-578
STU1010	S&S Certification / Pre-Revenue Activities	244	11-Jan-21	28-Dec-21	-397											S&S Certification / Pre-Revenue Activities			
BUF0018	Muni Float	0	29-Dec-21	29-Dec-21	-397											Muni Float			

Activity Name	Original Duration	Start	Finish	2012				2013				2014				2015				2016				2017				2018				2019				2020				2021				2022	
				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	Q3	Q4	Q1	Q2				
CENTRAL SUBWAY PROJECT	2566	08-Jun-11 A	11-Apr-21																																										
Construction Phase	2566	08-Jun-11 A	11-Apr-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	2038	03-Jun-13 A	11-Apr-21																																										
CN- 1300 Milestone	2038	17-Jun-13 A	11-Apr-21																																										
Construction UMS Station P-1253	1975	17-Jun-13 A	12-Jan-21																																										
Construction CTS Station P-1254R	1975	17-Jun-13 A	12-Jan-21																																										
Construction YBM Station P-1255	1975	10-Jun-13 A	12-Jan-21																																										
Construction STS P-1256	1975	03-Jun-13 A	25-Feb-21																																										

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	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									
Station Platform Footprint (Between Headwalls)									
UMS.34.21.1565	UMS_MZ: Install - Traction Power Pull Box PB-1 For NB Track - Sector 3	3	26-Jun-20	30-Jun-20	-363				UMS_MZ: Install - Traction Power Pull Box PB-1 For NB Track - Sector 3
UMS.34.21.1375	UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1	5	29-Jun-20	03-Jul-20	-347				UMS_MZ07 - Gap Breaker Rm: Install - Supervisory Panel SV1
UMS.34.21.1435	UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station	5	29-Mar-18 A	03-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Install - Ground Test Station
UMS.34.21.1465	UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1	5	29-Mar-18 A	03-Jul-20	-349				UMS_MZ07 - Gap Breaker Rm: Install Lighting & Power Panel LP1
UMS.34.21.1415	UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01	5	29-Mar-18 A	03-Jul-20	-347				UMS_MZ07 - Gap Breaker Rm: Install Battery Station D01
UMS.34.21.1365	UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02	5	29-Mar-18 A	03-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Install - Auxiliary Panel K02
UMS.34.21.1315	UMS_PL: Install - Traction Power Connection Box PS01 @ NB Track - Sector 3	3	02-Jul-20	06-Jul-20	-363				UMS_PL: Install - Traction Power Connection Box PS01 @ NB Track - Sector 3
UMS.34.21.1575	UMS_MZ: Install - Traction Power Pull Box PB-2 For SB - Track - Sector 3	5	01-Oct-19 A	07-Jul-20	-363				UMS_MZ: Install - Traction Power Pull Box PB-2 For SB - Track - Sector 3
UMS.34.22.0400	UMS_UP_Elect: Pull Negative Feeder Cable, Coil & Protect(Traction Power)	3	07-Jul-20	09-Jul-20	-344				UMS_UP_Elect: Pull Negative Feeder Cable, Coil & Protect(Traction Power)
UMS.34.21.1305	UMS_PL: Install - Traction Power Connection Box PS03 @ SB Track - Sector 3	3	07-Jul-20	09-Jul-20	-363				UMS_PL: Install - Traction Power Connection Box PS03 @ SB Track - Sector 3
UMS.34.21.1385	UMS_MZ07 - Gap Breaker Rm: Install - Annunciator Panel K01	5	06-Jul-20	10-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Install - Annunciator Panel K01
UMS.34.21.1395	UMS_MZ07 - Gap Breaker Rm: Install - Control Wiring Wireway	5	06-Jul-20	10-Jul-20	-349				UMS_MZ07 - Gap Breaker Rm: Install - Control Wiring Wireway
UMS.34.21.1475	UMS_MZ07 - Gap Breaker Rm: Install Security Panel SE01	5	06-Jul-20	10-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Install Security Panel SE01
UMS.34.21.1325	UMS_PL: Install - Traction Power Connection Box PS02 @ SB Track - Sector 3	3	10-Jul-20	14-Jul-20	-363				UMS_PL: Install - Traction Power Connection Box PS02 @ SB Track - Sector 3
UMS.34.21.1585	UMS_MZ: Install - Traction Power Pull Box PB-3 For NB - Track - Sector 5	5	08-Oct-19 A	14-Jul-20	-363				UMS_MZ: Install - Traction Power Pull Box PB-3 For NB - Track - Sector 5
UMS.34.05.0300	UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Traction Power)	5	08-Jul-20	14-Jul-20	-353				UMS_MZ Install Feeder Conduit: - SB Positive Feeder Gap Breaker Rm to PB-2 (Traction Power)
UMS.34.21.1635	UMS_MZ07 - Gap Breaker Rm: Install Conduit Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	13-Jul-20	14-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Install Conduit Security Panel SE01 To DS1, DS2, DS3, & Security Bell
UMS.34.22.0410	UMS_PL - Pull -Traction Power Cables Pullbox PB-1 To PS01	2	14-Jul-20	15-Jul-20	-352				UMS_PL - Pull -Traction Power Cables Pullbox PB-1 To PS01
UMS.34.21.1645	UMS_MZ07 - Gap Breaker Rm: Pull Wire Security Panel SE01 To DS1, DS2, DS3, & Security Bell	2	15-Jul-20	16-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Pull Wire Security Panel SE01 To DS1, DS2, DS3, & Security Bell
UMS.34.21.1495	UMS_MZ07 - Gap Breaker Rm: Terminations - Negative Feeder (By 1256)	5	13-Jul-20	17-Jul-20	-345				UMS_MZ07 - Gap Breaker Rm: Terminations - Negative Feeder (By 1256)
UMS.34.21.1655	UMS_MZ07 - Gap Breaker Rm: Terminate Security Panel SE01 To DS1, DS2, DS3, & Security Bell	1	17-Jul-20	17-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Terminate Security Panel SE01 To DS1, DS2, DS3, & Security Bell
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	17-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Install Conduit DC Panel DP01 To D01, K01, K02, SV1, DCT1
UMS.34.21.1665	UMS_MZ07 - Gap Breaker Rm: Energize Security Panelboard	1	20-Jul-20	20-Jul-20	-346				UMS_MZ07 - Gap Breaker Rm: Energize Security Panelboard
UMS.34.21.1355	UMS_PL: Install - Traction Power Connection Box PS04 @ NB Track - Sector 5	5	15-Jul-20	21-Jul-20	-363				UMS_PL: Install - Traction Power Connection Box PS04 @ NB Track - Sector 5
UMS.34.21.1595	UMS_MZ: Install - Traction Power Pull Box PB-4 For SB Track - Sector 5	5	15-Oct-19 A	21-Jul-20	-363				UMS_MZ: Install - Traction Power Pull Box PB-4 For SB Track - Sector 5
UMS.34.05.0350	UMS_MZ Install Conduit Riser PB-2 to SB Feeder Box To PS02 & PS03 (Traction Power)	5	15-Jul-20	21-Jul-20	-358				UMS_MZ Install Conduit Riser PB-2 to SB Feeder Box To PS02 & PS03 (Traction Power)
UMS.34.21.1345	UMS_PL: Install - Traction Power Connection Box PS06 @ SB Track - Sector 5	5	15-Jul-20	21-Jul-20	-358				UMS_PL: Install - Traction Power Connection Box PS06 @ SB Track - Sector 5
UMS.34.21.1335	UMS_PL: Install - Traction Power Connection Box PS05 @ NB Track - Sector 5	5	15-Jul-20	21-Jul-20	-363				UMS_PL: Install - Traction Power Connection Box PS05 @ NB Track - Sector 5
UMS.34.22.0500	UMS_PL - Pull -Traction Power Cables PS01 to PS05	2	20-Jul-20	21-Jul-20	-349				UMS_PL - Pull -Traction Power Cables PS01 to PS05
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	22-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Pull Wire DC Panel DP01 To D01, K01, K02, SV1, DCT1
UMS.34.21.1405	UMS_MZ07 - Gap Breaker Rm: Pull & Terminate - Control Cables	9	13-Jul-20	23-Jul-20	-349				UMS_MZ07 - Gap Breaker Rm: Pull & Terminate - Control Cables
UMS.34.22.0420	UMS_PL - Pull -Traction Power Cables Pullbox PB-2 To PS02	2	22-Jul-20	23-Jul-20	-358				UMS_PL - Pull -Traction Power Cables Pullbox PB-2 To PS02
UMS.34.21.1695	UMS_MZ07 - Gap Breaker Rm: Terminations - DC Panel DP01 To D01, K01, K02, SV1, DCT1	3	29-Mar-18 A	27-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Terminations - DC Panel DP01 To D01, K01, K02, SV1, DCT1
UMS.34.21.1705	UMS_MZ07 - Gap Breaker Rm: Energize - DC Panel DP01, D01, K01, K02, SV1, DCT1	1	04-Jun-18 A	28-Jul-20	-352				UMS_MZ07 - Gap Breaker Rm: Energize - DC Panel DP01, D01, K01, K02, SV1, DCT1
UMS.34.05.0370	UMS_MZ Install Conduit Riser PB-4 to Feeder Box PS06 (Traction Power)	5	22-Jul-20	28-Jul-20	-363				UMS_MZ Install Conduit Riser PB-4 to Feeder Box PS06 (Traction Power)
UMS.34.05.0360	UMS_MZ Install Conduit Riser PB-3 to Feeder Box PS04 & PS05 (Traction Power)	5	22-Jul-20	28-Jul-20	-363				UMS_MZ Install Conduit Riser PB-3 to Feeder Box PS04 & PS05 (Traction Power)

