


Memorandum

CS Memorandum No. 1694

To: Distribution

From: Beverly Ward, CMB/Risk Management Assistant 

Date: May 02, 2014

Reference: Project No. M544.1, Contract No. CS-149
Task No. 1-8.02, Change Control

Subject: Configuration Management Board Meeting No. 168

Attached please find minutes for Configuration Management Board Meeting No. 168 held on April 30, 2014.

Attachments: CMB Meeting No. 168 Rev. 0 Minutes with attachments

Cc: David Kuehn, STV (w/attachments) david.kuehn@stvinc.com
Robert Hansen, CPUC (w/attachments) robert.hansen@cpuc.ca.gov
Steve Espinal, CPUC (w/attachments) steven.espinal@cpuc.ca.gov
Jimmy Xia, CPUC (w/attachments) jimmy.xia@cpuc.ca.gov
Shahnam Farhangi, SFMTA (w/attachments) - via email
Melvyn Henry, SFMTA (w/attachments) - via email
Kartik Shah, SFMTA (w/attachments) - via email
John Haley, SFMTA (w/attachments) - via email
Scott Jefferis, SFMTA (w/attachments) - via email
Mike Kobler, CSP (w/attachments) - via email
Jim Kelly, SFMTA (w/attachments) - via email
Mark Vilcheck, CSP (w/attachments) - via email
Steve Tisell, CSP (w/attachments) - via email
Mike Acosta, SFMTA (w/attachments) - via email
Vivian Chow, SFMTA (w/attachments) - via email

CS File No. M544.1.5.0890

Distribution:

Brad Lebovitz, STV bradley.lebovitz@stvinc.com
Luis Zurinaga, SFCTA luis.zurinaga@sfcta.org
Joon Park, SFMTA
Roger Nguyen, SFMTA
John Funghi, SFMTA
Albert Hoe, SFMTA
Jane Wang, SFMTA
Richard Redmond, CSP
Alex Clifford, CSP
Mark Latch, CSP
Eric Stassevitch, CSP
Beverly Ward, CSP

CMB Meeting Minutes #168

DATE: May 02, 2014

MEETING DATE: April 30, 2014

LOCATION: 821 Howard St, Main Conference Room

TIME: 3:00 PM

ATTENDEES: J. Park (JP), A. Clifford, (AC), J Funghi (JF), A. Hoe (AH), R. Nguyen (RN), M. Latch (ML), R. Redmond, (RR), J. Wang (JW), E. Stassevitch (ES), B. Lebovitz (BL)B. Ward (BW), L. Zurinaga (LZ)

COPIES TO: Attendees: S. Farhangi (SF), M. Henry (MH), S. Tisell (ST), K. Shah (KS), J. Xia (JX) M. Acosta (MA), V. Chow (VC), M. Kobler (MK),M. Vilcheck,(MV), S. Jefferis (SJ), S. Espinal (SE), R. Hansen (RH), D. Kuehn (DK)
File No. M544.1.5.0890

REFERENCE Project No. M544.1, Contract No. 149 Task 1-8.02

SUBJECT: Configuration Management Board Meeting # 168 – Rev. No. 0

RECORD OF MEETING *(Italicized text indicates status update of open items)*

ITEM #	DISCUSSION	ACTION BY DUE DATE
1	J. Wang presented a follow on presentation for the Board members not present at last week’s meeting of PCC05 proposal cost to have the 1300 Contractor perform estimating services of the Chinatown Plaza over the CTS headhouse. PCC 05 directs the Contractor to perform construction-estimating support to SFMTA designer at regular intervals during design process on T&M basis (see attached). The constructability review will be funded by related SFMTA Capital Improvement Funds. The Board concurred with the cost associated with construction estimating support for a Not to Exceed amount of \$75K AGREE – CMB 0154 . Recommending the proposed contract change is re-written to clearly delineate the Contractor’s scope and task deliverables.	
2	A. Clifford presented merit and cost comparison sheet to request negotiation position for COR 82 - MOS 20" Conflict with 16" AWSS at South Headwall. The Contractor could not install the 20" waterline required per the contract drawings due to a conflict with the existing joint trench utilities located on Folsom at the intersection of 4th Street. The Contractor submitted revised alignment to reroute the waterline. The new alignment required hand excavation to be done underneath an existing gas main to cross through the waterline. The new alignment reduces the overall waterline required by 65 feet. The CMB agreed to partial merit for costs associated with additional work required to reroute the 20" waterline. The Board also agreed SFMTA should be compensated for the reduction of overall waterline to be installed and should negotiate with the Contractor a credit for an amount no less than \$25K .	
3	A. Clifford presented for considering a budget revision for DP2 Design Services during	

ITEM #	DISCUSSION	ACTION BY DUE DATE
	Construction. A summary spreadsheet was shown demonstrating the break out work categories under task16 - completed to date, remaining work, and reasons for overruns to support the request for additional \$7,983 in funds. The Board agreed to provide additional budget to the Designer for a not to exceed amount \$8K for the work listed in "reasons for overrun" category (see attached).	
4	Contract 1300 Notice of Differing Site Conditions (NDSC) and Trend Logs was exported from Contract Management (CM-13) and viewed as an as an excel file. Permitting the information being tracked to be viewed by the Board in one integrated location. Contract information will be extracted from CM-13 on a weekly basis the day of the CMB meeting to create a comprehensive trend log of Issues, PCC's, COR's and Change Orders. The Board took no exception to the format of the presentation to be used at future CMB meetings.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
8	07/24/13	07/24/13	1252 – Breakdown of Bid Item GE-3	AC/MLe	05/07/14	Open
2	08/14/13	08/14/13	1252 – CMod #8 (PSI strength) – Statement of occurrence post meeting record of approval which overrode CMB direction	AC/MLe	05/07/14	Open
1	08/28/13	08/28/13	1252 – Outstanding COR's – status update	AC/MLe	05/07/14	Open
2 & 3	08/28/13	08/28/13	1252 – COR 97 & 98 – gravel encountered action plan from Engineering of Record (DP1)	AC/MLe	05/07/14	Open
5	08/28/13	08/28/13	1252 – Action plan of execution for the Slip Lining Work (Stockton/Columbus)	AC/MLe	05/07/14	Open
4	09/25/13	10/02/13	1252 – COR #104 - Additional Sewer Slip Lining – SFPUC Response	AC/MLe	05/07/14	Open
5	09/25/13	10/02/13	1300 – PCC CTS 0001 - Contractor Cost Proposal	MK	05/07/14	Open
2	10/09/13	10/09/13	1252 – Design Clause - confirmation of existing contract language in CN 1252 and CN 1300 regarding existing conditions related to utilities	JW/AH	05/07/14	Open
1	10/16/13	10/16/13	1252 – COR 102 - Determine if the Contractor received 1251 as built information before they began operations	AC/MLe	05/07/14	Open
1	10/16/13	10/16/13	1252 – COR 102 - Graphic showing the location of the headwalls control line	AC/MLe	05/07/14	Open
3	10/23/13	10/23/13	1252 – PCC 014 - Contractor Cost Proposal	JW/AC	05/07/14	Open
2	11/06/13	11/06/13	1252 - COR 017 – Notify utility of cost as Form B bill update under CN1250 or CN1251	AC/MLe	05/07/14	Open
3	11/06/13	11/06/13	1252 – Slurry Wall Panels – TIA to be sent to BIH – SFMTA's time savings and premium cost saving time	AC/MLe	05/07/14	Open

2	11/13/13	11/13/13	1300 – Setup a meeting with DT to confirm the use to control traffic	BK	05/07/14	Open
NA	11/13/13	11/13/13	1252 – Confirm who is being billed for the use of PCO's at 5 th St.	AC/MLe	05/07/14	Open
2	11/20/13	11/20/13	1300 – PCC 00X - PGE Traffic Control - Utility verification letter	MK	05/07/14	Open
7	12/11/13	12/11/13	1252- BART Load Cell - Conference Call	JW	05/07/14	Open
9	12/11/13	12/11/13	1252 - Trend Log Segment Measuring Frequency line item credit (1.3M)	AC/MLe	05/07/14	Open
2	01/08/14	01/08/14	1300 - PCC - Contractor Cost Proposal - Geoprobos	RF/ST	05/07/14	Open
4	01/08/14	01/08/14	1300 - PCC - Contractor Cost Proposal - Joint Trench Conduits	MK	05/07/14	Open
4	01/15/14	01/15/14	1300 - CTS confirmation from PG&E of cost for concrete encasement of lines	MK	05/07/14	Open
2	04/11/14	04/11/14	CM13 - CN1300 Reporting Presentation	ES	05/30/14	CLOSED

Meeting adjourned at 6:00pm

These meeting minutes have been prepared by B. Ward and reviewed by E. Stassevitch, and are the preparer's interpretation of discussions that took place. If the reader's interpretation differs, please contact the author in writing within four (4) days of receipt of these minutes.

Signed:  [initials of preparer & reviewer] Date: 02 May 14 [Date review completed]

Meeting Agenda

Project No. M544.1, Contract No. CS-149
Program/Construction Management
Configuration Management Board (CMB) Meeting No. 168
April 30, 2014
3:00pm – 5:00pm
 Central Subway Project Office
 821 Howard St. 2nd Floor
 Main Conference Room

Attendees:

John Funghi		Brad Lebovitz		Beverly Ward	
Albert Hoe		Roger Nguyen		Luis Zurinaga	
Scott Jefferis		Richard Redmond			
Mark Latch		Eric Stassevitch			

1. **1252** - COR 82 -MOS 20” Conflict with 16” AWSS @ South Headwall - *Merit/Cost NTE*
 - Budget Revision - DP2 Design Services during construction - *Cost NTE*

2. **1300** - PCC 05 -CTS - Chinatown Plaza Construction Estimating Support - *Cost NTE*
 Previously discussed at CMB Mtg #167
 - Notice of Differing Site Conditions (NDSC) Log - *Review*

3. **Trend Log** -





4. **Other Business** –

Meeting Attendance Sheet

Project No. M544.1, Contract No. 149
Program/Construction Management
Configuration Management Board Special Meeting No. 168
April 30, 2014
3:00 p.m. – 5:00 p.m.
 Central Subway Project Office
 821 Howard, 2nd Floor
 Main Conference Room

Deliver Meeting Attendance Sheet with original signatures/initials to Document Control.

NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS
Please enter initials if your name is listed below.				
Please enter name, affiliation, phone number and email address if your name is not listed below:				
Acosta, Mike	SFMTA	(415) 701-5282	Mike.Acosta@sfmta.com	
Chow, Vivian	SFMTA	(415) 701-5264	Vivian.chow@sfmta.com	
Clifford, Alex	CSP	(415) 243-0953	Alex.Clifford@sfmta.com	AC
Farhangl, Shahnam	SFMTA	(415) 554-0721	Shahnam.Farhangi@sfmta.com	
Funghi, John	SFMTA	(415) 701-4299	John.Funghi@sfmta.com	JF
Haley, John	SFMTA		John.Haley@sfmta.com	
Henry, Melvyn	SFMTA	(415) 701-5719	Melvyn.Henry@sfmta.com	
Hoe, Albert	SFMTA	(415) 701-4289	Albert.Hoe@sfmta.com	AH
Jefferis, Scott	SFMTA	(415) 238-4679	Richard.Jefferis@sfmta.com	
Kelly, Jim	SFMTA		Jim.Kelly@sfmta.com	
Kobler, Mike	CSP	(415) 850-4750	Mike.kobler@sfmta.com	
Kuehn, David	STV/PMOC	(510) 464-8053	David.kuehn@stvinc.com	
Latch, Mark	CSP	(415) 701-5294	Mark.Latch@sfmta.com	ML
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com	BL
* Nguyen, Roger	SFMTA	(415) 701-4312	Roger.Nguyen@sfmta.com	RN

NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS
Park, Joon	SFMTA	(415) 701-4742	Joon.Park@sfmta.com	
Redmond, Richard	CSP	(Richard.Redmond@sfmta.com	
Shah, Kartik	SFMTA	(415) 701-5678	Kartik.Shah@sfmta.com	
Stassevitch, Eric	CSP	(415) 701-4426	Eric.Stassevitch@sfmta.com	
Tisell, Steve	CSP		steve.tisell@sfmta.com	
Vilcheck Mark	CSP	(415) 701-4293	Mark.Vilcheck@sfmta.com	
Wang, Jane	SFMTA	(415) 701-4287	Jane.Wang@sfmta.com	
Ward, Beverly	CSP	(415) 701-5291	Beverly.Ward@sfmta.com	
Zurinaga, Luis	SFCTA	(415) 716-6956	Luis.zurinaga@sfcta.org	

COR 082 Estimate Summary:

MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate

Contract No. 1252 - Tunnel

4/29/14

1. General Scope:

Contract Drawing WD-404 & WD-404 shows 20" Low pressure water line cutting through an area in the intersection of 4th Street & Folsom Street where the joint trench is in the way. BIHJV's subcontractor, Synergy Project Management, with SFMTA's concurrence installed the water line per a configuration which resulted in approximately 65 feet less water line to be installed. SFMTA requested credit CO to eliminate 65' of water line. Upon exposing the existing 20" waterline at the south headwall of MOS, the Contractor encountered a conflict between the proposed 16" AWSS, the proposed re-routed 20" waterline and the existing 6" PG&E gas line. These three utilities cross at multiple locations at about the same depths. The preferred resolution would require the 20" waterline to be vertically rerouted cross over the 16" AWSS and the 6" PG&E gas line. The additional New Work resulting from the utility conflicts is listed below. The scope of work was broken into the following meaningful activities:

Detailed Scope:

			<u>Quant.</u>	<u>Unit</u>
<u>Credit Work:</u>	10	Potholing	(6)	EA
	20	Pavement Demolition	(325)	SF
	30	Install 20" DI Pipe Waterline	(65)	LF
	40	Place 8" Concrete Base	(325)	SF
	50	Place 2" Asphalt Concrete Wearing Surface (ACWS)	(325)	SF
<u>New Work:</u>	60	Excavate Connection Hole under Existing Gas Main	16	LF
	70	Additional SFWD Support Work at the New Point of Connection	3	Days
	80	Additional AWSS Installation Work	2	Days
	90	Install 4' Deep Conc. Wall between Gas & Water Pipe	1	Day

2. Labor Rates:

Labor rates used in the estimate are based on submitted and approved craft labor rates provided by Synergy Project Management, Inc.

3. Equipment Rates:

Equipment rates used in the estimate are based on submitted and approved equipment rates provided by Synergy Project Management, Inc.

4. Material Rates:

Material rates are based on invoices and quotes.

5. Subcontractor Rates:

Subcontractor rates are based on invoices and quotes.

Contract No. 1252 - Tunnel
 Comparison Sheet:
 COR 082 Estimate:
 MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate

Synergy Estimate

4/29/2014

WBS Item	Description	Quant.	Unit	MHRS	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost
10	Potholing	(6)	EA	(27)	(\$1,337)	(\$1,154)	\$0	(\$758)	\$0	(\$3,249)
20	Pavement Demolition	(325)	SF	(35)	(\$1,782)	(\$1,068)	\$0	(\$931)	\$0	(\$3,780)
30	Install 20" DI Pipe Waterline	(65)	LF	(217)	(\$11,540)	(\$8,156)	(\$36,183)	(\$1,554)	\$0	(\$57,433)
40	Place 8" Concrete Base	(325)	SF	(10)	(\$652)	(\$478)	(\$1,141)	(\$55)	\$0	(\$2,325)
50	Place 2" Asph. Conc.Wearing Surface (ACWS)	(325)	SF	(13)	(\$652)	(\$674)	(\$797)	\$0	\$0	(\$2,122)
60	Excavate Connection Hole under Existing Gas Main	16	LF	80	\$4,012	\$5,134	\$0	\$681	\$0	\$9,828
70	Additional SFWD Support Work at the New Point of Connection	3	Days	120	\$6,019	\$7,702	\$0	\$96	\$0	\$13,816
80	Additional AWSS Installation Work	2	Days	80	\$4,012	\$5,134.48	\$5,552.60	\$96.00	\$1,264	\$16,060
90	Install 4' Deep Conc. Wall between Gas & Water Pipe	1	Day	24	\$1,227	\$530.68	\$748.20	\$0	\$0	\$2,506
	Subtotal:			1	(\$692)	\$6,972	(\$31,820)	(\$2,424)	\$1,264	(\$26,700)
	1st Tier Sub OH&P	15%	%		(\$104)	\$1,046	(\$4,773)	(\$364)	\$63	(\$4,131)
	Subtotal:				(\$796)	\$8,018	(\$36,593)	(\$2,788)	\$1,327	(\$30,831)
	Bond & Insurance Markup 1st Tier Sub	2.140%	%		(\$17)	\$172	(\$783)	(\$60)	\$28	(\$660)
	Subtotal:				(\$813)	\$8,190	(\$37,376)	(\$2,847)	\$1,356	(\$31,491)
	Prime Contractor Markup	5%	%		(\$40.66)	\$409.48	(\$1,868.79)	(\$142.36)	\$67.78	(\$1,575)
	Subtotal:				(\$854)	\$8,599	(\$39,245)	(\$2,990)	\$1,423	(\$33,066)
	Bond & Insurance Markup Prime Contractor	1.680%	%		(\$14)	\$144	(\$659)	(\$50)	\$24	(\$556)
	Total Construction Cost:			1	(\$868)	\$8,743	(\$39,904)	(\$3,040)	\$1,447	(\$33,621)

Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Subc.	Total Cost
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
(\$4,692.48)	(\$5,377.20)	(\$7,362.16)	\$0.00	(\$17,431.84)
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$4,692.48	\$5,298.68	\$0.00	\$0.00	\$9,991.16
\$7,038.72	\$7,948.02	\$0.00	\$0.00	\$14,986.74
\$4,692.48	\$5,298.68	\$5,552.60	\$1,264.00	\$16,807.76
\$1,248.48	\$530.68	\$748.20	\$0.00	\$2,527.36
\$12,979.68	\$13,698.86	(\$1,061.36)	\$1,264.00	\$26,881.18
\$1,946.95	\$2,054.83	(\$159.20)	\$63.20	\$3,905.78
\$14,926.63	\$15,753.69	(\$1,220.56)	\$1,327.20	\$30,786.96
\$319.43	\$337.13	(\$26.12)	\$28.40	\$658.84
\$15,246.06	\$16,090.82	(\$1,246.68)	\$1,355.60	\$31,445.80
\$762.30	\$804.54	(\$62.33)	\$67.78	\$1,572.29
\$16,008.37	\$16,895.36	(\$1,309.01)	\$1,423.38	\$33,018.09
\$268.94	\$283.84	(\$21.99)	\$23.91	\$554.70
\$16,277.31	\$17,179.20	(\$1,331.01)	\$1,447.30	\$33,572.80

Delta (C - EE)	Summary of Delta
(\$3,249)	Delta = \$3,249 for Potholing. This item is not in Synergy's estimate.
(\$3,780)	Delta = \$3,780 for Pavement Demolition. This item is not in Synergy's estimate.
(\$40,001)	Labor Delta = \$6,847.52 & Equip. Delta = \$2,778.71 Synergy estimate includes only 16 crew hours. EE estimate includes 53 crew hours for the following activities: Excv.Trench = 8 Hrs, Pipe Bedding = 5Hrs, Unload Pipe & Fittings = 2 Hrs, Lay 20" DI Pipe = 13 Hrs, Install Fittings & Valves = 13 Hrs, Place Pipe Intial Backfill = 3 Hrs, Backfill Trench w/Imported Fill = 2 Hrs, Hydrostatic Test = 8 Hrs.
(\$2,325)	Material Delta = \$30,374.98 Synergy estimate includes only 45 LF of 20" DI Pipe @ \$150.44/LF + Tax for a total of \$7,362.16. EE Estimate includes a total of \$37,737.14 of material cost consisting of 65 LF of 20" Pipe and Gripper Rings = \$10,089, Fittings & Valves = \$25,764, Backfill Material = \$331, Shoring Plywood = \$384 and Dump Fees = \$1,170.
(\$2,122)	Delta = \$2,122 for 2" ACWS. This item is not in Synergy's estimate.
\$163.20	Labor Delta = \$680 Due to difference in labor rates. Equipment Delta = \$164.20 Due to difference in equipment rates. Material Delta = (\$681) EE Estimate includes \$681 in construction material cost consisting of \$585 for dump fees and \$96 for shoring plywood. Synergy's estimate does not include material costs.
\$1,170.30	Labor Delta = \$1,020 due to difference in labor rates. Foreman = \$68.73 SPM - \$51.12 EE = \$17.61 x 24 Hrs = \$422.64. Driver = \$52.02 SPM - \$29.01 EE = \$23.01 x 24 Hrs = \$552.24. Laborer = \$52.02 SPM - \$51.12 EE = \$0.90 x 48 = \$43.20. Operator = \$68.49 SPM- \$68.41 EE = \$0.08 x 24 Hrs = \$1.92.
	Equipment Delta = \$246.30 due to difference in equipment rates. Steel Plates = \$7.12 SPM - \$4.61 EE = \$2.51 x 6EA x 24Hrs = \$361.44. Backhoe = \$69.28 SPM - \$72.16 EE = (\$2.88) x 24 HRS = (\$69.12). Shoring Jacks = \$0.00 SPM - \$0.48 EE = (\$0.48) x 4EA x 24 Hrs = (\$46)
	Material Delta = (\$96) for Shoring Plywood. This item is not in Synergy's estimate.
\$748.20	Labor Delta = \$680 Due to difference in labor rates. Equipment Delta = \$164.20 Due to difference in equipment rates. Material Delta = (\$96) EE Estimate includes \$96 for shoring plywood. Synergy's estimate does not include this costs.
\$21.60	Labor Delta = \$21.60 Due to difference in labor rates.
\$53,581.06	
\$8,037.16	
\$61,618.22	
\$1,318.63	
\$62,936.85	
\$3,146.84	
\$66,083.69	
\$1,110.21	
\$67,193.90	

COR 082 Estimate Summary:

MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate

Contract No. 1252 - Tunnel

4/29/14

WBS Item	Description	Quant.	Unit	MHRS	Total Labor	Total Eq,Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost	Unit Cost
	Credit Work:										
10	Potholing	(6)	EA	(27)	(\$1,337)	(\$1,154)	\$0	(\$758)	\$0	(\$3,249)	\$541.44
20	Pavement Demolition	(325)	SF	(35)	(\$1,782)	(\$1,068)	\$0	(\$931)	\$0	(\$3,780)	\$11.63
30	Install 20" DI Pipe Waterline	(65)	LF	(217)	(\$11,540)	(\$8,156)	(\$36,183)	(\$1,554)	\$0	(\$57,433)	\$883.59
40	Place 8" Concrete Base	(325)	SF	(10)	(\$652)	(\$478)	(\$1,141)	(\$55)	\$0	(\$2,325)	\$7.16
50	Place 2" Asph. Conc.Wearing Surface (ACWS)	(325)	SF	(13)	(\$652)	(\$674)	(\$797)	\$0	\$0	(\$2,122)	\$6.53
	New Work:										
60	Excavate Connection Hole under Existing Gas Main	16	LF	80	\$4,012	\$5,134	\$0	\$681	\$0	\$9,828	\$614.25
70	Additional SFWD Support Work at the New Point of Connection	3	Days	120	\$6,019	\$7,702	\$0	\$96	\$0	\$13,816	\$4,605.48
80	Additional AWSS Installation Work	2	Days	80	\$4,012	\$5,134	\$5,553	\$96	\$1,264	\$16,060	\$8,029.78
90	Install 4' Deep Conc. Wall between Gas & Water Pipe	1	Day	24	\$1,227	\$531	\$748	\$0	\$0	\$2,506	\$2,505.76
	Subtotal:			1	(\$692)	\$6,972	(\$31,820)	(\$2,424)	\$1,264	(\$26,700)	
	1st Tier Sub OH&P	15%	%		(\$104)	\$1,046	(\$4,773)	(\$364)	\$63	(\$4,131)	
	Subtotal:				(\$796)	\$8,018	(\$36,593)	(\$2,788)	\$1,327	(\$30,831)	
	Bond & Insurance Markup 1st Tier Sub	2.140%	%		(\$17)	\$172	(\$783)	(\$60)	\$28	(\$660)	
	Subtotal:				(\$813)	\$8,190	(\$37,376)	(\$2,847)	\$1,356	(\$31,491)	
	Prime Contractor Markup	5%	%		(\$40.66)	\$409.48	(\$1,868.79)	(\$142.36)	\$67.78	(\$1,575)	
	Subtotal:				(\$854)	\$8,599	(\$39,245)	(\$2,990)	\$1,423	(\$33,066)	
	Bond & Insurance Markup Prime Contractor	1.680%	%		(\$14)	\$144	(\$659)	(\$50)	\$24	(\$556)	
	Total Construction Cost:			1	(\$868)	\$8,743	(\$39,904)	(\$3,040)	\$1,447	(\$33,621)	

COR 082 Estimate Summary:
MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate
Contract No. 1252 - Tunnel
4/29/14

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost	
	CREDIT WORK:																			
10	Potholing: (Dig 6 Holes 4' x 4' x 4')	(6)	EA			Days														
10.10	Sawcut Pavement: (Sawcut 2" Asphalt + 8" Conc. Base = 96 LF x 10" Vert. = 960 in-ft, Allow 1/2 hour per location x 6 EA = 3 Hours)	(96)	LF	32	(3)	(0.4)														
	SawBlades - Conc. (pg.28, SAWCO/ABSK/LF-INDE)	(960)	INFT									\$0.18					(\$173)			(\$173)
	Concrete Saw Pavt. (pg.28, SAWCO/ABOP/45-65)	1	ea					(3)		\$20.82										(\$62)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(9)		\$2.43										(\$22)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(3)		\$3.20										(\$10)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(3)		\$1.65										(\$5)
	Laborer - G1	2	ea				(6)		\$51.12											(\$307)
	Subtotal:						(6)							(\$307)	(\$99)	\$0	(\$173)	\$0		(\$578)
	Unit Cost:						16.00							\$3.20	\$1.03	\$0.00	\$1.80	\$0.00		\$6.03
10.20	Excavate Potholes: (4' L x 4' W x 4' Deep x 6ea = 14 CY)	(14)	BCY	2	(7)	(0.9)														
	Dump Debris - Ten Wheeler, 12 Tons (Dumping @ \$292.50/Load, Quote by Baylands Processing)	(2)	Load									\$292.50					(\$585)			(\$585)
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	ea					(7)		\$72.16										(\$505)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(7)		\$66.43										(\$465)
	Backhoe Operator - G3	1	ea				(7)		\$67.03											(\$469)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(21)		\$2.43										(\$51)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(7)		\$3.20										(\$22)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(7)		\$1.65										(\$12)
	Driver - G3	1	EA				(7)		\$29.01											(\$203)
	Laborer - G1	1	ea				(7)		\$51.12											(\$358)
	Subtotal:						(21)							(\$1,030)	(\$1,055)	\$0	(\$585)	\$0		(\$2,670)
	Unit Cost:						0.67							\$73.58	\$75.37	\$0.00	\$41.79	\$0.00		\$190.73
	Total Potholing:	(6)	EA				(27)							(\$1,337)	(\$1,154)	\$0	(\$758)	\$0		(\$3,249)
	Unit Cost:						0.22							\$222.81	\$192.33	\$0.00	\$126.30	\$0.00		\$541.44
20	Demolish existing Pavement:	(325)	SF			Days														
20.10	Initial Sawcut Pavement for Trench Excavation : (Sawcut 2" Asphalt + 8" Conc. Base = 136 LF x 10" Vert. = 1,360 in-ft)	(136)	LF	40	(3)	(0)														
	SawBlades - Conc. (pg.28, SAWCO/ABSK/LF-INDE)	(960)	INFT									\$0.18					(\$173)			(\$173)
	Concrete Saw Pavt. (pg.28, SAWCO/ABOP/45-65)	1	ea					(3)		\$20.82										(\$71)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(10)		\$2.43										(\$25)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(3)		\$3.20										(\$11)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(3)		\$1.65										(\$6)
	Laborer - G1	2	ea				(7)		\$51.12											(\$348)
	Subtotal:						(7)							(\$348)	(\$112)	\$0	(\$173)	\$0		(\$632)
	Unit Cost:						20.00							\$2.56	\$0.82	\$0.00	\$1.27	\$0.00		\$4.65
20.20	Final Sawcut Line for Pavement Restoration : (Sawcut 2" Asphalt + 8" Conc. Base = 136 LF x 10" Vert. = 1,360 in-ft)	(136)	LF	40	(3)	(0)														
	SawBlades - Conc. (pg.28, SAWCO/ABSK/LF-INDE)	(960)	INFT									\$0.18					(\$173)			(\$173)
	Concrete Saw Pavt. (pg.28, SAWCO/ABOP/45-65)	1	ea					(3)		\$20.82										(\$71)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(10)		\$2.43										(\$25)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(3)		\$3.20										(\$11)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(3)		\$1.65										(\$6)
	Laborer - G1	2	ea				(7)		\$51.12											(\$348)
	Subtotal:						(7)							(\$348)	(\$112)	\$0	(\$173)	\$0		(\$632)
	Unit Cost:						20.00							\$2.56	\$0.82	\$0.00	\$1.27	\$0.00		\$4.65
20.30	Demo Pavement for Trench Excavation: (3' wide x 65' long = 195 SF)	(195)	SF	75	(3)	(0)														
	Dump Debris - Ten Wheeler, 12 Tons (Dumping @ \$292.50/Load, Quote by Baylands Processing)	(1)	Load									\$292.50					(\$293)			(\$293)
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(3)		\$72.16										(\$188)
	Breaker Attachment for Backhoe (Caltrans pg.7 HAMMR/DELM/530)	1	EA					(3)		\$42.26										(\$110)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(3)		\$66.43										(\$173)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(8)		\$2.43										(\$19)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(3)		\$3.20										(\$8)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(3)		\$1.65										(\$4)
	Backhoe Operator - G3	1	EA				(3)		\$68.41											(\$178)
	Labor Foremen	1	EA				(3)		\$51.12											(\$133)
	Driver - G3	1	EA				(3)		\$29.01											(\$75)

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost	
	Laborer - GR 1	2	EA				(5)		\$51.12					(\$266)						(\$266)
	Subtotal:						(13)							(\$652)	(\$502)	\$0	(\$293)	\$0		(\$1,446)
	Unit Cost:						15.00							\$3.34	\$2.57	\$0.00	\$1.50	\$0.00		\$7.42
20.40	Demo Pavement for Pavement Restoration:	(130)	SF	75	(2)	(0)														
	(1' wide x 65' long x 2 sides = 130 SF)																			
	Dump Debris - Ten Wheeler, 12 Tons (Dumping @ \$292.50/Load, Quote by Baylands Processing)	(1)	Load									\$292.50					(\$293)			(\$293)
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(2)		\$72.16					(\$125)					(\$125)
	Breaker Attachment for Backhoe (Caltrans pg.7 HAMMR/DELM/530)	1	EA					(2)		\$42.26					(\$73)					(\$73)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(2)		\$70.60					(\$122)					(\$122)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(5)		\$2.43					(\$13)					(\$13)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(2)		\$3.20					(\$6)					(\$6)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(2)		\$1.65					(\$3)					(\$3)
	Backhoe Operator - G3	1	EA				(2)		\$68.41					(\$119)						(\$119)
	Labor Foremen	1	EA				(2)		\$51.12					(\$89)						(\$89)
	Driver - G3	1	EA				(2)		\$29.01					(\$50)						(\$50)
	Laborer - GR 1	2	EA				(3)		\$51.12					(\$177)						(\$177)
	Subtotal:						(9)							(\$435)	(\$342)	\$0	(\$293)	\$0		(\$1,069)
	Unit Cost:						15.0							\$3.34	\$2.63	\$0.00	\$2.25	\$0.00		\$8.22
	Total Pavement Demolition	(325)	SF				(35)							(\$1,782)	(\$1,068)	\$0	(\$931)	\$0		(\$3,780)
	Unit Cost:						9.22							5.48	3.29	0.00	2.86	0.00		11.63
30	Install 20" DI Pipe Waterline:	(65)	LF																	
30.10	Excavate Trench:	(30)	CY	4	(8)	(1)														
	(3'W x 4.17' Deep x 65' Long = 30 CY)																			
	Dump Debris - Ten Wheeler, 12 Tons (Dumping @ \$292.50/Load, Quote by Baylands Processing)	(4)	Load									\$292.50					(\$1,170)			(\$1,170)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(8)		\$33.12					(\$248)					(\$248)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(8)		\$66.43					(\$498)					(\$498)
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(8)		\$72.16					(\$541)					(\$541)
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					(8)		\$63.79					(\$478)					(\$478)
	Steel Plates 8' x 16'	5	EA					(38)		\$4.61					(\$173)					(\$173)
	Shoring Jacks	16	EA					(120)		\$0.48					(\$58)					(\$58)
	Shoring Plywood (QTY = 65 LF @ 8feet per sheet = 8 sheets x 2 = 16 sheets)	(16)	EA									\$24.00					(\$384)			(\$384)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(23)		\$2.43					(\$55)					(\$55)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(8)		\$3.20					(\$24)					(\$24)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(8)		\$1.65					(\$12)					(\$12)
	Foreman Laborer - G1	1	EA				(8)		\$51.12					(\$383)						(\$383)
	Operator - G3	1	EA				(8)		\$68.41					(\$513)						(\$513)
	Laborer - G1	2	EA				(15)		\$51.12					(\$767)						(\$767)
	Driver - G3	1	EA				(8)		\$29.01					(\$218)						(\$218)
	Subtotal:						(38)							(\$1,881)	(\$2,088)	\$0	(\$1,554)	\$0		(\$5,523)
	Unit Cost:						0.80							\$62.70	\$69.59	\$0.00	\$51.80	\$0.00		\$184.09
30.20	Place Pipe Sand Bedding:	(65)	LF	13	(5)	(1)														
	(3'W x 0.5' Thk x 65' Long = 4 CY)																			
	Buy Sand (4 CY @ 1.35 Ton/CY = 6 Tons @ \$8.0/Ton Quote from Brisbane Recycling)	(6)	Tons									\$8.70					(\$52)			(\$52)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(5)		\$33.12					(\$172)					(\$172)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(5)		\$66.43					(\$345)					(\$345)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(5)		\$72.16					(\$375)					(\$375)
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					(5)		\$63.79					(\$332)					(\$332)
	Road Signs (Caltrans pg. 32 TRAF/6FSS/EACH)	3	EA					(16)		\$2.43					(\$38)					(\$38)
	Arrow Boards (Caltrans pg. 32 TRAF/FLAS/TM)	1	EA					(5)		\$3.20					(\$17)					(\$17)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/2TC/B100)	1	EA					(5)		\$1.65					(\$9)					(\$9)
	Foreman Laborer - G1	1	EA				(5)		\$51.12					(\$266)						(\$266)
	Operator - G3	1	EA				(5)		\$68.41					(\$356)						(\$356)
	Laborer - G1	2	EA				(10)		\$51.12					(\$532)						(\$532)
	Driver - G3	1	EA				(5)		\$29.01					(\$151)						(\$151)
	Subtotal:						(26)							(\$1,304)	(\$1,288)	(\$52)	\$0	\$0		(\$2,644)
	Unit Cost:						2.50							\$20.06	\$19.81	\$0.80	\$0.00	\$0.00		\$40.68
30.30	Unload Pipes & Fittings:	(1)	Load	1	(2)	(0)														
	(Pipe 65 LF @ 101.67/LF = 6,608 Lbs, TR Flex 45 Bends 4 each @ 685lbs/each = 2,740 lbs; 20" Gate Valve = 1,500 Lbs)																			
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(2)		\$72.16					(\$144)					(\$144)
	Backhoe Operator - G3	1	EA					(2)		\$68.41				(\$137)						(\$137)
	Laborer - GR 1	1	EA					(2)		\$51.12				(\$102)						(\$102)
	Subtotal:						(4)							(\$239)	(\$144)	\$0	\$0	\$0		(\$383)
	Unit Cost:						0.25							\$239.06	\$144.32	\$0.00	\$0.00	\$0.00		\$383.38
30.40	Lay 20" DI Pipe - In Trench:	(65)	LF	5	(13)	(2)														