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	Q3	Q4	Q1
UMS.34.22.0460	UMS_PL - Pull - Traction Power Cables PS06 to PS03	2	27-Jul-20	28-Jul-20	-354		■		
UMS.34.22.0440	UMS_PL - Pull - Traction Power Cables Pullbox PB-3 To PS04	2	29-Jul-20	30-Jul-20	-363		■		
UMS.34.22.0480	UMS_PL - Pull - Traction Power Cables Pullbox PB-4 To PS06	2	29-Jul-20	30-Jul-20	-363		■		
UMS.34.21.1445	UMS_MZ07 - Gap Breaker Rm: Terminations - WFO-1&2	9	31-Jul-20	12-Aug-20	-363		■		
UMS.34.21.1545	UMS_MZ07 - Gap Breaker Rm: Energize Gap Breaker Equipment	5	13-Aug-20	19-Aug-20	-363		■		
UMS.34.21.1625	UMS_MZ07 - Gap Breaker Rm: Test Traction Power Systems	15	13-Aug-20	02-Sep-20	-363		■		
Architectual Finishes		245	30-Dec-19 A	05-Oct-20	-352	■			
Conveyances		836	25-Sep-15 A	10-Sep-20	-329	■			
Stairs		425	06-Aug-18 A	01-Sep-20	-362	■			
Startup & Testing		40	15-Sep-20	09-Nov-20	-371	■			
Union Square Garage		40	15-Sep-20	09-Nov-20	-371	■			
UMS.01.80.9900	UMS- Building Systems Start-up & Testing	40	15-Sep-20	09-Nov-20	-371	■			
No 13-Disp		1881	16-Mar-14 A	29-Dec-20	64	■			
Construction CTS Station P-1254R		1818	10-Jul-14 A	30-Dec-20	63	■			
Site Work / Utility Relocation		472	31-Dec-18 A	27-Oct-20	109	■			
Concrete/Shotcrete		95	18-May-20 A	14-Oct-20	-368	■			
Structural Steel		487	25-Jun-15 A	16-Jul-20	-316	■			
Masonry		15	16-Sep-19 A	20-Jul-20	-369	■			
Mechanical		463	05-Mar-18 A	02-Oct-20	-351	■			
Misc Metal		95	18-Mar-20 A	27-Aug-20	-325	■			
Electrical		456	07-May-18 A	16-Oct-20	-356	■			
No 13-Location		456	07-May-18 A	16-Oct-20	-356	■			
CTS.34.22.210	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS06 (Traction Power)	1	26-Jun-20	26-Jun-20	-330		■		
CTS.34.22.250	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS07 (Traction Power)	2	26-Jun-20	29-Jun-20	-331		■		
CTS.34.22.260	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS02 to PS08 (Traction Power)	2	26-Jun-20	29-Jun-20	-331		■		
CTS.34.2.240	CTS_PL_Pull Cable & Terminate SB Positive Feeder Box PS01 to PS05 (Traction Power)	2	26-Jun-20	29-Jun-20	-331		■		
CTS.26.50.552	CTS_CN 10 - Emerg Command Rm: Wire Pulls - Lighting	1	30-Jun-20	30-Jun-20	-327		■		
CTS.26.50.590	CTS_CN 17 - Janitor Rm: Pull Wire - Lighting	1	30-Jun-20	30-Jun-20	-323		■		
CTS.26.50.250	CTS_PL 12 - Train Control Rm: Install - Conduit Back To LMZ Control Rm	4	28-Oct-19 A	01-Jul-20	-308	■			
CTS.26.50.200	CTS_PL 17 - Corridor: Install - Conduit & Devices for Lighting	2	30-Jun-20	01-Jul-20	-346		■		
CTS.26.50.588	CTS_CN 15 - Storage Rm: Hang Light Fixtures & Terminate	2	30-Jun-20	01-Jul-20	-330		■		
CTS.26.05.570	CTS_CN 10 - Emerg Command Rm: Install Fixtures & Terminate	1	01-Jul-20	01-Jul-20	-327		■		
CTS.26.50.570	CTS_CN 01 - Install - Conduit & Devices for Ceiling Lighting	5	28-Oct-19 A	02-Jul-20	-327	■			
CTS.28.31.131	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Control Panel - Sector 3	5	07-May-18 A	03-Jul-20	-353	■			
CTS.28.31.142	CTS_PL 09 - Aux Comm Rm: Install - Fire Alarm Terminal Cabinet - Sector 3	4	05-Nov-19 A	03-Jul-20	-353	■			
CTS.26.50.564	CTS_CN 06 - Stair 6: Hang Light Fixtures	4	30-Jun-20	03-Jul-20	-310		■		
CTS.26.50.265	CTS_PL 17 - Corridor: Install - Alarms & Card Readers	2	09-Oct-19 A	03-Jul-20	-310	■			
CTS.26.50.290	CTS_PL 16 - TP Substation Rm: Install - Conduit & Boxes for Light Switches\Sensors	4	30-Jun-20	03-Jul-20	-325		■		
CTS.26.50.616	CTS_CN 13 - Concessions: Pull Wire - Lighting	4	30-Jun-20	03-Jul-20	-330		■		
CTS.34.22.220	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS03 to PS09 (Traction Power)	2	02-Jul-20	03-Jul-20	-335		■		
CTS.26.50.534	CTS_CN 07 - Elevator Control Closet: Install - Elevator Controller Cabinets & Disconnects	5	30-Jun-20	06-Jul-20	-330		■		
CTS.28.31.516	CTS_CN 10 - Emergency Command Rm: Set & Hook up - Fire Alarm Control Panel	4	19-Nov-19 A	07-Jul-20	-327		■		
CTS.26.50.581	CTS_CN 01 - Wire Pulls for Ceiling Lighting	3	03-Jul-20	07-Jul-20	-327		■		
CTS.26.50.160	CTS_PL 03 - Aux Elect Rm: Install - Conduit & Devices For Lighting	2	15-Nov-19 A	07-Jul-20	-337		■		
CTS.28.31.132	CTS_PL 17 - Corridor - Install - Fire Alarm Clean Agent Control Panel	5	28-Feb-20 A	08-Jul-20	-346		■		
CTS.26.50.526	CTS_CN 03 - Ticketing Hall: Install - Overhead Lighting Conduit & Devices	5	02-Jul-20	08-Jul-20	-352		■		
CTS.26.24.515	CTS_UM 07 - Aux Elect Rm: Install - Panelboard - LCP-2 (Lighting Control)	3	06-Jul-20	08-Jul-20	-358		■		
CTS.34.22.120	CTS_UP_Install: Elect: Pull Negative Feeder Cable (Traction Power)	3	07-Jul-20	09-Jul-20	-339		■		
CTS.26.50.305	CTS_PL 03 - Aux Elect Rm: Pull Wire - Lighting	2	08-Jul-20	09-Jul-20	-337		■		
CTS.26.50.550	CTS_CN 13 - Concessions: Install - Conduit & Devices For Power	5	08-Oct-18 A	10-Jul-20	-335		■		

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	Q3	Q4	Q1
CTS.26.50.784	CTS_UM 10 - Landing: Install - Conduit & Boxes for Lighting	5	19-Dec-19 A	10-Jul-20	-323				CTS_UM 10 - Landing: Install - Conduit & Boxes for Lighting
CTS.26.50.632	CTS_CN 07 - Elevator Control Closet: Pull Wire To Elevators 3 & 4.	4	07-Jul-20	10-Jul-20	-330				CTS_CN 07 - Elevator Control Closet: Pull Wire To Elevators 3 & 4.
CTS.26.24.214	CTS_SU 05 - Aux Elect Rm: Install - Panelboard 1P (Receptacles)	2	09-Jul-20	10-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install - Panelboard 1P (Receptacles)
CTS.28.31.170	CTS_UM -Fire Alarm Terminations	5	06-Jul-20	10-Jul-20	-310				CTS_UM -Fire Alarm Terminations
CTS.34.22.230	CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS04 to PS10 (Traction Power)	2	09-Jul-20	10-Jul-20	-340				CTS_PL_Pull Cable & Terminate NB Positive Feeder Box PS04 to PS10 (Traction Power)
CTS.26.05.670	CTS_CN 13 - Concessions: Hang Fixtures & Terminate	5	06-Jul-20	10-Jul-20	-330				CTS_CN 13 - Concessions: Hang Fixtures & Terminate
CTS.26.50.380	CTS_PL 03 - Aux Elect Rm: Hang Light Fixtures & Terminate	1	10-Jul-20	10-Jul-20	-337				CTS_PL 03 - Aux Elect Rm: Hang Light Fixtures & Terminate
CTS.26.50.910	CTS_SU 05 - Aux Elect Rm: Pull Wire - Lighting	1	13-Jul-20	13-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Pull Wire - Lighting
CTS.26.50.896	CTS_SU 07 - Valve Rm: Pull Wire - Lighting	1	13-Jul-20	13-Jul-20	-326				CTS_SU 07 - Valve Rm: Pull Wire - Lighting
CTS.26.24.780	CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard 1P (Receptacles)	3	09-Jul-20	13-Jul-20	-333				CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard 1P (Receptacles)
CTS.26.50.792	CTS_UM 05 - Sewage Rm: Pull Wire & Terminate Pumps	5	08-Jul-20	14-Jul-20	-350				CTS_UM 05 - Sewage Rm: Pull Wire & Terminate Pumps
CTS.26.50.582	CTS_CN 01 - Hang Fixtures & Terminate	5	08-Jul-20	14-Jul-20	-327				CTS_CN 01 - Hang Fixtures & Terminate
CTS.26.24.730	CTS_SU 05 - Aux Elect Rm: Install - Panelboard 1HL (Public Lighting)	2	13-Jul-20	14-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install - Panelboard 1HL (Public Lighting)
CTS.26.50.902	CTS_SU 05 - Aux Elect Rm: Hang Light Fixtures & Terminate	2	14-Jul-20	15-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Hang Light Fixtures & Terminate
CTS.26.50.908	CTS_SU 07 - Valve Rm: Hang Light Fixtures & Terminate	2	14-Jul-20	15-Jul-20	-326				CTS_SU 07 - Valve Rm: Hang Light Fixtures & Terminate
CTS.26.50.886	CTS_SU 01 - Entrance: Install - Ceiling Conduit & Boxes For Light Fixtures	5	09-Jul-20	15-Jul-20	-326				CTS_SU 01 - Entrance: Install - Ceiling Conduit & Boxes For Light Fixtures
CTS.26.50.558	CTS_CN 03 - Ticketing Hall: - Lighting Wire Pulls	5	09-Jul-20	15-Jul-20	-352				CTS_CN 03 - Ticketing Hall: - Lighting Wire Pulls
CTS.26.05.914	CTS_SU 01 - Entrance: Install Conduit & Boxes for Receptacles	5	29-Nov-19 A	15-Jul-20	-331				CTS_SU 01 - Entrance: Install Conduit & Boxes for Receptacles
CTS.26.50.624	CTS_CN 03 - Ticketing Hall: Pull Wire & Set Light Switches/Sensors	5	09-Jul-20	15-Jul-20	-333				CTS_CN 03 - Ticketing Hall: Pull Wire & Set Light Switches/Sensors
CTS.28.31.133	CTS_PL 17 - Corridor - Install - Fire Alarm Preaction Cabinet	5	06-Mar-20 A	15-Jul-20	-346				CTS_PL 17 - Corridor - Install - Fire Alarm Preaction Cabinet
CTS.26.24.840	CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard 1P (Receptacles)	3	14-Jul-20	16-Jul-20	-333				CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard 1P (Receptacles)
CTS.26.50.1215	CTS_Station Platform South: Install - Linear Lighting Box Sector 1	10	03-Jul-20	16-Jul-20	-284				CTS_Station Platform South: Install - Linear Lighting Box Sector 1
CTS.26.24.740	CTS_SU 05 - Aux Elect Rm: Install - Panelboard E1HL (Emergency Lighting)	2	15-Jul-20	16-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install - Panelboard E1HL (Emergency Lighting)
CTS.26.50.804	CTS_UM 10 - Landing: Install - Conduit & Boxes For Power	5	08-Jul-19 A	17-Jul-20	-320				CTS_UM 10 - Landing: Install - Conduit & Boxes For Power
CTS.28.20.452	CTS_CN 23 - Stair 5: Set & Hook up - CCTV Camera (1 each)	1	07-Oct-19 A	17-Jul-20	-335				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	17-Jul-20	-335				CTS_CN 24 - Valve Rm: Set & Hook up - CCTV Camera (1 each)
CTS.26.50.648	CTS_CN 13 - Concessions: Pull Wire - Power	5	13-Jul-20	17-Jul-20	-335				CTS_CN 13 - Concessions: Pull Wire - Power
CTS.28.20.442	CTS_CN 25 - Stair 5A: Set & Hook up - CCTV Cameras (2 each) - Sector 3	2	21-Oct-19 A	20-Jul-20	-336				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	20-Jul-20	-336				CTS_CN 26 - Stair 4: Set & Hook up - CCTV Cameras (2 each) - Sector 1
CTS.26.24.790	CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard 1HL (Public Lighting)	3	06-Apr-20 A	20-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard 1HL (Public Lighting)
CTS.26.24.750	CTS_SU 05 - Aux Elect Rm: Install - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)	2	17-Jul-20	20-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)
CTS.26.24.810	CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)	1	21-Jul-20	21-Jul-20	-332				CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)
CTS.28.20.342	CTS_UM 01 - Stair 7: Set & Hook up - CCTV Camera (1 each)	1	07-Oct-19 A	21-Jul-20	-317				CTS_UM 01 - Stair 7: Set & Hook up - CCTV Camera (1 each)
CTS.28.20.332	CTS_UM 06 - Stair 6: Set & Hook up - CCTV Camera (1 each)	1	21-Oct-19 A	22-Jul-20	-318				CTS_UM 06 - Stair 6: Set & Hook up - CCTV Camera (1 each)
CTS.26.50.912	CTS_SU 01 - Entrance: Pull Wire For Lighting & Power	5	16-Jul-20	22-Jul-20	-326				CTS_SU 01 - Entrance: Pull Wire For Lighting & Power
CTS.26.50.1115	CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Fire Alarm Cabinets	10	09-Jul-20	22-Jul-20	-353				CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Fire Alarm Cabinets
CTS.26.50.656	CTS_CN 03 - Ticketing Hall: Hang Light Fixtures & Terminate	5	16-Jul-20	22-Jul-20	-352				CTS_CN 03 - Ticketing Hall: Hang Light Fixtures & Terminate
CTS.26.24.760	CTS_SU 05 - Aux Elect Rm: Install - Main LCP Panelboard (Lighting Control)	2	21-Jul-20	22-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install - Main LCP Panelboard (Lighting Control)
CTS.26.05.695	CTS_CN 03 - Ticketing Hall: Pull Wire & Set Receptacles	4	17-Jul-20	22-Jul-20	-338				CTS_CN 03 - Ticketing Hall: Pull Wire & Set Receptacles
CTS.26.05.928	CTS_SU 01 - Entrance: Pull Wire & Set Receptacles	5	16-Jul-20	22-Jul-20	-331				CTS_SU 01 - Entrance: Pull Wire & Set Receptacles
CTS.26.05.946	CTS_SU 01 - Entrance 6: Hang 3-5/8" Unistrut Ceiling Grid Support	5	16-Jul-20	22-Jul-20	-326				CTS_SU 01 - Entrance 6: Hang 3-5/8" Unistrut Ceiling Grid Support
CTS.26.24.800	CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard E1HL (Emergency Lighting)	3	13-Apr-20 A	23-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard E1HL (Emergency Lighting)
CTS.26.24.850	CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard 1HL (Public Lighting)	3	21-Jul-20	23-Jul-20	-335				CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard 1HL (Public Lighting)
CTS.26.05.200	CTS_PL 18 - Protective Device Settings - 12.47kV to 480v Connection	5	17-Jul-20	23-Jul-20	-359				CTS_PL 18 - Protective Device Settings - 12.47kV to 480v Connection
CTS.28.20.148	CTS_PL 09 - Aux Comm Rm: Install - CCTV Rack Cabinet - Sector 3	5	17-Jul-20	23-Jul-20	-356				CTS_PL 09 - Aux Comm Rm: Install - CCTV Rack Cabinet - Sector 3
CTS.28.20.432	CTS_CN 01: Set & Hook up - CCTV Cameras (8 each) - Sector 2	5	07-Oct-19 A	23-Jul-20	-339				CTS_CN 01: Set & Hook up - CCTV Cameras (8 each) - Sector 2
CTS.26.50.460	CTS_PL 08 - Mens Restroom: Install - Conduit & Boxes For Light Fixtures	5	11-Nov-19 A	23-Jul-20	-361				CTS_PL 08 - Mens Restroom: Install - Conduit & Boxes For Light Fixtures
CTS.26.50.455	CTS_PL 07 - Womens Restroom: Install - Conduit & Boxes For Light Fixtures	5	11-Nov-19 A	23-Jul-20	-361				CTS_PL 07 - Womens Restroom: Install - Conduit & Boxes For Light Fixtures
CTS.26.11.915	CTS_PL 18 - Main Elect Rm:Wire Pulls - Riser In Chase @ Col 2.0 To Surface	5	17-Jul-20	23-Jul-20	-339				CTS_PL 18 - Main Elect Rm:Wire Pulls - Riser In Chase @ Col 2.0 To Surface
CTS.26.50.844	CTS_UM 10 - Landing: Pull Wire - Lighting & Power	5	20-Jul-20	24-Jul-20	-320				CTS_UM 10 - Landing: Pull Wire - Lighting & Power

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q2	Q3	Q4	Q1	
CTS.26.24.860	CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard E1HL (Emergency Lighting)	1	24-Jul-20	24-Jul-20	-335					CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard E1HL (Emergency Lighting)
CTS.26.05.986	CTS_CN 13 - Concessions: Terminate Power Devices	5	20-Jul-20	24-Jul-20	-310					CTS_CN 13 - Concessions: Terminate Power Devices
CTS.26.50.982	CTS_UM - Back of House: Low Voltage Wire Pulls	15	06-Apr-20 A	24-Jul-20	-370					CTS_UM - Back of House: Low Voltage Wire Pulls
CTS.26.24.770	CTS_SU 05 - Aux Elect Rm: Install -Panelboard LCP-1 (Lighting Control)	2	23-Jul-20	24-Jul-20	-335					CTS_SU 05 - Aux Elect Rm: Install -Panelboard LCP-1 (Lighting Control)
CTS.26.50.914	CTS_SU 01 - Entrance: Install Ceiling Recessed Light Fixtures & Terminate	3	23-Jul-20	27-Jul-20	-326					CTS_SU 01 - Entrance: Install Ceiling Recessed Light Fixtures & Terminate
CTS.26.05.1056	CTS_LM 11 -Pull & Terminate Power Wiring - Exhaust Fan 1-6	5	21-Jul-20	27-Jul-20	-341					CTS_LM 11 -Pull & Terminate Power Wiring - Exhaust Fan 1-6
CTS.26.05.800	CTS_LM - Back of The House - Device Terminations (Power)	5	27-Apr-20 A	27-Jul-20	-311					CTS_LM - Back of The House - Device Terminations (Power)
CTS.26.50.798	CTS_UM 09 - Fan Rm: Terminate SV 1-6	2	27-Jul-20	28-Jul-20	-322					CTS_UM 09 - Fan Rm: Terminate SV 1-6
CTS.28.20.322	CTS_UM 04 - Corridor: Set & Hook up - CCTV Cameras (2 each)	2	14-Oct-19 A	28-Jul-20	-322					CTS_UM 04 - Corridor: Set & Hook up - CCTV Cameras (2 each)
CTS.26.24.620	CTS_CN 08 - Aux Elect Rm: Install - Panelboard LCP-4	5	22-Jul-20	28-Jul-20	-347					CTS_CN 08 - Aux Elect Rm: Install - Panelboard LCP-4
CTS.26.24.670	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard 4P - Receptacles	5	27-Apr-20 A	28-Jul-20	-327					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard 4P - Receptacles
CTS.26.50.872	CTS_SU 03 - Stair 6/7: Install - Hang Light Fixtures & Terminate	5	23-Jul-20	29-Jul-20	-313					CTS_SU 03 - Stair 6/7: Install - Hang Light Fixtures & Terminate
CTS.26.24.820	CTS_SU 05 - Aux Elect Rm: Install Raceway - Main LCP Panelboard (Lighting Control)	3	27-Jul-20	29-Jul-20	-335					CTS_SU 05 - Aux Elect Rm: Install Raceway - Main LCP Panelboard (Lighting Control)
CTS.26.24.830	CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard LCP-1 (Lighting Control)	3	27-Jul-20	29-Jul-20	-332					CTS_SU 05 - Aux Elect Rm: Install Raceway - Panelboard LCP-1 (Lighting Control)
CTS.26.24.870	CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)	3	27-Jul-20	29-Jul-20	-335					CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard E1P1 (Roll up Grilles,ARP,FAA,CCTV)
CTS.26.50.1205	CTS_PL Station Platform South: Install - Linear Lighting Box Sector 2	9	17-Jul-20	29-Jul-20	-300					CTS_PL Station Platform South: Install - Linear Lighting Box Sector 2
CTS.26.24.545	CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - LCP-2 (Lighting Control)	3	27-Jul-20	29-Jul-20	-370					CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - LCP-2 (Lighting Control)
CTS.26.50.1195	CTS_Station Platform South: Install - Linear Lighting Box Sector 3	10	17-Jul-20	30-Jul-20	-329					CTS_Station Platform South: Install - Linear Lighting Box Sector 3
CTS.28.20.525	CTS_PL 09 - Aux Comm Rm: Install - Telephone Rack Cabinet - Sector 3	5	24-Jul-20	30-Jul-20	-355					CTS_PL 09 - Aux Comm Rm: Install - Telephone Rack Cabinet - Sector 3
CTS.26.11.900	CTS_PL 18 - Main Elect Rm: Energize Main Substation SG1 & SG2	5	24-Jul-20	30-Jul-20	-359					CTS_PL 18 - Main Elect Rm: Energize Main Substation SG1 & SG2
CTS.26.11.905	CTS_PL 18 - Main Elect Rm: Energize Substation DS1 & DS2	5	24-Jul-20	30-Jul-20	-359					CTS_PL 18 - Main Elect Rm: Energize Substation DS1 & DS2
CTS.26.50.470	CTS_PL 08 - Mens Restroom: Pull Wire & Set Light Fixtures	5	24-Jul-20	30-Jul-20	-361					CTS_PL 08 - Mens Restroom: Pull Wire & Set Light Fixtures
CTS.26.50.465	CTS_PL 07 - Womens Restroom: Pull Wire & Set Light Fixtures	5	24-Jul-20	30-Jul-20	-361					CTS_PL 07 - Womens Restroom: Pull Wire & Set Light Fixtures
CTS.28.31.412	CTS_LM 03 - Storage Rm: Set & Hook up - Fire Alarm Preaction Cabinet	9	27-Feb-20 A	31-Jul-20	-315					CTS_LM 03 - Storage Rm: Set & Hook up - Fire Alarm Preaction Cabinet
CTS.28.31.413	CTS_LM 09 - Corridor - Set & Hook up - Fire Alarm Clean Agent Control Panel	9	27-Feb-20 A	31-Jul-20	-321					CTS_LM 09 - Corridor - Set & Hook up - Fire Alarm Clean Agent Control Panel
CTS.26.24.255	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NP (Ad Panels)	5	27-Jul-20	31-Jul-20	-347					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NP (Ad Panels)
CTS.26.50.205	CTS_PL 14 - Emerg Equip Rm: Install - Alarms & Access Card Readers	5	08-Jul-19 A	31-Jul-20	-305					CTS_PL 14 - Emerg Equip Rm: Install - Alarms & Access Card Readers
CTS.28.20.312	CTS_UM 09 - Fan Rm: Set & Hook up - CCTV Camera (1 each)	1	14-Oct-19 A	31-Jul-20	-325					CTS_UM 09 - Fan Rm: Set & Hook up - CCTV Camera (1 each)
CTS.26.24.990	CTS_UP_02 - Equip Corridor- Energize - 5kV Switchgear "SG-TV"	1	31-Jul-20	31-Jul-20	-343					CTS_UP_02 - Equip Corridor- Energize - 5kV Switchgear "SG-TV"
CTS.26.24.880	CTS_SU 05 - Aux Elect Rm: Terminations - Main LCP Panelboard (Lighting Control)	3	30-Jul-20	03-Aug-20	-335					CTS_SU 05 - Aux Elect Rm: Terminations - Main LCP Panelboard (Lighting Control)
CTS.28.20.273	CTS_SU 07 - Valve Rm: Set & Hook up - CCTV Camera (1 each)	1	14-Oct-19 A	03-Aug-20	-316					CTS_SU 07 - Valve Rm: Set & Hook up - CCTV Camera (1 each)
CTS.26.24.720	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard EDHL - Power Feeders	4	11-May-20 A	03-Aug-20	-347					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard EDHL - Power Feeders
CTS.26.24.550	CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2HL (Public Lighting)	3	08-Jun-20 A	03-Aug-20	-370					CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2HL (Public Lighting)
CTS.26.24.1000	CTS_UP_02 - Equip Corridor Energize MCC - Emergency Ventilation	1	03-Aug-20	03-Aug-20	-343					CTS_UP_02 - Equip Corridor Energize MCC - Emergency Ventilation
CTS.26.11.925	CTS_CN 08 - Aux Elect Rm: Energize - Panelboard EDHL	1	04-Aug-20	04-Aug-20	-347					CTS_CN 08 - Aux Elect Rm: Energize - Panelboard EDHL
CTS.26.24.700	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4HL - Emergency Lighting	5	04-May-20 A	04-Aug-20	-338					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4HL - Emergency Lighting
CTS.26.24.710	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4P1 - Fire Smoke Dampers,Clean Agent P	5	04-May-20 A	04-Aug-20	-332					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard E4P1 - Fire Smoke Dampers,Clean A
CTS.26.24.680	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard LCP-4 - Lighting Control	5	29-Jul-20	04-Aug-20	-338					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard LCP-4 - Lighting Control
CTS.26.24.690	CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard 4HL - Public Lighting	5	04-May-20 A	04-Aug-20	-338					CTS_CN 08 - Aux Elect Rm: Terminations - Panelboard 4HL - Public Lighting
CTS.26.24.160	CTS_PL 21 - Aux Elect Rm: Install - Elect Panel LCP-5 - Sector 3 (Lighting Control)	2	03-Aug-20	04-Aug-20	-353					CTS_PL 21 - Aux Elect Rm: Install - Elect Panel LCP-5 - Sector 3 (Lighting Control)
CTS.26.50.1155	CTS_PL 09 - Aux Comm Rm: Terminations - Fire Alarm Cabinets	10	23-Jul-20	05-Aug-20	-353					CTS_PL 09 - Aux Comm Rm: Terminations - Fire Alarm Cabinets
CTS.26.11.930	CTS_CN 08 - Aux Elect Rm: Energize - Lighting Panelboards	1	05-Aug-20	05-Aug-20	-338					CTS_CN 08 - Aux Elect Rm: Energize - Lighting Panelboards
CTS.26.24.890	CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard LCP-1 (Lighting Control)	3	04-Aug-20	06-Aug-20	-335					CTS_SU 05 - Aux Elect Rm: Terminations - Panelboard LCP-1 (Lighting Control)
CTS.28.20.535	CTS_PL 09 - Aux Comm Rm: Install - PA Remote Panel - Sector 3	5	27-Apr-20 A	06-Aug-20	-355					CTS_PL 09 - Aux Comm Rm: Install - PA Remote Panel - Sector 3
CTS.26.24.555	CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2P (Rcpt)	3	08-Jun-20 A	06-Aug-20	-370					CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2P (Rcpt)
CTS.26.05.976	CTS_UM - Back of House: Low Voltage Receptical Terminations	9	18-May-20 A	06-Aug-20	-329					CTS_UM - Back of House: Low Voltage Receptical Terminations
CTS.26.24.435	CTS_LM 08 - Aux Elect Rm:Terminations - Elect Panel EDP (E5SP,E5P1,E4P2,E4P1E3P2,E2P1,E1	5	27-Apr-20 A	07-Aug-20	-326					CTS_LM 08 - Aux Elect Rm:Terminations - Elect Panel EDP (E5SP,E5P1,E4P2,E4P1E3P2
CTS.26.50.270	CTS_PL 14 - Emerg Equip Rm: Install - Lighting	5	03-Aug-20	07-Aug-20	-305					CTS_PL 14 - Emerg Equip Rm: Install - Lighting
CTS.26.50.1045	CTS_LM - Install - Beam Mounted Lighting Raceway & Devices Above Escalators	5	03-Aug-20	07-Aug-20	-326					CTS_LM - Install - Beam Mounted Lighting Raceway & Devices Above Escalators
CTS.26.24.260	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NHL (Spare Powe)	5	08-Jun-20 A	07-Aug-20	-347					CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard 5NHL (Spare Powe)