COR 082 Estimate Summary:

MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate
Contract No. 1252 - Tunnel
4/29/14

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost
	20" CL53 TR Flex DI Pipe	(65)	LF								\$115.70					(\$7,520)			(\$7,520)
	20 TR Flex Gripper Ring	(6)	EA								\$407.16					(\$2,443)			(\$2,443)
	54" 8 Mil x 340' Clear Poly Bag	(65)	LF								\$0.92					(\$60)			(\$60)
	10 MIL UPC Tape 2 x 100'	(12)	Roll								\$5.44					(\$65)			(\$65)
	Road Signs (Caltrans pg. 32 TRAF/C/6FSS/EACH)	3	EA					(39)		\$2.43					(\$95)				(\$95)
	Arrow Boards (Caltrans pg. 32 TRAF/C/FLAS/TM)	1	EA					(13)		\$3.20					(\$42)				(\$42)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/C/2TC/B100)	1	EA					(13)		\$1.65					(\$21)				(\$21)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(13)		\$33.12					(\$431)				(\$431)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(13)		\$72.16					(\$938)				(\$938)
	Backhoe Operator - G3	1	ea				(13)		\$68.41					(\$889)					(\$889)
	Labor Foremen	1	ea				(13)		\$51.12					(\$665)					(\$665)
	Pipe Layer - GR 1	2	ea				(26)		\$51.12					(\$1,329)					(\$1,329)
	Subtotal:						(52)							(\$2,883)	(\$1,526)	(\$10,089)	\$0	\$0	(\$14,498)
	Unit Cost:						1.25							\$44.35	\$23.48	\$155.21	\$0.00	\$0.00	\$223.05
30.50	Install Fittings & Valves:	(15)	EA	1	(13)	Days (2)													
	(Production = 50 MH's @ 4 men crew = 13 Crew Hours)																		
	20" TR Flex 45 Bend (4 MH/ea x 4 ea = 16 MH)	(4)	EA								\$2,021.96					(\$8,088)			(\$8,088)
	20 MJ x FLG Adapters C153 (4MH/ea x 2 ea = 8 MH)	(2)	EA								\$1,064.47					(\$2,129)			(\$2,129)
	20 FLG x FLG A2361-6 Mueller RW DI Gate Valve, AWWA C515;NRS;OR 2x2 Nut, Per SF Specs (10 MH/ea)	(1)	EA								\$13,543.36					(\$13,543)			(\$13,543)
	20 SS 304 Hex Bolt & Nut Kit (2 MH/ea x 2 ea = 4 MH)	(2)	EA								\$428.33					(\$857)			(\$857)
	20 150# FF Garlock #19 1/8 Thk (2 MH/ea x 2 ea = 4 MH)	(2)	EA								\$123.88					(\$248)			(\$248)
	20 Megalug F/DI *Boxed* 1120DSC W/Low Alloy T-Bolts/Std MJ Gasket (2 MH/ea x 2 ea = 4 MH)	(2)	EA								\$341.04					(\$682)			(\$682)
	Valve Box (2MH/ea)	(1)	EA								\$163.13					(\$163)			(\$163)
	Valve Collars (2MH/ea)	(1)	EA								\$54.38					(\$54)			(\$54)
	Road Signs (Caltrans pg. 32 TRAF/C/6FSS/EACH)	3	EA					(39)		\$2.43					(\$95)				(\$95)
	Arrow Boards (Caltrans pg. 32 TRAF/C/FLAS/TM)	1	EA					(13)		\$3.20					(\$42)				(\$42)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/C/2TC/B100)	1	EA					(13)		\$1.65					(\$22)				(\$22)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(13)		\$33.12					(\$432)				(\$432)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(13)		\$72.16					(\$941)				(\$941)
	Backhoe Operator - G3	1	ea				(13)		\$68.41					(\$892)					(\$892)
	Labor Foremen	1	ea				(13)		\$51.12					(\$667)					(\$667)
	Pipe Layer - GR 1	2	ea				(26)		\$51.12					(\$1,334)					(\$1,334)
	Subtotal:						(52)							(\$2,893)	(\$1,532)	(\$25,764)	\$0	\$0	(\$30,188)
	Unit Cost:						3.48							\$192.84	\$102.10	\$1,717.61	\$0.00	\$0.00	\$2,012.56
30.60	Place Pipe Initial Sand Backfill:	(10)	CY	4	(3)	Days (0)													
	(3'W x 2.67' Thk x 65' Long = 19 CY - 5CY Pipe Volume - 4 CY Pipe Bedding = 10 CY)																		
	Buy Sand (10 CY @ 1.35 Ton/CY = 14 Tons @ \$8.0/Ton Quote from Brisbane Recycling)	(14)	Tons								\$8.70					(\$122)			(\$122)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(3)		\$33.12					(\$83)				(\$83)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(3)		\$66.43					(\$166)				(\$166)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(3)		\$72.16					(\$180)				(\$180)
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					(3)		\$63.79					(\$159)				(\$159)
	Road Signs (Caltrans pg. 32 TRAF/C/6FSS/EACH)	3	EA					(8)		\$2.43					(\$18)				(\$18)
	Arrow Boards (Caltrans pg. 32 TRAF/C/FLAS/TM)	1	EA					(3)		\$3.20					(\$8)				(\$8)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/C/2TC/B100)	1	EA					(3)		\$1.65					(\$4)				(\$4)
	Foreman Laborer - G1	1	EA				(3)		\$51.12					(\$128)					(\$128)
	Operator - G3	1	EA				(3)		\$68.41					(\$171)					(\$171)
	Laborer - G1	2	EA				(5)		\$51.12					(\$256)					(\$256)
	Driver - G3	1	EA				(3)		\$29.01					(\$73)					(\$73)
	Subtotal:						(13)							(\$627)	(\$619)	(\$122)	\$0	\$0	(\$1,368)
	Unit Cost:						0.80							\$62.70	\$61.91	\$12.18	\$0.00	\$0.00	\$136.79
30.70	Backfill Trench with Imported Fill:	(11)	CY	6	(2)	Days (0)													
	(3'W x 1.5' Thk x 65' Long = 11 CY)																		
	6 x 1000' Detection Tape MK: Water	(1)	Roll								\$60.58					(\$61)			(\$61)
	Buy Fill (11 CY @ 1.7 Ton/CY = 19 Tons @ 12Tons/Load = 1.6 Loads, Quote from Baylands Soil)	(2)	Loads								\$59.81					(\$96)			(\$96)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(2)		\$33.12					(\$61)				(\$61)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(2)		\$66.43					(\$122)				(\$122)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(2)		\$72.16					(\$132)				(\$132)
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					(2)		\$63.79					(\$117)				(\$117)
	Road Signs (Caltrans pg. 32 TRAF/C/6FSS/EACH)	3	EA					(6)		\$2.43					(\$13)				(\$13)
	Arrow Boards (Caltrans pg. 32 TRAF/C/FLAS/TM)	1	EA					(2)		\$3.20					(\$6)				(\$6)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF/C/2TC/B100)	1	EA					(2)		\$1.65					(\$3)				(\$3)
	Foreman Laborer - G1	1	EA				(2)		\$51.12					(\$94)					(\$94)
	Operator - G3	1	EA				(2)		\$68.41					(\$125)					(\$125)
	Laborer - G1	2	EA				(4)		\$51.12					(\$187)					(\$187)
	Driver - G3	1	EA				(2)		\$29.01					(\$53)					(\$53)
	Subtotal:						(9)							(\$460)	(\$454)	(\$156)	\$0	\$0	(\$1,070)
	Unit Cost:						1.20							\$41.80	\$41.27	\$14.21	\$0.00	\$0.00	\$97.28

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost	
30.80	Hydrostatic Test:	(65)	LF	8	(8)	Days (1)														
	(Load 20" pipe, Test for 2 hours, Flush 20" Pipe)																			
	Road Signs (Caltrans pg. 32 TRAF6/6FSS/EACH)	3	EA					(24)		\$2.43										(\$58)
	Arrow Boards (Caltrans pg. 32 TRAF6/FLAS/TM)	1	EA					(8)		\$3.20										(\$26)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF6/2TC/B100)	1	EA					(8)		\$1.65										(\$13)
	Water Truck 4,000 Gallons (Caltrans pg.34 TRUCK/T&TT/36-48)	1	ea					(8)		\$50.98										(\$408)
	Teamster - G2	1	ea					(8)	\$54.47											(\$436)
	Labor Foremen	1	ea					(8)	\$51.12											(\$409)
	Laborer - GR 1	1	ea					(8)	\$51.12											(\$409)
	Subtotal:						(24)							(\$1,254)	(\$505)	\$0	\$0	\$0		(\$1,759)
	Unit Cost:						2.71							\$19.29	\$7.77	\$0.00	\$0.00	\$0.00		\$27.06
30.90	Chlorinate Water Line:																			
	(SFWD will chlorinate DI Piping, Spec. Section 33 11 00 para. 1.03.D.2 and para. 3.03.E.1)																			
30.100	Tie in to Existing Water Main:																			
	(SFWD will connect to existing water main, Spec. Section 33 11 00 para. 1.03.D.1 and Drwg. WD-001, Note 8.C.b)																			
	Total Install 20" DI Pipe Waterline:	(65)	LF		(53)		(217)							(\$11,540)	(\$8,156)	(\$36,183)	(\$1,554)	\$0		(\$57,433)
	Unit Cost:						3.34							\$177.54	\$125.48	\$556.66	\$23.91	\$0.00		\$883.59
40	Place 8" Concrete Base:	(325)	SF	125	(3)	Days (0)														
	(QTY = 5' x 65' = 325 SF x 8" Thk = 8 CY)																			
	3000 psi Concrete - Quick Set (Quote from Cemex)	(8)	cy								\$139.20									(\$1,114)
	Conc. Vib/Place Supply	(8)	cy									\$1.52								(\$12)
	1/4" Preformed Expansion Joint Filler	(20)	lf								\$1.36									(\$27)
	Screed Supplies	(325)	sf									\$0.09								(\$28)
	Water Cure	(325)	sf									\$0.04								(\$14)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(3)		\$33.12										(\$86)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(3)		\$66.43										(\$173)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(3)		\$72.16										(\$188)
	Road Signs (Caltrans pg. 32 TRAF6/6FSS/EACH)	3	EA					(8)		\$2.43										(\$19)
	Arrow Boards (Caltrans pg. 32 TRAF6/FLAS/TM)	1	EA					(3)		\$3.20										(\$8)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF6/2TC/B100)	1	EA					(3)		\$1.65										(\$4)
	Foreman Laborer - G1	1	EA					(3)	\$51.12											(\$133)
	Operator - G3	1	EA					(3)	\$68.41											(\$178)
	Laborer - G1	2	EA					(5)	\$51.12											(\$266)
	Driver - G3	1	EA					(3)	\$29.01											(\$75)
	Subtotal:						(10)							(\$652)	(\$478)	(\$1,141)	(\$55)	\$0		(\$2,325)
	Unit Cost:						31.25							\$2.01	\$1.47	\$3.51	\$0.17	\$0.00		\$7.16
50	Place 2" Asphalt Concrete Wearing Surface (ACWS):	(325)	SF	125	(3)	Days (0)														
	(Qty = 2" Thk x 5' x 65' = 54 CF @ 148 Lb/CF = 7,992 lbs = 4 Tons)																			
	Tack Oil - Emulsified Asphalt Type SS-1 (Quote from EBI Aggregates), Apply at a rate of 0.1 Gallons/SY x 36 SY = 4 Gallons	(4)	Gal								\$16.31									(\$65)
	Type 'A' Asphalt 1/2" Max. (Quote from EBI Aggregates)	(4)	Ton								\$108.75									(\$435)
	Pavement Sealer A-350 TRS (Quote from W.R. Meadows, Inc.), QTY = 325 SF @ 40 SF/Gal/Coat x 2 Coats = 16 Gallons	(16)	Gal								\$18.52									(\$296)
	Bituminous Distributor with Work Truck (Synergy Rate)	1	ea					(3)		\$39.64										(\$103)
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					(3)		\$33.12										(\$86)
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					(3)		\$66.43										(\$173)
	Backhoe w/ Clam Shell Bucket (John Deer JD 310G) (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					(3)		\$72.16										(\$188)
	Compactor / Roller	1	EA					(3)		\$35.62										(\$93)
	Road Signs (Caltrans pg. 32 TRAF6/6FSS/EACH)	3	EA					(8)		\$2.43										(\$19)
	Arrow Boards (Caltrans pg. 32 TRAF6/FLAS/TM)	1	EA					(3)		\$3.20										(\$8)
	Traffic Cones (per 100) (Caltrans pg. 32 TRAF6/2TC/B100)	1	EA					(3)		\$1.65										(\$4)
	Foreman Laborer - G1	1	EA					(3)	\$51.12											(\$133)
	Operator - G3	1	EA					(3)	\$68.41											(\$178)
	Laborer - G1	2	EA					(5)	\$51.12											(\$266)
	Driver - G3	1	EA					(3)	\$29.01											(\$75)
	Subtotal:						(13)							(\$652)	(\$674)	(\$797)	\$0	\$0		(\$2,122)
	Unit Cost:						25.00							\$2.01	\$2.07	\$2.45	\$0.00	\$0.00		\$6.53
	TOTAL CREDIT DIRECT CONSTRUCTION COST:	-65	LF				(303)							(\$15,963)	(\$11,529)	(\$38,120)	(\$3,297)	\$0		(\$68,910)
	NEW WORK:						4.66							\$245.58	\$177.37	\$586.47	\$50.72	\$0.00		\$1,060.15
60	Excavate Connection Hole under Existing Gas Main:	16	LF	1	16	Days 2														
	(3'W x 8' Deep x 16' Long = 14 CY @ 7 CY/ Load = 2 Loads)																			
	Dump Debris - Ten Wheeler, 12 Tons (Dumping @ \$292.50/Load, Quote by Baylands Processing)	2	Load									\$292.50								\$585
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					16		\$33.12										\$530
	Tool Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					16		\$33.12										\$530

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost	
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					16		\$66.43					\$1,063					\$1,063
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					16		\$72.16					\$1,155					\$1,155
	Breaker Attachment for Backhoe (Caltrans pg.7 HAMMR/DELM/530)	0.25	EA					4		\$42.26					\$169					\$169
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					16		\$63.79					\$1,021					\$1,021
	Steel Plates 8' x 16'	6	EA					96		\$4.61					\$443					\$443
	Shoring Jacks	4	EA					64		\$0.48					\$31					\$31
	Shoring Plywood (QTY = 16 LF @ 8feet per sheet = 2 sheets x 2 = 4 sheets)	4	EA									\$24.00					\$96			\$96
	Road Signs (Caltrans pg. 32 TRAFIC/6FSS/EACH)	3	EA					48		\$2.43					\$117					\$117
	Arrow Boards (Caltrans pg. 32 TRAFIC/FLAS/TM)	1	EA					16		\$3.20					\$51					\$51
	Traffic Cones (per 100) (Caltrans pg. 32 TRAFIC/2TC/B100)	1	EA					16		\$1.65					\$26					\$26
	Foreman Laborer - G1	1	EA				16		\$51.12						\$818					\$818
	Operator - G3	1	EA				16		\$68.41						\$1,095					\$1,095
	Laborer - G1	2	EA				32		\$51.12						\$1,636					\$1,636
	Driver - G3	1	EA				16		\$29.01						\$464					\$464
	Subtotal:						80							\$4,012	\$5,134.48	\$0	\$681	\$0		\$9,828
	Unit Cost:						0.20							\$250.78	\$320.91	\$0.00	\$42.56	\$0.00		\$614.25
						Days														
70	Additional SFWD Support Work at the New Point of Connection:	3	Days	0.125	24	3														
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					24		\$33.12					\$795					\$795
	Tool Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					24		\$33.12					\$795					\$795
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					24		\$66.43					\$1,594					\$1,594
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					24		\$72.16					\$1,732					\$1,732
	Breaker Attachment for Backhoe (Caltrans pg.7 HAMMR/DELM/530)	0.25	EA					6		\$42.26					\$254					\$254
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					24		\$63.79					\$1,531					\$1,531
	Steel Plates 8' x 16'	6	EA					144		\$4.61					\$664					\$664
	Shoring Jacks	4	EA					96		\$0.48					\$46					\$46
	Shoring Plywood (QTY = 16 LF @ 8feet per sheet = 2 sheets x 2 = 4 sheets)	4	EA									\$24.00					\$96			\$96
	Road Signs (Caltrans pg. 32 TRAFIC/6FSS/EACH)	3	EA					72		\$2.43					\$175					\$175
	Arrow Boards (Caltrans pg. 32 TRAFIC/FLAS/TM)	1	EA					24		\$3.20					\$77					\$77
	Traffic Cones (per 100) (Caltrans pg. 32 TRAFIC/2TC/B100)	1	EA					24		\$1.65					\$40					\$40
	Foreman Laborer - G1	1	EA				24		\$51.12						\$1,227					\$1,227
	Operator - G3	1	EA				24		\$68.41						\$1,642					\$1,642
	Laborer - G1	2	EA				48		\$51.12						\$2,454					\$2,454
	Driver - G3	1	EA				24		\$29.01						\$696					\$696
	Subtotal:						120							\$6,019	\$7,701.72	\$0	\$96	\$0		\$13,816
	Unit Cost:						0.03							\$2,006.24	\$2,567.24	\$0.00	\$32.00	\$0.00		\$4,605.48
						Days														
80	Additional AWSS Installation Work:	2	Days	0.125	16	2														
	AWSS Stop Collar	1	EA								\$1,088.70					\$1,089				\$1,089
	AWSS Bell Collar	1	EA								\$766.40					\$766				\$766
	Additional 20" Fittings	3	EA								\$1,087.50					\$3,263				\$3,263
	Welding Rods & Stops	2	EA								\$217.50					\$435				\$435
	AWSS Stop Welding	8	HR										\$158.00					\$1,264		\$1,264
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					16		\$33.12					\$530					\$530
	Tool Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					16		\$33.12					\$530					\$530
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	1	EA					16		\$66.43					\$1,063					\$1,063
	Backhoe John Deere JD 310G w/ Bucket (Caltrans pg. 18 LDDRT/DEER/2507G)	1	EA					16		\$72.16					\$1,155					\$1,155
	Breaker Attachment for Backhoe (Caltrans pg.7 HAMMR/DELM/530)	0.25	EA					4		\$42.26					\$169					\$169
	Mini Excavator - Kubota U45 (Synergy Backup)	1	EA					16		\$63.79					\$1,021					\$1,021
	Steel Plates 8' x 16'	6	EA					96		\$4.61					\$443					\$443
	Shoring Jacks	4	EA					64		\$0.48					\$31					\$31
	Shoring Plywood (QTY = 16 LF @ 8feet per sheet = 2 sheets x 2 = 4 sheets)	4	EA									\$24.00					\$96			\$96
	Road Signs (Caltrans pg. 32 TRAFIC/6FSS/EACH)	3	EA					48		\$2.43					\$117					\$117
	Arrow Boards (Caltrans pg. 32 TRAFIC/FLAS/TM)	1	EA					16		\$3.20					\$51					\$51
	Traffic Cones (per 100) (Caltrans pg. 32 TRAFIC/2TC/B100)	1	EA					16		\$1.65					\$26					\$26
	Foreman Laborer - G1	1	EA				16		\$51.12						\$818					\$818
	Operator - G3	1	EA				16		\$68.41						\$1,095					\$1,095
	Laborer - G1	2	EA				32		\$51.12						\$1,636					\$1,636
	Driver - G3	1	EA				16		\$29.01						\$464					\$464
	Subtotal:						80							\$4,012	\$5,134	\$5,553	\$96	\$1,264		\$16,060
	Unit Cost:						0.03							\$2,006.24	\$2,567.24	\$2,776.30	\$48.00	\$632.00		\$8,029.78
						Days														
90	Install 4' Deep Conc. Wall between Gas & Water Pipe:	1	Day	0.125	8	1														
	3000 Psi Concrete	4	CY								\$139.20					\$557				\$557
	Short Load 4CY	1	EA								\$119.63					\$120				\$120
	Environmental Charge	1	EA								\$43.50					\$44				\$44
	Fuel Charge	1	EA								\$28.28					\$28				\$28
	Foreman Pickup Truck (Caltrans pg.34 TRUCK/T&TT/20-28)	1	EA					8		\$33.12					\$265					\$265
	Dump Truck - 3 axle (Caltrans pg.34 TRUON/TRUN/3AXL)	0.5	EA					4		\$66.43					\$266					\$266
	Laborer - G1	3	EA				24		\$51.12						\$1,227					\$1,227

COR 082 Estimate Summary:
MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate
 Contract No. 1252 - Tunnel
 4/29/14

Item	Description	Quant.	Unit	Prod. Unit/Hr	Crew Hours	Days 8HR/Day	Man Hrs	Equip. Hrs	Labor Rate	Equip. Rent/Hr	Perm.Matl. Rate	Const.Matl. Rate	Subc. Rate	Total Labor	Total Eq.Rent	Total Perm.Matl.	Total Const.Matl.	Total Subc.	Total Cost
	Subtotal:						24							\$1,227	\$531	\$748	\$0	\$0	\$2,506
	Unit Cost:						0.04							\$1,226.88	\$530.68	\$748.20	\$0.00	\$0.00	\$2,505.76
	TOTAL NEW WORK DIRECT CONSTRUCTION COST:	1	LS				304							\$15,271	\$18,501	\$6,301	\$873	\$1,264	\$42,210
	Delta Direct Construction Cost = Credit Work - New Work						1.0							(\$692)	\$6,972	(\$31,820)	(\$2,424)	\$1,264	(\$26,700)

Piping Production Worksheet:

COR 082 Estimate Summary:

MOS 20" Low Psi Water Piping vs AWSS Piping Re-route:

Engineer's Estimate

Contract No. 1252 - Tunnel

4/29/14

Description	Qty	Unit	Mh/Unit	Total Mhs	Crew Hours
Install 20" DI Pipe:					4 Men Crew
Cut Pipe	6	EA	2	12	3
20" CL53 TR Flex DI Pipe	65	LF	0.422	27	7
20 TR Flex Gripper Ring	6	EA	2	12	3
Total:				51	13

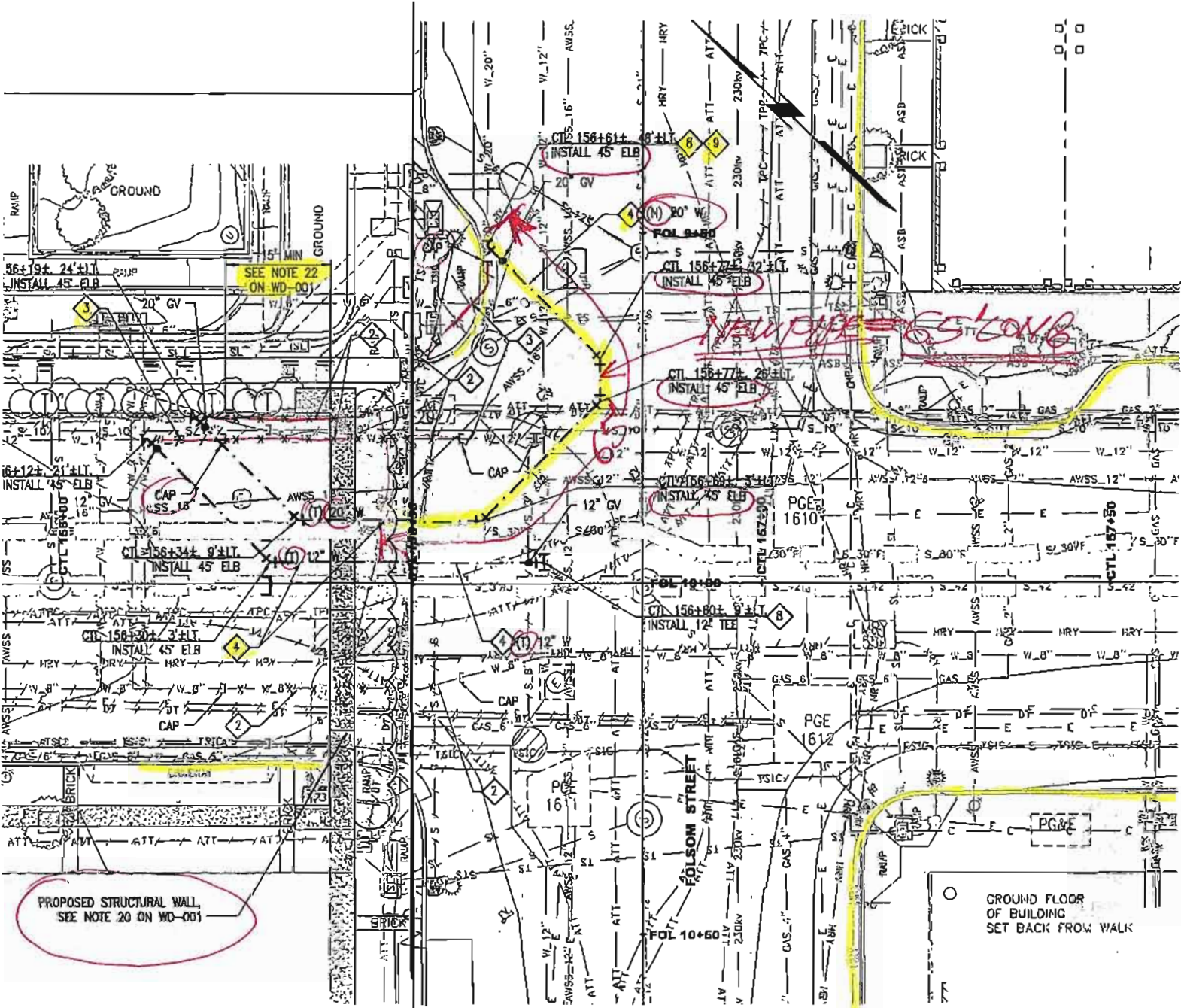
Description	Qty	Unit	Mh/Unit	Total Mhs	Crew Hours
Install Fittings & Valves:					4 Men Crew
20" TR Flex 45 Bend (4 MH/ea x 4 ea = 16 MH)	4	EA	4	16	4
20 MJ x FLG Adapters C153 (4MH/ea x 2 ea = 8 MH)	2	EA	4	8	2
20 FLG x FLG A2361-6 Mueller RW DI Gate Valve, AWWA C515;NRS;OR 2x2 Nut, Per SF Specs (10 MH/ea)	1	EA	10	10	3
20 SS 304 Hex Bolt & Nut Kit (2 MH/ea x 2 ea = 4 MH)	2	EA	2	4	1
20 150# FF Garlock #19 1/8 Thk (2 MH/ea x 2 ea = 4 MH)	2	EA	2	4	1
20 Megalug F/DI *Boxed* 1120DSC W/Low Alloy T-Bolts/Std MJ Gasket (2 MH/ea x 2 ea = 4 MH)	2	EA	2	4	1
Valve Box (2MH/ea)	1	EA	2	2	1
Valve Collars (2MH/ea)	1	EA	2	2	1
Total:				50	13

CN 1252

COR 82 Estimate

**MOS – 20” Low psi Water Piping vs AWSS
Piping Reroute**

Take-Off



CITY AND COUNTY OF SAN FRANCISCO
AL TRANSPORTATION AGENCY

APPROVED
[Signature]
 EXECUTIVE DIRECTOR/CDD

THE
 PHA

TUNNELS

WATER DISTRIBUTION
 MOSCONE STATION
 CTL 154+25 TO 156+50



TELAMON
 ENGINEERING
 CONSULTANTS INC.

DESIGNED	D. ZHURING
DRAWN	E. MATYS
CHECKED	V. DEFORGE
REVIEWED	M. CHAN
RECOMMENDED	M. FOWLER
APPROVED	R. EDWARDS
DATE	JAN 31 2011

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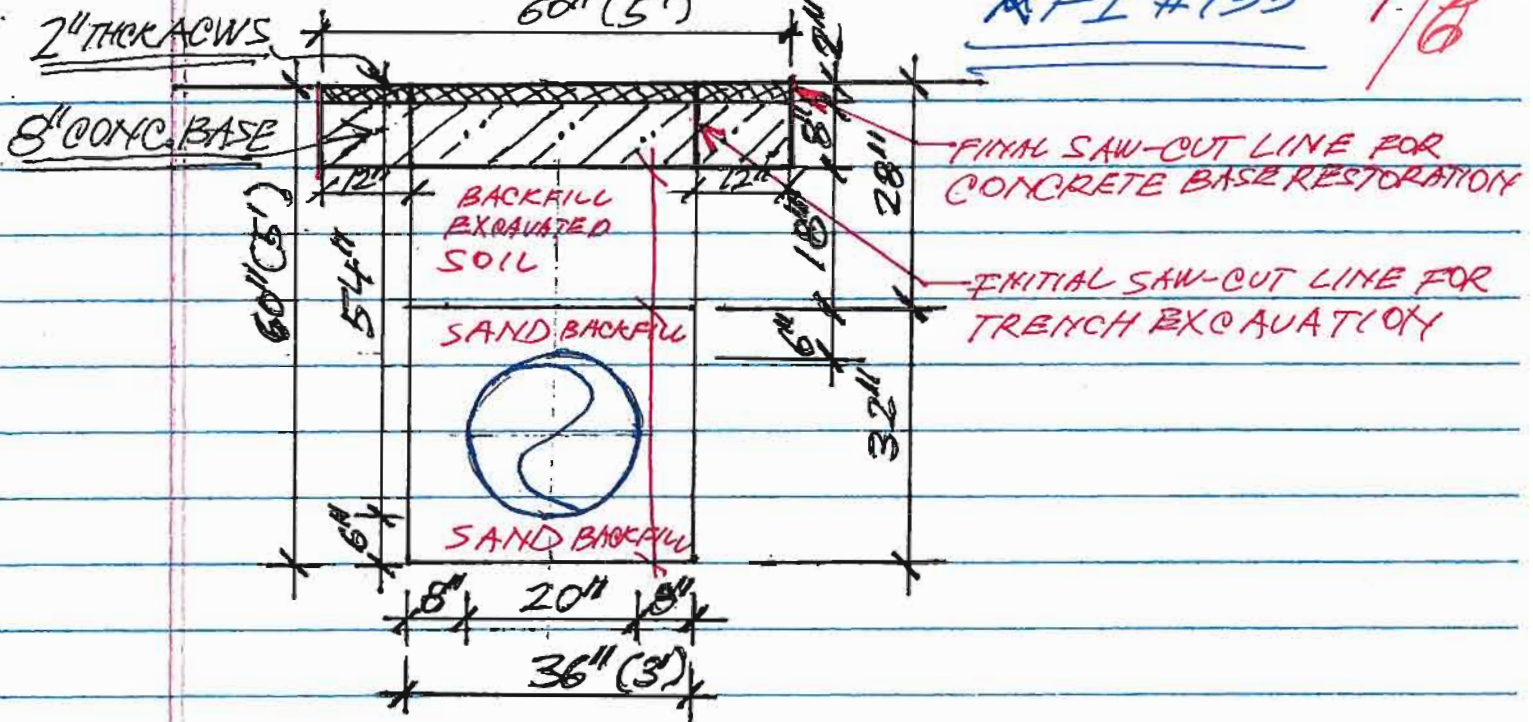
CL-18060	REVISION
WD-403	0
SHEET NO.	141

141 *wdp. 136*

FOR SECURITY INFORMATION ON THE RECEIPT OF Plans/Drawings, One-Copy/Retain as a Result of Compliance with Other Act(s).

TAKE OFF 65 FEET OF 20" WATERLINE
PAVEMENT RESTORATION
 60" (5')

RFI #155 1/8



POT HOLLING (SPEC. SECTION 023000)

DIG EXPLORATORY HOLES by Hand = ~~6 EA~~ 6 EA

- DIG HOLES 4' x 4' x 4' deep

- SAW CUT = 8' / EA x 6 EA = 48 LF 96 LF

- EXCAVATE = $(2' \times 2' \times 4') \times 6 EA = 96 CF \approx 4 CY$
 $(4' \times 4' \times 4') \times 6 EA \approx 144 CF / 6 EA = 24 CY / EA$

DEMO EXIST. PAVEMENT:

- SAWCUT PAVT. = $(65' \times 2 EA) + (2 EA \times 3') = 136 LF$

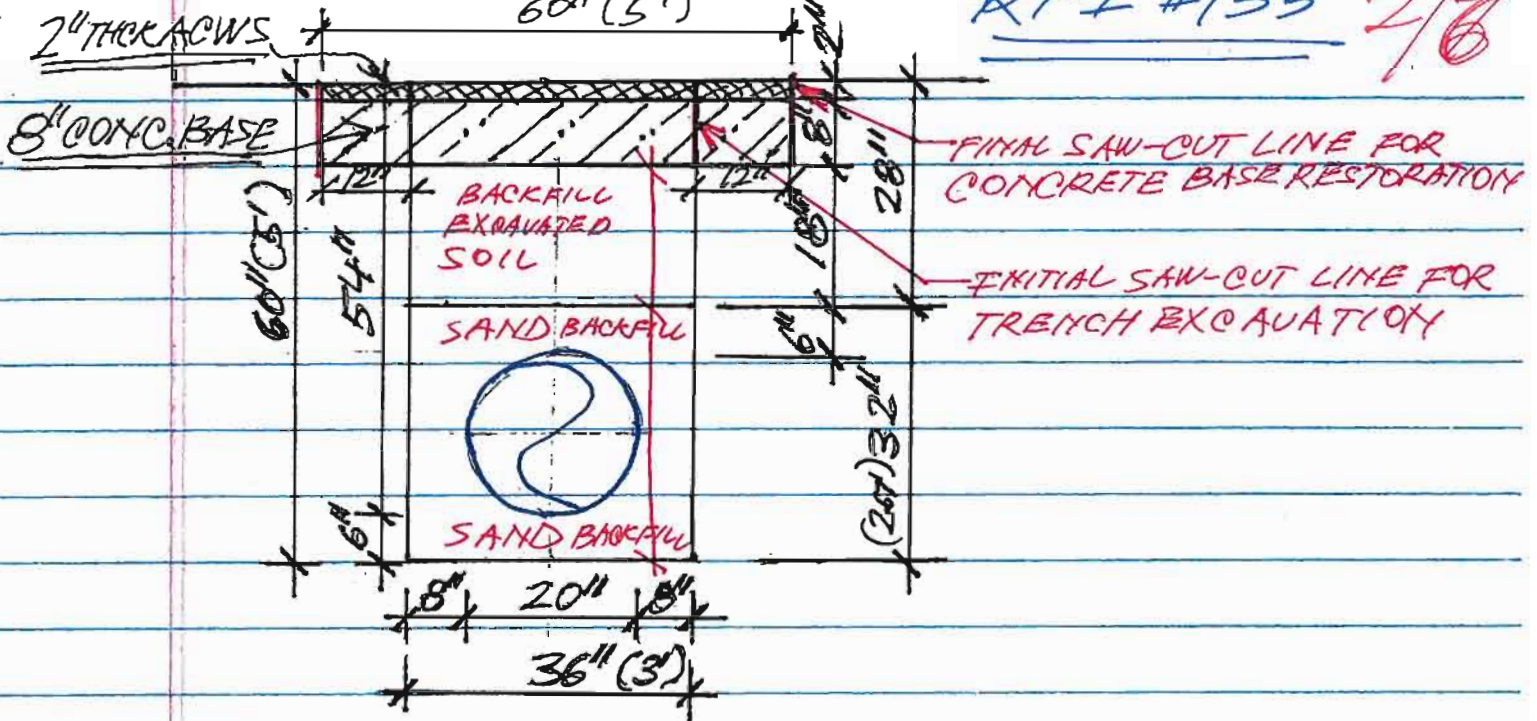
10" VERT. CUT x 136 LF = 1,360 IN FT

- DEMO PAVT = $3' \times 65' = 195 SF$

QTY = $3' \times 65' = 195 SF \times 10" THK = 6 CY$

PAVEMENT RESTORATION
60' (5')

RPI #155 2/6



TRENCH EXCAVATION:

$$QTY = 3'W \times 4.17'H \times 65'LB = 30CY$$

Remove Excess MAT'L:

$$QTY = 3'W \times 2.67'H \times 65'LB = 19CY = 2LOADS$$

BACKFILL WITH EXCAV. MAT'L:

$$QTY = 30CY - 19CY = 11CY$$

PIPE SAND BACKFILL:

$$QTY = (3'W \times 2.67'H \times 65') - \text{PIPE VOLUME} \\ = 19CY - 5CY = 14CY - 4CY = 10CY$$

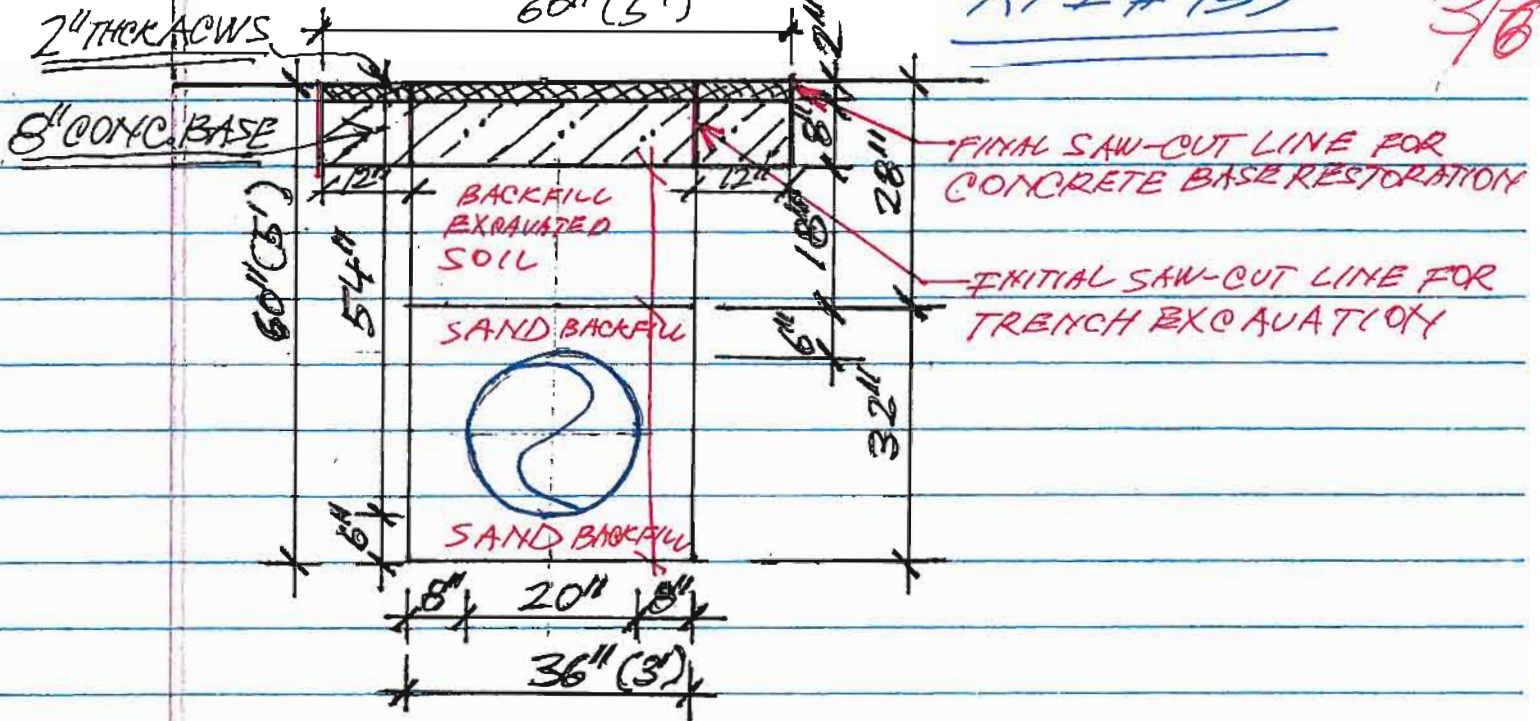
PIPE BEDDING:

$$QTY = 3' \times 0.5'H \times 65'LB \approx 4CY$$

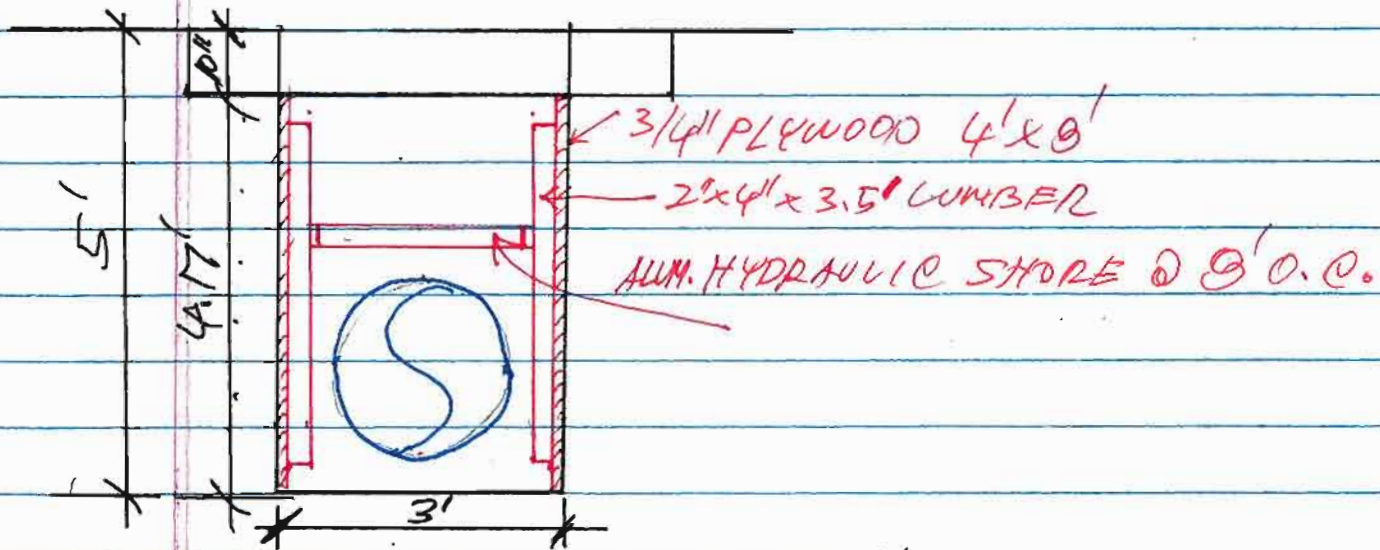
PAVEMENT RESTORATION
60" (5')

RFI # 155

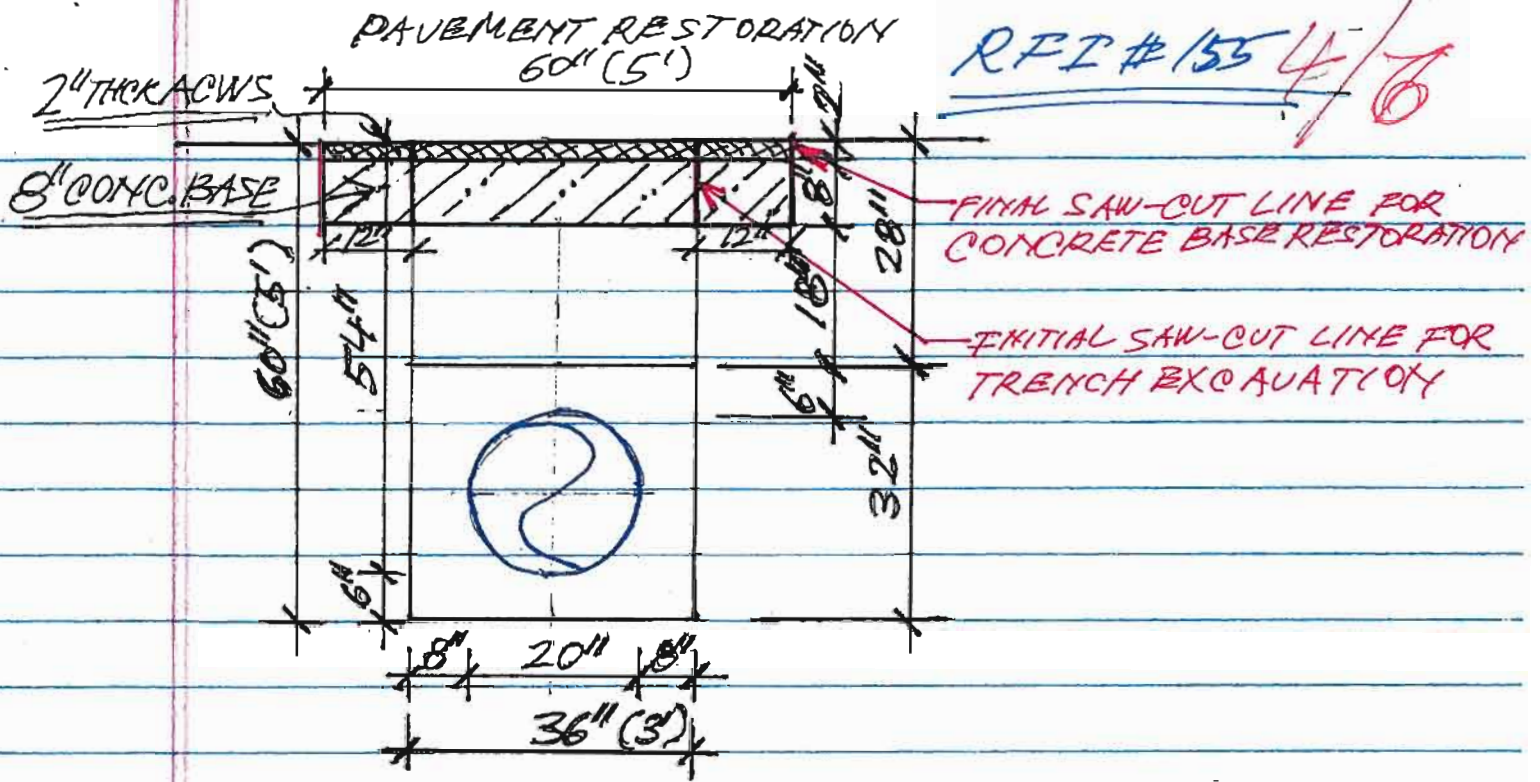
3/8



TRENCH SHORING: LENGTH = 65' x 4.17' DEEP



- 3/4" PLYWOOD 4' x 8' = 65' / 8' = 8 EA / SIDE x 2 SIDES = 16 EA
- 2" x 4" x 3.5" LUMBER @ 2 EA / SHEET / SIDE = 16 EA / SIDE x 2 = 32 EA x 3.5' = 112' @ 20' / EA = 6 EA @ \$9.59 / EA = \$57.54 / 112' = \$0.52 / LF
- ALUM. SHORES @ 2 EA / SHEET / SIDE = 8 EA x 2 = 16 EA



8" CONC. BASE: CLASS 6-3000-3/4

- RINE GRADING = $5' \times 65' = 325 \text{ SF}$

BARB. FORMS =

- CONCRETE = $5' \times 65' \times 0.67' \approx 804'$

- Transverse dummy joints @ 15' o.c.

QTY = $65' / 15' = 4 \text{ EA} \times 5' = 20 \text{ LF}$

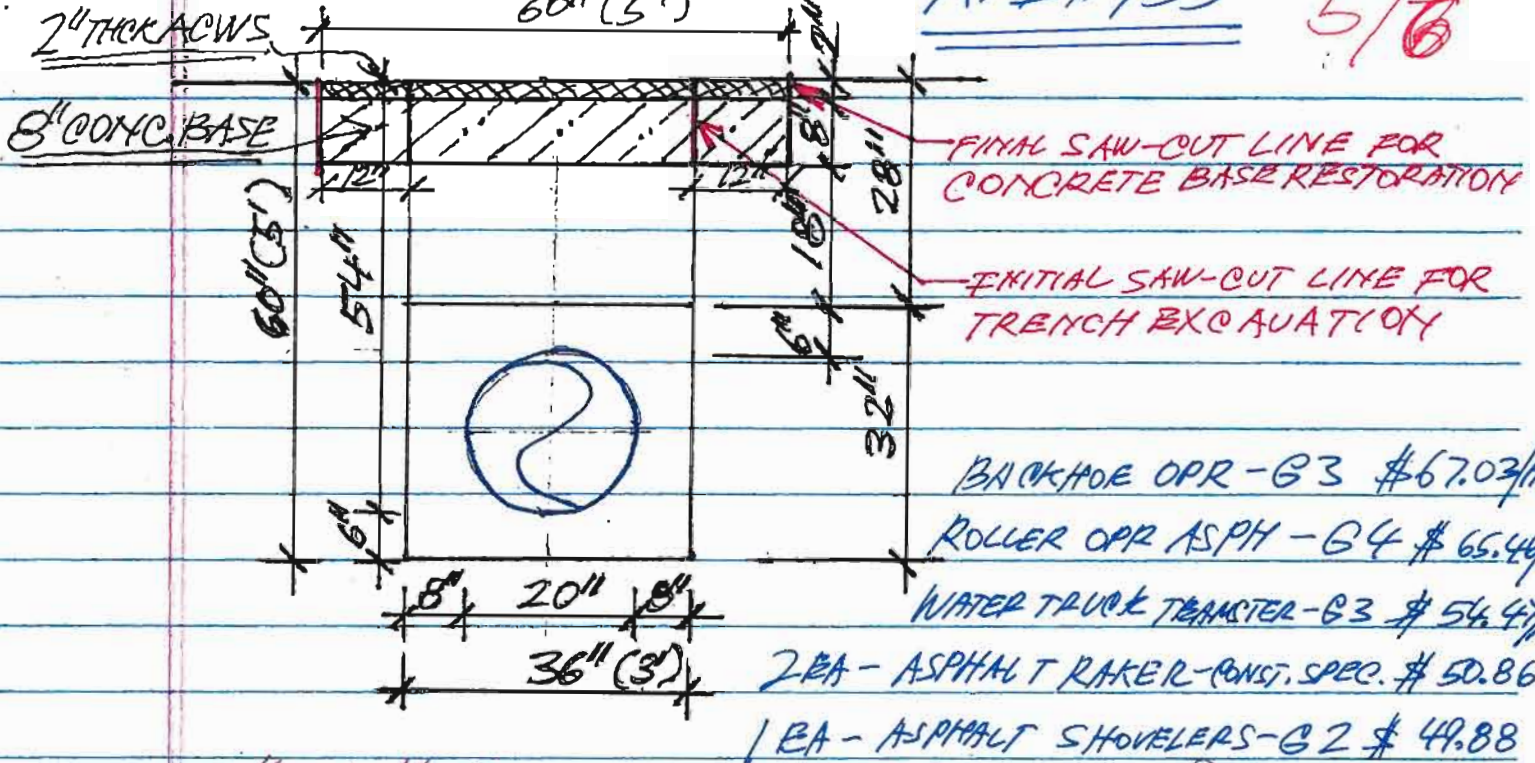
- PREFORMED EXPANSION JOINT FILLER = 20 LF

- WET FINISH = $5' \times \frac{65'}{386'} = 325 \text{ SF}$

- CURING = 325 SF

PAVEMENT RESTORATION
60" (5')

RFI # 155 5/6



- 2" Asphalt Conc. wearing surface (ACWS)

$$\text{AREA} = 5' \times 65' = 325 \text{ SF} = 36 \text{ SY}$$

- PRIME BINDER (OUTBACK MC-30)

$$\text{QTY} = \text{Application Rate} = 0.10 \text{ GAL/SY} \times 36 \text{ SY} \approx 4 \text{ GALS}$$

$$\text{Weight} = 8.33 \#/\text{GAL} = 240 \text{ GAL/TON}$$

$$\text{TACK OIL} = \text{SS-1} \quad \$15/\text{GAL}$$

- 2" ACWS:

$$\text{QTY} = 5' \times 65' \times 2" = 54.167 \text{ CF} \times 148 \#/\text{CF} =$$

$$= 8,017 \# = 4 \text{ TONS} \quad @ \$12.50/\text{TON}$$

- SEALER

$$\text{Application } 40 \text{ SF/GAL} \Rightarrow 325 \text{ SF} / 40 \text{ SF} = 8 \text{ GALS/COAT}$$

$$- 2 \text{ COATS} = 16 \text{ GALS}$$

W. R. Meadows, Inc

A-350 TRS Heavy Duty Pavement Sealer

$$- 55 \text{ U.S. Gallon DRUM} = \$569/\text{DRUM}$$

$$\text{FREIGHT} = \$356/\text{DRUM}$$

$$\$925/\text{DRUM} = \$16.82/\text{GAL}$$

l: 33

RFI #155 6/6

SCHEDULE:

POT HOLE B	10 HR	} 25 HR / 8 HR = 3 DAYS
PRIME PAVT	15 HR	
EXCURE TRENCH	4	} 39 HRS / 8 HR = 5 DAYS
Place Bedding	2	
Unload Pipes	2	
LAY PIPE & FITTINGS	26	
Initial sand Backfill	3	
Backfill with Native	2	} SHORING = 39 HRS = 40
HYDROSTATIC TEST	8	
Place 8" CONC. BASE	10	} 27 HRS / 8 HR = 3.5 DAYS
Place 2" ASPHALT	9	
	91 HRS	91 HRS / 8 HR = 12 DAYS

TRAFFIC RESTRICTIONS

TRAFFIC RESTRICTIONS 24/60' = 30 HRS / 8 HR = 3.75 DAYS
 = 4 DAYS

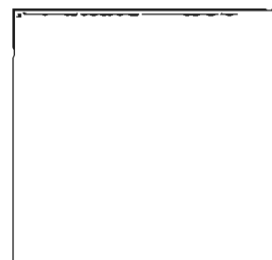
CN 1252

COR 82 Estimate

**MOS – 20” Low psi Water Piping vs AWSS
Piping Reroute**

Quotes

R&B Company Quotation



Project: JOB 1252
Quote #: 51372962
Bid Date: 09/10/2013
Location: REDWOOD CITY, CA
Customer: BIDDING CONTRACTOR (RWC)
R&B Estimator: Paul Harrington
Phone #: 650 366-3833
E-mail: pharrington@rbcompany.com
Taxes: Taxes are not included in the quote. You must account for applicable taxes separately.

Qty	U/M	Description	Unit Price	Extension
PIPELINE MATERIAL				
65	ft	20 CL53 TR FLEX DI PIPE	106.39	6,915.35
65	ft	54" 8 MIL X 340' CLEAR POLY BAG	0.85	55.06
12	ro	10 MIL UPC TAPE 2 X 100'	5.00	60.00
4	ea	20 TR FLEX 45	1,859.27	7,437.10
6	ea	20 TR FLEX GRIPPER RING	374.40	2,246.40
1	ro	6x1000' DET TAPE MK: WATER	55.71	55.71
Subtotal				\$16,769.62
GATE VALVE MATERIAL				
1	ea	^20 FLGxFLG A2361-6 MUE RW GATE VAL DI BODY;AWWA C515;NRS;OR 2X2 OP NUT, PER SF SPECS	12,453.66	12,453.66
2	ea	20 MJxFLG ADAPTER C153 373223	978.82	1,957.65
2	ea	20 S5 304 HEX BOLT & NUT KIT	393.87	787.73
2	ea	^20 150# FF GARLOCK #19 1/8 THK	113.91	227.81
2	ea	20 MEGALUG F/DI *BOXED* 1120DSC W/LOW ALLOY T-BOLTS/STD MJ GASKET	313.60	627.20
Subtotal				\$16,054.06
Bid Total				\$32,823.67

Thank you for the opportunity to quote you this project and for your business!

We are pleased to offer you our proposal for furnishing the above material. This is our understanding of the requirements as indicated in the project plans & specifications. We believe the material does reasonably cover the requirements. However, you should carefully check this list as it is not in any way guaranteed.

The R&B Co. terms & conditions are set forth here:

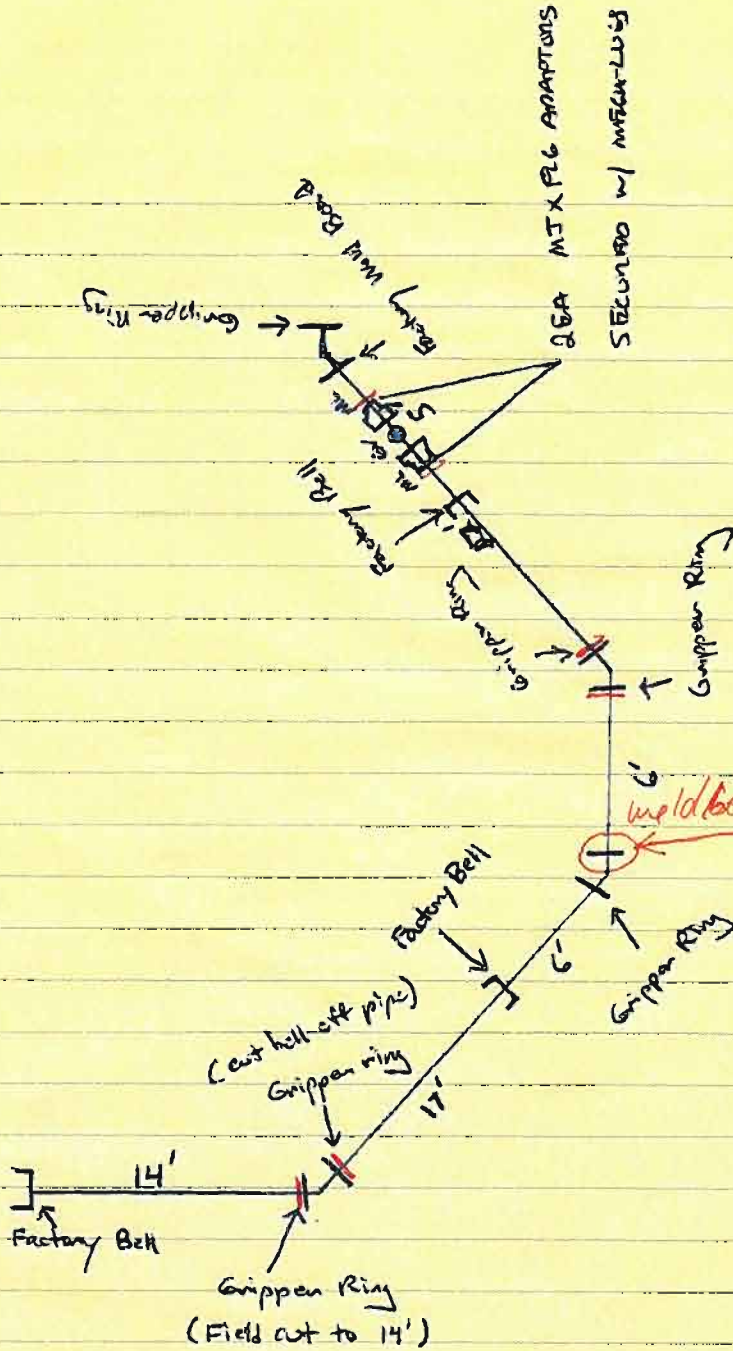
<http://www.rbcompany.com/resources/terms-and-conditions/>

These terms & conditions are incorporated herein, and this quote is subject to such terms & conditions. By accepting this quote, customer acknowledges it has read and approves these R&B Co. terms & conditions.

Paul Harrington

9/11/13

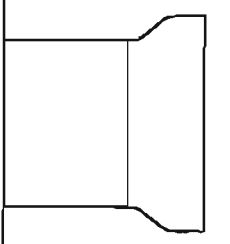
20" TR-FLEX LINE DRAWING



Paul,
 weld beads should we have
 a Gripper Ring
 here ??
 please let me
 know
 Thank you
 Josh

OUT PIPE 6EA
 GRIPPER RINGS 6EA

- 20" TR FLEX 45 BEND 4EA
- 20" FLG x FLG GATE VALVE 1EA
- 20 SS 304 HEX BOLT & NUT KIT 2EA
- 20 MUX FLG ADAPTERS 2EA
- 20 150# FF GARLOCK #19/4 BTK 2EA
- 20 MEGALUB / STOP MOUNTS 2EA



TR FLEX®

RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS



2013 EDITION

P 26

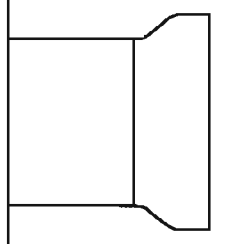
Thickness Class – Thicknesses, Dimensions and Weight (cont.)

SIZE Inches	THICKNESS CLASS	THICKNESS Inches	OUTSIDE DIAMETER* Inches	BARREL WEIGHT PER FOOT Pounds	18-FOOT LAYING LENGTH	20-FOOT LAYING LENGTH
					WEIGHT PER LENGTH† Pounds	WEIGHT PER LENGTH† Pounds
20	50	0.36	21.60	73.5	1510	---
20	51	0.39	21.60	79.5	1615	---
20	52	0.42	21.60	85.5	1725	---
20	53	0.45	21.60	91.5	1830	---
20	54	0.48	21.60	97.5	1940	---
20	55	0.51	21.60	103.4	2045	---
20	56	0.54	21.60	109.3	2155	---
24	50	0.38	25.80	92.9	1910	---
24	51	0.41	25.80	100.1	2040	---
24	52	0.44	25.80	107.3	2170	---
24	53	0.47	25.80	114.4	2295	---
24	54	0.50	25.80	121.6	2425	---
24	55	0.53	25.80	128.8	2555	---
24	56	0.56	25.80	135.9	2685	---
30	50	0.39	32.00	118.5	2430	---
30	51	0.43	32.00	130.5	2645	---
30	52	0.47	32.00	142.5	2860	---
30	53	0.51	32.00	154.4	3075	---
30	54	0.55	32.00	166.3	3290	---
30	55	0.59	32.00	178.2	3505	---
30	56	0.63	32.00	190.0	3715	---
36	50	0.43	38.30	156.5	3260	---
36	51	0.48	38.30	174.5	3585	---
36	52	0.53	38.30	192.4	3910	---
36	53	0.58	38.30	210.3	4230	---
36	54	0.63	38.30	228.1	4550	---
36	55	0.68	38.30	245.9	4870	---
36	56	0.73	38.30	263.7	5190	---

NOTE: Thicknesses and dimensions of 4" through 36" Ductile Iron pipe conform to ANSI/AWWA C151/A21.51. Weights may vary from the standard because of differences in bell weights.

*Tolerance of O.D. of spigot end: 4-12 in., ±0.06 in.; 14-24 in., +0.05 in., -0.08 in.; 30-36 in., +0.08 in., -0.06 in.

† Including bell; calculated weight of pipe rounded off to nearest 5 lbs.



TR FLEX®

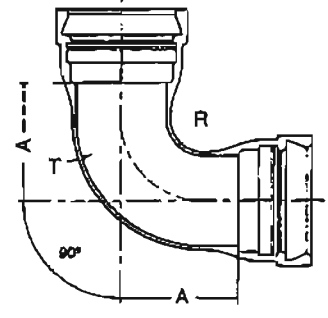
RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS



2013 EDITION

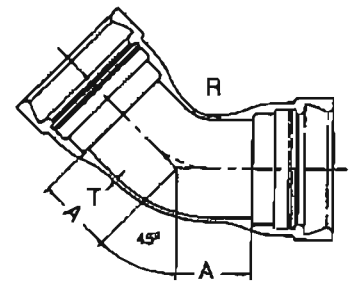
P 28

TR FLEX Fittings Thickness & Dimensions Bends



TR FLEX 90° Bends

SIZE Inches	PRESSURE RATING psi	DIMENSIONS Inches			WEIGHT Pounds
		T	A	R	
4	350	0.34	5.66	3.99	35
6	350	0.36	6.78	4.99	70
8	350	0.39	8.83	6.97	125
10	350	0.41	10.63	8.71	180
12	350	0.44	12.60	10.61	255
14	350	0.66	14.00	11.50	435
16	350	0.70	15.00	12.50	520
18	350	0.75	16.50	14.00	670
20	350	0.80	14.00	12.38	745
24	350	0.89	17.00	16.70	1070
30	250	1.03	23.00	21.00	2051
36	250	1.15	26.00	24.00	2754

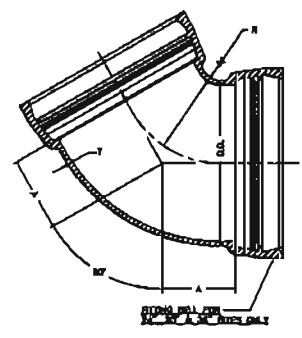


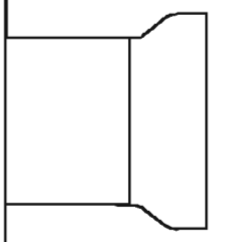
TR FLEX 45° Bends

SIZE Inches	PRESSURE RATING psi	DIMENSIONS Inches			WEIGHT Pounds
		T	A	R	
4	350	0.34	3.33	3.99	30
6	350	0.36	3.86	4.99	55
8	350	0.39	4.74	6.97	90
10	350	0.41	5.22	7.98	125
12	350	0.44	5.91	9.47	170
14	350	0.66	7.50	12.06	370
16	350	0.70	8.00	13.25	430
18	350	0.75	8.50	14.50	550
20	350	0.80	9.50	16.88	685
24	350	0.89	6.00	18.12	970
30	250	1.03	10.50	20.52	1643
36	250	1.15	11.50	22.94	2189

TR FLEX 60° Bends

SIZE Inches	PRESSURE RATING psi	DIMENSIONS Inches			WEIGHT Pounds
		T	A	R	
24	350	0.89	15.00	18.41	1020
30	250	1.03	15.00	20.19	1971
36	250	1.15	17.00	23.38	2644





TR FLEX®

RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS



2013 EDITION

P 13

TR FLEX GRIPPER® Rings

TR FLEX GRIPPER Rings are used to restrain 4" through 36" field cut pipe (pipe without weldment) inside TR FLEX Pipe and Fittings. These joints are suitable for 350 psi working pressure for sizes 4" through 24" and 250 psi working pressure for 30" and 36" products. On many installations a "less than nominal" length of pipe (a closure piece) is required to complete a pipe run. These closure pieces can be made in the field, saving time and money.

THE TR FLEX GRIPPER Ring consists of Ductile Iron locking segments, which have stainless steel teeth mounted on the I.D. surface. These replace the locking segments normally used on TR FLEX Pipe and Fittings which have a weldment to provide a positive axial lock between the bell interior surface and the spigot end of the pipe.

Obvious advantages to using the TR FLEX GRIPPER Ring include:

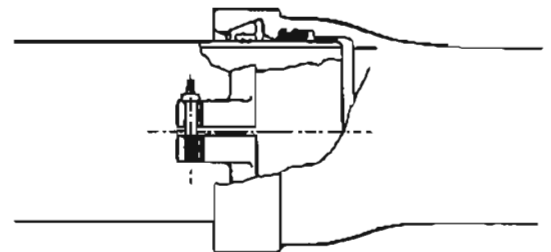
1. Cost Savings: No special order spool piece is required.
2. Delivery: By cutting pipe in the field, the closure piece can be made when required.

Field weldments can be used for small diameter Ductile Iron Pipe. Field weldment bars, kits and instructions are available from U.S. Pipe. (See U.S. Pipe brochure, "Field Cutting and Welding Procedure for TR FLEX Pipe.")

It is easier to properly install TR FLEX GRIPPER Rings in TR FLEX Pipe sockets than TR FLEX Fitting sockets, since it is easier to keep a pipe to pipe joint in alignment during assembly.

TR FLEX GRIPPER Rings must not be used with Horizontal Drilling Pull Process. TR FLEX GRIPPER Rings must not be used in buried or aerial vertical installations greater than 45 degrees. A field weld bar or fabricated pipe closure should be used.

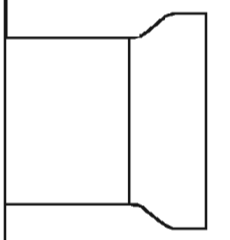
Prior to installing the TR FLEX GRIPPER Ring, please follow the instructions for TR FLEX Field Cutting on Ductile Iron pipe included in this brochure.



TR FLEX GRIPPER Ring

NOTE: There must be no more than 6 mils nominal coating thickness on the end of the pipe to be restrained with the TR FLEX GRIPPER Ring.

The TR FLEX GRIPPER Ring should only be used on Ductile Iron Pipe.