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	Q3	Q4	Q1
CTS.26.24.450	CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel E3HL (Emerg Ltg)	5	08-Jun-20 A	07-Aug-20	-321				CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel E3HL (Emerg Ltg)
CTS.26.11.910	CTS_SU 05 - Aux Elect Rm: Energize Panelboards	1	07-Aug-20	07-Aug-20	-335				CTS_SU 05 - Aux Elect Rm: Energize Panelboards
CTS.26.24.170	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SHL - Sector 3 (Emerg Ltg)	5	08-Jun-20 A	07-Aug-20	-371				CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SHL - Sector 3 (Emerg Ltg)
CTS.26.50.1125	CTS_PL 09 - Aux Comm Rm: Wire Pulls to -CCTV Cabinet	10	28-Jul-20	10-Aug-20	-356				CTS_PL 09 - Aux Comm Rm: Wire Pulls to -CCTV Cabinet
CTS.26.50.1055	CTS_LM - Pull Lighting Wire - Beam Mounted Fixtures	2	10-Aug-20	11-Aug-20	-326				CTS_LM - Pull Lighting Wire - Beam Mounted Fixtures
CTS.26.24.560	CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - E2P1 (FSD,Rcpt,Emrg Blue Light)	3	15-Jun-20 A	11-Aug-20	-370				CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - E2P1 (FSD,Rcpt,Emrg Blue Light)
CTS.26.50.480	CTS_PL 08 - Mens Restroom: Install - Electric Light Fixtures	5	07-Aug-20	13-Aug-20	-358				CTS_PL 08 - Mens Restroom: Install - Electric Light Fixtures
CTS.26.50.475	CTS_PL 07 - Womens Restroom: Install - Electric Light Fixtures	5	07-Aug-20	13-Aug-20	-357				CTS_PL 07 - Womens Restroom: Install - Electric Light Fixtures
CTS.26.50.1065	CTS_LM - Install Beam Mounted Fixtures & Terminate	2	12-Aug-20	13-Aug-20	-324				CTS_LM - Install Beam Mounted Fixtures & Terminate
CTS.28.20.424	CTS_LM 01 - Comm Rm: Set & Hook up - 2 CCTV Equipment Cabinets	10	21-Oct-19 A	14-Aug-20	-334				CTS_LM 01 - Comm Rm: Set & Hook up - 2 CCTV Equipment Cabinets
CTS.26.24.570	CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2HP (EV 1-6, HR-2)	3	01-Jun-20 A	14-Aug-20	-370				CTS_UM 07 - Aux Elect Rm: Terminations - Panelboard - 2HP (EV 1-6, HR-2)
CTS.26.24.440	CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel 3P (Rcpt)	5	18-May-20 A	14-Aug-20	-326				CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel 3P (Rcpt)
CTS.26.24.265	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NP (FSD,Deluge,Emrg Blu Ltg)	5	10-Aug-20	14-Aug-20	-347				CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NP (FSD,Deluge,Emrg Blu Ltg)
CTS.26.24.445	CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel 3HL (Public Ltg, Spares)	3	04-May-20 A	14-Aug-20	-326				CTS_LM 08 - Aux Elect Rm: Terminations - Elect Panel 3HL (Public Ltg, Spares)
CTS.26.24.175	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SP - Sector 3 (Deluge,Tele,CCTV,FSD,Pre-	5	25-May-20 A	14-Aug-20	-371				CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel E5SP - Sector 3 (Deluge,Tele,CC
CTS.26.50.995	CTS_UM - Energize - Aux Electric Room Panels	1	17-Aug-20	17-Aug-20	-370				CTS_UM - Energize - Aux Electric Room Panels
CTS.26.24.600	CTS_LM 08 - Aux Elect Rm: Energize Panels	1	17-Aug-20	17-Aug-20	-326				CTS_LM 08 - Aux Elect Rm: Energize Panels
CTS.28.20.372	CTS_LM 07 - Stair 6: Set & Hook up - CCTV Camera (1 each)	1	07-Oct-19 A	17-Aug-20	-334				CTS_LM 07 - Stair 6: Set & Hook up - CCTV Camera (1 each)
CTS.26.50.1135	CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Telephone Cabinet	10	04-Aug-20	17-Aug-20	-351				CTS_PL 09 - Aux Comm Rm: Wire Pulls to - Telephone Cabinet
CTS.28.20.402	CTS_LM 02 - Stair 7: Set & Hook up - CCTV Camera (1 each)	1	14-Oct-19 A	18-Aug-20	-334				CTS_LM 02 - Stair 7: Set & Hook up - CCTV Camera (1 each)
CTS.26.24.270	CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NHL (Emerg Ltg Stair 4)	2	08-Jun-20 A	18-Aug-20	-347				CTS_PL 03 - Aux Elect Rm: Terminations - Panelboard E5NHL (Emerg Ltg Stair 4)
CTS.26.50.215	CTS_PL 02 - Fire Equip Rm: Install - Conduit & Devices for Lighting	5	04-Nov-19 A	19-Aug-20	-368				CTS_PL 02 - Fire Equip Rm: Install - Conduit & Devices for Lighting
CTS.28.20.505	CTS_LM 12 - Stair 5: Set & Hook up - CCTV Camera (1 each)	1	01-Oct-19 A	19-Aug-20	-334				CTS_LM 12 - Stair 5: Set & Hook up - CCTV Camera (1 each)
CTS.28.20.362	CTS_LM 09 - Corridor: Set & Hook up - CCTV Camera (1 each)	1	21-Oct-19 A	20-Aug-20	-334				CTS_LM 09 - Corridor: Set & Hook up - CCTV Camera (1 each)
CTS.26.50.1145	CTS_PL 09 - Aux Comm Rm: Wire Pulls - P.A. Cabinet	9	11-Aug-20	21-Aug-20	-355				CTS_PL 09 - Aux Comm Rm: Wire Pulls - P.A. Cabinet
CTS.26.24.180	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SP - Sector 3 (Digital Ads, Rcpt)	5	15-Jun-20 A	21-Aug-20	-371				CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SP - Sector 3 (Digital Ads, R
CTS.28.20.392	CTS_LM 09 - Corridor: Set & Hook up - CCTV Cameras (2 each)	2	21-Oct-19 A	24-Aug-20	-334				CTS_LM 09 - Corridor: Set & Hook up - CCTV Cameras (2 each)
CTS.26.50.1165	CTS_PL 09 - Aux Comm Rm: Terminations -CCTV Cabinets	10	11-Aug-20	24-Aug-20	-356				CTS_PL 09 - Aux Comm Rm: Terminations -CCTV Cabinets
CTS.34.21.915	CTS_PL 18 - Main Elect Rm: Energize A/C TPSS Equipment	5	19-Aug-20	25-Aug-20	-362				CTS_PL 18 - Main Elect Rm: Energize A/C TPSS Equipment
CTS.26.50.370	CTS_PL 02 - Fire Equip Rm: Pull Wire - Lighting	5	20-Apr-20 A	26-Aug-20	-368				CTS_PL 02 - Fire Equip Rm: Pull Wire - Lighting
CTS.28.20.382	CTS_LM 01 - Comm Rm: Set & Hook up - CCTV Cameras (3 each)	3	14-Oct-19 A	27-Aug-20	-334				CTS_LM 01 - Comm Rm: Set & Hook up - CCTV Cameras (3 each)
CTS.26.24.185	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SHL - Sector 3 (Public Ltg, Water Heater)	5	24-Aug-20	28-Aug-20	-371				CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel 5SHL - Sector 3 (Public Lt
CTS.34.21.935	CTS_PL 18 - Main Elect Rm: Energize DCTPSS Equipment	5	26-Aug-20	01-Sep-20	-362				CTS_PL 18 - Main Elect Rm: Energize DCTPSS Equipment
CTS.26.50.435	CTS_PL 02 - Fire Equip Rm: Hang Light Fixtures & Terminate	5	27-Aug-20	02-Sep-20	-368				CTS_PL 02 - Fire Equip Rm: Hang Light Fixtures & Terminate
CTS.26.24.610	CTS_CN 02 - Station Agent Booth: Install - Panelboard	5	27-Aug-20	02-Sep-20	-373				CTS_CN 02 - Station Agent Booth: Install - Panelboard
CTS.26.50.560	CTS_CN 02 - Station Agent Booth: Install - Lighting	3	02-Sep-20	04-Sep-20	-385				CTS_CN 02 - Station Agent Booth: Install - Lighting
CTS.26.24.190	CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel LCP-5 - Sector 3 (Lighting Control)	5	31-Aug-20	04-Sep-20	-371				CTS_PL 21 - Aux Elect Rm: Terminations - Elect Panel LCP-5 - Sector 3 (Ligh
CTS.26.05.886	CTS_UM 10 - Landing: Hang Fixtures & Terminate	5	31-Aug-20	04-Sep-20	-358				CTS_UM 10 - Landing: Hang Fixtures & Terminate
CTS.26.24.925	CTS_PL 21 - Aux Elect Rm: Energize Panels - Sector 3	1	07-Sep-20	07-Sep-20	-371				CTS_PL 21 - Aux Elect Rm: Energize Panels - Sector 3
CTS.26.50.1175	CTS_PL 09 - Aux Comm Rm: Terminations - Telephone Cabinets	10	25-Aug-20	07-Sep-20	-356				CTS_PL 09 - Aux Comm Rm: Terminations - Telephone Cabinets
CTS.26.50.1185	CTS_PL 09 - Aux Comm Rm: Terminations - P.A. Cabinet	10	25-Aug-20	07-Sep-20	-356				CTS_PL 09 - Aux Comm Rm: Terminations - P.A. Cabinet
CTS.26.05.930	CTS_Roof - HVAC Area: Install - Feeder Conduit & Disconnect Switch to Condenser { HR-1&2 }	5	03-Sep-20	09-Sep-20	-371				CTS_Roof - HVAC Area: Install - Feeder Conduit & Disconnect Switch to Cc
CTS.26.05.700	CTS_CN 02 - Station Agent Booth: Pull Wire - Power	5	03-Sep-20	09-Sep-20	-373				CTS_CN 02 - Station Agent Booth: Pull Wire - Power
CTS.26.08.100	CTS_LM - Pre-Revenue Start up & Test MEP Equip	10	28-Aug-20	10-Sep-20	-334				CTS_LM - Pre-Revenue Start up & Test MEP Equip
CTS.26.50.916	CTS_Roof - HVAC Equip Area: Install - Conduit & Boxes For Light Fixtures	2	10-Sep-20	11-Sep-20	-370				CTS_Roof - HVAC Equip Area: Install - Conduit & Boxes For Light Fixtures
CTS.26.50.658	CTS_CN 02 - Station Agent Booth: Pull Wire & Set Light Fixtures	5	07-Sep-20	11-Sep-20	-385				CTS_CN 02 - Station Agent Booth: Pull Wire & Set Light Fixtures
CTS.26.50.918	CTS_Roof - HVAC Equip Area: Pull Wire & Set Light Fixtures	2	14-Sep-20	15-Sep-20	-370				CTS_Roof - HVAC Equip Area: Pull Wire & Set Light Fixtures
CTS.28.20.302	CTS_UM 10 - Landing: Set & Hook up - CCTV Cameras (2 each)	2	21-Oct-19 A	15-Sep-20	-357				CTS_UM 10 - Landing: Set & Hook up - CCTV Cameras (2 each)
CTS.26.05.934	CTS_Roof - HVAC Equip Area: Install Conduit & Boxes for Receptacles	5	10-Sep-20	16-Sep-20	-371				CTS_Roof - HVAC Equip Area: Install Conduit & Boxes for Receptacles
CTS.26.05.266	CTS_Roof - HVAC Area: Pull - Feeder Wire & Connect Condenser { HR-1 }	5	10-Sep-20	16-Sep-20	-371				CTS_Roof - HVAC Area: Pull - Feeder Wire & Connect Condenser { HR-

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020				2021
						Q2	Q3	Q4	Q1	
CTS.26.05.267	CTS_Roof - HVAC Area: Pull - Feeder Wire & Connect Condenser { HR-2 }	5	10-Sep-20	16-Sep-20	-371					CTS_Roof - HVAC Area: Pull - Feeder Wire & Connect Condenser { HR-2 }
CTS.26.05.936	CTS_Roof - HVAC Equip Area: Pull Wire & Set Receptacles	5	10-Sep-20	16-Sep-20	-371					CTS_Roof - HVAC Equip Area: Pull Wire & Set Receptacles
CTS.28.31.526	CTS_CN 02 - Station Agent Booth Rm: Security & Communications Equipment	5	14-Oct-19 A	18-Sep-20	-385					CTS_CN 02 - Station Agent Booth Rm: Security & Communications Equipment
CTS.28.20.271	CTS_SU 03 - Stair 6: Set & Hook up - CCTV Camera (1 each)	2	07-Oct-19 A	22-Sep-20	-352					CTS_SU 03 - Stair 6: Set & Hook up - CCTV Camera (1 each)
CTS.26.05.902	CTS_SU 04 - Emerg Generator Closet: Install Conduit & Boxes for Receptacles	2	02-Dec-19 A	24-Sep-20	-378					CTS_SU 04 - Emerg Generator Closet: Install Conduit & Boxes for Receptacles
CTS.26.05.916	CTS_SU 04 - Emerg Generator Closet: Pull Wire & Set Receptacles	1	25-Sep-20	25-Sep-20	-378					CTS_SU 04 - Emerg Generator Closet: Pull Wire & Set Receptacles
CTS.26.08.110	CTS_UM - Pre-Revenue Start up & Test MEP Equip	10	16-Sep-20	29-Sep-20	-357					CTS_UM - Pre-Revenue Start up & Test MEP Equip
CTS.26.50.922	CTS_Roof - Elevator Shaft 3 & 4: Pull Wire & Set Light Fixtures	5	24-Sep-20	30-Sep-20	-381					CTS_Roof - Elevator Shaft 3 & 4: Pull Wire & Set Light Fixtures
CTS.28.20.126	CTS_SU Exterior - Entrance: Install - CCTV Cameras	5	21-Oct-19 A	30-Sep-20	-358					CTS_SU Exterior - Entrance: Install - CCTV Cameras
CTS.26.08.120	CTS_SU Level - Pre-Revenue Start up & Test MEP Equip	8	01-Oct-20	12-Oct-20	-381					CTS_SU Level - Pre-Revenue Start up & Test MEP Equip
CTS.28.20.275	CTS_SU 09 - Stair 5: Set & Hook up - CCTV Camera (1 each)	1	14-Oct-19 A	16-Oct-20	-355					CTS_SU 09 - Stair 5: Set & Hook up - CCTV Camera (1 each)
Electrical - Transportation		184	16-Dec-19 A	21-Aug-20	-355					
Architectural Finishes		394	26-Apr-19 A	06-Nov-20	-370					
Conveyances		77	06-Apr-20 A	13-Oct-20	-379					
HeadHouse		58	20-Apr-20 A	13-Oct-20	-379					
Cross Cut Cavern		77	06-Apr-20 A	02-Sep-20	-355					
Startup & Testing		30	19-Oct-20	27-Nov-20	-385					
No 13-Disp		1818	10-Jul-14 A	30-Dec-20	63					
Construction YBM Station P-1255		1782	10-Jul-14 A	29-Dec-20	64					
Concrete/Shotcrete		415	15-Oct-18 A	07-Sep-20	-355					
Electrical		43	01-May-20 A	25-Aug-20	-364					
Electrical - Transportation		322	28-May-19 A	06-Aug-20	-351					
HeadHouse		322	28-May-19 A	06-Aug-20	-351					
YBM.34.21.1095	YBM_IV 302 - Traction Power Rm: Set & Assemble - DC Switchgear	15	03-Jun-19 A	02-Jul-20	-359					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-Jun-20	02-Jul-20	-344					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	02-Jul-20	-348					YBM_IV 302 - Traction Power Rm: Install - Supervisory Panel SV01
YBM.34.21.1175	YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear	2	03-Jul-20	06-Jul-20	-333					YBM_IV 302 - Traction Power Rm: Install Conduit Between AC & DC Switchgear
YBM.34.21.1195	YBM_IV 302 - Traction Power Rm: Pull & Terminate Power Cable Between AC & DC Switchgear	2	07-Jul-20	08-Jul-20	-333					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	03-Jul-20	09-Jul-20	-339					YBM_IV 302 - Traction Power Rm: Install - DC Control Cable Tray
YBM.34.22.0370	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02	2	13-Jul-20	14-Jul-20	-338					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables PS06 to PS02
YBM.34.42.0165	Install Train Control Equipment - TCS/TCU Room	14	26-Jun-20	15-Jul-20	-328					Install Train Control Equipment - TCS/TCU Room
YBM.34.21.1165	YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear	10	03-Jul-20	16-Jul-20	-334					YBM_IV 302 - Traction Power Rm: Terminations - DC Switchgear
YBM.34.21.1235	YBM_IV 302 - Traction Power Rm: Pull Wire - DC Control	5	10-Jul-20	16-Jul-20	-339					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	17-Jul-20	20-Jul-20	-338					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	17-Jul-20	23-Jul-20	-349					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	03-Jul-20	23-Jul-20	-344					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	17-Jul-20	23-Jul-20	-339					YBM_IV 302 - Traction Power Rm: Terminate - DC Control
YBM.34.21.1255	YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder	5	24-Jul-20	30-Jul-20	-349					YBM_IV 302 - Traction Power Rm: Pull Cable - Negative Feeder
YBM.34.21.1265	YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)	5	31-Jul-20	06-Aug-20	-349					YBM_IV 302 - Traction Power Rm: Terminations - Negative Feeder (By 1256)
No 13-Location		24	03-Jul-20	05-Aug-20	-352					
YBM.34.22.0330	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03	2	03-Jul-20	06-Jul-20	-338					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS03
YBM.34.22.0340	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05	2	07-Jul-20	08-Jul-20	-338					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS05
YBM.34.22.0360	YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06	2	09-Jul-20	10-Jul-20	-338					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B-01 To PS06
YBM.34.21.1105	YBM_IV 302 - Traction Power Rm: Install - Supervisory Control Cable Tray	4	10-Jul-20	15-Jul-20	-353					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	15-Jul-20	16-Jul-20	-338					YBM_IV 302 - Traction Power Rm: Pull - Traction Power Cables Pullbox B02 To PS01
YBM.34.21.1115	YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable	15	16-Jul-20	05-Aug-20	-353					YBM_IV 302 - Traction Power Rm: Pull & Terminate - Supervisory Control Cable
Conveyances		189	06-Jan-20 A	15-Sep-20	-372					
Startup & Testing		40	16-Sep-20	10-Nov-20	-372					
No 13-Disp		1770	10-Jul-14 A	29-Dec-20	64					
Construction STS P-1256		1753	13-Jan-14 A	25-Feb-21	64					