TR FLEX®

RESTRAINED JOINT DUCTILE IRON PIPE AND FITTINGS



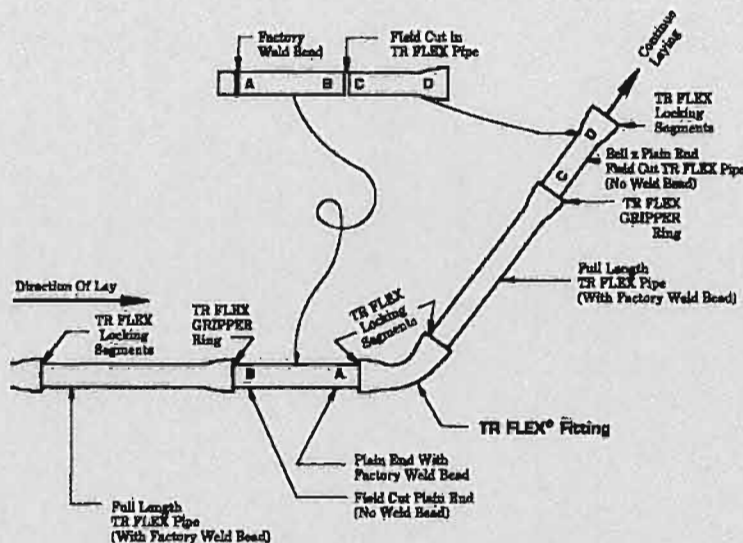
2013 EDITION

P 14

TR FLEX GRIPPER® Rings Layout Instructions

The illustration shows how to use TR FLEX GRIPPER Rings in pipe while utilizing fittings. A field cut is made to a TR FLEX® Pipe at the desired location. The spigot end with the factory weld bead (A) is installed into one end of the TR FLEX Fitting and restrained with conventional TR FLEX Locking Segments. The field cut and beveled plain end (B) is installed into the bell of the preceding pipe and restrained with a TR FLEX GRIPPER Ring. A full length TR FLEX Pipe is then installed into the other socket of the TR FLEX Fitting and restrained with TR FLEX Locking Segments. The remaining bell by plain end cut piece is then installed into the socket of the full length TR FLEX Pipe with a TR FLEX GRIPPER Ring. Laying continues with conventional TR FLEX Pipe.

TR FLEX GRIPPER Ring Installation Example



Deflection

If the TR FLEX GRIPPER Ring is not square with the pipe during installation, any subsequent movement of the joint as pressure is applied could result in loosening the ring and possible joint separation.

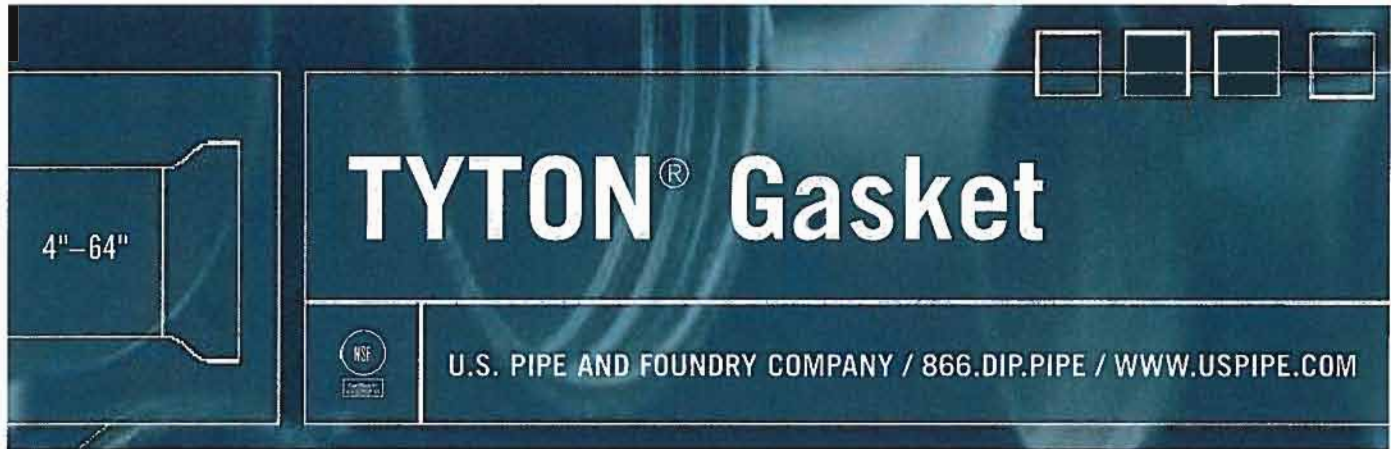
The joint deflection should be set (as shown in Table 1, page 7) only after the installation is complete.

The precautions noted earlier under TR FLEX Pipe and Fittings Socket Pullout (page 11) also apply to TR FLEX GRIPPER Ring restrained joints.

Installation Tips

Many contractors have found that it is simpler to properly install the TR FLEX GRIPPER Ring in TR FLEX Pipe sockets than in TR FLEX Fitting sockets since it is easier to keep the pipe-to-pipe joint in alignment during assembly and installation. The illustration depicts an example of such an installation.

NOTE: U.S. Pipe does NOT recommend Gripper Rings in vertical installations greater than 45° and those that choose to do so proceed at their own risk.



TYTON[®] Gasket

U.S. Pipe's TYTON[®] Gasket is used in U.S. Pipe's TYTON JOINT[®] and HP LOK[®] Joint Ductile Iron Pipe & Fittings. It is a circular rubber gasket which has a modified bulb shape in cross section. The TYTON[®] Gasket conforms to ANSI/AWWA C111/A21.11. Composition and dimensions of the gasket have been carefully engineered to ensure a water-tight and lasting seal.

All TYTON[®] Gaskets are made from vulcanized synthetic rubber with a soft rubber bulb and harder heel joined in a strong, vulcanized bond. No reclaimed rubber is used in the process. All gaskets meet the requirements of the National Sanitation Foundation (NSF) Standard ANSI/NSF-61, *Drinking Water System Components – Health Effects*.

The standard rubber compound is SBR – Styrene Butadiene Rubber. This material has a maximum service temperature rating of 150°F and is used as the predominant gasket material for Drinking Water, Sea Water, Sanitary Sewer, Reclaimed Water, Raw Water, & Storm Water.

If low levels of certain contaminants are present in water and sanitary sewer applications, special elastomers are available. The following table may be used as a guide for common TYTON[®] Gasket water, sewer, and air applications.

U.S. Pipe can furnish these special elastomers if specified for specific applications. TYTON[®] Gaskets made of special elastomers are marked using colored dots.

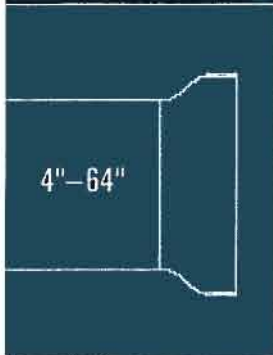
Elastomer	Color of Dot
Neoprene [®]	Yellow
EPDM	Orange
Nitrile	Green
FKM	Red

Special care should be made during inventory and installation in order to insure the proper gasket is used in applications where specified.

ANSI/AWWA Standards

ANSI/AWWA C111/A21.11 Standard for Rubber-Gasket Joints for Ductile Iron Pressure Pipe and Fittings.

TYTON[®] Gaskets are available in 4" - 64" sizes and the pressure rating is based on the performance requirements of ANSI/AWWA C111/A21.11.



TYTON[®] Gasket



U.S. PIPE AND FOUNDRY COMPANY / 866.DIP.PIPE / WWW.USPIPE.COM

Description	Maximum Service Temperature ^{1,2}			Uses ³
	Water & Sewer		Air ⁴	
	Push-On & Mechanical Joint Gaskets °F	Push-On Joint Gaskets °F	Mechanical Joint Gaskets °F	
SBR (Styrene Butadiene)	150	150	125	Common: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Nitrile (NBR) (Acrylonitrile Butadiene)	150	150	125	Common: Hydrocarbons, Fats, Oils, Greases, Chemicals, Oils & Fluids, Refined Petroleum Other Acceptable Services: Drinking Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
Neoprene [®] (CR) (Polychloroprene)	200	180	150	Common: Greasy Waste Other Acceptable Services: Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
EPDM (Ethylene Propylene Diene Monomer)	212	200	150	Common: Alcohols, Dilute Acids, Dilute Alkalis, Ketones (MEK, Acetone), Vegetable Oil Other Acceptable Services: Drinking Water, Sea Water, Sanitary Sewage, Reclaimed Water, Raw Water, Storm Water
FKM ⁵	212	300	300	Common: Aromatic Hydrocarbons and Fuels, Acids, Vegetable Oils, Petroleum Products, Chlorinated Hydrocarbons, Most Chemicals and Solvents Other Acceptable Services: Drinking Water, Reclaimed Water, Raw Water, Storm Water



- ¹ Maximum service temperatures listed are intended as general guidelines for ductile iron pipe gaskets. For service temperatures greater than those listed, consult pipe manufacturer for specific recommendations.
- ² Maximum service temperature is not usually a meaningful parameter for piping gaskets; however, low temperatures during pipeline installation may necessitate precautions. Consult your U.S. Pipe Sales Representative for pertinent recommendations.
- ³ Water, including sewage, with low levels of the listed contaminants.
- ⁴ Lubricating oil in the air will adversely affect SBR and EPDM performance.
- ⁵ Consult your U.S. Pipe Sales Representative for availability of FKM push-on gaskets.



4"-12" A-2362-9306 RESILIENT WEDGE GATE VALVES - SL. x SL.

Mueller Co.

- Catalog number-
- A-2362-38** Slip-on† ends with gasket
- A-2362-40** Slip-on† ends less gasket

LOW ZINC STEM PER SFWD SPEC

- Sizes ~ 4", 6", 8", 10", 12"
- Meets or exceeds all applicable requirements of ANSI/AWWA C509 and C515 Standards, UL Listed, FM Approved, and certified to ANSI/NSF 61.
- Slip-on ends fit plain end of classes 150, 200 and 250 cast iron; ductile iron and classes 150 and 200 cast iron O.D. PVC
- Iron body with nominal 10 mils MUELLER® Pro-Gard™ Fusion Epoxy Coated interior and exterior surfaces
- Epoxy coating meets or exceeds all applicable requirements of ANSI/AWWA C550 Standard and is certified to ANSI/NSF 61
- EPDM wedge, symmetrical & fully encapsulated with molded rubber; no exposed iron
- Non-rising stem (NRS)
- Triple O-ring seal stuffing box (2 upper & 1 lower O-ring), with dirt seal
- 2" square wrench nut (optional handwheel available) -- open left or open right
- 250 psig (1723 kPa) maximum working pressure, 500 psig (3447 kPa) static test pressure
- UL Listed, FM Approved: 200 psig (1379 kPa)



A-2362-38

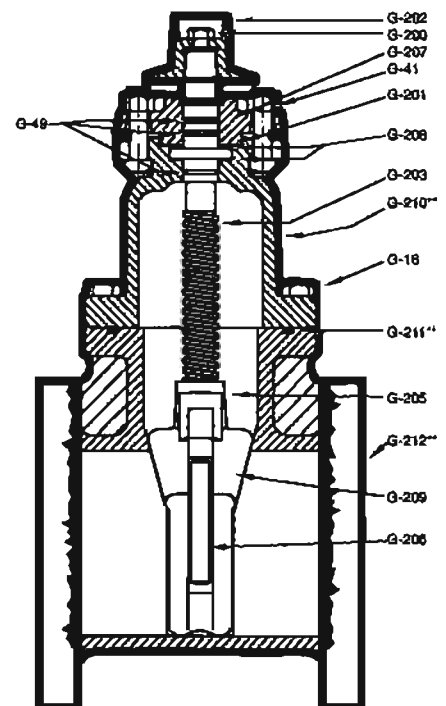
†Design and dimensions of the joint are manufactured under license of U.S. Pipe and Foundry Company.

Options

- Position indicators
- Stainless steel fasteners: Type 316
- Handwheel

Resilient wedge gate valve parts

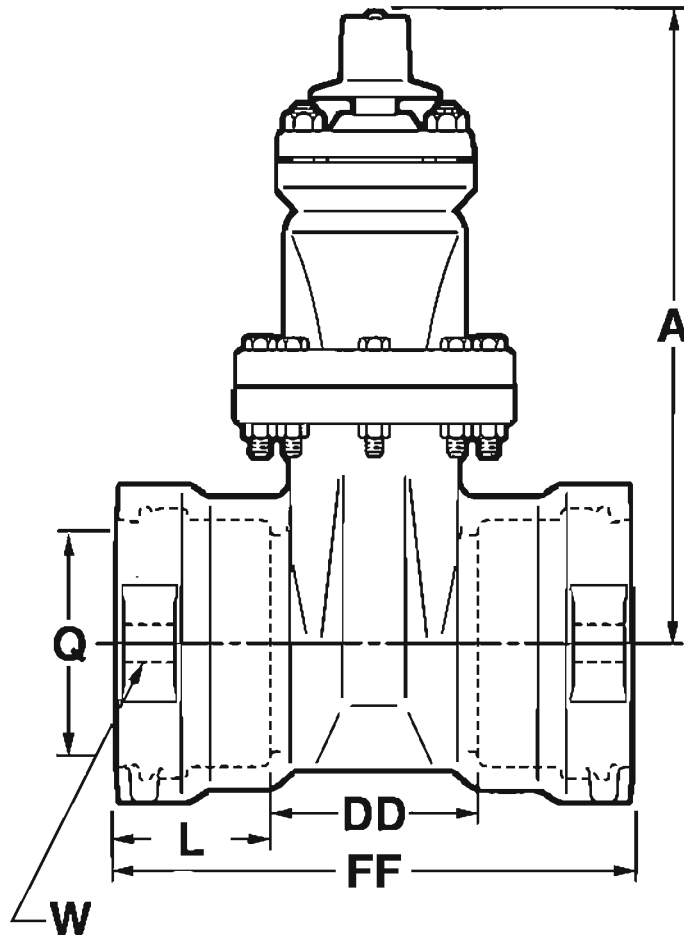
Catalog Part No.	Description	Material	Material Standard
G-16	Bonnet Bolts & Nuts	Stainless Steel	Type 304
G-41	Stuffing Box Bolts & Nuts	Stainless Steel	Type 304
G-49	Stem O-rings (3)	Rubber	
G-200	Wrench Nut Cap Screw	Stainless Steel	Type 304
G-201	Stuffing Box Seal	Rubber	
G-202	Wrench Nut	Cast Iron	ASTM A126 CL.B
G-203	Stem	Everdur	ASTM B98-C66100/H02
G-204	Hand Wheel (not shown)	Cast Iron	ASTM A126 CL.B
G-205	Stem Nut	Bronze	ASTM B62
G-206	Guide Cap Bearings	Celcon	
G-207	Stuffing Box with dirt seal	Cast Iron Rubber	ASTM A126 CL. B ~
G-208	Anti-friction Washer (2)	Celcon	
G-209	Wedge, Rubber Encapsulated	EPDM*	ASTM A126 CL.B
G-210**	Bonnet	Ductile Iron	ASTM A536
G-211**	Bonnet O-ring	Nitrile	
G-112**	Body	Ductile Iron	ASTM A536



* Fully encapsulated in molded rubber with no iron exposed

** Previous to 1999 these parts on 4"-12" valves were designed with a gasket instead of an O-ring and with additional bolts. Confirm the type of seal when ordering a replacement gasket or O-ring.

4"-12" A-2362-9306 RESILIENT WEDGE GATE VALVE - SL. x SL.



Dimensions

Dimension*	Nominal size				
	4"	6"	8"	10"	12"
A	14.19	18.00	21.50	25.50	28.62
Q (bore)	4.30	6.30	8.30	10.30	12.30
W (distance between strapping lug holes across face of valve ends)	8.62	10.62	13.12	16.38	18.12
FF	12.81	14.81	17.88	18.43	18.62
L	4.12	4.38	5.62	5.62	5.62
DD	4.57	6.05	6.64	7.19	7.38
Turns to open	14	20.5	26.5	33	38.5
Weight*	90	165	260	400	565

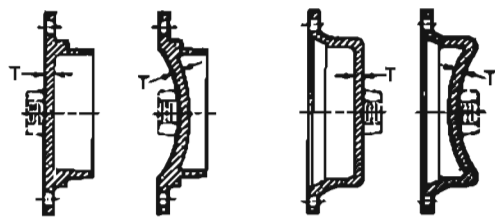
*All dimensions are in inches. All weights are in pounds and are approximate.

Tyler/Union

MECHANICAL JOINT C153 DUCTILE IRON COMPACT FITTINGS

Sizes 3" thru 12" UL Listed For Fire Main Equipment

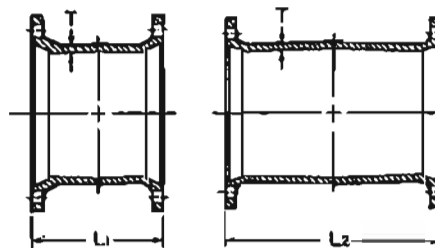
SOLID & TAPPED PLUGS & CAPS



3"-12" MJ Plug 14"-24" MJ Plug 3"-12" MJ Cap 14"-24" MJ Cap

Size	Dimensions		Weights	
	T	Max. Tap	Plugs	Caps
3	.46	2	9	8
4	.46	2	9	10
6	.46	2	18	18
8	.46	2	25	26
10	.56	2	36	32
12	.56	2	47	46
14	.62	2	76	85
16	.62	2	98	94
18	.65	2	138	121
20	.66	2	158	149
24	.68	2	223	210
30	* (Available Soon see List Prices) ...			
36	* (Available Soon see List Prices) ...			

SOLID SLEEVES

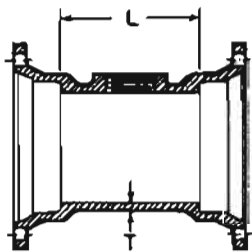


Short Long

Size	T	Dimensions		Weights	
		L ¹	L ²	Short	Long
3	.34	7.5	12	13	22
4	.35	7.5	12	19	25
6	.37	7.5	12	28	39
8	.39	7.5	12	38	55
10	.41	7.5	12	48	68
12	.43	7.5	12	62	81
14	.56	9.5	15	116	146
16	.57	9.5	15	138	174
18	.68	9.5	15	160	230
20	.69	9.5	15	212	269
24	.75	9.5	15	272	380
30	* (Available Soon see List Prices) ...				
36	* (Available Soon see List Prices) ...				

ADAPTERS

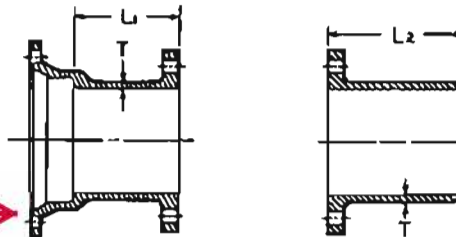
TAPPED TEE



MJ Tapped Tee (2" Tap)

Size	Dimensions		Max. Tap	Weights
	T	L		
3	.34	6	2	19
4	.35	6	2	23
6	.37	6	2	35
8	.39	6	2	54
10	.41	6	2	68
12	.43	6	2	88
16	.52	6	2	164

MJ x FE Flange
Dimensions are
on Page 1.



MJ x FE

FE x PE

Size	T	Dimensions		Weights	
		L ¹	L ²	MJxPE	FExPE
3	.34	6	12	18	...
4	.35	6	12	26	23
6	.37	6	12	36	35
8	.39	6	12	50	50
10	.41	6	12	60	69
12	.43	6	12	88	88
14	.51	6	12	127	...
16	.52	6	12	155	149
20	.60	6	...	275	...
30	.66	8
36	.74	8

HEX BOLT T-304

SUBMITTAL SPECIFICATIONS

ABSTRACT OF ASTM F593 & F594



GRADE: UNSTABILIZED 18 CHROMIUM 8 NICKEL (AISI TYPE 304)

CHEMICAL REQUIREMENTS

CHEMICAL ANALYSES SHALL BE PERFORMED IN ACCORDANCE WITH ASTM A751

CARBON MAX	MANGANESE MAX	PHOSPHORUS MAX	SULFUR MAX	SILICON MAX	CHROMIUM	NICKEL	COPPER
0.08	2.00	0.045	0.030	1.00	18.0 TO 20.0	8.0 TO 10.5	1.00

MECHANICAL REQUIREMENTS

HARDNESS ROCKWELL MIN	TENSILE STRENGTH (KSI) MIN	YIELD STRENGTH (KSI) MIN	ELONGATION
880 - C32	85	45	25

HEX NUTS ASTM F594 (ASME B18.2.2)
 HEAVY HEX NUTS ASTM F594 (ASME B18.2.2)

T-304 STAINLESS STEEL WASHERS

LOCATION

BURIED
 SUBMERGED
 ABOVE GRADE
 BELOW GRADE
 OTHER

DIMENSIONAL DATA: UNLESS OTHERWISE SPECIFIED IN THE PURCHASE ORDER, SHALL BE THREADED IN ACCORDANCE WITH ANSI/ASME B18.2.1, PAGE C-1, FOR HEX CAP SCREWS (FINISHED HEX BOLTS). ADDITIONAL INFORMATION CAN BE FOUND IN ASTM F593, DTD 1998 (STAINLESS STEEL BOLTS, HEX CAP SCREWS) AND IN ASTM F594, DTD 1998 (STAINLESS STEEL NUTS).

TRIPAC

A DIVISION OF TRIPAC MARKETING, INC.

475 KLUIG CIRCLE • CORONA, CA 92880-8406
(951) 280-4488 • FAX: (951) 272-4445

**FULL FACE, 1/8" THICK,
150# HOLE PATTERN**



Garlock 19

MATERIAL PROPERTIES*

Color:	Black
Composition:	SBR rubber reinforced with 10.8oz cotton sheeting (5.0oz in 1/32" material).
Durometer, Shore A, +/- 5:	80
Temperature², Maximum, °F (°C):	+200 (+93)
Pressure², Maximum, psig (bar):	250 (17)
Finish Available	
Thru 1/8":	Cloth
Over 1/8":	Smooth
Number of Piles	
1/32", 1/16", 3/32":	1
1/8":	2
3/16":	3
1/4":	4

PHYSICAL PROPERTIES*

ASTM D751	Burst test across 2" (50mm) dia. opening psi (bar):	Not recommended for use as a diaphragm material.
ASTM D149	Dielectric Properties, range, volts/mil. Sample conditioning	<u>1/8"</u> 31
ASTM F586	Design Factors "m" factor:	1.25
	"y" factor, psi (N/mm ²):	400 (2.8)
ASTM D2000	Line Call Out:	2AA810A13 ⁽³⁾

Notes:

This is a general guide and should not be the sole means of selecting or rejecting this material.

* Values do not constitute specification Limits

² When approaching the maximum or minimum ratings consult Garlock Applications Engineering

³ For rubber compound only, not fabric

MEGALUG®

Series 1100

Mechanical Joint Restraint for Ductile Iron Pipe



Features and Applications:

- Sizes 3 Inch through 48 Inch
- Constructed of ASTM A536 Ductile Iron
- Torque Limiting Twist-Off Nuts
- MEGA-BOND® Restraint Coating System
For more Information on MEGA-BOND, refer to www.ebaa.com
- The Mechanical Joint Follower Gland is Incorporated into the restraint
- Heavy Duty thick wall design
- Support Products Available:
Split repair style available 3 Inch through 48 inch.
EBAA Series 1100SD

Solid restraint harness available for push-on pipe bells.
EBAA Series 1700

Split restraint harness available for existing push-on bells.
EBAA Series 1100HD
- All MEGALUG and related restraint products can be furnished as packaged accessories complete with appropriate restraint, gasket, lubrication, and bolting hardware
- For use on water or wastewater pipelines subject to hydrostatic pressure and tested in accordance with either AWWA C600 or ASTM D2774

Nominal Pipe Size	Series Number	Shipping Weights	Post Assembly Deflection	Pressure Rating (PSI)
3	1103	6.1	3°	350
4	1104	7.7	3°	350
6	1106	11.9	3°	350
8	1108	14.8	3°	350
10	1110	23.9	3°	350
12	1112	31.2	3°	350
14	1114	48.5	2°	350
16	1116	56.4	2°	350
18	1118	63.1	1½°	250
20	1120	72.3	1½°	250
24	1124	133.1	1½°	250
30	1130	194.6	1°	250
36	1136	234.0	1°	250
42	1142	536.0	1°	250
48	1148	653.0	1°	250

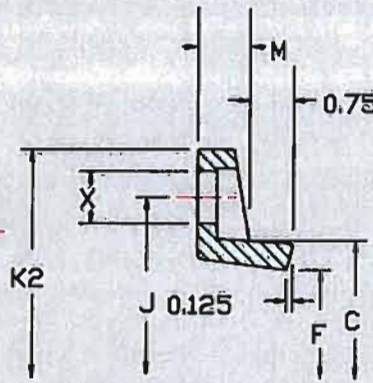
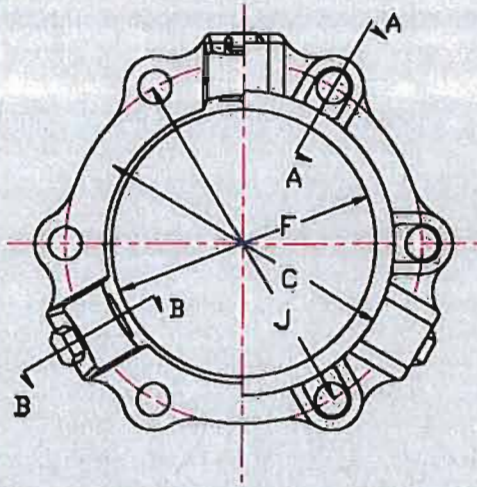
NOTE: For applications or pressures other than those shown please contact EBAA for assistance.



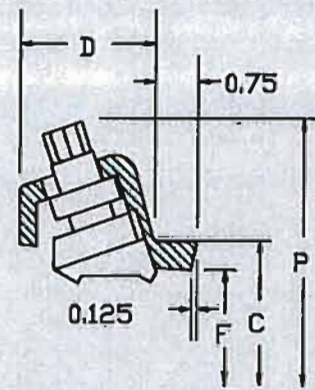
U.S. Patent Nos.
4092036, 4627774, 4779900, 4896903, 5544922

Series 1100 Submittal Reference Drawing

EBAA IRON



SECTION A-A



SECTION B-B

MADE IN USA

Nominal Pipe Size	Series Number	C	D	F	M	P*	X	J	K2	Wedge QTY.	Bolt QTY.	Weight (LBS.)	Pressure Rating (PSI)
3	1103	4.48	2.27	4.06	0.62	9.06	0.750	6.19	7.69	2	4	6.1	350
4	1104	5.92	2.27	4.90	0.75	9.90	0.875	7.50	9.12	2	4	7.6	350
6	1106	8.02	2.27	7.00	0.88	12.00	0.875	9.50	11.12	3	6	11.8	350
8	1108	10.17	2.31	9.15	1.00	14.16	0.875	11.75	13.37	4	6	14.9	350
10	1110	12.22	2.37	11.20	1.00	16.20	0.875	14.00	15.62	6	8	23.9	350
12	1112	14.32	2.37	13.30	1.25	18.30	0.875	16.25	17.88	8	8	31.2	350
14	1114	16.40	2.69	15.44	1.50	20.94	0.875	18.75	20.25	10	10	49.7	350
16	1116	18.50	2.69	17.54	1.56	22.90	0.875	21.00	22.50	12	12	56.4	350
18	1118	20.60	2.69	19.64	1.63	25.00	0.875	23.25	24.75	12	12	63.6	250
20	1120	22.70	2.69	21.74	1.89	27.10	0.875	25.50	27.00	14	14	71.0	250
24	1124	26.90	3.20	25.94	1.81	32.64	0.875	30.00	31.50	16	16	128.7	250
30	1130	33.29	3.20	32.17	2.25	38.87	1.125	36.88	39.12	20	20	190.7	250
36	1136	39.59	3.20	38.47	2.25	45.17	1.125	43.75	46.00	24	24	226.5	250
42	1142	45.79	4.56	44.67	3.88	55.57	1.375	50.62	53.48	28	28	518.9	250
48	1148	52.09	4.56	50.97	3.88	61.87	1.375	57.50	60.36	32	32	608.3	250

* With Twist-Off Nuts twisted off.

Important Notes

NOTE: Dimensions are in inches and are subject to change without notice.

- The Series 1100 MEGALUG should not be used on plain end fittings.
- If embedded in concrete, polyethylene wrap must be used to prevent concrete intrusion into the wedge pocket.
- For test pressures above the rated pressures shown, contact EBAA for recommendations, such as tandem restraint for high pressure applications.
- If you experience the need to install the Series 1100 MEGALUG in an unconventional manner please consult our engineering department.
- The Series 1100 MEGALUG is intended for use on ductile iron pipe. The restraint can be used on grey iron pipe if the pipe is not severely corroded and is in sound condition and has an outside diameter that can be accommodated. For more information on the use of the MEGALUG restraint on grey iron pipe ask for Connections Bulletin Cl 1.
- EBAA-Seal™ Mechanical Joint Gaskets are provided with 30 inch through 48 inch MEGALUG restraints. These are required on the above referenced sizes to accommodate the pressure ratings and safety factors shown.
- Extra length T-bolts are provided with the 42 inch and 48 inch sizes to facilitate easier assembly of the mechanical joint.
- All Series 1100 MEGALUG components are made of ductile iron conforming to ASTM A536. The wedges are heat treated to a hardness range of 370 to 470 BHN.
- LISTINGS AND APPROVALS: Sizes 3 inch through 24 inch are listed by Underwriters Laboratories, Inc. Category HUKF "Fittings, Retainer Type" with a deflection angle of 5 degrees (3 inch through 12 inch) and 2 1/2 degrees (14 inch through 24 inch). The listing file number is EX2816. Sizes 3 inch through 12 inch are Factory Mutual approved.

NORTHTOWN COMPANY

Pipe Protection Products

POLYWRAP

TUBULAR POLYETHYLENE PROTECTION FOR CAST IRON, DUCTILE IRON AND STEEL PIPE

PRODUCT HISTORY

Certain soils and artificial environments have been shown to be corrosive to cast iron pipe. In severe environments, the life of the pipe has been significantly shortened. Extensive tests and field installations for over 40 years have shown that loose polyethylene encasement of the pipe is an effective and economical means of corrosion protection.

PRODUCT USE / DESCRIPTION

Polyethylene film prevents contact between the pipe and the surrounding soil for corrosion protection. However, it is not expected to be an airtight or watertight encasement. It is available in Natural (clear), Black or custom colors and in several widths suitable for all pipe sizes.

INSTALLATION

The 8 mil polyethylene tube should be cut to lengths that provide a one foot overlap beyond each end of a pipe section. Slip the tubing over the pipe with the printed side up, and bunch it back to clear both ends. A shallow bell hole should be made to facilitate installation of the polyethylene. Lower pipe into position and make up the joint. Pull tubing over the joint from the preceding pipe length and tape it securely to the new pipe length. Overlap the polyethylene from the new pipe length back over the same joint and tape in place on the preceding pipe barrel. Pull the polyethylene along the length of the new pipe, folding excess tubing over the top of the pipe barrel and securing it every 3 to 4 feet. Keep the excess polyethylene for the overlap of the next joint bunched back from the joint in preparation for making the next joint. Repeat this process for each new pipe length. Repair any tears, holes or other damage with tape or small sections of polyethylene taped into place.

SPECIFICATIONS

TO BE SUPPLIED BLACK

The 8 mil minimum, group 2, linear low density, flat tube, virgin polyethylene film provided meets or exceeds the requirements of AWWA C105-99, ANSI A21.5-99, ASTM D4976 and NT4112-99. The film is marked showing trademark, year of manufacture, type of resin, specification conformance, applicable pipe sizes and a corrosion protection warning.

PROPERTIES

Tensile Strength	3600 psi, minimum—ASTM D882
Elongation	800%, minimum—ASTM D882
Dielectric Strength	800 V/mil, minimum—ASTM D149
Impact Resistance	600 g, minimum—ASTM D1709-B
Propagation Tear Resistance	2550 gf, minimum—ASTM D1922

OPTIONS

Northtown's Polywrap is available in custom colors. Standard options are purple polywrap for reclaimed water lines, and blue and green for water and sewer lines, respectively. Other colors and markings are available by special order.

— PRODUCT INFORMATION & SPECIFICATIONS —

PIPE WRAP TAPE - 10 MIL

DESCRIPTION

Christy's™ Pipe Wrap tape consists of a stabilized, plasticized PVC film with a hightack adhesive backing. It provides a superior moisture and corrosion barrier on many types of piping uses, including both exposed and direct burial applications. Christy's™ Pipe Wrap tape provides optimum protection when used in conjunction with Christy's™ Prime-It™ Pipewrap Primer (Prime-It™ provides superior adhesion while increasing overall corrosion resistance). Product Code No. 205 - 202 - 204 pipewrap (413 printed vinyl identification tape).



TA-33-PW21

TECHNICAL	
Thickness	10mils (0.25mm)
Tensile Strength	9kg (25mm)
Elongation at Break	200%
Adhesion to Steel	.56kg (25mm)
Adhesion to Backing	.56kg (25mm)
Dielectric Strength	7000 volts
Unwind Force	800g (25mm)

PART NUMBER	DESCRIPTION
TA-33-PW11	1" X 10 MIL
TA-33-PW21	2" X 10 MIL
TA-33-PW41	4" X 10 MIL

SPECIFICATIONS & INDUSTRY LISTINGS

Can be used on all types of pipe and fittings, including steel, galvanized, electrical conduit, cast and ductile iron. Christy's™ Pipe Wrap tape is listed by the International Association of Plumbing & Mechanical Officials (IAPMO) and carries the shield.

Christy's™ Pipe Wrap tape:

- Provides excellent insulating capacities and superior abrasion resistance.
- Resists/reduces corrosion problems caused by salts, salt water, soil acids and alkalis.
- Provides a dielectric barrier between the pipe and soil.
- Resists common chemicals and vapors and protects against fungus and bacteria (many applications).
- Remains pliable in a wide range of temperature and working environments while providing increased UV and weathering protection.

The physical and performance properties shown are averages obtained from tests recommended by ASTM-1000, or our own procedures. A particular roll may vary slightly from these averages. It is recommended that the buyer determine the suitability for his own purposes.