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	Q3	Q4	Q1
Concrete/Shotcrete		5	29-Jun-20	03-Jul-20	-310				
Tunnel Concrete		561	22-Jan-18 A	25-Aug-20	-332				
Electrical		1039	14-May-14 A	05-Nov-20	102				
Chinatown Station		61	30-Jun-20	22-Sep-20	-377				
Union Square Station		38	03-Jul-20	25-Aug-20	-357				
Moscone Station		31	15-Jul-20	26-Aug-20	-358				
Fourth/King Intersection		93	26-Feb-20 A	05-Aug-20	-343				
Fourth Street		751	17-Apr-17 A	16-Sep-20	-339				
Fifth Street		6	21-Aug-20	28-Aug-20	-380				
Fourth/Brannan Station		534	19-Feb-18 A	09-Oct-20	-372				
Harrison St		3	30-Jul-20	03-Aug-20	-369				
Bryant St		6	07-Jan-19 A	03-Sep-20	-369				
Brannan St		500	19-Jun-17 A	22-Sep-20	-387				
Townsend St		39	30-Dec-19 A	25-Sep-20	-380				
HeadHouse		2	03-Jul-20	06-Jul-20	-321				
North Concourse - Stockton St		5	13-Jul-20	17-Jul-20	-340				
Northbound Tunnel or Trackway		1039	20-Apr-16 A	05-Nov-20	-375				
Southbound Tunnel or Trackway		938	21-Apr-16 A	28-Oct-20	108				
STS.34.42.0690	STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone	1	26-Jun-20	26-Jun-20	-320				STS_Install: Train Control - Remote Feed Boxes- SB Portal to Moscone
STS.08.12.140	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #1	3	08-Jun-20 A	28-Jun-20	-452				STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #1
STS.08.12.150	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #2	3	08-Jun-20 A	28-Jun-20	-395				STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #2
STS.08.12.160	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #3	3	01-Jun-20 A	28-Jun-20	-452				STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #3
STS.08.12.170	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #4	3	06-Jul-20 A	28-Jun-20	-452				STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #4
STS.08.12.180	STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #5	3	15-Jun-20 A	28-Jun-20	-452				STS_Install: Blast Resistant Metal Doors\Frames SB Cross Passage #5
STS.34.42.1070	STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square	1	29-Jun-20	29-Jun-20	-320				STS_Install: Train Control - Remote Feed Boxes/Track Heads SB Moscone to Union Square
STS.34.42.1440	STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown	1	29-Jun-20	30-Jun-20	-320				STS_Install: Train Control - Remote Feed Boxes- SB Union Square to Chinatown
STS.26.05.1370	STS_Install: Tunnel Electrical -Lighting Fixtures - SB Chinatown to North Limits	5	27-May-20 A	02-Jul-20	189				STS_Install: Tunnel Electrical -Lighting Fixtures - SB Chinatown to North Limits
STS.34.42.1060	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Square	6	26-Jun-20	03-Jul-20	-329				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Moscone to Union Square
STS.34.42.0600	STS_Install: Train Control - Train Control Signals - SB Portal to Moscone	6	30-Jun-20	07-Jul-20	-349				STS_Install: Train Control - Train Control Signals - SB 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	09-Jul-20	-378				STS_Install: Train Control - Train Control Conduit - & JB's SB Portal To Moscone
STS.26.05.1290	STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Chinatown to North Limits	4	29-May-20 A	09-Jul-20	184				STS_Install: Tunnel Electrical - Electrical Lighting Conduit & JB's - SB Chinatown to North Limits
STS.34.42.1800	STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Union Square to Chinatown	6	03-Jul-20	13-Jul-20	-329				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 To	2	05-Aug-19 A	13-Jul-20	-329				STS_Install: Tunnel Electrical - Traction Power Connection Boxes/OCS Risers SB17- SB Chinatown To
STS.34.42.0710	STS_Install: Train Control - SB ATSC Entry Point Signage - Portal	1	15-Jul-20	15-Jul-20	-331				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	08-Jul-20	15-Jul-20	-349				STS_Install: Train Control - Train Control Signals - SB Moscone to Union Square
STS.34.42.1090	STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone	1	16-Jul-20	16-Jul-20	-331				STS_Install: Train Control - SB ATSC Entry Point Signage - Moscone
STS.28.20.1810	STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits	2	15-Jul-20	16-Jul-20	-330				STS_Install: Tunnel Electrical - CCTV Cameras - SB Chinatown to North Limits
STS.34.42.1460	STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square	1	17-Jul-20	17-Jul-20	-331				STS_Install: Train Control - SB ATSC Entry Point Signage - Union Square
STS.34.42.1820	STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown	1	20-Jul-20	20-Jul-20	-331				STS_Install: Train Control - SB ATSC Entry Point Signage - Chinatown
STS.34.42.2330	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone	4	15-Jul-20	20-Jul-20	-359				STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Portal To Moscone
STS.34.42.1720	STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown	6	16-Jul-20	23-Jul-20	-349				STS_Install: Train Control - Train Control Signals - SB Union Square to Chinatown
STS.34.42.1810	STS_Install: Train Control - Remote Feed Boxes- SB Chinatown to North Limits	1	24-Jul-20	24-Jul-20	-337				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 Limi	1	24-Jul-20	24-Jul-20	-337				STS_Install: Train Control - Axle Counter Electronics Boxes/Track Heads SB Chinatown to North Limi
STS.26.05.3870	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Moscone to Union Square	5	21-Jul-20	27-Jul-20	-352				STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Moscone to Union Square
STS.26.05.1010	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square	3	24-Jul-20	28-Jul-20	-352				STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to Union Square
STS.34.42.1350	STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits	3	24-Jul-20	28-Jul-20	-339				STS_Install: Train Control - Train Control Signals - SB Chinatown to North Limits
STS.34.23.1410	STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB Chinatown to North Limits	5	09-Mar-20 A	30-Jul-20	-349				STS_Install: Tunnel Electrical - OCS Catenary Hangers - SB 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	28-Jul-20	30-Jul-20	-389				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB09 To SB05 - UMS To MC
STS.34.22.3010	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I	4	28-Jul-20	31-Jul-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB04 To PS-02 - MOS I
STS.34.23.1400	STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - SB Chinatown to North Limits	1	31-Jul-20	31-Jul-20	-345				STS_Install: Tunnel Electrical - OCS Elastic Arm Assemblies - SB Chinatown to North Limits
STS.26.05.3820	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscone to U	3	29-Jul-20	31-Jul-20	-340				STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Moscon
STS.26.05.3880	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown	5	05-Jun-20 A	03-Aug-20	167				STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Union Square to Chinatown

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	2020			2021
						Q2	Q3	Q4	Q1
STS.34.22.3190	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MOS Nort	1	03-Aug-20	03-Aug-20	170				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB05 To PS-03 - MC
STS.34.23.2000	STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - SB Chinatown to North Limits	5	31-Jul-20	06-Aug-20	-349				STS_Install: Tunnel Electrical - OCS Steady Arm Assemblies - SB Chinatown to North Limit
STS.26.05.3890	STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Chinatown to North Limits	3	04-Aug-20	06-Aug-20	167				STS_Install: Tunnel Electrical - Pull/Terminate Power & Lighting - SB Chinatown to North Lin
STS.34.22.2980	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05 - UMS Tc	10	27-Jul-20	07-Aug-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB09 To SB05
STS.34.22.3160	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 - UMS Sour	1	10-Aug-20	10-Aug-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-06 To PFCB SB09 -
STS.34.22.2970	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB09 - UMS	2	01-Jun-20 A	11-Aug-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-06 To PFCB SB
STS.34.23.1900	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Moscone to Union Square	14	23-Jul-20	11-Aug-20	-359				STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Moscone to Union S
STS.34.22.3150	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03 - UMS Nort	1	12-Aug-20	12-Aug-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB10 To PS-03
STS.34.42.2300	STS_Install: Train Control - Train Control Conduit - & JB's SB Moscone to Union Square	13	12-Mar-18 A	14-Aug-20	-378				STS_Install: Train Control - Train Control Conduit - & JB's SB Moscone to Union Square
STS.34.22.2960	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS-03 - UMS	2	13-Aug-20	14-Aug-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB10 To PS
STS.26.05.1750	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to Chinatown	3	14-Aug-20	18-Aug-20	-355				STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Union Square to
STS.34.23.1920	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Union Square to Chinatown	12	05-Aug-20	20-Aug-20	-359				STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Union Square to
STS.26.05.3830	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Union Square	3	19-Aug-20	21-Aug-20	-355				STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB
STS.26.05.1310	STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Chinatown to North Limits	7	27-May-20 A	24-Aug-20	-357				STS_Install: Tunnel Electrical - Telephone Conduit - & JB's SB Chinatown to North
STS.28.20.1320	STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Chinatown to North Limits	16	27-May-20 A	24-Aug-20	-357				STS_Install: Tunnel Electrical - CCTV Conduit - & JB's SB Chinatown to North Limi
STS.28.20.1850	STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North Limits	1	25-Aug-20	25-Aug-20	-357				STS_Install: Tunnel Electrical - CCTV Pull Wire & Terminate SB Chinatown to North
STS.26.05.1380	STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to North Limits	2	25-Aug-20	26-Aug-20	-357				STS_Install: Tunnel Electrical - Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to
STS.34.23.1890	STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Chinatown to North Limits	5	21-Aug-20	27-Aug-20	-359				STS_Install: Tunnel Electrical - OCS Wires, Spacers, Insulators - SB Chinatown to
STS.34.42.2320	STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to Chinatown	14	21-Apr-16 A	28-Aug-20	-375				STS_Install: Train Control - Train Control Conduit - & JB's SB Union Square to C
STS.26.05.3840	STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights - SB Chinatown to	2	27-Aug-20	28-Aug-20	-357				STS_Install: Tunnel Electrical - Pull & Terminate Emerg Tel/SFFD Tel/Blue Lights
STS.34.22.2950	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB16 To SB10 - CTS T	15	01-Jun-20 A	02-Sep-20	-395				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB
STS.34.22.3140	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB16 To SB10 - CTS To U	3	31-Aug-20	02-Sep-20	-370				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB16 T
STS.34.42.2340	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone to Union Square	13	17-Aug-20	02-Sep-20	-378				STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Moscone
STS.34.42.2290	STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to North Limits	5	31-Aug-20	04-Sep-20	-367				STS_Install: Train Control - Train Control Conduit - & JB's SB Chinatown to N
STS.34.22.2940	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 To PFCB SB16 - CTS So	3	03-Sep-20	07-Sep-20	-370				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PS-8 T
STS.34.42.0580	STS_Install: Train Control - Train Control Cable Loop System SB Portal To Moscone	4	13-May-19 A	08-Sep-20	-395				STS_Install: Train Control - Train Control Cable Loop System SB Portal To M
STS.34.22.3130	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PFCB SB16 - CTS South	1	08-Sep-20	08-Sep-20	-370				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PS-8 To PF
STS.34.22.2930	STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB SB17 To PS-5 - Chinat	2	09-Sep-20	10-Sep-20	-370				STS_Install: Tunnel Electrical - Pull/Terminate Traction Power Cable - PFCB
STS.34.22.3120	STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB17 To PS-5 - Chinatown	1	11-Sep-20	11-Sep-20	-370				STS_Install: Tunnel Electrical - Pull/Terminate OCS Riser Cable - PFCB SB
STS.34.42.2360	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Union Square to Chinatown	13	03-Sep-20	21-Sep-20	-378				STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB U
STS.34.42.2350	STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB Chinatown to North Limits	2	22-Sep-20	23-Sep-20	-378				STS_Install: Train Control - Train Control Pull ATSC Wire & Cable SB
STS.34.42.0960	STS_Install: Train Control - Train Control Cable Loop System SB Moscone to Union Square	12	09-Sep-20	24-Sep-20	-395				STS_Install: Train Control - Train Control Cable Loop System SB M
STS.27.32.1790	STS_Install: Tunnel Electrical - Radiax Cable SB Portal To Moscone	5	25-Sep-20	01-Oct-20	-363				STS_Install: Tunnel Electrical - Radiax Cable SB Portal To Mos
STS.27.32.1800	STS_Install: Tunnel Electrical - Radiax Cable SB Moscone to Union Square	7	02-Oct-20	12-Oct-20	-363				STS_Install: Tunnel Electrical - Radiax Cable SB Moscone
STS.34.42.1700	STS_Install: Train Control - Train Control Cable Loop System SB Union Square to Chinatown	14	25-Sep-20	14-Oct-20	-395				STS_Install: Train Control - Train Control Cable Loop Syst
STS.34.42.1330	STS_Install: Train Control - Train Control Cable Loop System SB Chinatown to North Limits	2	15-Oct-20	16-Oct-20	-395				STS_Install: Train Control - Train Control Cable Loop Syst
STS.27.32.1780	STS_Install: Tunnel Electrical - Radiax Cable SB Union Square to Chinatown	7	13-Oct-20	21-Oct-20	-363				STS_Install: Tunnel Electrical - Radiax Cable SB Union
STS.27.32.1810	STS_Install: Tunnel Electrical - Radiax Cable SB Chinatown to North Limits	5	22-Oct-20	28-Oct-20	-363				STS_Install: Tunnel Electrical - Radiax Cable SB C
Tunnel Portal		5	15-Jul-20	21-Jul-20	-347				
King Substation (Traction Power)		10	10-Jul-20	23-Jul-20	-359				
Power Control Center (Near Bryant/Alameda)		25	24-Jul-20	27-Aug-20	-359				
No 13-Location		758	14-May-14 A	09-Oct-20	106				
Electrical - Transportation		10	26-Jun-20	09-Jul-20	-285				
Trackwork		5	10-Jun-19 A	08-Jul-20	-323				
Startup & Testing		40	15-Feb-21 A	29-Dec-20	-407				
No 13-Disp		1753	13-Jan-14 A	25-Feb-21	64				
Unallocated Contingency		378	26-Jun-20	28-Dec-21	-397				

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:

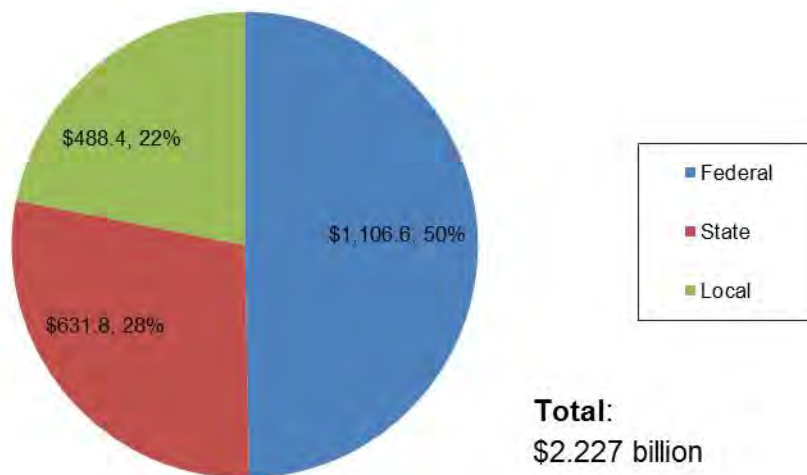
- Phase 1 + Phase 2 of the T Third Line federal, state and local funding percentages previous to the addition of the retrieval shaft relocation budget and funding in December 2013.