RICHARD MIROWSKI NEWARK, CA

CONFIDENTIAL PRICE SHEET

EFFECTIVE: 01-01-2013

EXPIRES: 12-31-2013

Branch Phone Number: (510)744-9045

THOUSANDS OF PRODUCTS AVAILABLE

TRAFFIC CONTROL EQUIPMENT

	DAY	WEEK	4 WEEK
ARROW PANELS	\$75.00	\$225.00	\$675.00
MESSAGE BOARDS (mid-size)	\$256.00	\$768.00	\$2,304.00
MESSAGE BOARDS (large-size)	\$284.00	\$852.00	\$2,556.00
Light Tower	\$137.00	\$548.00	\$1,370.00

BARRICADES

Type 1 Barricade	Engineering Grade	\$0.60	\$4.20	\$16.80
Type 1 Barricade	High Intensity	\$0.90	\$6.30	\$25.20
Type 3 Barricade	Engineering Grade	\$3.50	\$24.50	\$98.00
Type 3 Barricade	High Intensity	\$3.75	\$26.25	\$105.00

LIGHTS

Barricade Light	3 Way (flash/steady/off)	\$0.25	\$1.75	\$7.00
12" Beacon Light	12"	\$28.25	\$84.75	\$254.25

CONES

28" orange	No collar - Day cone	\$0.45	\$3.15	\$12.60
28" orange	With reflective collar	\$0.60	\$4.20	\$16.80
42" Reflectice Cone	With reflective collar	\$0.75	\$5.25	\$21.00
DRUMS w/BASE	Engineering Grade	\$0.95	\$6.65	\$26.60
DRUMS w/BASE	High Intensity	\$0.95	\$6.65	\$26.60
VERTICAL PANELS w/ HIGH INTENSITY STRIPES		\$0.95	\$6.65	\$26.60
Delineator		\$0.50	\$3.50	\$14.00

SIGNS

Aluminum - all sizes	Engineering Grade	\$2.35	\$16.45	\$65.80
Aluminum - all sizes	High Intensity	\$2.85	\$19.95	\$79.80
Aluminum - all sizes	Diamond Grade	\$3.75	\$26.25	\$105.00
Roll Up style - 48x48	Mesh Style	\$2.35	\$16.45	\$65.80
Roll Up style - 48x48	Vinyl - Reflective	\$2.35	\$16.45	\$65.80
No Parking Barricade Signs	29" x 18"	\$2.35	\$16.45	\$65.80

OTHER ITEMS

SIGN STANDS	Hard or Roll Up Style	\$1.20	\$8.40	\$33.60
STOP / SLOW PADDLES		\$0.60	\$4.20	\$16.80
18" FLAG w/ DOWEL		\$0.25	\$1.75	\$7.00
CRASH ATTENUATORS	200-400-700-1400-2100	Call For Quote on Specific Arrays		

TRAFFIC CONTROL SERVICES

Traffic Control Site Evaluation	\$225.00	Per Hour
Traffic Control Plans - No PE stamp	\$110.00	Per Page
Traffic Control Plans - with PE stamp	\$900.00	Per Page
On Site Set Up & Tear Down	\$80.00	Per Man-hour (non-prev-wage)



Trench Plate Rental Co
 Excavation Shoring - Traffic Control - Training
 6711 Central Ave Newark, Ca 94560
 877-246-4086 510-744-9045 Fax: 510-744-9048 www.tprco.com

Contact Name:	Jack Blazek		Date:	August 1, 2013
Company Name:	821 Howard Street, 2nd Flr San Francisco, CA 94103		Office Ph:	415.701.5272
Job Name:	SFMTA Central Subway		Office Fax:	
Job Location:	San Francisco, Ca	Job#:	Cell:	
Rental Duration:	PO#:	Soil Type:	Email:	
			Est Start Date:	

Qty	Size and Description	Min Days	Rent Ea Per Day	Rent Ea Per 7 days	Rent Ea Per 28 Days	Weight EA
6	1" 5 x 10 Steel Plates		\$ 3.35	\$ 23.45	\$ 93.80	2,042
14	Water Filled Barrier		\$ 4.20	\$ 25.20	\$ 100.80	170
Extended Rental Rate Totals (QTY X Rate)			\$ 78.90	\$ 493.50	\$ 1,974.00	14,632

Estimated Number of Trucks:		Quoted By:	Richard Mirowski
Estimated Delivery (per hour):	\$65.00	Cell Phone:	415-716-8202
Estimated Pick-up (per hour):	\$65.00	Cell:	877-246-4086
Stand-By time Charged at:	\$125.00 per hour	Fax:	510-744-9048
<i>Trucking rates subject to a fuel surcharge</i>		Email:	rmrowski@tprco.com

This bid is based on estimated total items, type of items and rental duration. Changes to any of these assumptions will change the total cost. This bid is subject to equipment availability at the time of order. This bid is subject to all terms and conditions of Trench Plate Rental Co's Rental Agreement. This quote is valid for 30 days. www.tprco.com

United Rentals Trench Safety
 4125 Breakwater Ave.
 Hayward, CA 94545

Cat-Class	Description	Minimum	Daily	Weekly	Monthly
Road Plate					
944-9914	ROAD PLATE 4' X 8'	\$ 29.00	\$ 13.00	\$ 29.00	\$ 112.00
944-9920	ROAD PLATE 5' X 8'	\$ 47.00	\$ 14.00	\$ 47.00	\$ 118.00
944-9924	ROAD PLATE 5' X 10'	\$ 47.00	\$ 15.00	\$ 47.00	\$ 153.00
944-9928	ROAD PLATE 6' X 8'	\$ 45.00	\$ 13.00	\$ 45.00	\$ 149.00
944-9930	ROAD PLATE 6' X 10'	\$ 44.00	\$ 14.00	\$ 44.00	\$ 155.00
944-9932	ROAD PLATE 6' X 12'	\$ 55.00	\$ 15.00	\$ 55.00	\$ 189.00
944-9942	ROAD PLATE 8' X 10'	\$ 60.00	\$ 17.00	\$ 60.00	\$ 215.00
944-9943	ROAD PLATE 8' X 12'	\$ 66.00	\$ 26.00	\$ 66.00	\$ 246.00
944-9840	ROAD PLATE 8' X 15'	\$ 103.00	\$ 34.00	\$ 103.00	\$ 308.00
944-9944	ROAD PLATE 8' X 16'	\$ 89.00	\$ 34.00	\$ 89.00	\$ 336.00
944-9946	ROAD PLATE 8' X 20'	\$ 150.00	\$ 53.00	\$ 150.00	\$ 525.00
944-9939	ROAD PLATE 8' X 12' X 1-1/2"	\$ 124.00	\$ 37.00	\$ 124.00	\$ 361.00
944-9937	ROAD PLATE 8' X 16' X 1-1/2"	\$ 142.00	\$ 42.00	\$ 142.00	\$ 516.00

* Non Skid coating available for all sizes, above rate + 25%.

Aluminum Hydraulic Shoring					
942-1080	KIT:2' SHORE 17-27" CYL	\$ 33.00	\$ 11.00	\$ 33.00	\$ 55.00
942-1090	KIT:2' SHORE 22-36" CYL	\$ 36.00	\$ 12.00	\$ 36.00	\$ 60.00
942-1110	KIT:2' SHORE 28-46" CYL	\$ 39.00	\$ 13.00	\$ 39.00	\$ 65.00
942-1100	KIT:2' SHORE 34-55" CYL	\$ 42.00	\$ 14.00	\$ 42.00	\$ 70.00
942-1130	KIT:2' SHORE 40-64" CYL	\$ 45.00	\$ 15.00	\$ 45.00	\$ 75.00
942-1140	KIT:2' SHORE 52-88" CYL	\$ 48.00	\$ 16.00	\$ 48.00	\$ 80.00
942-1170	KIT:3.5' SHORE 17-27" CYL	\$ 33.00	\$ 11.00	\$ 34.00	\$ 97.00
942-1160	KIT:3.5' SHORE 22-36" CYL	\$ 33.00	\$ 11.00	\$ 44.00	\$ 99.00
942-1180	KIT:3.5' SHORE 25-42" CYL	\$ 36.00	\$ 12.00	\$ 56.00	\$ 124.00
942-1220	KIT:3.5' SHORE 28-46" CYL	\$ 36.00	\$ 12.00	\$ 56.00	\$ 124.00
942-1190	KIT:3.5' SHORE 34-55" CYL	\$ 42.00	\$ 14.00	\$ 58.00	\$ 129.00
942-1200	KIT:3.5' SHORE 40-64" CYL	\$ 33.00	\$ 11.00	\$ 54.00	\$ 129.00
942-1230	KIT:3.5' SHORE 52-88" CYL	\$ 39.00	\$ 13.00	\$ 56.00	\$ 153.00
942-1217	KIT: 3.5' SHORE 52-88" CYL 24" EXT	\$ 67.00	\$ 22.00	\$ 67.00	\$ 192.00
942-1227	KIT: 3.5' SHORE 52-88" CYL 42" EXT	\$ 68.00	\$ 22.00	\$ 68.00	\$ 198.00
942-1219	KIT: 3.5' SHORE 52-88" CYL 56" EXT	\$ 67.00	\$ 22.00	\$ 67.00	\$ 200.00
942-1240	KIT:5' SHORE 17-27" CYL	\$ 39.00	\$ 13.00	\$ 46.00	\$ 98.00
942-1250	KIT:5' SHORE 22-36" CYL	\$ 36.00	\$ 12.00	\$ 45.00	\$ 112.00
942-1260	KIT:5' SHORE 25-42" CYL	\$ 39.00	\$ 13.00	\$ 35.00	\$ 115.00
942-1310	KIT:5' SHORE 28-46" CYL	\$ 39.00	\$ 13.00	\$ 35.00	\$ 115.00



BRISBANE RECYCLING CO., INC.

Plant Address:
5 Beatty Ave.
Brisbane, CA 94005

Plant Phone:
(415) 467-5050

Office Phone:
(415) 468-8822

Fax Phone:
(415) 468-8820

Mailing Address:
P.O. Box 687
Brisbane, CA 94005

Jovian Jose

PRICE LIST - Central Subway

j.jose@brisbanerecycling.com

Rates for Purchasing Materials:

ITEM NO.	MATERIALS	PRICE/TON
101	Recycled Fill	\$ 4.00
102	Recycled Class 2 Aggregate Sub Base	\$ 7.00
103	Recycled Class 2 Aggregate Base	\$ 8.00
104	Recycled 3/4" Drain Rock	\$ 18.00
105	Recycled Class 1 Permeable - "Pea Gravel"	\$ 18.00
106	Recycled Class 2 Permeable	\$ 20.00
107	Recycled 3" Minus	\$ 14.00
108	Recycled Sand	\$ 8.00

NOTE: *Other materials are available based on project specifications
All prices are F.O.B. Plant
Sales tax not included on above prices

Rates for Dumping:

ITEM NO.	DESCRIPTION	TRUCK TYPE	PRICE PER LOAD
109	Asphalt/Concrete (Not to exceed 2' in size)	Semi End Dump	\$ 300.00 per load
110	Asphalt/Concrete (Not to exceed 2' in size)	Ten Wheeler	\$ 170.00 per load

*/20TON =
= \$15/TON*

1305 TAIL TRUCK \$30/LOAD

*/12TON =
= \$14.17/TON*

NOTE: *Any loads containing Rebar, Debris, Wire Mesh or Bricks, will be priced accordingly*
Loads must be free of waste, debris, brush, weeds, plasterboard, trash or rubbish
POSITIVELY NO HAZARDOUS WASTE ACCEPTED

Plant Facility Hours: Monday to Friday 7:00 a.m. to 4:00 p.m. (Picking up aggregate material)
Monday to Friday 7:00 a.m. to 5:00 p.m. (Dumping material)
Plant Facility will be opened on weekends upon request only.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE!!!!

ph. 415-956-4157
info@thebaylands.com

Baylands Soil Processing, LLC Gate Rates

IMPORTS: All imports have to be approved before dumping

Clean Fill: Accepted material with tracking # based upon the criteria in our Soil Management Plan

Truck Size	Cost Per Load
Pickup Truck	\$50.00
Bobtail	\$100.00
10 Wheel	\$120.00
Semi End Dump	\$230.00

Self Certified Fill - Sunquest Accounts

Truck Size	Cost Per Load
Pickup Truck	\$130.00
Bobtail	\$152.50
10 Wheel	\$282.50
Semi End Dump	\$390.00

Fill w/Concrete, Fill w/Asphalt, Fill w/Brick

Truck Size	Cost Per Load
Pickup Truck	\$110.00
Bobtail	\$162.50
10 Wheel	\$292.50
Semi End Dump	\$400.00

Fill w/Rock 4" minus

Truck Size	Cost Per Load
Pickup Truck	\$80.00
Bobtail	\$126.25
10 Wheel	\$216.25
Semi End Dump	\$310.00

Fill Wet, Fill w/Organics, Fill-Bay Mud

Truck Size	Cost Per Load
Pickup Truck	\$110.00
Bobtail	\$152.50
10 Wheel	\$282.50
Semi End Dump	\$390.00

Fill w/Debris

Truck Size	Cost Per Load
Pickup Truck	\$130.00
Bobtail	\$352.50
10 Wheel	\$595.00
Semi End Dump	\$735.00

EXPORTS

Structural Backfill

Truck Size	Cost Per Load
Pickup Truck	\$25.00
Bobtail	\$35.00
10 Wheel	\$55.00
Semi End Dump	\$95.00

Screened Sand

Truck Size	Cost Per Load
Pickup Truck	\$28.25
Bobtail	\$51.00
10 Wheel	\$82.50
Semi End Dump	\$146.00

Topsoil

Truck Size	Cost Per Load
Pickup Truck	\$43.50
Bobtail	\$75.00
10 Wheel	\$122.50
Semi End Dump	\$215.00

CONCRETE QUOTE



PRICES VALID FOR ONLY 30 DAYS
CONCRETE SUBJECT TO AVAILABILITY

READY MIX CONCRETE
DISPATCH TEL NO. 888-476-2764

CUSTOMER: Synergy Project Management
 ATTN: Shannon Cozino
 PHONE: 415-467-3000
 FAX: _____
 EMAIL: Shannon Cozino
[mailto:shannon@synergygm.com]
 PROJECT: #1252 Third Street Light Rail Project
 ADDRESS: _____
 CITY: San Francisco

DATE: 2-12-13
 CUSTOMER: _____
 YARDS: 500
 START: _____
 PAVING?: _____
 MAP: _____
 TYPE: _____
 PLANT: 4433

PSI	DESCRIPTION	SLUM P	W. C.R		COMMENTS	CY
2500 @ 28	SF City: Sidewalk	3-5"		\$122.00	5.5 sk, includes 1/2 lb lampblack in price	1442948
3000 @ 28	SF City: Curbs	3-5"		\$122.00	6 sk	1413048
3000 @ 28	SF City: Ramps	3-5"		\$182.00	6 sk, includes 8 lbs of Carbon black in price	1442949
3000 @ 28	SF City: Street Base	3-5"		\$122.00	6 sk	
3000 @ 28	SF City: Street Base - Quick Set	3-5"		\$128.00	6 sk, w/ 2% Accelerator	1442947
50-180 @ 28	CDF: Tailgate	10-11"	n/a	\$107.00	- per verbal spec	
50-150 @ 28	CDF: Pumpable	9-11"	n/a	\$110.00	- per verbal spec	

VARIABLE FUEL SURCHARGE	\$26.00	PER LOAD - see chart below
ENVIRONMENTAL FEE	\$40.00	PER LOAD

PRICE ESCALATORS add \$5.00 on 7/1/13, good until 1/1/14

PRICES EXPIRE ON 7/1/13

PROJECT REMARKS

- PRICES STATED HEREIN ARE BASED ON CEMEX'S STANDARD TERMS AND CONDITIONS, (COPIES OF WHICH ARE AVAILABLE ON REQUEST), WHICH SHALL CONTROL AND TAKE PRECEDENCE OVER ANY TERMS AND CONDITIONS TO THE CONTRARY IN ANY PURCHASE ORDER OR OTHER DOCUMENT.
- PRICES ARE NET 30 AND DO NOT INCLUDE SALES TAXES**
- PRICES EXCLUDE ADMIXTURES OR ADD-ONS FOR TEMPERATURE OR SET CONTROL UNLESS EXPRESSLY STATED ABOVE.
- CEMEX RESERVES THE RIGHT TO INCREASE PRICES ON ANY QUOTE(S) OR ACCEPTED ORDERS WITHOUT NOTICE TO REFLECT ANY RAW MATERIAL SHORTAGES, COST INCREASES OR SURCHARGES AND DEFER OR CANCEL ANY QUOTATIONS OR ACCEPTED ORDERS IN THE EVENT CEMEX BECOMES DELAYED OR PREVENTED FROM PERFORMING DUE TO SHORTAGES OR ALLOCATIONS OF RAW MATERIALS. IN THE EVENT OF A DELAY OR CANCELLATION RESULTING FROM SHORTAGES OR ALLOCATIONS OF RAW MATERIALS, CEMEX SHALL NOT BE LIABLE TO BUYER FOR ANY DAMAGES INCURRED BY BUYER AS A RESULT OF ANY SUCH DELAY OR CANCELLATION.
- THIS QUOTE SHALL TERMINATE IF NOT SIGNED AND RETURNED WITHIN THIRTY DAYS OF THE DATE SET FORTH ABOVE.
- CEMEX DOES NOT COMMIT TO A SINGLE SOURCE OF AGGREGATE, CEMENT OR ADMIXTURES AND RESERVES THE RIGHT TO CHANGE AT ANYTIME RAW MATERIALS INCLUDED IN THE PRODUCTS LISTED IN THIS QUOTE. THE AGGREGATE AND CEMENT BASED MATERIALS ARE NOT GUARANTEED TO BE IN COMPLIANCE WITH THE BUY AMERICAN ACT OR ANY SIMILAR REQUIREMENTS.
- THE MATERIALS DESCRIBED IN THIS QUOTE MEET SOLELY THOSE SPECIFICATIONS SET FORTH ABOVE. CEMEX IS NOT RESPONSIBLE FOR SUPPLYING ANY MATERIALS NOT SPECIFICALLY STATED IN THIS QUOTE.
- ALL MIXES QUOTED ARE DESIGNED TO BE TAILGATED OR PUMPED THROUGH A 4" LINE, UNLESS EXPRESSLY STATED ABOVE.
- A SERVICE CHARGE NOT TO EXCEED THE MAXIMUM ALLOWED BY LAWS APPLIES ON UNPAID INVOICE AMOUNTS BEGINNING THE 1ST DAY OF THE MONTH FOLLOWING DUE DATE AND DAILY THEREAFTER UNTIL PAID IN FULL.
- PRICES ARE BASED ON FULL LOADS UNDER NORMAL OPERATING CIRCUMSTANCES. PLEASE REVIEW CAREFULLY THE NEXT PAGE FOR A LIST OF SURCHARGES THAT APPLY TO ALL PROJECTS

Interested in purchasing aggregates? Please contact Chris Mathias at 925-200-6207 or Mike Wood at 825-699-4146

Jeff King - Sr. Territory Manager

PHONE: 925-998-5022

FAX: 661-215-8416

For Questions please call or Email: jeff.king@cemex.com Mail Purchase Orders To: 5666 La Ribera, Livermore, CA,

Owens

CREATING VALUE... NOT CLAIMING IT

call...1-630-596-9999

Home Steel Rebar Assemblies Forming Supplies Product List Charts & Specs

Expansion Joint

**STEEL
FORMING
SUPPLIES**

**RESIDENTIAL
COMMERCIAL
INFRASTRUCTURE**

PRODUCT LIST

Owens

www.owensupply.com

630-596-9999

Dan Owens cell (630)306-8555
Jim Owens cell (630)209-4888

10025B Clow Creek Drive
Plainfield, (Chicago) IL 60595-7531

Phone: (630)596-9999
Fax: (630)596-9995



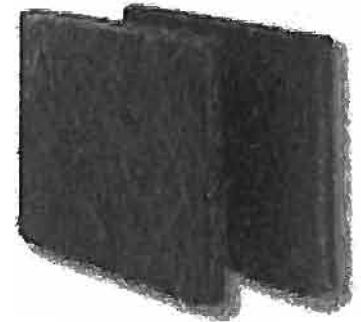
Select Language

Powered by Google Translate

fiber - black

CFiber Expansion Joint

- Fiber Expansion Joint is composed of cellular fibers saturated with asphalt
- Non-extruding minimum recovery of 70%.
- Certification: ASTM D 1751.
- Sizes: Thickness: 1/4", 3/8", 1/2", 3/4", 1" Width: 48" (Cut from 2" - 24") Length: 5' (Special Order: 6', 10' and 12')



DATA / MSDS

Size	Price l.f.
1/2"x3"	\$.25
1/2"x3.5"	\$.26
1/2"x4"	\$.28
1/2"x5"	\$.31
1/2"x6"	\$.36
1/2"x48"	\$2.80

pro-flex

Vinyl Expansion Joint

- Compatible with sealants, including polymerized sealants
- Resilient in any temperature
- Weather-resistant
- Blends with concrete for a beautiful finish
- VOC compliant
- Over 70% recovery after expansion
- Sizes: Thickness: 1/4", 3/8", 1/2", 3/4", 1" Width: 48" (Cut from 2" - 24") Length: 5' (Special Order: 6', 10' and 12')
- Certification: ASTM D-1751



DATA / MSDS



Size	Price l.f.
1/2"x4"	\$1.25
1/2"x5"	\$1.59

415-467-0720 Phone
415-467-0862 Fax

EBI AGGREGATES
P. O. Box 2216
BRISBANE, CA 94005-2216



F.O.B. PLANT SITE Brisbane **QUOTE DATE:** 9-9-13
PROJECT / LOCATION Central Park Way
COMPANY SFMTD

MATERIAL	APPROX QTY	PRICE / TON
TYPE 'A' ASPHALT 1/2"	4	\$100.00 + TAX
SS1 TACK OIL	PER GALLON	\$15.00 + TAX

ALL MATERIALS SUBJECT TO PRIOR SALE

THIS ASPHALT QUOTE IS BASED ON TODAY'S LIQUID ASPHALT COST OF \$570.00 PER TON. ACTUAL ASPHALT PRICING TO BE PAID BY BUYER MAY CHANGE DAILY TO REFLECT THE CURRENT OIL PRICE AT THE TIME BUYER PURCHASES AND TAKES DELIVERY OF MATERIAL. OUR LIQUID ASPHALT SUPPLIER WILL MAKE PRICE ADJUSTMENTS ON A DAILY BASIS. BUYER & NOT SELLER WILL BE RESPONSIBLE FOR ANY AND ALL PRICES ESCALATIONS AND SHALL BE THE SOLE BEARER OF RISK AND REWARD ASSOCIATED WITH THE VOLATILITY AND AVAILABILITY OF THE LIQUID ASPHALT MARKET. IMPORT GRINDINGS OR BROKEN ASPHALT MUST BE CLEAN (NO FABRIC, DIRT, WOOD, CUTBACK, BASE ROCK ETC.) OR TRUCKS WILL BE REJECTED

ALL TONNAGES ARE STANDARD ENGLISH EQUAL TO 2000 POUNDS

A/C PLANT OVERTIME RATES

SATURDAY SHIFT	\$275.00 PER HR/ 4 HR MIN.
SATURDAY AFTER 3:30 PM	\$400.00 PER HR
SUNDAY SHIFT	\$400.00 PER HR/ 8 HR MIN.
OVERTIME / NIGHTS	\$275.00 PER HR/ 4 HR MIN.

WARRANTY: EBI AGGREGATES MAKES NO WARRANTY, EXPRESS OR IMPLIED AND ALL WARRANTIES OF SUITABILITY FOR A PARTICULAR PURPOSE AND ALL WARRANTIES OF EVERY KIND ARE HEREBY DISCLAIMED BY EBI AGGREGATES AND EXCLUDED. SINCE EBI AGGREGATES HAS NO CONTROL OVER THE USE OF PRODUCT AFTER SALE, EBI AGGREGATES SHALL NOT BE RESPONSIBLE FOR THE FINISHED WORK. BUYERS SOLE REMEDY FOR BREACH OF THE EXPRESS WARRANTY OF CONFORMITY TO THE SPECIFICATIONS SHALL BE LIMITED TO THE REPLACEMENT OF THE NON-CONFORMING PRODUCT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE PURCHASER TO MAKE, OR CAUSE TO BE MADE, AND PAY FOR ALL NECESSARY INSPECTIONS AND TESTS AS MAY BE REQUIRED TO DETERMINE THE SUITABILITY OF MATERIALS AS RELATED TO THE PURCHASER'S NEEDS.

Force Majeure: SELLER SHALL NOT BE LIABLE FOR FAILURE TO PERFORM BY REASON OF ANY CONTINGENCY OR OCCURRENCE WHICH SHALL BE DEFINED TO INCLUDE, BUT NOT LIMITED TO, ACTUAL OR THREATENED STRIKES, LABOR DISPUTES, BOYCOTTS, WORK STOPPAGES OR SLOWDOWNS, FIRE, FLOOD, INCLEMENT WEATHER, EMBARGOS, WAR, GOVERNMENTAL AUTHORITY, OR REGULATIONS INCLUDING ALLOCATIONS, PREFERENCES, AND PRIORITIES ESTABLISHED BY OR FOR THE GOVERNMENT, OR SHORTAGE OR FAILURE OF RAW MATERIAL OR TRANSPORTATION WHICH MAKES PERFORMANCE BY SELLER MORE COSTLY.

PAYMENT TERMS: Payment in full shall be due no later than thirty (30) days from the date of invoice without retention or withholdings of any kind made by Buyers. Buyer's failure to pay all amounts owing when due shall be deemed a breach of this agreement and EBI Aggregates may, at its option, 1) terminate this agreement, and/or 2) require payments to be made in advance of future purchases. Amounts past due shall bear an interest charged of one and one half percent (1.5%) per month computed from the due date. Buyer agrees to pay all costs and expenses of collecting past due accounts, including actual attorneys' fees, regardless of whether a suit or action is filed.

Quoted By: ALFREDO DELEON

Accepted By: _____
Name: _____
Title: _____

PROPOSITION 65 NOTICE: PRODUCTS QUOTED ABOVE CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

Blazek, Jack

From: Alfredo Deleon <alfredo@ebiagg.com>
Sent: Wednesday, September 11, 2013 1:55 PM
To: Blazek, Jack
Attachments: SFMTD 9-9-13 .docx

Jack,

Attached is your quote.

Thanks

Alfredo Deleon
Sales Manager
EBI Aggregates
Cell 925-605-6022
alfredo@ebiagg.com



W. R. MEADOWS.

SEALTIGHT

DATA SHEET NO. 4814-055

A-350 TRS Heavy Duty Pavement Sealer

DESCRIPTION

A-350 TRS is a high solids, asphalt emulsion sealer blended with TRMSS (Tire Rubber Modified Surface Sealer) to increase durability and petroleum resistance.

USES

A-350 TRS is designed for use on asphaltic pavements that are subject to fuel spillage and high traffic volumes. The unique process combines TRMSS with asphalt to make the most durable and longest lasting sealer on the market.

PACKAGING

208 L (55 U.S. Gallon) Drums = \$569/DRUM
= \$10.35/GAL

COVERAGE

Light Traffic: 2.2 sq. m/L (90 sq. ft./gal.) – 3 sq. m/L (120 sq. ft./gal.) per coat, depending on porosity of the surface.

Moderate Traffic: 1.7 sq. m/L (70 sq. ft./gal.) – 2.0 sq. m/L (80 sq. ft./gal.) per coat, depending on porosity of the surface.

Heavy Traffic: 1.0 sq. m/L (40 sq. ft./gal.) – 2.0 m²/L (80 sq. ft./gal.) per coat, depending on porosity of the surface.

TECHNICAL DATA

Color When Dry	Black
Odor	Mild
Flammability	Non-Flammable
Pounds per Gallon	10.1±
Residue by Evaporation (ASTM D2939)	50% - 55%
Uniformity, No Separation or Settlement	Pass
Resistance to Heat 80°C (176° F) (ASTM D5727)	Pass
Flexibility 23° C (73.4°F) (ASTM 5727)	Pass
Wear Resistance, Cycle to >75% Removal	
Federal Spec (RP 355E)	

APPLICATION

Surface Preparation ... Asphalt preparation includes repairing or removing any surface defects and patching with hot mix. Potholes should be filled with 1170 ROAD REPAIR and allowed to cure. Clean and seal cracks 1/4" and larger. Treat oil, grease, and gasoline stains with A-500 OIL SPOT PRIMER. Final preparation includes power sweeping and pressure washing area to be sealed to remove loose materials such as leaves, stones, dirt, and dust. Brush out all water puddles. New asphalt must be allowed to cure a minimum 30 days before sealing.

Application Method ... Two or more coats are required. First coat of sealer must be allowed to cure 12 hours prior to application of second coat. Multiple coats should be applied in cross direction.

For faster curing times, increased flexibility, toughness, and adhesion, add 3.78 L (1 gal.) A-600 MAXI TUFF or A-625 FAST DRY copolymer emulsions to one 208 L (55 U.S. gal) drum. Stir thoroughly.

A-350 TRS can be applied by using a hand squeegee, mechanical applicator, or spray. Minimum application temperature is 15° C (60° F). The first coat of sealer must be allowed to dry for 12 hours prior to the application of the second coat. A-350 TRS must be allowed to cure for 24 hours before opening to traffic.

New (less than 60 days old) or heavily oxidized asphalt surfaces must be prime coated using A-350 TRS diluted 100 percent (1:1) with water prior to the application of the first coat of sealer. Asphalt surface must be dry prior to application. Traffic marking paint shall be waterborne type.

Cleanup ... Clean tools and equipment with water. Use diesel fuel if material has hardened.

PRECAUTIONS

Stir and mix thoroughly before using. Do not apply when temperatures are below 15° C (60° F). Do not apply if rain is expected within 24 hours of application. Close container when not in use. Do not freeze. Keep out of reach of children. Do not store containerized sealer in direct sunlight or above 38° C (100° F). Do not expose containerized sealer to open flame.

Refer to Material Safety Data Sheet for complete Health and Safety information.

W. R. MEADOWS OF WESTERN CANADA
38 Rayborn Crescent, St. Albert, AB T8N 4B1
Phone: (780) 458-8773 • Fax: (780) 458-1173

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON /
St. Albert, AB
www.wrmeadows.com

MASTERFORMAT NUMBER AND TITLE
32 12 36.13 – Asphaltic Seal and Fog Coats

LEED INFORMATION

May help contribute to LEED credits:

- IEQ Credit 4.2: Low-Emitting Materials – Paints and Coatings
- MR Credit 2: Construction Waste Management
- MR Credit 4: Recycled Content
- MR Credit 5: Regional Materials

For most recent data sheet, further LEED information, and MSDS, visit www.wrmeadows.com.

2011-04-05



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WARRANTY: W. R. Meadows of Western Canada warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order. THE FOREGOING WARRANTY SHALL BE EXCLUSIVE AND IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES OTHERWISE ARISING BY OPERATION OF LAW, COURSE OF DEALING, CUSTOM OF TRADE OR OTHERWISE. As the exclusive remedy for breach of this Warranty, we will replace defective materials, provided, however, that the buyer examine the materials when received and promptly notify us in writing of any defect before the materials are used or incorporated into a structure. Three (3) months after W. R. Meadows of Western Canada has shipped the materials, all our Warranty and other duties with respect to the quality of the materials delivered shall conclusively be presumed to have been satisfied, all liability therefore terminates and no action for breach of any such duties may thereafter be commenced. W. R. Meadows of Western Canada shall in no event be liable for consequential damages. Unless otherwise agreed to in writing, no warranty is made with respect to materials not manufactured by W. R. Meadows of Western Canada. We cannot warrant or in any way guarantee any particular method of use or application or the performance of materials under any particular condition. Neither this Warranty nor our liability may be extended or amended by our salesman, distributors or representatives, or by our distributor's representatives, or by any sales information or drawings.

*NOTE - FREIGHT FOR 55 US GALLON DRUM (134)
FOR HEAVY DUTY PAVEMENT SEALER*

Your Quote from FreightCenter

From: mbroome@freightcenter.com
Sent: Thursday, September 12, 2013 1:51 PM
To: Blazek, Jack
Subject: Your Quote from FreightCenter.com

This email contains information on your recent quote from FreightCenter.

Quote Number 11062571
\$367.78

Log in to your account 24 hours a day and finish booking this quote online. It will be located under "MY SAVED QUOTES."

Or call 800-716-7608 and a knowledgeable Freight Specialist can book it for you. They will be glad to explain your service options, answer any questions, and help identify the most economical method of transporting your freight.

The price listed above is based on the quote you requested. This freight quote is based on the weight and freight class you selected. Your shipment's size, actual class and the types of services you choose may change your final cost. To confirm a final price, we suggest calling our customer support center. Thanks again for choosing FreightCenter.

Sincerely,
FreightCenter.com
Phone: 1-800-716-7608
Fax: 727-450-7808
Mon-Fri: 7:00am-11:00pm (EST)
Sat: 9:00am-6:00pm (EST)
Sun: CLOSED

Contact: Mark Broome
Phone Number: 800-716-7608
Ext: 1104
Email: mbroome@freightcenter.com

How did we do? FreightCenter strives to offer an easy-to-use website, exceptional customer service and competitive freight rates. Did we achieve our goal? Tell us!

SFMTA Contract No. 1252

Contractor:

Barnard Impregilo Healy JV (BIH)

EVALUATION OF MERIT**COR 082:**

Recommendation: Accept partial justification of Merit for COR 082, for additional work required to reroute a 20" waterline, per the SFMTA's response to Request for Information (RFI) No. 155. Recommend compensating the Contractor for 3 additional days of work and the additional material cost for the additional AWSS fittings to complete the waterline at the new alignment. A credit is also due for 65 feet of 20" waterline not required to be installed per the original alignment required by Contract. There is no time extension requested or recommended for this work.

Facts: The Contractor could not install the 20" waterline per the Contract Water Distribution (WD) drawings due to a conflict with existing joint trench utilities located on Folsom Street, east of the intersection of 4th and Folsom Streets. The existing joint trench did not allow an opening for the waterline to cross through.

The Contractor submitted RFI No. 155 suggesting three (3) alternative alignments to reroute the waterline due to this conflict. The SFMTA allowed the Contractor to proceed with the installation alignment labeled 'option #1' in RFI No. 155. The modified alignment ran adjacent to an existing AT&T vault and required hand excavation of a hole underneath an existing gas main for the waterline to cross through. The revised alignment also reduced the overall length of waterline required to be installed by approximately 65 feet.

During installation of the waterline, per the revised alignment, the close proximity of existing utilities (see attached field sketch 1252-085) required that the Contractor utilize hand excavation methods and additional shoring. The Contractor's is claiming an additional two (2) days of work related to these additional excavation activities.

The Contractor claimed that the revised alignment required the use of a welded joint at the point of connection as opposed to the mechanical joint shown in the Contract drawings per the original alignment. The Contractor claimed the connection method lengthened the time required for SFWD's installation; therefore, additional SFWD support work was required to be performed by the Contractor. The Contractor's is claiming an additional three (3) days of work related to this additional SFWD support work.

The revised waterline alignment crossed an AWSS line at two (2) locations as opposed to the one (1) crossing shown in the original alignment. Additionally, the new alignment was in close proximity to a new AWSS trench excavated by the Contractor. As a result the Contractor was required to utilize hand excavation methods and additional shoring in order to protect the existing facilities. Additionally, the second crossing required the installation of an additional bell and stop collar. The Contractor's is claiming two (2) additional days of work related to these additional AWSS installation activities.

Justification: The waterline could not be installed in its original location due to conflicts with the existing joint trench. Installation of the line per the WD drawings would have

SFMTA Contract No. 1252**Contractor:**

Barnard Impregilo Healy JV (BIH)

likely resulted in impacts to the project schedule and change order costs exceeding those associated with the additional work described herein. Revision to the waterline alignment was necessary in order to complete the work.

The installation of the 20" waterline resulted in additional work not originally contemplated. SFMTA Project Staff reviewed the additional durations contained in COR 082 to determine if they were fair and reasonable. The following is a summary of their findings:

- Additional Excavation: From the SFMTA Daily Inspection Reports (DIRs) (see attachment 082-A), the Contractor began excavating the waterline trench on March 12th, 2013 and completed excavation on March 22nd. Some excavation was also performed on the 25th and 26th. Additionally, on the 25th and 26th, the Contractor's subcontractor (Asbestos Management Group) was on site performing asbestos abatement on the point of connection for the existing waterline. The DIR confirms that the Contractor took five (5) days to complete the excavation of the waterline trench. The RE also confirms if the Contractor had performed the excavation in the original alignment, the Contractor would only have encountered 1 of the 2 crossings indicated in the contract documents. The Contractor requested an additional two (2) days of excavation time to hand excavate under the crossing to install the pipe. Based on a proportion of (5) days to perform the excavation, the RE believes the additional two (2) days requested by the Contractor to perform the excavation is justified.
- Additional SFWD Support Work: The Specifications allow five (5) days for the SFWD to perform their connection work. SFMTA records indicate that the SFWD performed the connection work on April 29th and completed the tie-in on April 30th. The Contractor was able to complete backfilling the tie-ins in the following two (2) days. As such, the RE does not believe the additional duration for three (3) working days claimed by the Contractor is justified.
- Additional AWSS Installation Work: The Contractor was required to install an AWSS line as part of the Contract work, however, due to the new alignment of the 20" waterline a utility there was a conflict between the two lines (see attached field sketch 1252-085). Detail 3 of drawing WD-004 indicates how the Contractor is to install a utility crossing; however, the Contract Documents are not explicit on how payment is to be made for a utility crossing. As such, the RE recommends compensating the Contractor for installation of additional materials required for the utility crossing of the AWSS.

Also, according to the SFMTA DIRs, the installation of the AWSS pipe took 4 days to complete (the DIRs indicate the Contractor started work on March 27th and completed work on April 3rd, but do not indicate if the Contractor worked on March 28th or 29th). At the north headwall, the Contractor took 3 days to complete installation of the waterline. Using the north headwall as a measured mile, it would appear that the Contractor was impacted by one (1) day due to the additional utility crossing. As such, the RE recommends compensating the Contractor for the additional material costs and one (1) additional day of work.

SFMTA Contract No. 1252

Contractor:

Barnard Impregilo Healy JV (BIH)

Change Type: Unforeseen Conditions

By:


Mun Wei Leong
Acting Resident Engineer

for
K.L. CLIFFORD

Date


Configuration Management Board
Approval

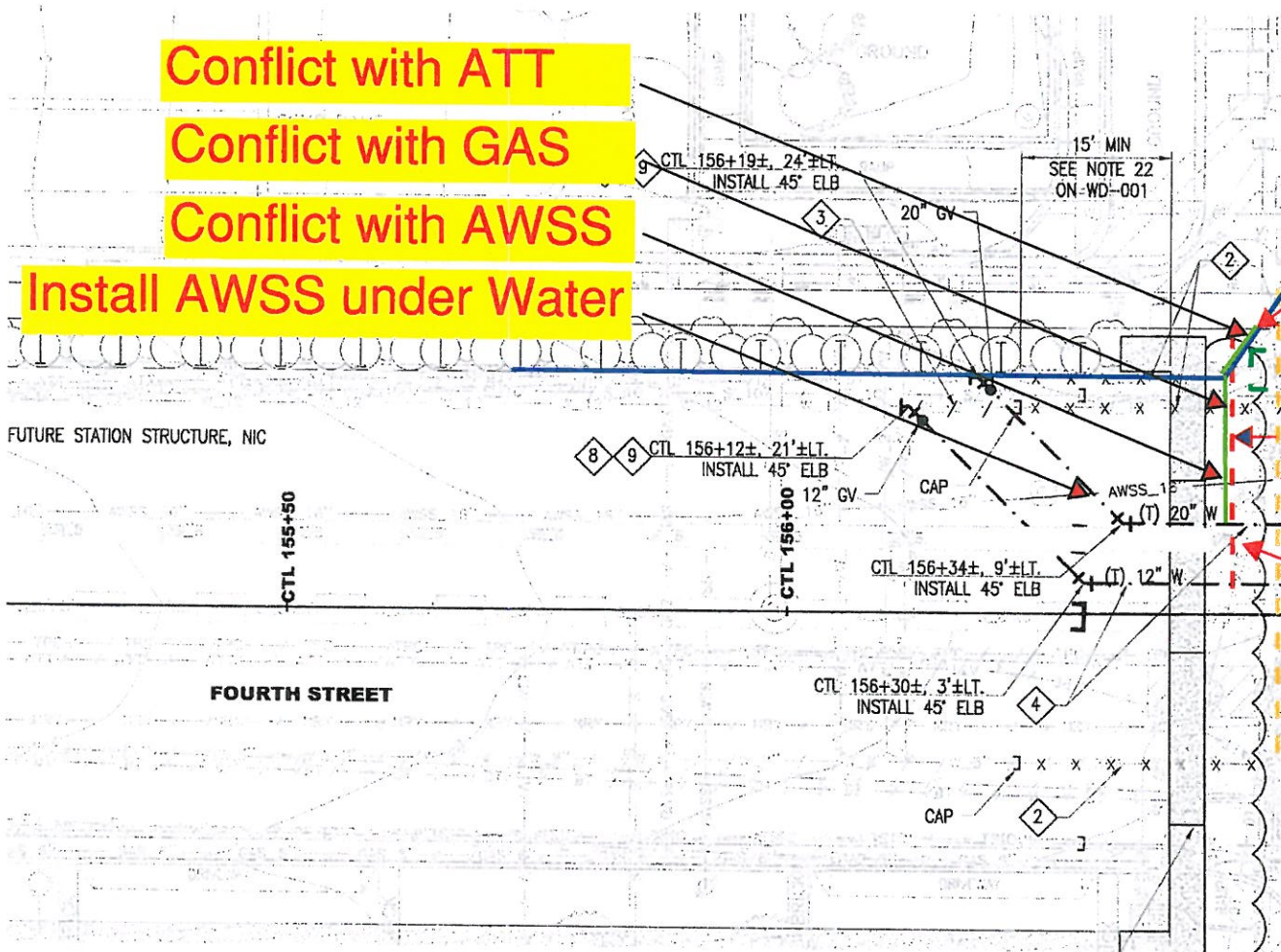
4-30-14

Date

10

COR 082 - Utility Conflicts @ MOS S Headwall

Conflict with ATT
 Conflict with GAS
 Conflict with AWSS
 Install AWSS under Water



NOTES:

1. R/S (E) LPFH. CONTRACTOR SHALL COORDINATE AND EXCAVATE SIDEWALK AT THE HYDRANT TO THE EXTENT NECESSARY FOR SFFD TO REMOVE THE FIRE HYDRANT AND BREAKAWAY PIPING. SEE WD-001 GENERAL NOTE 16.
2. GENERAL NOTE 22.
3. ATT Vault Not Shown
4. (N) OR (T) WATER MAIN. SEE DRAWING NO. WD-001
5. GAS Shown in Wrong Location
6. (N) 6" LPFH ASSEMBLY, SEE DRAWING NO. WD-001
7. SFWD.
8. DISCOVERED AND REMOVED (E) WATER LINE BY SFWD.

Water Tie In point

ATT Vault Not Shown

GAS Shown in Wrong Location

Actual Gas Location

Field Sketch FS
 1252-085
 COR 082

16.0	DP2 Design Services During Construction	DP2 Planned Hours	DP2 Planned Costs	1252 Planned Hours	1252 Planned Costs	1252 Actual Hours	1252 Actual Costs	DP2 Additional Hours	DP2 Additional Costs	DP2 Remaining Hours	DP2 Remaining Costs
16.30	Shop Drawings Review and Consultation during construction	16,172	\$2,280,333	320	\$48,000	474	\$69,003	40	\$7,983	15,664	\$2,205,237
16.30.C4	Shop Drawings Reviews and RFI – (UMS)	9,202	\$1,388,094	160	\$24,000	223	\$36,840	40	\$7,983	8,939	\$1,343,271
16.30.DSC-JG18	Review of Differing Site Condition at UMS S. Headwall Jet Grout Column 18	-	\$0	-	\$0	6	\$1,890				
16.30.C6	Shop Drawings Reviews and RFI – (MOS)	6,970	\$892,239	160	\$24,000	245	\$30,273	0	\$0	6,725	\$861,966
16.40	Field Visits / Meetings	1,680	\$253,535	80	\$12,000	28	\$4,296	0	\$0	1,652	\$249,239
16.40.C4	Field Visits / Meetings – (UMS)	840	\$144,362	40	\$6,000	18	\$2,717	0	\$0	822	\$141,645
16.40.C6	Field Visits / Meetings – (MOS)	840	\$109,173	40	\$6,000	10	\$1,579	0	\$0	830	\$107,594
16.0	Totals	17,852	\$2,533,868	400	\$60,000	502	\$73,299	40	\$7,983	17,316	\$2,454,476

Work Completed to Date:

Submittals/ Shop Drawing Reviews - 24
Resubmittals/ Shop Drawing Reviews - 22
RFI's - 33 (18 related to rebar fabrication and 8 to mix designs)

Remaining Work to be Completed:

CSL test results for UMS south headwall battered piles
CSL test results for UMS north headwall battered piles
Strength test results for UMS north headwall piles
Review of existings CNCRs (4 total - NCR: 32,33,36,37)
Review of unanticipated events related to work not yet completed

Reasons for Overrun:

Submittals required multiple cycles for approval
Re-sequencing of pile installation required additional work plan reviews
Received more RFI's than anticipated
MOS End Stop issue used hours that were not originally anticipated
Development of two PCC's that was not covered in the original budget
Issues related to Jet Grout Column No. 18
Piecemeal submittals related to jet grouting and CSL test results
CNCRs

	16.30.C4 (hrs)	16.40.C4 (hrs)	Total (hrs)	Rate (\$/hr)	Value (\$)
David Abrahams	20	0	20	143.06	\$2,861
Aileen Read	4	0	4	315.05	\$1,260
Tom Lee	16	0	16	241.38	\$3,862
TOTAL					\$7,983

GENERAL

Proposed Change Sponsor: J. Wang Received by CMB: 04/30/2014
(Date)

Affected Disciplines: Architectural

Impacts of Change CTS - Chinatown Plaza Construction Estimating Support




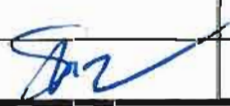
Proposed Contract Change (PCC 005) Amount Not To Exceed
\$75,000

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input checked="" type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>
(CP01)	(CP02)	(CP03)	(CP04)	(CP05)	(CP06)	(CP07)

CONFIGURATION MANAGEMENT BOARD APPROVALS

Signatures

	Agree with the Change	Disagree with the Change	Date
Program Director:			4/30/14
Deputy Program Manager:			4/30/2014
PM Project Services:			30 APR 14
PM Project Construction:			
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			30 APR 14

Comments

*Provide revised scope document for CMB approval
per to processing CMB*

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Trend Log

Contract Cost Estimate and Allocated Contingencies										
Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
Contract 1250 - Utilities Relocation #1 (Portal & MOS)										
1250-0001	04/15/10	081-0001	Delete Option MF-OPT1 "Fire Protection Sprinkler System"	1	N/A			(50,000)	Cleared City Attorney's Office; to Shahnam for execution. [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1250-0002	05/07/10	081-0002	Changes to Sewer on 4th between Howard and Folsom	2	CMB-0001	Agree	07/12/10	+107,174	Differing conditions as AWSS is directly over existing sewer; unable to install sewer manhole per plan. [In "Current Forecast" - Sep2010 Cost Report.] No reimbursement from SFPUC Sewer. COR #2-\$34,135; COR #5-\$73,039 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1250-0003	05/28/10	081-0003	Quantity Adjustment for JT-6 and JT-7	4	CMB-0002	Agree	08/04/10	+192,420	In April 2010 pay app, JT-6 bid qty exceeded by 344% (230 vs. 1021) and JT-7 bid qty exceeded by 112% (500 vs. 1060) [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1250-0004	07/02/10	081-0004	Demolition of existing brick and concrete footing on 4th between Howard and Folsom	2	CMB-0003	Agree	07/12/10	+170,000	Unforeseen bricks and concrete footing discovered on east side of 4th Street between Folsom and Howard. [In "Current Forecast" - Sep2010 Cost Report.] COR #3-RFI #76 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1250-0005	04/20/10	081-0005	Modify AWSS at 4th/Bryant and 4th/Harrison	3	CMB-0004	Agree	08/04/10	+586,000	At 4th/Bryant, AWSS conflict with new 48" sewer and AT&T duct bank. At 4th/Harrison, AWSS conflict with 18" sewer. [In "Current Forecast" - Sep2010 Cost Report.] No reimbursement from SFPUC AWSS. PCC #2: RFI #s 34, 49 & 51 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1250-0006	04/29/10	081-0006	Install four additional piles and reinforce existing foundation at 401 4th Street	2	CMB-0005	Agree	08/25/10	+130,000	Existing foundation was discovered to be part brick and part concrete, which is different from plan. Also, foundation was unstable and required additional reinforcement. Refer to RFIs #85R1, 88-1, 100, 101, 102 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved
1250-0007	10/06/10	081-0007	Additional work to install 48" sewer due to various utility conflicts at 4th/Bryant	2	N/A			+32,964	48" RCP sewer in conflict with existing AT&T duct bank that needs to remain in service until new joint trench is installed to enable switchover. This conflict forced contractor into a more expensive means to install sewer. Also, 48" RCP sewer in conflict with existing 30" force main and 24" steel pipes. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1250-0008	10/06/10	081-0008	Relocate TPC vault on 4th Street between Howard and Folsom	6	N/A			+19,500	Contractor uncovered existing TPC conduits on top of AT&T duct bank on 4th near Howard, a differing site condition. An AT&T intercept vault is to be installed, however, TPC conduits can not reside inside AT&T intercept vault. Joint Trench utilities participation cost TBD. Executed on 10/14/2010. Refer to RFI #62 (\$19,500) Expected Reimbursement from TPC. RE has provided documentation of notification to TPC, July-August '10. See final 1250 Form B actual costs COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1250-0009	10/06/10	081-0009	Install additional sewer and provide temporary connections at 4th/Stillman	3	N/A			+47,000	Location of existing sewer to be intercepted differs from where it's shown in the plan, hence additional sewer to be installed. Also, due to optional sewer MH not buildable until (E) AT&T DB is removed, additional sewer is necessary to tie into (E) main as interim. New sewer is supposed to tie into optional MH. No reimbursement from SFPUC Sewer. RFI #91 COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved

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- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
					Approval Action	Approval Date	Actual/Forecast			
1250-0010	10/06/10	081-0010	Perform AT&T wye cast connection and chipping of existing duct bank at various locations	6	N/A			+48,181	AT&T was supposed to tie-in its own facility. However, AT&T's contractor, who is hired to install vaults, stated it is not in their scope of work. Refer to RFI #82.1. AT&T intercept vault at 4th/Harrison can not be installed at design location due to utility conflicts. AT&T vault to be shifted a few feet instead of vault being on top of existing duct bank. This will cause additional excavation, joint trench and modification to existing duct bank. Joint Trench utilities participation cost TBD. SFMTA and AT&T are negotiating with Contractor. (\$48,181) Expected Reimbursement from AT&T. RE has provided documentation of notification to AT&T, Sept-Oct '10. See final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1250-0011	10/06/10	081-0011	Remove existing piles and shoring at 801 Howard	2				-0	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0012	10/06/10	081-0012	Additional work related to AT&T facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0	This is the total of all force account work related to AT&T facility. SFMTA to seek reimbursement from AT&T through the Form B process. (\$67,798) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0013	10/06/10	081-0013	Additional work related to PG&E facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0	This is the total of all force account work related to PG&E facility. SFMTA to seek reimbursement from PG&E through the Form B process. (\$30,547) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0014	10/06/10	081-0014	Remove brick wall at sewer sta 152+94 (west side) on 4th between Howard and Folsom.	2				-0	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0015	10/06/10	081-0015	Archaeological Findings - Charges for rental of steel plates, triton barriers, shoring and labor for maintenance.	2				+784,771	Midden deposits were discovered on 4th Street between Howard and Folsom. Contractor stopped work. Contractor requesting payment for rental charges of trench plates, barricades, and shoring, and cost of maintenance. Total cost exposure is projected through end of November 2010. The \$290,703.00 is expected to be the final estimate for the rental of trench plates, barriers and shoring. \$597,000 Arch, \$179,000 DIFF, \$8,500 Traffic COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20
1250-0016	10/06/10	081-0016	Additional AWSS modification at 4th/Harrison	1	CMB-0016	Agree	11/10/10	+156,418	New alignment is proposed by Design team. No reimbursement from SFPUC AWSS. COR #33 Supplemental COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1250-0017	10/06/10	081-0017	Protection Work at PG&E Vault 1611	6				-0	Expected Reimbursement from PG&E or work to be deferred \$6,400. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0018	10/06/10	081-0018	Demolition and Support Work at PG&E Vault 1611	6				-0	Expected Reimbursement from PG&E or work to be deferred \$25,000. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0019	10/06/10	081-0019	Extended overhead delay claim due to Archaeological discoveries	2					Old Note: Potential delay claim if issue extends project duration. Amount is estimated at \$3,000.00 per day for 60 days (\$180K). New Note: By exercising all option work, additional 84 calendar days is added to the contract time. In addition, midden mitigation will start on 10/7/10. As a result, the potential for extended overhead cost is averted. This trend has been superseded by Trend #37. COMPLETE, NO FURTHER ACTION	
1250-0020	10/06/10	081-0020	Sewer modification under I-80 freeway at 2 locations	3				+39,062	Inverts of existing sewer where new sewer will tie into are found to be different than shown in plan and would create a reverse slope. Additional pipe and manhole are required to fix slope. Refer to RFI Nos. 2S01 and 147. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1250-0021	10/06/10	081-0021	Install new AWSS lateral including hydrant at NW 4th/Harrison	2					Existing AWSS lateral at SW 4th/Harrison is in conflict with new 18" sewer. Instead of modifying the lateral to avoid the sewer, a new lateral at NW corner is a preferred solution. CM awaiting design revision from Design team. Trend No. 21 is combined with Trend No. 22.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1250-0022	10/06/10	081-0022	Install additional 30 feet of DIP and new AWSS at 4th/Harrison	2	CMB-0026	Agree	01/12/11	+160,908	AWSS Point of connection on 4th Street was found to be cast iron instead of ductile iron as shown in DPW as-built. Due to this differing condition, additional length of pipe needs to be replaced and lead joint to be installed in order to install a ductile iron tee. Also, existing AWSS hydrant lateral is in conflict with new 18" sewer. The preferred solution was to install a new ductile iron lateral at a different location rather than installing vertical offsets on an existing cast iron lateral. No reimbursement from SFPUC AWSS. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1250-0023	10/06/10	081-0023	Steel plates and shoring standby for 2 months due to PG&E delay at Clementina	3				+24,981	Sewer at Clementina was delayed by 2 months due to PG&E vault conflict. PG&E will not pay cost of steel plates and shoring standby because PG&E drawings were sent to MTA during design phase and PG&E was not made aware of the conflict then. COMPLETE, NO FURTHER ACTION; CMOD #13	CMOD #13 Approved
1250-0024	10/06/10	081-0024	Utility support and work around for AT&T facilities	6	CMB-0048	Agree	08/24/11	+95,311	Contract specs specified AT&T to compensate contractor directly for workarounds & support. AT&T refused to pay Synergy. Synergy considers AT&T's refusal as a changed condition to CN 1250 contract. (\$95,311) Reimbursement from AT&T. See Final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1250-0025	10/06/10	081-0025	Utility support and work around for PG&E facilities	6					Contract specs specified PG&E to compensate contractor directly for workarounds & support. PG&E negotiated \$100,000 directly with Synergy and will pay synergy directly as well.	
1250-0026	10/06/10	081-0026	Utility support and work around for SFWD facilities	3	CMB-0028	Agree	02/09/11	+66,510	Total cost known to date (10/5/10) of all SFWD support and workarounds. See COR #12, 20, 32 and 35. Agreed amount is total of COR #12, 20 and 32. Total exposure is equal to agreed amount plus COR #35. No reimbursement from SFWD. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #20 Approved
1250-0027	10/06/10	081-0027	Trucking and labor support for Archaeological mitigation	2				-0	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are charges up to end of November 2010 only. Additional charges are expected which will be tracked as Trend No. 28. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0028	12/08/10	081-0028	Trucking and labor support for Archaeological mitigation, Part II	2				-0	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are expected charges beyond November 2010. COMPLETE, NO FURTHER ACTION	CMOD #14 Approved
1250-0029	12/08/10	081-0029	Cost overrun for bid item UD-10 "Additional excavation and backfill"	4	CMB-0036	Agree	05/04/11	+112,500	Bid item UD-10 is to pay for excavation of connection hole and kill hole for SFWD line. Contract only included 200 cubic yard for this work. The size of excavations is dictated by field conditions and per the direction of SFWD inspector. RE's estimate of the total volume of dirt to be excavated is 630 cy. Examples of differing conditions encountered are: location of existing water line is different than where it's shown in the plan, existing waterline where shown in the plan to be connected to is inactive, differing condition at 5th/Clementina, connection holes and kill holes need to be expanded due to other utilities in the way. COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1250-0030	12/08/10	081-0030	Supplement bid item GE-4 "Allowance for differing site conditions" related to the installation of publicly owned facilities only (sewer, water, AWSS, Joint trench)	4	CMB-0030	Agree	04/13/11	+235,595	This change order is to supplement GE-4 for cost overrun related to the installation of publicly owned infrastructure only. GE-4 cost overrun for installation of privately owned infrastructure is being tracked separately and a separate change order will be issued. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0031	12/08/10	081-0031	Unused allowance for bid item GE-8 "Allowance for cast-in-place utility vaults"	4				-0	Bid item GE-8 is an allowance to pay contractor for designing and constructing cast-in-place manholes as required for installation of new systems. Only one CIP vault was installed. Credit amount included in Trend #43	
1250-0032	12/08/10	081-0032	Unused allowance for bid item UD-5 "Handling and disposal of Class I Hazardous Waste"	4				-0	Bid item UD-5 is an allowance to pay contractor for handling and disposal of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1250-0033	12/08/10	081-0033 Unused allowance for bid item UD-6 "Transportation of Class I Hazardous Waste"	4				-0	Bid item UD-6 is an allowance to pay contractor for transporting of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	
1250-0034	12/08/10	081-0034 Cost overrun for bid item TR-6 "Allowance for manual traffic control"	4	CMB-0037	Agree	05/04/11	+68,820	Bid item TR-6 is an allowance to pay for off-duty police officers and parking control officers. Contract allowance amount is \$50,000.00. Contract specs calls for police officers at 4 intersections (4th/Howard, 4th/Folsom, 4th/Harrison and 4th/Bryant). The average cost of 1 police officer is about \$800.00 per day (\$100.00 per hour). The \$50,000.00 allowance is only good for 60 days for 1 police officer. Hence, additional money was needed for traffic control support. Final amount paid police officers is \$87,500.00. Additional billings for parking control officers (from Al Herce of DPT) is forthcoming; RE estimated this bill to be about \$60,000.00. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1250-0035	12/08/10	081-0035 Premium cost for requesting contractor to accelerate work on 4th Street between Howard and Folsom	2				-0	Due to archaeological discoveries, many trenches remained open and the project would not have enough time to complete installation of underground utilities and restore the roadway before the Holiday season. Without accelerating the work, the project would have had to pay rentals for the barriers, street plates and shoring for the unfinished trenches that would have remained. By accelerating the work and DPT allowing the contractor to work through the beginning of the Holiday Moratorium, the project avoided these rental costs, which is estimated to be greater than the premium cost of accelerating the work. COR Not submitted by Contractor CLOSED COMPLETE, NO FURTHER ACTION	
1250-0036	12/08/10	081-0036 Rental/Maintenance costs for support of Archeological Trenches (Part 1 of 4) \$255,840; Support Work During Archeologist Mitigation Efforts (Part 2 of 4) \$199,741; Mobilization and Equipment Standby Costs (Part 3 of 4) \$67,728; Additional Overhead/Indirect Costs During Archeological Delay Period (Part 4 of 4) \$124,186	2	CMB-0041	Agree	07/13/11 02/15/12 07/25/12 09/12/12	-0	Due to archaeological discoveries, contractor may potentially claim for compensation for his equipment that were idle for the duration of the waiting period. RE's estimate is based on Caltrans rate for equipment standby for 5 months (May to October). RE has not received any change order request related to this item. RE to verify if his equipment were indeed idle during this time period. 2/15: Rental/Maintenance Costs for Support (Part 2 of 4); Addl Work as Result of Archeological Shutdown (3 of 4). 07/25: Revised mod - compensation for 1 of 3) Rental/Maintenance, 2 of 3) Addl Work result of Archeological support, 3 of 3) Addl OH/Indirect cost. RE to add Equipment Standby time to revised mod. 09/12: RE to Prepare Modification 10/29: CMod 20 is being issued as a unilaterally change, by the SFMTA that represents the SFMTA's estimate of a fair and reasonable final compensation amount for the additional work. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0037	12/08/10	081-0037 Compensation for loss of production, inefficiency and disruption of work due to archaeological discovery	2				-0	Due to archaeological discoveries, contractor may potentially claim for compensation for loss of production, inefficiency and disruption of work. RE has not received any change order request related to this item. Amount shown is a ROM cost by the RE. RE expects a COR from the contractor but change justification is very unlikely. Initial draft COR was \$898,453. RE has adjusted to \$661,559 removing the month of October and option work. This was then revised to 800,000. There has been no official submittal from Synergy. SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log. COMPLETE, NO FURTHER ACTION	
1250-0038	03/18/11	081-0038 Project Delay due to archaeological discovery and PG&E Issues.	2				-0	Due to archaeological discoveries compounded with PG&E's ability to perform service switchover to Olivet University and de-energize a live duct bank in conflict with 48" sewer. The project will realize an estimated 6 weeks of non-compensable delay to the substantial completion date of 4/6/11. 47 days estimated by RE. Contractor submitted COR 51 in the amount of \$1,144,776.74 on September 1st, 2011. RE responded requesting additional backup on October 19th, 2011. Subsequently, no additional information has been provided by the contractor, therefore, SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log.	
1250-0039	05/18/11	081-0039 Remove BP-4 (Waterproofing) from Contract	4				-0	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$40,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1250-0040	05/18/11	081-0040	Delete SW-8 (24" Sewer) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$73,117. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-0041	05/18/11	081-0041	Delete UD-5 and UD-6 (Class I Off haul and Handling) from Contract	4				-0-	Bid items were not used. Contractor requesting compensation to recover for General Conditions cost. Bid items total amount is \$150,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-0042	05/25/11	081-0042	Delete GE-6 (Hazmat) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$100,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-9001	10/06/10	081-9001	Utility Companies refusal to contribute to utility support costs and work-around. (Voided. Recorded individually in TR-0059-TR-0061.)	7						VOIDED
1250-0043	08/03/11	081-0043	Unit Rate Adjustment for Entire 1250 Bid Items	4				(333,904)	Pursuant to General Provision GP-11, COR is to adjust contract value to account for fix overhead costs for bid items not performed or where the bid item performed varied by 25%. COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
Contract 1250 Totals								+2,694,211	Total Changes to the Contract in the amount of \$2,694,211, represents a \$740,834 OVER RUN of the original allocated contingency of \$1,953,377. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$162,992 will offset some of this OVER RUN. Final Contract Closeout Total \$11,968,150 will be reduce by \$2,275,419 Utility Reimbursement credits for a Final Program cost of \$9,692,731 for CN 1250	
Contract 1251 - Utilities Relocation #2 (UMS)										
1251-0001	03/18/11	082-0001	Modify traffic control plan by establishing a single travel lane on Stockton St. in lieu of time-based multiple lane requirements as stipulated in contract plans TR-001 to 004.	7				-0-	After discussions with the Contractor and the Union Square Business Improvement District (BID), the SFMTA determined that modifying the lane requirements along Stockton St. and implementing the alternate pedestrian walkway design would be beneficial to the execution of CN 1251 in the following ways: increased public safety, increase construction production, and create a more pleasing environment to the public and merchant. COR #1 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1251-0002	03/18/11	082-0002	Installation of reinforced concrete slab underneath Joint Trench along Stockton at O'Farrell (East Side). CTL 133+66.37 (27.08 LEFT) to CTL 134+00.87 (27.08 LEFT)	1&3	CMB-0035	Agree	04/20/11	+67,634	Pursuant to a commitment between Barney's and SFMTA, Emergency Stair #4 (to be constructed in CN 1253) must avoid existing subsidewalk basement. It was determined that moving the conflicting stairs would require the Joint Trench to be constructed in a manner that would enable it to span the excavated area. The addition of the invert slab allowed for the needed span thereby allowing for a relocation of Emergency Stair #4. COR #4; PCC #1 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1251-0003	03/18/11	082-0003	Adjust placement of 3EA manholes along Geary Street and O'Farrell Street. The modified manhole locations require the installation of approximately 265LF of additional HDPE pipe inside the existing 3'x5' brick sewer.	1	CMB-0029	Agree	02/23/11	+148,919	During future station construction, the design team anticipates that excavation related settlement may cause damage to the brick sewers along Geary and O'Farrell Streets. This proposed modification will replace the vulnerable brick sewer within the influence zone with HDPE pipe that will not be as susceptible to settlement-induced damage. COR #9, PCC #2 COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1251-0004	04/06/11	082-0004	Changes to Neiman Marcus secondary enclosure wall due to various differing site conditions.	2	CMB-0031	Agree	04/13/11	+189,584	Due to various differing site conditions as described in RFIs 15, 37, 38 and 44, changes to the secondary enclosure wall are required. The existing footing were found to be inconsistent, i.e. missing footing in one area, footing sticks out beyond existing wall, overpour on existing footing, existing wall to be 6" into private property. Contract plan SR-302 shows a consistent footing. COR #8 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0005	04/06/11	082-0005	Existing PG&E conduits were found on top and parallel to existing AWSS on Geary Blvd. at 2 locations (east and west of Stockton)	6				+66,084	Contract plans AW-501.1, 501.2, 501.4 and 501.4 show the existing AWSS to be replaced in place. However, existing PG&E conduits were found to be on top and parallel to the existing AWSS resulting in extra work in working around and/or shifting the existing electrical conduits. Contract plans JT-308 and 309 showed the existing electrical and AWSS to be separate. Estimate includes \$77,892.53 (Synergy FA Request) + \$25,000 (first digging west side) + \$10,000 (temp backfill during moratorium) + \$15,000 (plate rental west side at \$5k per month). Estimate does not include Synergy's cost to sequence his work. Updated projected cost impact from \$50,000 to \$127,893 based on compilation of force accounts received. RE negotiating COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
1251-0006	04/20/11	082-0006	Design changes to utilities on Stockton street between Post and Geary	1	CMB-0039	Agree	06/08/11	+398,624	Due to changes to the limits of the UMS Station on Stockton Street between Post and Geary, the original utility design has changed. COR #24, PCC #4 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0007	04/20/11	082-0007	Design changes to utilities on Ellis Street	1	CMB-0049	Agree	08/24/11	(434,957)	Due to changes to the limits of the UMS Station on Ellis street, the original utility design has changed. PCC #5 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0008	04/20/11	082-0008	Elimination of underpinning at 150 Stockton	1					Based on field verification, it was determined that underpinning is no longer needed. Contract bid item SR-9 is for a total amount of \$116,000 measured by LF. However, CM team does not anticipate to recover the full amount because contractor may be entitled to retain general conditions cost and some excavation cost that was already performed but encumbered in Bid Item SR-9. Agreed credit of (\$58,000) to be included in Trend #60. CLOSED, NO FURTHER ACTION	
1251-0009	04/20/11	082-0009	Additional cost for police officers and/or Parking Control Officers for traffic control.	4	CMB-0038	Agree	06/01/11	+261,584	Contract bid item TR-7 for manual traffic control in the amount of \$120,000 is insufficient to control traffic for the duration of the contract. The \$120,000 allowance only equates to one police officer for a duration of 7.5 months. At a minimum, it is anticipated that one police officer or PCO will be needed at Stockton/Post for the entire contract duration of 16 months. Additionally, one PCO is required for each intersection at Geary/Stockton and O'Farrell/Stockton. COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1251-0010	05/25/11	082-0010	Accelerate Stockton east between O'Farrell and Market	1				+27,409	Contractor needed to rent additional excavators to work concurrently with the other block on Stockton between O'Farrell and Market. Amount: \$27,409; COR #25 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1251-0011	06/22/11	082-0011	Potholing at 4th/Howard for PUC sewer design	1					Request from MOS utility design team to pothole for the intercept of a 36" force main sewer and 96" sewer. PUC requested that this be done in order to ensure that we have accurate utility information to avoid costly change orders during construction. Per direction from CMB on January 18, 2012, this request is denied. COR #50, PCC #6 CLOSED, NO FURTHER ACTION: Per direction from CMB on January 18, 2012, this request is denied.	
1251-0012	07/06/11	082-0012	Additional cost to lower the AWSS at O'Farrell, east of Stockton, due to numerous existing utility conflicts.	2	CMB-0042, CMB-0050	Agree	8/3/2011, 9/21/2011	+278,351	The AWSS is in conflict with AT&T, PG&E and several other utilities and needs to be installed under all these utilities at about 11' deep (instead of 6' depth as noted in Plan AW-501.4, sheet note #5). During negotiations with the Contractor several items of work were found to be missing for the original cost estimates which increase the amount to \$278,351. RFI #76, COR #31 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved
1251-0013	07/06/11	082-0013	Accelerate start of construction in front of Macys West by trenchless construction method	7				-0	Micropile installation on Stockton east between O'Farrell and Market has proven to be much slower than anticipated. To mitigate this potential delay, contractor requested to start construction in front of Macys West. -COR 32 (CMB 0055 approval - see also Trend CN1251 #'s 04 & 10) COMPLETE, NO FURTHER ACTION; CMOD #3 (No Cost Change)	CMOD #3 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0014	07/21/11	082-0014	Increase in Bid Item WD-10, Allowance for Additional Excavation and Backfill.	3	CMB-0055	Agree	09/14/11	+191,779	This allowance is for the contractor to perform additional excavation, backfilling and restoration associated with the water tie-ins and capping for the distribution piping system. The contractor has performed two water service tie-ins at an average cost of \$14,000 per tie-in. The current number of tie-ins and capping is 35 separate points. This amounts to a total cost of \$490,000. The current contract allowance amount is \$100,000, therefore an additional \$390,000 will be needed to augment bid item. CMB made a partial approve of up to \$200K. The initial Contract Modification to supplement this allowance is in the amount of \$191,778.62. RE's cost analysis of this trend confirms that the initial CMod amount of \$191,778.62 is sufficient to cover for all water tie-in/capping work. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1251-0015	08/03/11	082-0015	Additional traffic signal work at Post/Stockton	1				+17,530	Modification of the traffic signal at Post/Stockton is required to implement the detour shown in contract plan TR-010. There are no bid item to bill this work. COR #19 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0016	08/03/11	082-0016	Additional traffic signal work at Sutter/Mason	2				+32,054	Existing conduits shown in Plan ET-101 differs from what is actually in the field. City's response to RFI 73 directs contractor to install new conduits and conductors. RFI #73; COR #33 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0017	08/03/11	082-0017	Furnish and install AT&T Manhole 5830 on O'Farrell Street	6	CMB-0051	Agree	09/21/11	+25,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$25,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0018	08/03/11	082-0018	Furnish and install AT&T Manhole 5829 on Geary Blvd.	6	CMB-0051	Agree	09/21/11	+31,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$31,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0019	08/03/11	082-0019	Extend joint trench and modify existing AT&T Manhole 403 on Ellis Street.	6	CMB-0057	Agree	10/26/11	+31,000	AT&T was supposed to furnish and install AT&T vault #5833 on Ellis Street. The current design was to intercept the existing AT&T conduit in the middle of Ellis Street. It was discovered that the existing AT&T conduit actually run adjacent to the southern curb line along Ellis Street. Therefore, AT&T requested SFMTA for Synergy to extend the joint trench approximately 200 feet to the West and tie into their existing AT&T vault #403. This work will also require Synergy to enlarge vault #403 to accept the additional conduit. Note: The agreed amount (\$31,000) is for enlargement of vault #403 only; the additional 200 feet of trench to be captured in the JT bid items. (See Trend 60) COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0020	09/07/11	082-0020	Change PG&E conduit material from PVC to GRS on west side of Stockton between Geary and Post	6	CMB-0058	Agree	11/02/11	+19,537	PG&E requested to use GRS material in lieu of PVC in areas where PG&E conduits were expected to be exposed and temporary supported during future UMS station construction. PG&E agreed to reimburse SFMTA (\$19,537) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0021	09/07/11	082-0021	Revise PG&E service points and layout of primary lines at various locations, and delete Muni Vault 1850 A at Stockton/Ellis.	6					PG&E made changes to the locations of the service points and layout of some of the primary lines. In addition, due to changes to the limits of the UMS Station on Ellis Street, it was determined that Muni Vault 1850A is no longer needed. Cost for this trend is captured in Trend #31 or CMod #12. CLOSED; NO FURTHER ACTION. Cost for this trend is captured in Trend #31/CMod #12	
1251-0022	09/07/11	082-0022	Change OCS supports at SF Hilton Hotel on Mason Street from embedded eyebolts to poles w/foundations.	7					During the design phase the representatives of the Hilton Hotel agreed to and signed a license agreement with the SFMTA to allow embedded eyebolt supports. Hilton's Dir of Property Ops now wants to have OCS poles rather than the embedded building eyebolt supports. However, the OCS designer was able to revise the OCS design to eliminate the need for either eyebolts or poles in front of Hilton Hotel, resulting in a \$2,000 credit. CLOSED; NO FURTHER ACTION. Applicable bid items to be adjusted accordingly, See Trend #60.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0023	09/07/11	082-0023	4th Street & Folsom Trolley Bypass	1	CMB-0065	Agree	1/25/2012, 2/29/12	+405,440	SFMTA Operations has requested a bypass be installed at 4th Street and Folsom Street. \$242,619 in labor costs for OCS installation has not been negotiated yet. 1/25: Condition agreed upon verification material from Contractor to be procured is available. (Verified 02/01/12). 02/29: CMod negotiated cost has been revised to incorporate original three items and the add'l OCS work on Folsom St. COR #52; PCC #7 Updated projected cost impact from \$490,000 to \$405,440. Cmod #12 (Formally CMod #15) COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1251-0024	09/07/11	082-0024	Install a 5" slurry wall between the gas line and wet utilities if the separation is less than 3 feet	6	CMB-0059	Agree	11/16/2011, 05/02/12	+201,411	As a new requirement, PG&E had requested that a 5" slurry wall be installed between the gas line and wet utilities where the separation between the 2 utilities is less than 3 feet. PG&E agreed to reimburse SFMTA (\$201,410) through the Form B process. COR #58 COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1251-0025	09/07/11	082-0025	Additional PG&E conduit crossings at Geary and O'Farrell to minimize service interruption during future UMS Station construction	6					PG&E requested to install additional conduits crossing Stockton Street at Geary and O'Farrell to minimize service interruption during future UMS Station construction. PG&E agreed to reimburse SFMTA through the Form B process. This item is captured under applicable JT Bid item, see Trend 60. CLOSED; NO FURTHER ACTION. Item is captured under applicable JT Bid Item, See Trend 60.	
1251-0026	09/14/11	082-0026	Install cantilever footing in lieu of regular OCS foundation at 2 locations on Mason Street between Geary and O'Farrell	2					The sub-basement in the public parking garage at O'Farrell/Mason extends beyond the property line up to the curb line. Therefore, regular foundations as per original design could not be installed. CLOSED; NO FURTHER ACTION. Item is captured under applicable OCS Bid Item, See Trend 60.	
1251-0027	09/20/11	082-0027	Accelerate installation of AT&T facilities in order for AT&T to start cut-over sooner	1	CMB-0056	Agree	11/30/11	+281,435	Acceleration is necessary to avoid potential delay impacts to Central Subway follow-on contracts. COR #40 COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1251-0028	10/18/11	082-0028	Furnish and install AT&T Manholes 5828 (Stockton), 5831 (Geary), 5832 (O'Farrell) and 113 (O'Farrell)	6	CMB-0057	Agree	10/26/11	+157,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$157,000) through the Form B process. COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0029	10/26/11	082-0029	Rebuild existing AT&T vault 133 at Post/Stockton and demolish existing AT&T vaults 403 (Ellis) and 113 (O'Farrell)	6					Vault 133 rebuild is superseded by Trend 40. Demolition of existing vaults 403 and 113 is superseded by Trend 43 CLOSED; NO FURTHER ACTION. Demo of existing vaults 403 and 113 are superseded by Trend 43. (See CMOD #23)	
1251-0030	10/26/11	082-0030	Enlarge existing PG&E vault 873 at SW Geary/Stockton	6	CMB-0058	Agree	11/02/11	+46,366	PG&E asked SFMTA to enlarge vault 873. PG&E agreed to reimburse SFMTA (\$46,366) through the Form B process. CMB approved a NTE amount of \$40K COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0031	10/26/11	082-0031	Additional PG&E conduits crossing O'Farrell on east side of Stockton (Task Order #32)	6	CMB-0058	Agree	11/02/11	+17,193	PG&E asked SFMTA to install additional conduits. PG&E agreed to reimburse SFMTA (\$17,193) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0032	11/08/11	082-0032	Excavation and restoration cost for PG&E gas tie-in and kill holes.	6	CMB-0059	Agree	11/16/2011, 05/02/12	+92,292	PG&E gas drawings were not included in the bid package and there was no bid item to capture this work. Gas drawings was issued by PG&E in June 2011. PG&E agreed to reimburse SFMTA (\$92,292) through the Form B process. Updated projected cost impact from \$202,400 to \$169,087 due to reduction in number of kill holes from 18 to 15. 04/11: Discovery of actual number of Kill/Tie locations being 26 instead of 15 will require confirmation from PG&E of the locations and the new cost of scope of work. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved