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.

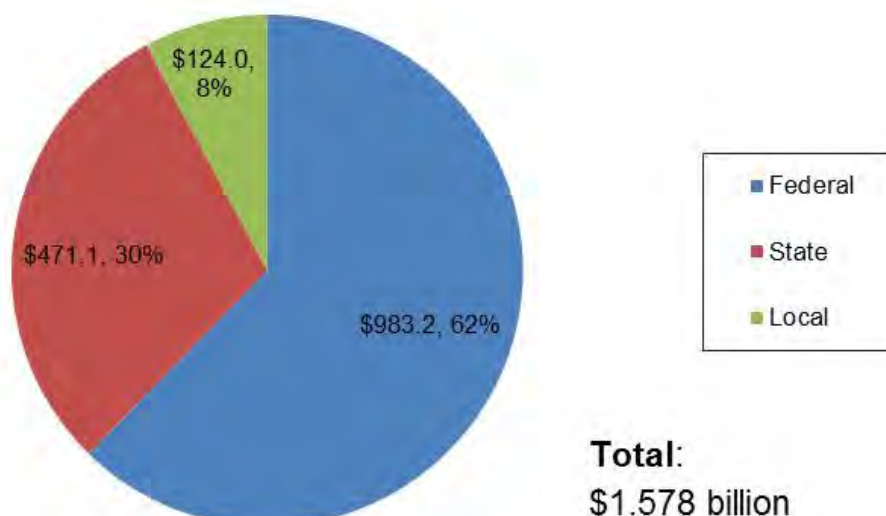
Third Street Light Rail Transit Project Funding

Phase 1 + Phase 2
(\$ in millions)



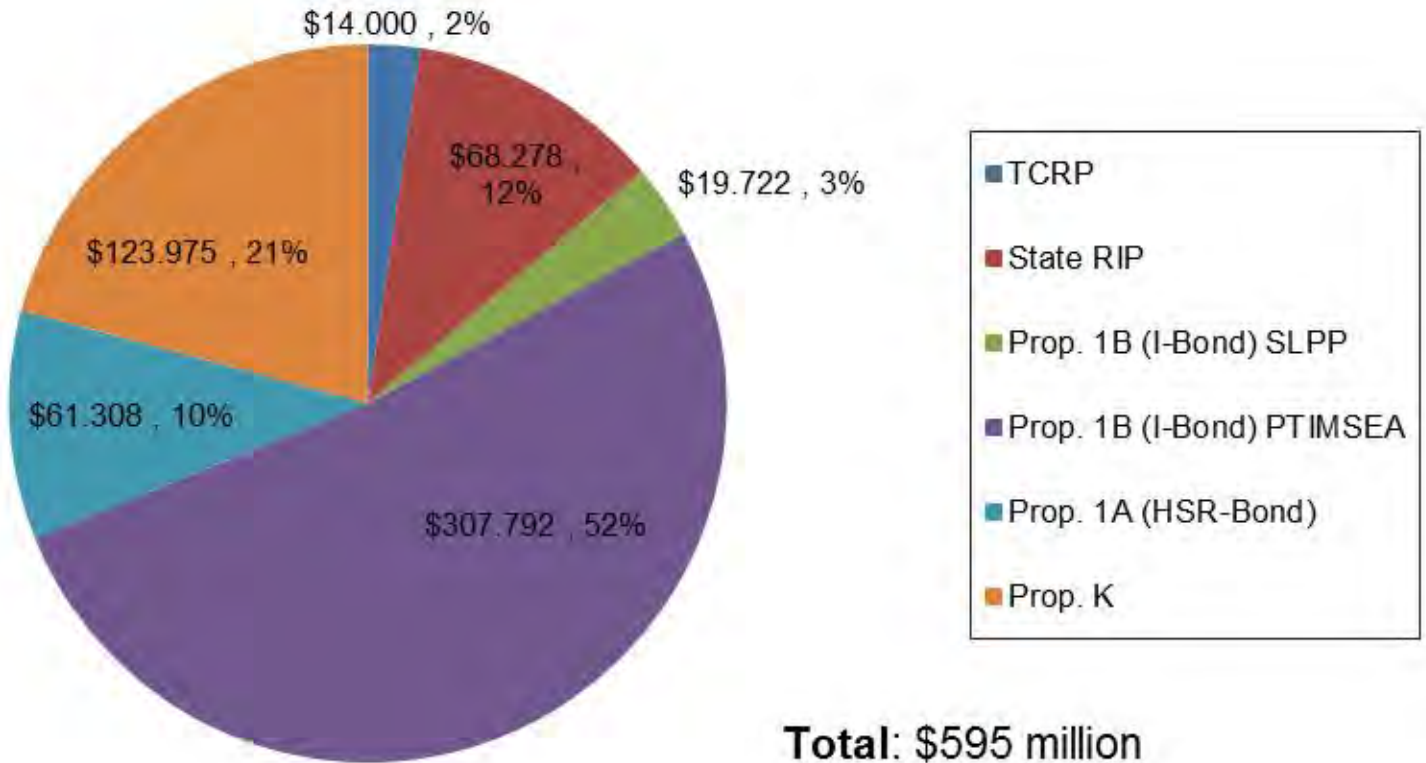
Central Subway Project Funding

Phase 2
(\$ in millions)



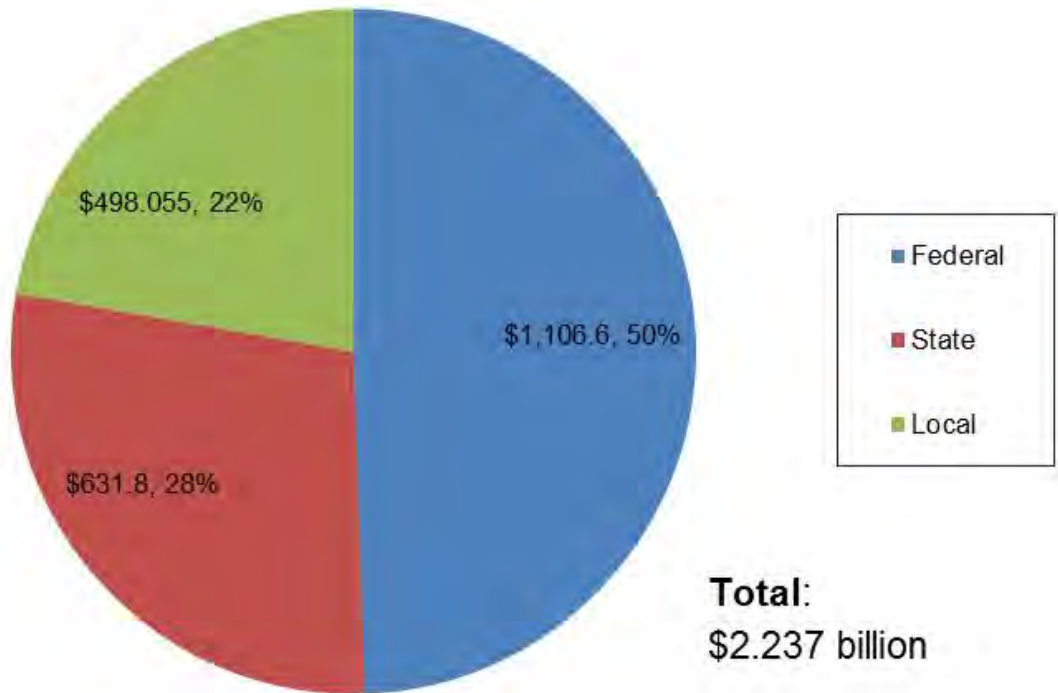
State and Local Funding

Phase 2
(\$ in millions)



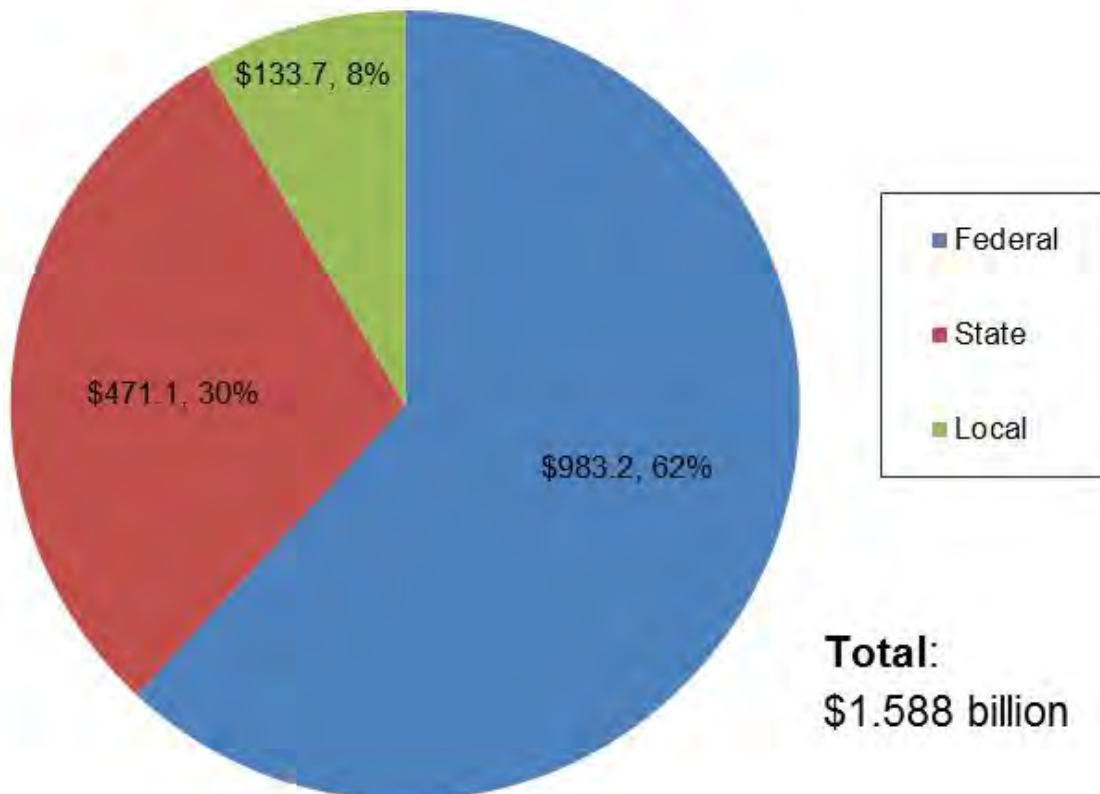
Third Street Light Rail Transit Project Funding