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Project Trend/Change Control Log

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1251-0033	11/23/11	082-0033	Install secondary enclosure wall at One Stockton (Apple Store)	1	CMB-0068	Agree	03/07/12	+408,700	Additional enclosure wall is design initiated change. COR #47, PCC #9 Updated projected cost impact from \$262,484 to \$408,700. 39 Calendar Day Time Extension COMPLETE, NO FURTHER ACTION; CMOD #13 (formally CMOD #14)	CMOD #13 Approved
1251-0034	01/10/12	082-0034	Install temporary support as required to protect existing live utilities that are encroaching into the City right-of-way in front of 17-25 Stockton Street.	2	CMB-0069	Agree	04/04/12	+337,548	Existing utilities that are in active service were discovered in the City public right-of-way and are obstructing the performance of Contract work. Worst case scenario - "Not to Exceed" value) CM team will report actual amount value at a later date COR #71 CMB agreed to a Not-to-Exceed amount of \$346,456 on 4/4/12. All physical work was scheduled to complete by 4/13/12 COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1251-0035	01/11/12	082-0035	Potholing on Stockton between Post and Geary for UMS Station design	1					UMS Design Team requested 1251 to pothole (6'Wx12'Lx8'D) on Stockton between Post and Geary to locate existing piles and tie-backs at Union Square. Cost for this scope of work from the Contractor is \$19,870.73. Per direction from the CMB on Jan 18th this request is denied and the DP2 designer will cover this potential future obstruction with a note on the drawings. COR #53 CLOSED; NO FURTHER ACTION. Per direction of CMB on 1/18/12, this request is denied and DP2 Designer will cover this potential future obstruction with a note on the drawings.	
1251-0036	01/11/12	082-0036	Install three 6" PG&E conduits from vault 5800 to PG&E "A" pullbox at 4th/Bryant.	6					CN 1252 Contract is requesting 1251 to install PG&E conduits in order to bring power in advance of the tunnel equipment arrival. The scope of work, which involves trenching at the busy 4th/Bryant intersection, was part of the 1252 contract, hence, a credit of same amount (\$54,892.07) to be due back to 1252. Based upon a field meeting and discussions with BIH on Jan 17th this work will be done under CN 1252 as originally planned. COR #55 CLOSED; NO FURTHER ACTION. Based on field meeting with BIH on 1/17/12; this work will be completed under CN 1252 as planned.	
1251-0037	01/17/12	082-0037	Install sewer lateral from the Gucci building (240 Stockton) to the main sewer on Maiden Lane. Work will involve plumbing modification inside building to raise invert.	3	CMB-0078	Agree	09/12/12	+27,428	After field investigation, the existing sewer lateral was found to connect to the Stockton main near Geary. However, the location where the lateral is connected to the main is inside the footprint of the UMS station, in which the main is shown in the contract plan to be slurry filled. The contract plan shows the lateral to be connected to the main on Maiden Lane but is not possible due to invert problem. At the CMB meeting on 1/18/12, Albert Hoe reported that he had instructed the design team during the design phase to investigate this lateral and make the connection to the sewer main at Maiden Lane. RE was asked to investigate if this could be a possible error and omission by the sewer design. (See Trends #44 and 45) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0038	01/04/12	082-0038	Reimburse Synergy for JCDecaux work to remove kiosks	1	CMB-0064, CMB 0080	Agree	1/04/2012, 10/24/12	+29,273	JCDecaux refused to remove the remaining (2EA) kiosks without being paid for work already completed. The CMB approved on 1/04/12 Task Order No. 35 (Removal of 3EA sidewalk kiosks) as requested for the work already completed. On 10/24/12 the CMB approved Trend #38 removal of the remaining 2EA kiosks; work already completed and paid for as part of the approved CMB 0064 dated 01/04/12 for a total of 5EA kiosks removed. Total work priced at \$29,268. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0039	01/17/12	082-0039	Furnish and install 2ea benches along 5th Street	1				+4,752	Requested by Muni Operation. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0040	02/15/12	082-0040	Furnish and install AT&T Manholes 133 at Post/Stockton	6	CMB-0070	Agree	04/11/12	+45,000	AT&T requested SFMTA for Synergy to rebuild manhole 133 at Post/Stockton. COR #64 AT&T agreed to reimburse SFMTA (\$45,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0041	02/15/12	082-0041	Install additional 55 LF of AT&T trench to extend conduits from vault 5832 to vault 113 on O'Farrell Street	6	CMB-0070	Agree	04/11/12	+23,704	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. COR #63 AT&T agreed to reimburse SFMTA (\$23,704) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved

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Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1251-0042	02/15/12	082-0042	Install additional 95 LF of AT&T trench to extend conduits from vault 5831 to vault 129 on Geary Blvd.	6	CMB-0070	Agree	04/11/12	+31,525	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. AT&T agreed to reimburse SFMTA (\$31,525) through the Form B process. COR #62 COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0043	02/15/12	082-0043	Force account work for demolition of existing AT&T vaults 113 (Post/Stockton) and 403 (Ellis)	6	CMB-0076	Agree Conditionally	10/03/12	+52,607	Agreed cost shown in Trends 29 and 40 is for installing vaults only. Cost to demo existing vaults is tracked on force account (estimated cost at \$15k each vault). AT&T agreed to reimburse SFMTA (\$52,607) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 72 & 80) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0044	02/15/12	082-0044	Install new sewer lateral from Macys West on O'Farrell including plumbing modification inside Macy's building.	3	CMB-0078	Agree	09/12/12	+11,438	Contract plan SW-4 shows an existing lateral to be connected to new main. However, the 8" lateral is too big to be connected directly to the new 14" main necessitating a new connection to the manhole. However, numerous existing utilities were in the way and required installation of a new lateral at a higher elevation. Due to the raised lateral invert, modification to the building is also needed. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0045	02/15/12	082-0045	Install new 2 each sewer laterals on Stockton between Post and Geary	3	CMB-0078	Agree	09/12/12	+30,260	Contract plan SW-3 shows 2 each existing laterals coming from the Union Square garage to be connected to the new main at approximate sta 128+55. However, the laterals were found to be connected to the downstream end of the existing main (toward Geary), which is called for to be abandoned in 1251 to make room for the future station. (See Trends #37 and 44) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0046	03/06/12	082-0046	Additional cost for enlarging PG&E vault 584 on O'Farrell east of Stockton	6				+80,000	The two (2) existing PG&E duct banks that were supposed to be intercepted by vault 584 were wider than shown on plan. Vault 584 was needed to be enlarged in order to capture the two (2) ductbanks. PG&E agreed to reimburse SFMTA (\$80,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0047	04/10/12	082-0047	Enlarge Muni Vault 900A on Stockton between Post and Geary	2	CMB-0082	Agree	10/31/12	+15,357	Contract plan JT-301 calls for an intercept vault to capture 2 (E) Muni ductbanks (DB). These DBs were found to be farther apart than shown on plan. The intercept vault needs to be widened. (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0048	04/10/12	082-0048	Additional cost and time for stuck auger during micropile drilling	2					Contractor's hollow stem auger got stuck during drilling of micropile #27C in front of 17 Stockton. Contractor claims differing condition as cause for the stuck auger. Contractor is asking for 1 day compensable time extension. SFMTA is reviewing claim for entitlement. COR #67 RE Denied COR (City Letter 26); however Contractor will most likely send rebuttal. CLOSED; NO FURTHER ACTION.	
1251-0049	04/10/12	082-0049	Additional cost and time for added rebar and coordination with 17-19 Stockton Owner's contractor	2	CMB-0083	Agree	11/07/12	+9,058	Existing footing of One Stockton was found to be recessed from property line. City's response to RFI 171 called for additional rebar to compensate for the gap between back of new enclosure wall and existing footing. Also, the Owner's contractor of 17-19 Stockton asked that Synergy clear his work area so he can pour the primary wall and bring in his new switchgear. Synergy is asking 2 days compensable time extension. (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 64) COMPLETE, NO FURTHER ACTION	CMOD #27 Approved
1251-0050	04/10/12	082-0050	Additional cost to install a Type 770 pole foundation at a different location, install 2 each DPT mast arms and demo existing wall in conflict with OCS footing	2	CMB-0074	Agree	08/15/12	+48,898	Type 770 pole foundation at SW 5th/Folsom could not be installed per plan due to a conflict with a cistern. Only solution is to remove an existing pole foundation (recently installed in 1251 as contract work) to make room for the 770 pole foundation. At 5th/Folsom, 2 DPT mast arms (not shown in original plan) need to be installed. At Pole #811, an existing concrete wall is in conflict with pole foundation. (CMB 0074 approval - see Trend CN1251 #'s 67, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved

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- 2 - Unforeseen Conditions
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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
					Approval Action	Approval Date	Actual/Forecast			
1251-0051	04/10/12	082-0051	Intercept existing PG&E duct bank and terminate into vault 5464 at Market/Ellis	6			+23,633	PG&E requested to reroute existing duct bank running north out of MH 1803 at 4th/Pioneer Place into MH 5464 at Market/Ellis PG&E agreed to reimburse SFMTA (\$23,633) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved	
1251-0052	04/10/12	082-0052	Reroute unforeseen existing waterline on Geary east of Stockton	2	CMB-079	Agree	10/10/12	+27,234	An unforeseen existing waterline was found to be in conflict with PG&E vault 573 and needs to be rerouted per City's response to RFI #182. (CMB 0079 approval - see Trend CN1251 #'s 65 & 70). This is potentially a E&O issue due to unforeseen existing waterline on discovered along Geary Street (east of Stockton Street) not shown in the contract drawings. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0053	04/10/12	082-0053	Additional cost for premium to accelerate contract work	1	CMB-083	Agree	11/07/12	+10,591	SFMTA directed Synergy to accelerate work to advance PG&E and AT&T cut-over and allow CN 1252 Contractor to start work at UMS COR #74 PG&E agreed to reimburse SFMTA (\$10,590) through the Form B process. 11/07/12 (CMB 0083 approval - see Trend CN1251#'s 49, 59, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0054	04/17/12	082-0054	Additional waterproofing at FIDM and north end of Crate & Barrel	2				+8,151	Sidewalk in front of FIDM and north end of Crate & Barrel did not have a sub-sidewalk basement, hence the original plan did not call for waterproofing of the primary wall. While excavating for the joint trench, contractor found the existing waterproofing to be spalling and peeling off from the primary wall. COR #72 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0055	04/17/12	082-0055	Install Swiveloc lids on all PG&E vaults	6					PG&E requested SFMTA to add this scope to the 1251 contract for safety reason. COR #72 SFMTA decided to defer this work to the 1252 contract. COMPLETE, NO FURTHER ACTION;	
1251-0056	05/31/12	082-0056	Additional work on force account related to sewer installation	2				+45,156	Additional work due to unforeseen and differing conditions during installation of sewer. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1251-0057	05/31/12	082-0057	Additional work on force account related to water installation and NRG vault demolition	2				+39,599	Additional work due to unforeseen and differing conditions during installation of water and demolish existing NRG vaults that are in conflict with utility installation. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1251-0058	05/31/12	082-0058	Additional streetlight conduit on 5th Street between Harrison and Bryant	2	CMB-0083	Agree	10/31/12	+17,754	The existing streetlight pullboxes new cables were supposed to be connected to per contract plan did not have power. New conduit needs to be install from the power source. COR #75 (CMB 0082 approval - see Trend CN1251 #'s 47, 76 & 78) COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved
1251-0059	06/26/12	082-0059	Accelerate contract work at Barney's front	1	CMB-0083	Agree	11/07/12	+16,948	As a result of numerous meetings and complaints by Barneys, it was decided to accelerate contract work in order to restore Barneys sidewalk earlier (CMB 0083 approval - see Trend CN1251 #'s 53, 49, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0060	06/26/12	082-0060	Final Bid Item Reconciliation	4				(508,961)	Bid item analysis for entire contract as of 6/12/12.	CMOD #30 Approved
1251-0061	06/26/12	082-0061	Excavate for PG&E cutover at 177 Stillman	6				+7,424	PG&E requested Synergy to excavate for PG&E cutover at 177 Stillman. Reference document: Email from Michael Lightstone dated 12/9/11 PG&E agreed to reimburse SFMTA (\$7,424) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0062		082-0062	Additional waterproofing at Macys Men's wall	2				+24,774	Contract did not call for waterproofing at Macys Men's wall. However, when contractor dug for the joint trench, it was found that the existing waterproofing has deteriorated and needed to be replaced. COR# 20 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1251-0063		Excavation and restoration cost for PG&E gas tie-in and kill holes. Part II	6				+56,458	After completion of Part I (see trend 32), PG&E had offered to self-perform the excavation and restoration of the gas tie-in/kill holes because PG&E had crews available to perform the work. However, PG&E no longer have available crews, hence Synergy had to continue and finish excavating and restoring the last tie-in/kill holes. PG&E agreed to reimburse SFMTA (\$56,458) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0064		Accelerate finish and detail work of AT&T and PG&E vaults	1	CMB-0083	Agree	11/07/12	+4,704	In order to expedite turn-over of AT&T and PG&E vaults, SFMTA directed Synergy to accelerate the detailing and finish work of these vaults. SFMTA will pay Synergy premium cost for OT hours. 11/07/12 - (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 49) COMPLETE, NO FURTHER ACTION; CMod #27	CMOD #27 Approved
1251-0065		Additional fittings for AWSS lateral and chipping of pole foundation at Market/Ellis	2	CMB-0079	Agree	10/10/12	+20,412	An existing Muni pole foundation is in the way of the AWSS lateral. Additional fittings are required to complete contract work. (CMB 0079 approval - see Trend CN1251 #'s 52 & 70) This is potentially an E & O issue due to an existing Muni pole foundation is in the way of the AWSS lateral. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0066		Intercept PG&E conduits at Vault 573 at Geary east of Stockton	6				+6,466	During installation of PG&E intercept vault 573, PG&E had incorrectly identified the conduits to be intercepted. This error was discovered during cut-over process by PG&E. PG&E agreed to reimburse SFMTA (\$6,466) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0067		Additional feeder span, no-bo insulator and adjustment of guywire for the Folsom OCS bypass	3	CMB-0074	Agree	08/15/12	+32,149	SFMTA Electrical Designer had pointed out the new Folsom Bypass does not have enough capacity to power the new OCS necessitating installation of feeder spans. Also, adjustments to the guywire are necessary to mitigate conflict with new signal mast arms. COR #76 7/25/12 - RE presented COR to CMB; direction given to develop one CMod with all remaining items to be purchased for the new OCS bypass. (CMB 0074 approval - see Trend CN1251 #'s 50, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0068		Extended Overhead cost from July 19, 2012 to August 16, 2012	1	CMB-0075	Agree Conditionally	10/03/12	+106,967	Contract is expected to be extended beyond the approved July 18, 2012 completion due to the following reasons: contractor was slowed due to accommodation of AT&T and PG&E cut-over, for example, contractor has to provide windows of time for AT&T to occupy its work space to provide continuity and efficiency for AT&T cut-over, contractor has to advance cleaning and detailing of vaults to turnover to AT&T and PG&E, these work are typically done as punchlist, contractor now has to sequence work and reallocate resources; SFWD cut-over is taking longer than expected; PG&E gas cut-over was delayed due to inability to access Armani building, this delay held up completion of sewer MH, SFWD connection and restoration on O'Farrell east; added change order work, i.e. additional PG&E conduit at vault 573 and additional excavation for AT&T cut-over at 240 Stockton CMB Agreed contingent on receipt of letter confirming e-mail as presented in the meeting and content viewed related to agreement and remaining actions and release of funds. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #29 Approved
1251-0069		Removal of abandoned PG&E gas valve (8each) and install anodes	6				+4,737	PG&E asked Synergy to remove all abandoned gas valves (8each) PG&E agreed to reimburse SFMTA (\$4,737) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0070		Core drill primary wall and install interior plumbing at Armani and Disney for the fire service water cutover	2	CMB-0079	Agree	10/10/12	+14,034	Existing fire service inside the building is a thin-wall steel pipe that extends out to the previously existing sub-sidewalk basement. However, 1251 had backfilled the subsidewalk basement per contract, which now made the steel pipe susceptible to corrosion. SFWD does not want to tie-in to the steel pipe due to corrosion issue plus the fact that the pipe is thin walled, which makes welding almost impossible. A ductile iron pipe needs to be installed from the main and into the building. COR #77 (CMB 0079 approval - see Trend CN1251 #'s 52 & 65) COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0071		082-0071	Install a new 8" backflow preventer for the fire service inside Macys Men's building	6				The new water main (installed in the 1251 Contract) is closer to the property line than the existing backflow preventer. State law stipulates that a backflow preventer be installed in between the property's fire suppression system and the water main. The SFWD refuses to make this connection until a proper backflow preventer is installed. SFMTA will insist on Macys to install its own backflow preventer. CLOSED; NO FURTHER ACTION.		
1251-0072	08/08/12	082-0072	Additional AT&T trench from new vault 5829 to existing vault 127 on Geary east of Stockton	6	CMB-0076	Agree	10/03/12	+23,993	AT&T requested new conduits to maintain continuity between the 2 vaults. AT&T agreed to reimburse SFMTA (\$23,993) through the Form B process. RE Tracking work on FAR CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 80) COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0073	08/08/12	082-0073	Additional work to install water and electrical utilities for Flower Stand on Geary west of Stockton	1				+17,966	Contract bid allowance for providing utility services for flower stands (UD-14) had been exhausted during relocation of 2 flower stands. A third and final flower stand is still needed to be relocated. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0074	08/08/12	082-0074	Traffic Signal modification at 5th/Folsom	1	CMB-0074	Agree	08/15/12	+16,429	Due to installation of OCS bypass on Folsom between 4th and 5th Streets, a left turn signal is required at 5th/Folsom. Additional signal heads and modification to the existing traffic signal is necessary. RE Tracking work on FAR (CMB 0074 approval - see Trend CN1251 #'s 50, 67, & 75 also). COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0075	08/08/12	082-0075	Unforeseen conditions related to pole foundation installation for the Folsom OCS Bypass	2	CMB-0074	Agree	08/15/12	+12,568	Contractor encountered unforeseen concrete and brick substructures and abandoned utility lines. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251#'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0076	08/08/12	082-0076	Adjustment to OCS on Mason Street	2/3	CMB-0082	Agree	10/31/12	+14,988	Modify bracket arm at existing Pole #511 to alleviate tension load and bending of pole. Realign trolley wire on Mason between Geary and Eddy to smoothen transition when shifting from right lane to left lane. Also, add intermediate guywire to prevent excessive sagging of bracket arms at various locations. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251#'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0077	09/12/12	082-0077	Additional work related to Qwest, TCG and UCCO facilities	2	CMB-0081	Agree Conditionally	10/31/12	+37,181	Qwest, TCG and UCCO requested Synergy to tie-in their existing conduits into the new vaults that Synergy installed per contract. The utility companies are responsible for connecting existing conduits into new vaults, therefore, this request is considered extra work. Private Utilities companies agreed to reimburse SFMTA (\$37,181) through the Form B process. RE Tracking work on FAR CMB agreement contingent upon Cmod package to include evidence from all utilities that cost are reimbursable to SFMTA through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved
1251-0078	09/12/12	082-0078	Unforeseen conditions encountered during excavation and installation of OCS poles along Mason and 5th Streets.	2	CMB-0082	Agree	10/31/12	+27,645	Several obstructions, i.e. buried concrete, boulders, brick, abandoned utilities were discovered during excavation and installation of OCS poles along Mason and 5th Street. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 76) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0079	09/12/12	082-0079	Additional work related to installation of PG&E Vaults 467, 571, 573, 586 and 594 including joint trench leading to these vaults	2				+44,530	Unforeseen conditions were encountered during installation of select PG&E vaults including joint trenches leading to these vaults. PG&E agreed to reimburse SFMTA (\$44,530) through the Form B process. RE Tracking work on FAR COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved

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- 4 - Quantity Variation
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	COR No.	PCC No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
							Approval Action	Approval Date	Actual/Forecast		
1251-0080	09/12/12			082-0080 Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to these vaults	2	CMB-0076	Agree	10/03/12	+56,806	Unforeseen conditions were encountered during installation of select AT&T vaults including joint trenches leading to these vaults. AT&T agreed to reimburse SFMTA (\$56,805) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 72) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0081	09/13/12			082-0081 PG&E concrete cover versus CDF on electrical duct bank	6	CMB-0107	Agree	02/13/13	+43,882	Contract Plan JT-014 calls for CDF cover on PG&E duct bank. However, PG&E requested to use regular concrete due to heat dissipation problem with CDF. PG&E agreed to reimburse SFMTA (\$43,881) through the Form B process. 12/19/12 - Presented to CMB, direction given to finalize cost and obtain a Form B agreement with PG&E 02/13/13 - Revised CMod presented to CMB. PG&E agreed with negotiated reimbursement amount. COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
Contract 1251 Totals									+3,962,032	Total Changes to the contract in the amount of 3,962,032 represents an UNDERRUN of allocated contingency in the amount of \$1,405,265.32. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$1,224,828 will increase the UNDERRUN. Final Contract Closeout Total \$20,794,581 will be reduce by \$7,618,112 Utility Reimbursement credits for a Final Program cost of \$13,176,469 for CN 1251	
Contract 1252		COR No.	PCC No.	1252 Change Description	Change Type	CMB Change No.	Configuration Management Board Agree/Disagree	Decision Date	Actual/Forecast	Comments	Contract Modification No.
1252-0001	04/23/12	1		AWSS Conflict w/ Low Pressure Water	6	CMB-0091	Agree to Merit Agree to Cost	10/10/12 01/16/13	+16,907	AWSS contract work was made more difficult by the proximity of a water line which was closer than indicated on UT-501. See COR 008 for TIA request. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$16,900 - Agreed	
1252-0002	04/23/12	2		AWSS Add. Tie-Rods 4th-Harrison	6	CMB-0086	Agree to Merit Agree to Cost	10/10/12 12/19/12	+55,132	The AWSS line must be restrained a certain distance beyond the 90 degree elbow we are installing under contract 1252. The 1252 contract work includes excavating on both sides of this 12-foot portion of pipe. Additional work scope (per Michael Smith @ DPW): Station 162+80 to 162+90 - Restrain the existing 12-inch tee to the existing pipe north of the tee. Restrain any other joints that are not restrained on the existing pipe up to the new pipe to be installed. 10/10/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$58,000 - Agreed	
1252-0003	04/23/12	3		AT&T Vault Conflict-4th & Harrison	6	CMB-0092	Agree to Merit Agree to Cost	10/10/12 01/16/13	+16,015	After excavation of the roadway surface and subgrade at Fourth and Harrison streets an AT&T vault was discovered to be in conflict with the current alignment of the 42" RCP sewer main. Verbal authorization was given by an AT&T representative to make modifications to the vault. COR 003 has been submitted by BIH in response to this issue. Work is to be charged via SFMTA Form B agreement to AT&T. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$21,089 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0004	05/18/12	6	PG&E live electrical delays	6	CMB-0088	Agree to Merit Agree to Cost	11/28/12 1/9/2013	+7,402	PG&E lines indicated on contract drawing UD-502 thru 504 were to be abandoned yet were not yet abandoned when BIH started work. They were abandoned on 5/21. 11/28/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement or cost reimbursement. COMPLETE, NO FURTHER ACTION: CMOD #10 - Final Cost \$7,402.36	CMOD #10 Approved
1252-0005	06/06/12	7	Oil filled pipe @ Launch Box	2	CMB-0093	Agree to Merit Agree to Cost	1/16/13 1/16/13	+9,980	Synergy Demo Crew exposed an existing 6" steel line which had oil in it on the West side of 4th St between Harrison and Bryant. 01/16/13 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED amount \$10,000 COMPLETE, NO FURTHER ACTION; CMOD #05 - Final Cost \$9,979.81	CMOD #5 Approved
1252-0006	04/23/12	8	TIA - Associated w/ COR 001, COR 002, and COR 003	6		Agree to Merit	10/10/12	+153,000	TIA and Overhead Costs related to COR 001, 002 and 003. 10/10/12 - Merit info associated w/COR's 001, 002 & 003 presented to CMB - Agreed. 01/30/13 Elevation Ladder documentation presented for review of unresolved issue of payment of Indirect costs for TIA submittals- COR 008	
1252-0007	06/12/12	9	MOS – Impacts due to SFWD low psi water line	2	CMB-0143	Agree to Merit Agree to Cost	11/06/13	+5,727	Live PG&E Electrical Lines Conflict: BIH was notified that PG&E had live electrical lines running through each headwall work zone @ Moscone station. 8 inch Low Pressure Water Line Conflict: Contract drawings show this utility to be abandoned and capped prior to work. Synergy struck and damaged the water line. SFWD directed Synergy to excavate a kill hole so they could properly abandon the line. 11/04/12 - COR Evaluation for No Merit presented to CMB for - Agreed. Contractor did not follow contract specification 02.30.00 and 02.41.00 requiring the Contractor to verify the locations of any City or public service utility company facilities that may be affected by excavation and to ensure no damage to existing underground facilities. 11/06/13 - Merit info presented to CMB - Agreed for partial merit of cost associated with excavating two additional "kill-holes on 06/20/12 & 06/21/12. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$5,727.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0008	06/19/12	10	MOS - Demo PGE duct bank / SF City 911 fiber optic line	2	CMB-0094	Agree to Merit Agree to Cost	10/10/12 01/16/13	+4,916	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a PG&E duct bank that contained a live San Francisco 911 fiber optic line. 11/14/12 - Presented to CMB - The narrative will be rewritten CMB agrees with partial merit labor work involved in supporting the utility agencies. This item will be brought back to the CMB for approval. 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$4,919.54 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #03 - Final Cost 4,915.54	CMOD #3 Approved
1252-0009	07/02/12	11	MOS - Traffic Signal line re-route south headwall	6	CMB-0095	Agree to Merit Agree to Cost	01/16/13	+37,500	After potholing Synergy discovered several traffic lines which were in the proposed location of the south MOS headwall. Traffic Lines re-routed. Merit info presented to CMB - Agreed 01/16/13 - CMB - NOT TO EXCEED \$37,500 COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Approved
1252-0010	01/00/00	12	MOS - Archaeological Standby North Headwall	2	CMB-0096	Agree to Merit Agree to Cost	12/11/12 01/16/13	+16,893	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a layer of "Midden" or Native American debris. 12/11/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #06 - Final Cost \$16,892.96	CMOD #6 Approved
1252-0011	07/06/12	13	MOS - SL conduit from PG&E vault @ north headwall	6		Agree to Merit	11/28/12	-0-	Permanent power is required to supply an existing Street Light box north of the MOS N headwall. 11/28/12 - Merit info presented to CMB - Agreed 04/01/13 - CM Team must obtain in writing from PG&E a utility agreement for cost reimbursement. Will be issued as a PCC with the approval of PG&E prior to requesting a proposal from the Contractor. CLOSED; NO FURTHER ACTION	