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

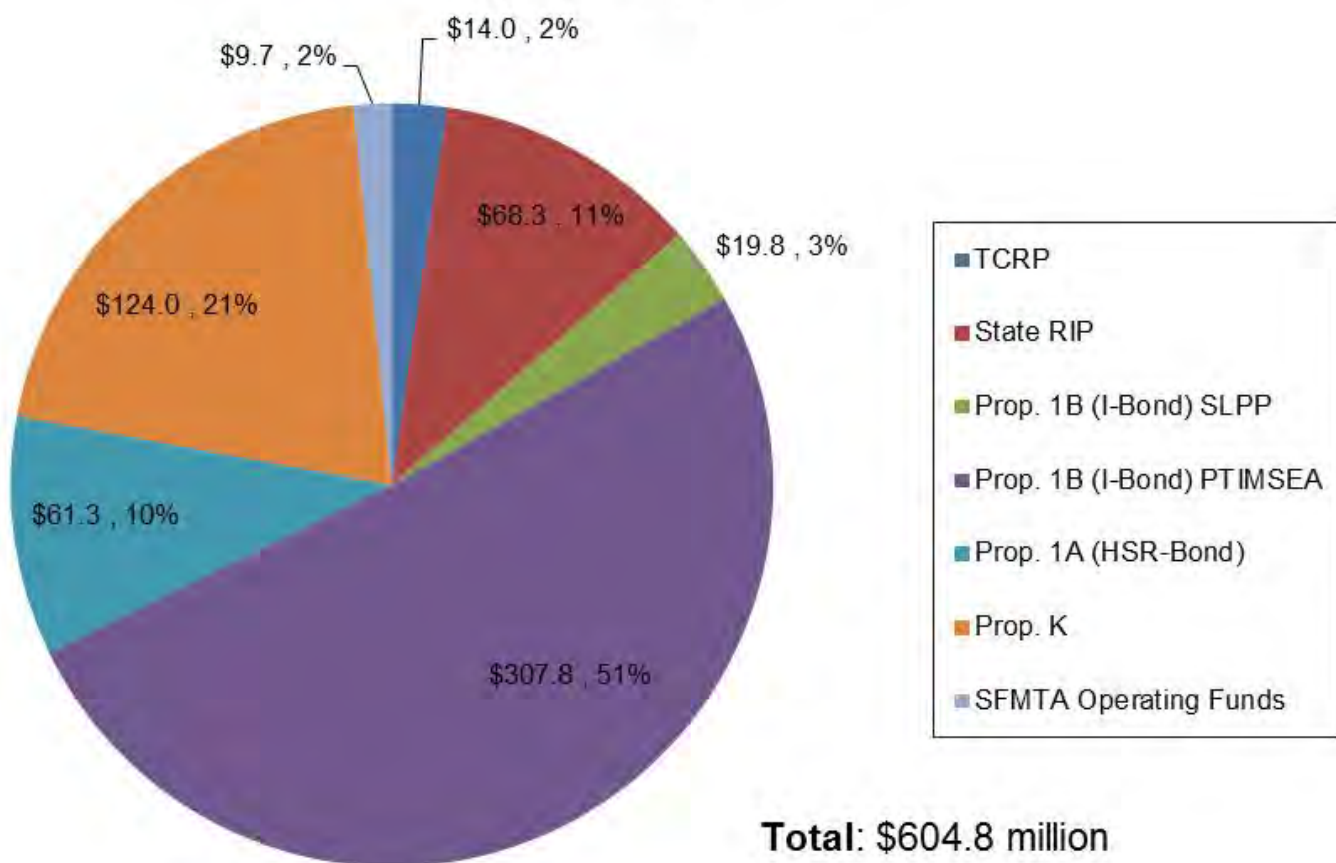


Central Subway Project Funding

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

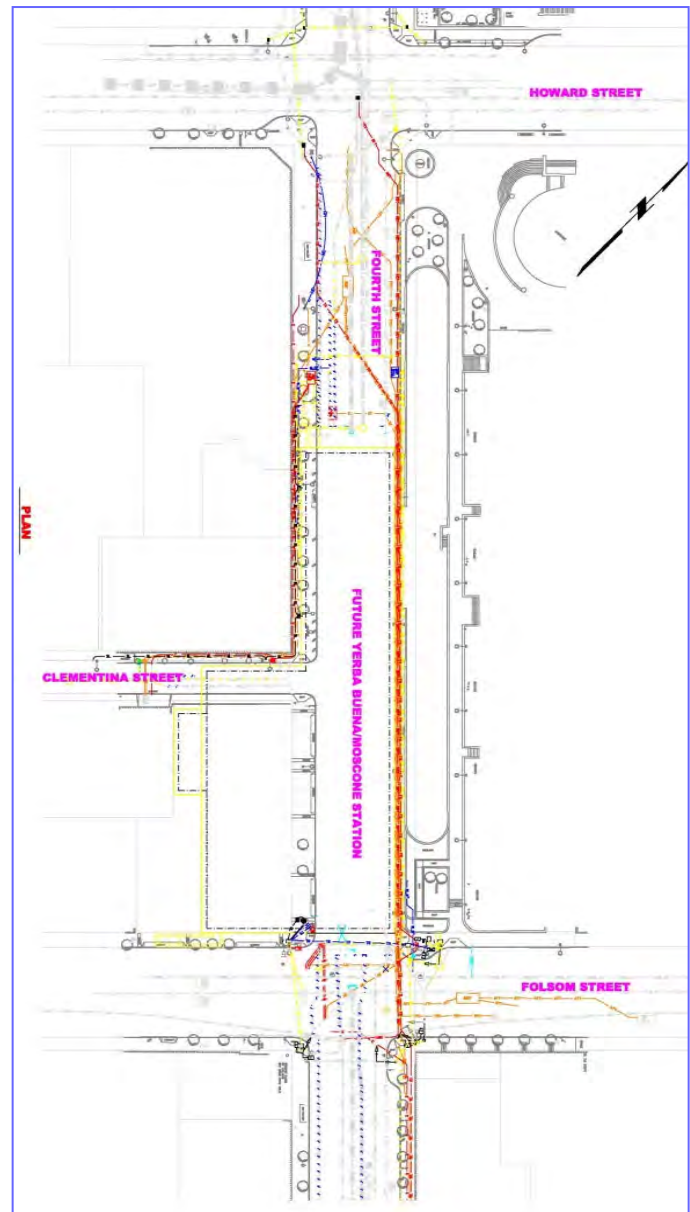
Contract Awarded:	November 17, 2009
Notice to Proceed:	January 4, 2010
Substantial Completion:	June 23, 2011
Contract Award Value:	\$ 9,273,939
Modifications Final :	\$ 2,694,211
Final Contract Value:	\$11,968,150

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)

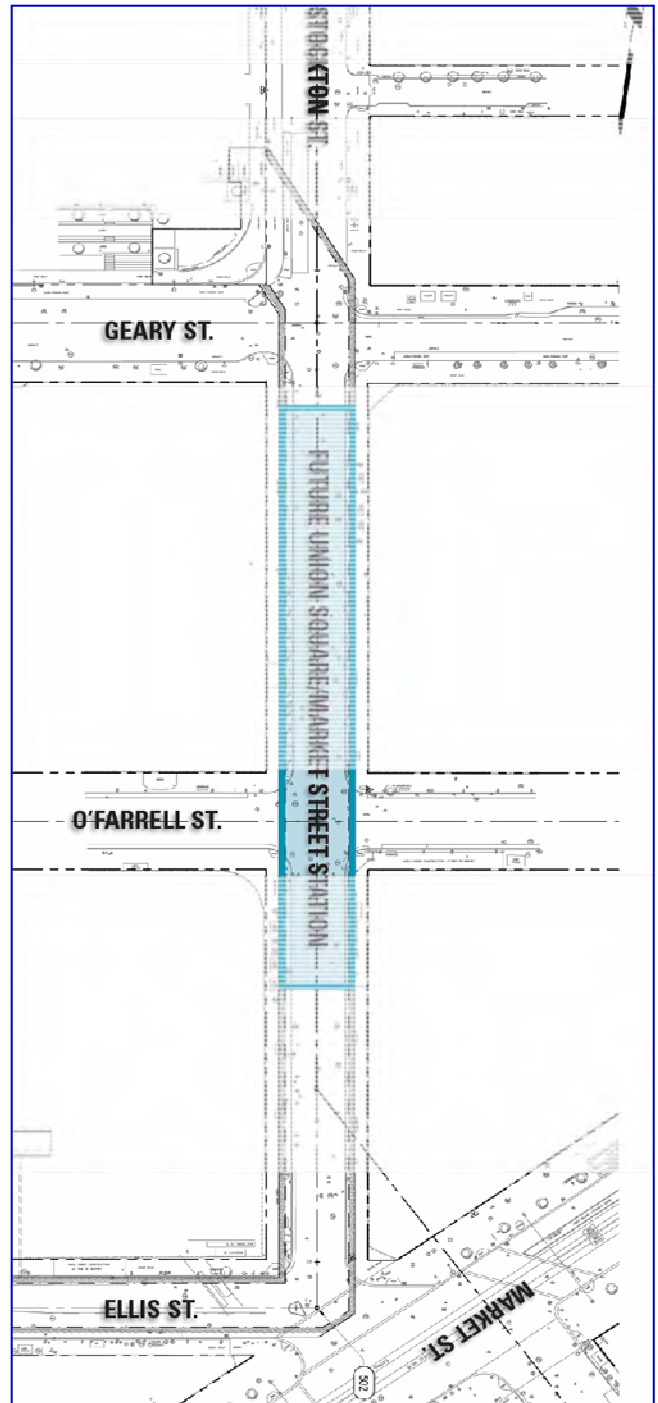
Contract Details	
Contract Awarded:	December 7, 2010
Notice to Proceed:	January 12, 2011
Substantial Completion:	August 16, 2012
Contract Award Value:	\$16,832,550
Modifications Final:	\$3,836,531
Final Contract Value:	\$20,669,081

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

Description

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



Central Subway Pagoda Palace Demolition

Contract 1277 Contractor: MH Construction

Work Description

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

- 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: January 2020 to March 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 March 31, 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

			A	B	C	D	E	F	G	
Contract No.	Contractor	Services/Segment	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			<i>millions</i>			<i>millions</i>				
1	149	CS Partnership	Project Management	\$97.72	30%	\$91.11	31.8%	\$29.31	\$28.95	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	\$47.90	30%	\$46.83	30.0%	\$14.37	\$14.05	36.4%
5	155-3	HNTB, Inc.- B&C	Systems, Track & Surface Station Design	\$17.23	30%	\$17.15	25.7%	\$5.17	\$4.41	30.0%
Subtotal Professional Services			\$187.90		\$173.11		\$55.69	\$52.75		
B Project Construction Contracts			<i>millions</i>			<i>millions</i>				
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	888.28	20%	\$854.74	19.9%	\$177.66	\$170.10	25.5%
Subtotal Construction Contracts			\$1,161.57		\$1,128.03		\$199.24	\$214.35		
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 #76 March 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: 3/31/2020

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.)	91,110,299
	% Expended	93.2%
	SBE SFMTA Goal	30.0%
	SBE Participation	31.8%

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 (4)	\$7,950,658
	Current Contract Value	\$47,900,606
	Expended to Date (est.)	\$46,830,348
	% Expended	97.8%
	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	\$16,864,250
	Approved Change Orders (9)	\$368,002
	Current Contract Value	\$17,232,252
	Expended to Date (est.)	17,149,323
	% Expended	99.5%
	SBE SFMTA Goal	30.0%
	SBE Participation	25.7%

* denotes accrual

Active and Completed Construction Contracts - SBE Participation Details

Data as of: 3/31/2020

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	\$48,604,326
Current Contract Value	\$888,280,726
Expended to Date (est.)	\$854,736,169
% Expended	96.2%
SBE SFMTA Goal	20.0%
SBE Participation To Date	19.9%

Photos on the next page:

(top to bottom) March 2020:
 At Chinatown Station, perforated metal panels are installed against the arched walls and ceiling for the platform cavern. Crews install lighting, ceiling panels, and a public art LED array inside the south concourse for Union Square Market Street Station. At Yerba Buena/Moscone Station, recently poured terrazzo floor coating is being ground and smoothed on the concourse level. Large river rocks are placed into wet concrete to hinder errant motorists from entering the tunnel portal just north of the 4th and Brannan intersection at Surface, Track, and Systems.

central subway

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