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0012	06/26/12	15	LB - Pre-Excavation for Slurry Walls	2	CMB-0087	Agree to Merit Agree to Cost	11/28/12 12/19/12	+125,000	Pre-excavation of slurry wall panels due to CDF encased sewer line. The concrete encasement was found by the Contractor to extend to a depth of 9'-11' below the top of guide wall or street surface. The 8" VCP sewer main and concrete encasement was incorrectly shown in the contract drawings to be approximately 4'-5' below the street surface. 11/28/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$96,000 - Agreed	
1252-0013	07/02/12	17	MOS - Impacts @ North and South Headwalls due to live utilities	6	CMB-0144	Agree to Merit Agree to Cost	11/06/13	+43,219	Standby delays related to the discovery of traffic lines within the proposed location of the south MOS headwall. 11/14/12 - COR presented to CMB. CMB requested additional revisions to the evaluation. CMB agrees with partial merit. The COR will be brought back to the CMB for approval. 11/21/12 - COR revisited at mtg for clarification the issue is related to CMB action from item 3 -7/25/12 (Mtg #88) specifically acted on 08/01/12 (CMB Mtg. 89) referred originally as Trend #15. CMB Agreed to No Merit to this contract change. 11/06/13 - Merit info presented to CMB - Agreed to DSC for equipment standby costs for a period of 16 working days. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,219 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Approved
1252-0014	Closed	19	UMS - Grant street 2 way conversion (e- & striping)	7				-0	In order to implement a full street closure for Stockton Street at the UMS location the DPT recommended that Grant Street be converted from an existing one-way street to a two way street for vehicular traffic. Closed - Work is done. -07/18/12 - This potential change was brought before the CMB. Board's decision to have DPT perform the work. Work is completed. CLOSED; NO FURTHER ACTION	
1252-0015	06/22/12	20	PROJECT WIDE - Utility Demo limit reduction credit	7				-0	BIH's subcontractor Synergy Project Management (SPM) would like to minimize the limits of utility demo at the Launch Box, Moscone station, UMS station and TBM Retrieval Shaft locations. SFMTA to BIH/SPM "Build per Plan". CLOSED; NO FURTHER ACTION	
1252-0016	04/02/12	21	UMS - Reduced Duration	5	CMB-0073	Agree Cost (Conditionally)	08/01/12	-0	No cost change for acceleration of utility relocation, ground improvements (jet grouting), and headwall construction at Union Square/Market Street Station. -08/01/12 - CMB approval condition upon incorporating correctness to backup documentation as required by & documented in CMB mtg. RE to prepare modification. COMPLETE; NO FURTHER ACTION: CMOD #08 - No Cost Change	CMOD #8 Approved
1252-0017	07/10/12	22	MOS - Asbestos Pipe at north headwall	2	CMB-0090	Agree to Merit Agree to Cost	12/12/12 01/09/13	+5,705	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered friable asbestos-laden transite pipe. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$6,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #05 - Final Cost \$5,707.05	CMOD #5 Approved
1252-0018	07/10/12	23	MOS - Brick Wall #2 discovered @ north headwall	2				+16,025	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a buried wall. 11/14/12 COR presented to CMB. Evaluation for merit will be rewritten and brought back to CMB for approval. 11/21/12 - Evaluation of merit presented to CMB - Agreed to No Merit to this contract change.	
1252-0019	08/10/12	26	MOS - Asbestos Pipe at south headwall	2	CMB-0085	Agree to Merit Agree to Cost	12/12/12 01/09/13	+27,630	Transite pipe was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 EE brought to CMB for cost NOT TO EXCEED \$30,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #15 COMPLETE, NO FURTHER ACTION: CMOD#15 - Final Cost \$27,629.64	CMOD #15 Approved
1252-0020	08/10/12	27	MOS - Oil filled pipe at south headwall	2	CMB-0089	Agree to Merit Agree to Cost	12/12/12 01/09/13	+8,226	A pipe containing oil was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 CMB - NOT TO EXCEED \$8,600 COMPLETE; NO FURTHER ACTION: CMOD #05 - Final Cost \$8,225.68	CMOD #5 Approved

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0021	06/19/12	29	MOS - Todco scaffolding reimbursement	2	CMB-0097	Agree to Merit Agree to Cost	12/12/12 01/16/13	+1,718	1252 contract work requires the removal of scaffolding erected by Fine Line Construction, the contractor performing renovations on the Woolf House. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$1,717 - Agreed COMPLETE, NO FURTHER ACTION: CMOD #03 - Final Cost \$1,717.83	CMOD #3 Approved
1252-0022	Closed	closed	Disputed Work Items - NTP2 vs. NTP3	7				-0-	BIH interpretation of Special Provisions SP-3 NTP2 description includes activities that SFMTA interprets to be within NTP3. These activities include: Ellis Street and Green Street shafts and associated compensation grouting, MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS head walls and jet grouting, OCS removal along Stockton Street from Geary to Ellis, and the TBM retrieval shaft. On April 13, SFMTA released the MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS jet grouting, OCS removal along Stockton Street from Geary to Ellis, and preparatory and utility work necessary for the construction of the retrieval shaft. CLOSED; NO FURTHER ACTION	
1252-0023	05/30/12		Manhole in east guidewall footprint	2				-0-	While performing excavation for the east side guidewalls at the TBM Launch Box, BIH's subcontractor CJA-NCC encountered a manhole near the bottom of the excavation which was unexpected. BIH has stated that removal of the manhole prior to the installation of the guidewalls was necessary to ensure the successful installation of the slurry walls. 05/20/12 - CM Team comment: Synergy traded this COR with SFMTA for shallow Force Main Installation. CLOSED; NO FURTHER ACTION	
1252-0024	Closed	closed	2" gas line inside 16" casing	2				-0-	While performing excavation for the Sewer and AWSS trench at the intersection of Fourth and Harrison streets, BIHJV's subcontractor Synergy encountered what was identified to be a 16" depressurized gas main. This gas main contained a 2" gas line which is shown on contract drawing UD-502 to be abandoned/removed. CLOSED; NO FURTHER ACTION	
1252-0025	04/23/12	5	CDF Encasement on 42" RCP	2				+140,596	While performing excavation for the east side guidewalls at the TBM Launch Box, BIH's subcontractor CJA/NCC encountered a CDF backfill at the existing 42" RCP sewer which reportedly had a significantly higher compressive strength than the 50-150 psi. which was anticipated. BIH claims that the CDF conflicted with the construction of the guidewalls and it could not be excavated by conventional means. Escalated to the IRL process	
1252-0026	Closed	closed	Damage to Live LPW main at 4th and Folsom	2				-0-	Synergy Demo Crew hit a blow-off valve on the 8" water line at the Southwest corner of the MOS headwalls. SFWD is to install a permanent cap per contract drawing WD-404. CLOSED; NO FURTHER ACTION	
1252-0027	Closed		MOS - 76 Gas Station fencing	1				-0-	SFMTA requested BIH to install fencing around the perimeter of the 76 gas station at 4th and Folsom St. Issue closed, cost of fence paid by BIH in return for use of gas station lot. CMB - Temporary use of 800 Folsom Street site for construction staging. Use of this site would be a tradeoff between SFMTA and BIH. The Contractor would maintain the sites security and up-keep in exchange for not billing. CLOSED; NO FURTHER ACTION	
1252-0028	Closed		LB - SPTC delays due to concrete encased 8" sewer	2				-0-	Closed. Combined with COR 015. 07/25/12 - Verbal information presented to CMB as a potential change. CLOSED NO FURTHER ACTION	
1252-0029	08/06/12	18	MOS - South Headwall re-design	1				+144,000	Costs related to leave end stops in place and a "T-Section" at the Moscone headwalls return walls. 11/14/12 - Presented to CMB. RE is recommending a possible compensation value of \$135K. CMB agrees with partial merit for labor and material cost of this COR. RE will proceed with scoping the work. 04/17/13 - Elevation Ladder of unresolved issue of End Stops presented to CMB - COR 018 09/18/13 - Contractor has submitted a Contract Claim No. 1 Permanent End Stops at MOS Headwall for \$169,379.17. CMB directed the CM Team to draft a letter rejecting the claim. Claim #1 has been negotiated for \$144K. CMod will be issued.	
1252-0030	08/02/12	24	Ellis - Utility demolition	3	CMB-0135	Agree to Merit Agree to Cost	12/6/2012 10/09/13	+35,628	BIH says that no utilities were shown at Ellis; however, Reference Drawing UE-126 shows utilities. 12/06/12 - Merit info presented to CMB - Agreed 10/09/13 - Engineers Cost Comparison brought to CMB for cost NOT TO EXCEED \$35,628.22 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0031	Closed		Crack Gauges	4				-0-	BIH disagrees with SFMTA on the total number of crack gauges to be installed on the project. Per the contract drawings a total of 926 crack gauges are to be installed. BIH claims that a total of 50 are to be installed. CLOSED; NO FURTHER ACTION	
1252-0032	08/07/12	28	Ellis asbestos abatement	2		Agree to Merit	12/06/12	-0-	A steam line containing asbestos was discovered during potholing at the Ellis Street Shaft. 12/06/12 - Merit info presented to CMB - Agreed 01/10/13 - CM Comment - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0033	-	30	LB - Class 1 Hazardous Material Haul off	2				+400,000	BIH trucking costs for Class 1 haul off generated at staging yard. Also see COR 054 regarding Class 1 Haz material haul off for Phase 2. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated for \$400K cost to include COR's 030, 054 & 075.	
1252-0034	01/00/00	70	LB - Jet Grout Quantity Overrun	4	CMB-0115	Agree to Merit Agree to Cost	03/20/13 04/03/13	+768,600	The contract drawings call for the contractor to determine the extent of jet grouting at the launch box. Bid Item ES-3 has an estimated quantity of 2,831 CY of in-situ treated ground. The Contractor has currently installed 3,929 CY of Soilcrete (Jet Grout) for ground treatment. This translates to an additional quantity of 1,098 CY of ground treatment beyond the quantity listed for Bid Item ES-3. By subtracting 241 CY for the "scallop" portion of the columns the total is 857 CY. 03/20/13 - Merit info presented to CMB - Agreed 04/03/13 - EE brought to CMB for cost NOT TO EXCEED \$599,900 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #22 - Contractor may pursue addl amt. \$168,700 for "scallop" portion of jet grout.	CMOD #22 Approved
1252-0035	01/00/00	unsubmitted	Utility Removal UD-304 and UD-503	6				-0-	RFI 00134 asks whether certain utilities indicated on drawings UD-304 (On Stockton inside limits of future UMS Station) and on UD-503 (On Fourth and Stillman Streets outside limits of Launch Box) may be left in place. Answer: "Confirmed, the utilities in question can be abandoned in place and are not required to be removed. The Engineer will seek an adjustment to Bid Item GB-3 for the elimination of this work." COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0036	05/17/12	35	Additional Road Base on Fourth Street	2				-0-	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt and road base layer while performing roadway demo work along the west side of Fourth street between Harrison and Bryant St. The additional layer is estimated by BIH/SPM to be approximately 8" - 12" thick. 12/06/12 - Evaluation of merit presented to CMB - Agreed to No Merit for this change. CLOSED; NO FURTHER ACTION	
1252-0037	01/00/00	unsubmitted	DPW permitting potential impacts	7				-0-	DPW Permitting issue to cause potential impacts. DPW is not issuing BIH permits for excavating the MOS headwalls, jet grouting at the LB, and excavating support at the LB, as they claim to have not been able to conduct a thorough review of the project's design documents and were not included in the design process. BIH may be required to re-sequence and stand many other potential impacts w/o said permits. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0038	05/30/12	38	Manhole in West Guidewall Footprint	3	CMB-0101	Agree to Merit Agree to Cost	12/05/12 01/23/13	+3,821	While performing excavation for the west side guidewalls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered a manhole foundation within the excavation at approximate station 165+70. It was necessary to chip away a portion of the existing manhole to gain the necessary clearance to construct the west slurry wall. 12/05/12 - CMB agreed with Evaluation of Merit 01/23/13 - EE brought to CMB for cost NOT TO EXCEED \$4,052.17 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #12 - Final Cost \$3,820.84	CMOD #12 Approved
1252-0039		unsubmitted	Panel W-33 Obstruction	2				TBD	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered buried (wood pile?) debris located approximately 12 feet below the guide wall within Launch Box Diaphragm Wall Panel W-33. This trend is being tracked separately from Trend 20 because we believe it may be a different structure. BIH has not provided adequate information substantiating the merging of the two trends. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0040	08/23/12		PCC 1 PCC No.1 - Revisions to Moscone North Headwall Elevation (Top)	1	CMB-0099	Agree to Cost	01/16/13	+20,358	SFMTA initiated change to revise headwall elevations to facilitate a change in the roof elevation of MOS station. 01/16/13 CMB - NOT TO EXCEED \$20,500 Item is now being tracked as PCC 01 COMPLETE; NO FURTHER ACTION: CMOD #07 - Final Cost \$20,358.23	CMOD #7 Approved
1252-0041	08/23/12		PCC 2 PCC No. 2 - Revisions to UMS Headwall Concrete and Reinforcement Limits	1				-0	SFMTA initiated change to revise UMS headwall concrete and reinforcement limits to provide a cost savings. 08/29/12 - Revised PCC presented to CMB PCC No longer being pursued. CLOSED; NO FURTHER ACTION	
1252-0042	08/24/12	31	Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0108	Agree to Merit Agree to Cost	01/02/13 02/27/13	+1,200	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12" dia. steel pipe which appears to run continuously under Columbus Ave. 01/02/13 - Merit info presented to CMB - Agreed 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,250 - Agreed 04/01/13 - No reimbursement from SFWD. COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$1,200	CMOD #13 Approved
1252-0043	08/31/12	32	LB - Panel W29 Wood Pile	2	CMB-0136	Agree to Merit Agree to Cost	11/28/2012 11/06/13	+121,917	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-29. 11/28/12 - Merit info presented to CMB - Agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,961 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0044	09/04/12	33	Ret Shaft - 20" Water Line Conflict	2		Agree to Merit	11/14/12	-0	During excavation for the joint trench at the retrieval shaft SPM discovered that the MRY Duct Bank is directly above an active 20" low pressure waterline. As a result the work at the Retrieval Shaft must reportedly be altered. 11/14/12 - Presented to CMB, the CMB agrees with some merit of this COR, element of change not define clearly. RE will proceed with scoping the work. Due to PCC 10 CLOSED; NO FURTHER ACTION	
1252-0045	09/11/12	34	LB - Panel W28 Wood Pile	2	CMB-0137	Agree to Cost	11/06/13	+112,862	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-28. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,294 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed by both parties. Time and Delay as claimed by the Contractor will be denied.	
1252-0046	01/00/00	36	MOS - Catch Basin @ south headwall	3				-0	A catch basin on the NW corner of 4th and Folsom interfered with the construction of the MOS Headwalls. Removal of the catch basin was needed in order for the headwalls to be built. BIH claims the catch basin was not shown in the contract drawings. Closed due to improper notification. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0047	01/00/00	37	UMS - 12" steel pipe removal	3	CMB-0132	Agree to Merit Agree to Cost	6/5/2013 08/28/13	+3,379	A 12" steel pipe at the north UMS headwall location interfered with the demolition of other existing UMS utilities. BIH claims the steel pipe was not shown in the contract drawings. 06/05/13 - Merit info presented to CMB - Agreed 08/28/13 - EE brought to CMB for cost NOT TO EXCEED \$3,379.19 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0048	09/07/12	39	MOS - 16" Steel Pipe removal @ northeast headwall	3	CMB-0102	Agree to Cost	01/23/13	+2,952	SPM removed an unmarked 16" steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16" steel pipe was not shown in the contract drawings. 01/23/13 - EE brought to CMB for cost NOT TO EXCEED amount \$2,951.99 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$2,951.99	CMOD #14 Approved

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- 2 - Unforeseen Conditions
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0049	01/00/00	40	MOS - Extra Road Base @ northeast headwall	2				-0	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt at the NE MOS headwall location. The road base in this location was approx. 20" thick on a patch that was roughly 25' x 25'. Closed due to improper notification. CLOSED; NO FURTHER ACTION	
1252-0050	05/18/12	41	LB - Impacts due to live PG&E electrical lines (Synergy)	6	CMB-0098	Agree to Merit Agree to Cost	01/16/13	+1,217	Based on direction from the SFMTA, Synergy provided a full time flagger for one night shift of work @ the intersection of I-80 off-ramp near 4th/Bryant streets in order to assist PGE while they performed the abandoning of the existing live PGE electrical at the Launch Box location which was shown to be dead in the contract drawings. 01/13/13 - CMB agreed with Evaluation of Merit 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$1,245 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #10 - Final Cost \$1,216.60	CMOD #10 Approved
1252-0051	01/00/00	executed	Contract Amendment No. 2	1				(3,040,713)	COMPLETE; NO FURTHER ACTION: CMOD #02	CMOD #2 Approved
1252-0052	08/17/12	42	LB - Panel W25 Wood Pile	2	CMB-0138	Agree to Merit Agree to Cost	11/28/12 11/16/13	+126,489	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-25. 11/28/12 - Evaluation of merit presented - CMB agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$42,894 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0053	08/22/12	43	LB - Panel W30 Wood Pile	2	CMB-0139	Agree to Merit Agree to Cost	11/28/12 11/06/13	+88,677	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-30. 11/28/12 - CMB agreed with Evaluation of Merit 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$14,197 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0054	09/19/12	44	MOS - 16" steel pipe removal @ southeast headwall	3	CMB-0109	Agree to Merit Agree to Cost	12/06/12 02/27/13	+1,600	SPM removed an unmarked 16" steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16" steel pipe was not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,800 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$1,600	CMOD #14 Approved
1252-0055	06/09/12	45	Ret Shaft - Credit for reduced AT&T conduits	6				(331)	Credit to install 2 less conduits in the AT&T infrastructure at the Retrieval Shaft Joint Trench. The conduit notes on page JT-701 of the contract documents require 8 EA 4" conduits as laid out on the AT&T line. The reduced materials would result in 6 EA 4" conduits as a result. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00. The CMB directed the CM Team to draft a letter rejecting the claim. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0056	09/25/12	46	UMS - Unmarked steel pipes (6", 12", 14") / Duct Bank	6	CMB-0103	Agree to Merit Agree to Cost	12/06/12 01/23/13	+7,475	While performing excavation for the utility demolition at the south UMS headwall BIH/Synergy discovered a 6" dia. steel pipe, 16" dia. steel pipe, 18" dia. steel pipe, and a concrete duct bank. BIH claims the utilities were not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 01/23/13 - EE brought to CMB for cost NOT TO EXCEED \$7,461 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$7,475.28	CMOD #16 Approved

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- 2 - Unforeseen Conditions
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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0057	09/25/12	47	Ret Shaft - unmarked 10" steel pipe/duct bank	6	CMB-0104	Agree to Merit Agree to Cost	12/06/12 01/23/13	+2,108	Synergy Project Management (SPM), discovered an abandoned duct bank and 10" steel pipe which traveled underneath Columbus Avenue between Powell and Union Streets. Removal of the duct bank was necessary to complete the construction of the 36" RCP sewer main relocation work in this area. The status of the removal of the steel pipe is uncertain and may have not been necessary for the sewer main relocation. 12/06/12 - CMB agreed with Evaluation of Merit 01/23/13 - CMB - Not to Exceed \$2,201 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,108.04	CMOD #13 Approved
1252-0058	09/28/12	48	UMS - 3'x5' brick sewer at south headwall	6	CMB-0114	Agree to Merit Agree to Cost	12/06/12 03/13/13	+11,675	Synergy Project Management (SPM), discovered a brick sewer within the utility demolition limits at the UMS South headwall. The sewer encountered was larger than the 12" pipe which was shown in the contract drawings. Removal and disposal of the sewer commenced on September 26th and was completed by September 28th. Removal of the sewer was necessary for headwall construction. 12/06/12 - CMB agreed with Evaluation of Merit 03/13/13 - EE brought to CMB for cost NOT TO EXCEED \$12,474.65 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$11,675.00	CMOD #16 Approved
1252-0059	01/00/00	49	Ret Shaft - Tree trimming debris haul off	7				-0-	Synergy Project Management (SPM), was requested by the SFMTA to remove and dispose of debris near the Northeast corner of Columbus Avenue and Union Street. The debris resulted from tree trimming activities performed by MUNI operations. SFMTA Letter No. 119 of no merit sent to Contractor. CLOSED; NO FURTHER ACTION	
1252-0060	10/10/12	50	Ret Shaft - 12" steel pipe removal at Union/Columbus	6	CMB-0110	Agree to Merit Agree to Cost	12/12/12 02/27/13	+2,200	On October 4th 2012, the Contractor discovered and removed a 12" Steel pipe at the intersection of Union Street and Columbus Avenue. Removal and disposal of the steel pipe was necessary in order to complete the proposed sewer re-location work near the Retrieval Shaft. Sewer work included the construction of a manhole which had been positioned in the field to avoid an existing MUNI duct bank. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$2,600 - Agreed 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,200	CMOD #13 Approved
1252-0061	10/11/12	51	Ret Shaft - Elevation design conflict (30" low psi water / sewer)	3	CMB-0123	Agree to Merit Agree to Cost	03/13/13 7/10/2013	+13,386	03/13/13 - Merit info presented to CMB - Agreed 07/10/13 EE brought to CMB for cost NOT TO EXCEED \$21,100. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0062	09/07/12	53	Chinatown - Night drilling for instrumentation	7				-0-	Closed.	
1252-0063	-	54	LB Class 2 Hazardous Material Haul Off (Phase 2)	2				-0-	BIH trucking costs for Class 1 haul off generated at staging yard. Also see COR 030 regarding Class 1 Haz material haul off for Phase 1. Claim #2 has been negotiated cost to include COR's 030, 054 & 075.	
1252-0064	10/10/12		PCC 4 - Ret shaft sewer pipe material change	1				-0-	Change approximately 65 ft. of pipe for sewer bypass around the TBM Retrieval Shaft from 3' X 5' oval glass fiber reinforced pipe to a 48-inch (OD) HDPE SD-17 pipe with casing insulator placed inside a 54-inch diameter, 1/2-inch thick steel casing pipe. In addition, delete permanent sheet pile wall that was to have been placed along the west side of the trench to facilitate future maintenance access to the sewer along the shaft. CLOSED; NO FURTHER ACTION	
1252-0065	12/18/12		PCC 8 - UMS - Tree Removal	1				-0-	SFMTA is directing removal of a tree at the northeast corner of Stockton and O'Farrell St. CLOSED; NO FURTHER ACTION	
1252-0066	10/10/12		PCC 5 - Ret Shaft Water Dist. Pipe Material Change	1				-0-	Change material type of approximately 188 linear feet of 20-inch water line and approximately 125 linear feet of 30-inch water line from Welded Steel Pipe (WSP) to Ductile Iron Pipe (DIP) with TR-Flex joints. Install 6-inch thick concrete cap over 20-inch water line where cover is less than 24 inches. CLOSED; NO FURTHER ACTION	
1252-0067	10/26/12	58	Ret Shaft - Additional 10" steel pipe removal	6	CMB-0111	Agree to Merit Agree to Cost	12/12/12 02/27/13	+700	Work is a continuation of work performed in COR 047. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$860.85 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$700	CMOD #13 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0068	10/10/12		PCC 3 PCC No. 3 - General Detour Signage	1	CMB-0113	Agree to Cost	10/03/12 02/27/13	-0	Full closure of Stockton Street at Union Square was not anticipated under the 1252 Contract. The implementation of detour signage associated with the full closure of Stockton Street was to occur under the 1300 Contract. After the award of the 1252 Contract it was decided that a full closure of Stockton could be implemented to help reduce the headwall construction durations. As a result of the full closure the City Traffic Engineer has requested that a portion of the 1300 detour signs be installed now under the 1252 Contract to help alleviate traffic congestion and provide better detour signage around Union Square. 10/03/12 - PCC presented to CMB. CMB directed the RE to get a price quote from DPT do the work as a price comparison. This item will be brought back to the CMB at a later date. 11/14/12 - PCC presented to CMB. The CMB did not agree that Central Subway needed to take the lead on implementing detour signage, but suggested that the RE study the traffic activity and at the end of November report findings. 02/27/13 - Cost presented to CMB - Agreed to NTE \$6,152.60 Signs furnished and installed by SFMTA, PCC withdrawn. CLOSED; NO FURTHER ACTION	
1252-0069	11/08/12		PCC 6 PCC No. 6 - Supplemental instrumentation of BART tunnel lining.	1	CMB-0124 (voided) CMB-0129 (voided) CMB 0131	Agree to Merit Agree to Cost Agree to Cost	10/13/12 07/10/13 08/07/13 08/09/13	+307,861	Implement additional instrumentation of BART tunnel lining: (A) Existing bolt preload force – Determine the actual load in 12 bolts. (B) Bolt force sensor – Install 12 bolt force sensors at bolts for a total of 24 bolts. (C) Rail movement under dynamic train loading – Install dynamic strain gauges (2 per rail, 8 per tunnel). 10/31/12 - PCC presented to CMB for merit. CMB directed RE to proceed with obtaining a price quote from Contractor to perform the work. 05/08/13 - PCC 06 cost comparison was presented. CMB felt \$624K to perform the work was too high and requested IRP be contacted in writing to find out if the additional instrumentation monitoring was still warranted given the new alignment. 06/05: CS Letter No. 1972 presented - Tunnel Design Changes sent to IRP notified them of recent changes and developments in the tunneling contract. 07/10/13 - CMB - Not to Exceed \$650,127.62 IRP's response to SFMTA letter is still pending. 08/07/13 - EE brought to CMB for cost NOT TO EXCEED amount \$305K contingent upon revised estimate to reflect deletion in scope of work. 08/09/13 - Special CMB Mtg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 06 (BART Work Scope reduction) The CMB Agreed to a NTE revised value of \$307,860 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #19	CMOD #19 Approved
1252-0070	01/00/00	unsubmitted	Full Closure of 4th Street	1				TBD	SFMTA allowed full closure of 4th Street in order to facilitate construction of Launch Box Slurry Wall Construction Week Ending 11/04/12 - 11/11/12.	
1252-0071	11/07/12	61	LB - Panel P-17 Buried Obstruction	2	CMB-0125	Agree to Merit	01/02/13	+377	CJA-NCC discovered an unmarked buried water main at Panel P-17, approximately 6' below the guidewall at CTL Station 165+52, while performing slurry diaphragm wall excavation. 01/02/13 - CMB agreed with Evaluation of Merit. 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$1,100 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0072	11/14/12	62	LB - Panel P-9 Buried Obstruction	2	CMB-0140	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+116,663	CJA-NCC discovered a buried obstruction while excavating slurry diaphragm wall panel P-9 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented CMB agreed with Evaluation of Merit. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,588 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0074	11/16/12	65	LB – Panel P-12 Buried Obstruction	2	CMB-0141	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+112,313	CJA-NCC discovered a buried obstruction (water main) while excavating slurry diaphragm wall panel P-12 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented; CMB agreed with Evaluation of Merit. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$40,523 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0075	11/19/12	66	Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0112	Agree to Merit Agree to Cost	01/23/13 02/27/13	+3,700	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12" dia. steel pipe which appears to be a Low Pressure Water Main. 01/23/13 - Merit info presented to CMB - Agreed 02/27/13 - EE brought to CMB for cost NOT TO EXCEED amount \$3,800 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final cost \$3,700	CMOD #13 Approved
1252-0076	11/19/12	67	LB - Panel P-10 Buried Obstruction	2	CMB-0145	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+82,933	CJA-NCC discovered a buried obstruction or concrete encased clay sewer pipe, approximately 7' below the top of the guide wall while excavating slurry diaphragm wall panel P-10 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup be attached or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Merit info presented to CMB - Agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$49,984 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0077	12/21/12		PCC 7 PCC No. 7 - BART Temporary Annex Wall	1	CMB-0106	Agree to Cost	01/30/13	+15,500	SFMTA is requesting Contractor construct temporary wall for Bart Annex for SFMTA use. 01/30/13 - NOT TO EXCEED Amount \$15,380 COMPLETE; NO FURTHER ACTION: CMOD #11 - Final Cost \$15,500	CMOD #11 Approved
1252-0078	12/28/12		PCC 9, FA CO 1 PCC No. 9 - UMS Headwall - Unknown Buried Pipe	1	CMB-0100	Agree to Merit Agree to Cost	01/16/13 01/16/13	+75,000	Related to COR 063. SFMTA instructed BIH to perform investigation into the 48" diameter steel pipe as it is a Differing Site Condition. 01/30/13 01/16/13 - EE brought to CMB for cost NOT TO EXCEED amount \$75,000 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #04	CMOD #4 Approved
1252-0079	01/09/13		PCC 10 FA CO 3 PCC No. 10 - Relocation of TBM Retrieval Shaft - Excludes Button Up Costs	1					Modify Bid Item ST-4 (Construction of Base Bid Permanent Retrieval Shaft) and ES-4 (Ground Treatment at Retrieval Shaft Breakouts) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Excludes Utility Button Up and Site Restoration) 01/09/13 - Draft PCC10 presented to CMB for Contractor Design Activity to be paid on Force Account. NTE value \$20K presented to CMB as a draft copy, final copy distributed to the Contractor increased to \$50K. 02/20/13 - COST IS NOT REFLECTED HERE - SCOPE IS FUNDED BY OTHER CPT 690 \$\$\$\$ 03/06/13 - Cost proposal received from BIH. SFMTA will develop a detail estimate of what is believed to be the scope of work. 03/13/13 - PCC 10 presented for CMB change approval of \$50K NTE amount to perform design activities. CMB requested CM team return with a more detailed estimate, Contractor's cost proposal of the bulleted items as listed on the PCC and backup documentation as evidence of work completed by the Contractor. COMPLETE; NO FURTHER ACTION CMOD #20 (separate funding source used - CPT 690).	CMOD #20 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0080	12/19/12		Segment Measuring Frequency	7				-0	RFI 203.1 - In light of gauging frequency, and the difficulties of erecting a ring with cast in gaskets, BIH JV alternately proposes to assemble a ring on the Master ring at an interval of every 500th ring cast. The assembled ring would be comprised of randomly selected segments, or segments chosen by the Engineer. 12/11/13 - The CMB took exception to the deletion of the (\$1.3M) from the log without the consent of the Board. Direction was given to re-insert the credit and add a notation to the "comments section" the reasoning the dollar amount is no longer valid and should be removed.	
1252-0081	09/09/12		F21 and Old Navy Instrumentation Proposal	7				-0	Wang Technology is proposing instrumentation changes to the Liquid Level Sensors and Tilt Beams in the basements of Old Navy and Forever 21.	
1252-0082	01/14/13	68	UMS – AT&T Vault Walkway @ N Headwall	2		Agree to Merit	01/16/13	+2,000	SPM discovered an walkway at the UMS north headwall. This walkway is located at the UMS north headwall and connects the south AT&T vault, located within the utility demolition limits, to an north AT&T, located outside of the utility demolition limits. SPM proposes to construct 3'x5' wall to the extents necessary, inside this walkway. The wall will be constructed of plywood and necessary reinforcement in order to create a bulkhead that will isolate the walkway and north vault from the south vault. 01/16/13 - CMB recommendation Contractor/Sub-contractor proceed on Force Account with a "Not to Exceed Amount" \$2K. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$2,000.00	CMOD #16 Approved
1252-0083	11/08/12	69	UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	2	CMB-0153	Agree to Cost	4/23/14	+29,463	On or about 10-25-13, BIH/Synergy were installing sheet piles at the UMS SW head wall to demolish the existing basement wall in conflict with the head wall construction per contract requirements. During the driving of the sheet piles, Synergy struck a buried object which was later identified as a 48" Diameter steel pipe. See PCC 9 and 11. Synergy thought they were hitting a buried tie-back which was shown on the contract drawings. Synergy did not know at the time that they were hitting a buried 48" pipe. After hitting the buried object, Synergy installed additional sheet piles and enlarged the excavation area in order to clear the buried object and drive the sheet piles to the minimum embedment depth. Due to the larger excavation, Synergy is claiming impacts as a result of encountering this DSC including shoring revisions and for installing additional sheets. 06/05/13 - CM TEAM NOTES: COR 069 reopened by BIH to cover cost for enlarging excavation due to encountering the 48" buried pipe. Previously COR 069 was to cover capping and removal of the pipe until it was changed to PCC 11. 02/05/14 - CM TEAM NOTES: In IRL process 04/23/14 - EE brought to CMB for Cost Not to Exceed \$30K - Agreed. Change will be negotiated as a lump sum.	
1252-0084	01/24/13	PCC 11, FA CO 2	PCC No. 11 - UMS – Cap and Remove 48" Steel pipe	1	CMB-0105	Agree to Cost	1/23/13	+150,000	BIH/Synergy encountered a buried 48" Diameter steel pipe during work at the UMS S. Headwall. The pipe is located 6 feet from the south UMS headwall and 5 feet from the face of the curb. This PCC is to complete removal of pipe @ S. Headwall and investigate and remove pipe if necessary @ the North headwall. 01/30/13 - EE brought to CMB for cost NOT TO EXCEED amount \$150,000 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #09	CMOD #9 Approved
1252-0085	01/24/13	71	LB – Ramp Excavation Obstructions	2	CMB-0133	Agree to Merit Agree to Cost	4/3/2013 09/25/13	+5,594	BIHJV encountered numerous groups of wood piles while performing excavation of the Launch Box ramp. The wood piles are approximately 16"+ in diameter and are located along the north and south perimeter walls of the Launch Box ramp excavation area. 01/30/13 - CMB did not agree with merit of change suggestion the RE negotiate w/Contractor for another concession. 04/03/13 - COR merit evaluation presented to CMB again due to a greater number of obstruction encountered. CMB - Agreed to Partial Merit. 09/25/13 - EE brought to CMB for cost NOT TO EXCEED amount \$5,700. COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0086	02/08/13	72	Ellis Shaft Jet Grout Obstruction	2				-0-	On February 6th, 2013, CJA/NCC was drilling column R3 of the Ellis Shaft and reported hitting an obstruction 52ft below existing grade. The obstruction reportedly caused the jet grout monitor to shear off. At this time it is not known what the obstruction is or if it caused the monitor to be sheared off. Contractor no longer pursuing. CLOSED; NO FURTHER ACTION	
1252-0087	02/14/13	73	MOS - 16" Pipe removal @ NE Headwall	2	CMB-0118	Agree to Merit Agree to Cost	3/13/2013 05/08/13	+940	BIH-JV's subcontractor, Synergy, encountered an abandoned 16" pipe while installing the 12" waterline at the north headwall of Moscone. The pipe was at the same elevation as the new 12" waterline and therefore needed to be removed to facilitate the installation of the new 12" waterline. 03/13/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$989.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17	CMOD #17 Approved
1252-0088	NA		Whole Foods - Unknown brick obstruction in Comp Grout Trench	0				-0-	BIH has decided not to submit a COR as production was not significantly impacted. CLOSED; NO FURTHER ACTION	
1252-0089	03/11/13	75	Hazardous Waste Disposal Denial - Spoils Containment Cost Impacts	7				-0-	BIH submitted change order request (COR) 030 seeking reimbursement for the demonstrated additional costs of excavating, handling and disposing of excavated material found to contain hazardous material to a permitted landfill over that which can be disposed of at an unregulated dump site. The SFMTA refused reimbursement for such costs under the hazardous waste bid item allowance. As a result of this determination, BIH is modifying its approach to the construction and handling operations of tunnel spoils generated during tunneling operations. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated to included COR 30, 54 and 75.	
1252-0090	03/08/13	76	MOS - 16" Pipe removal @ SE Headwall	2	CMB-0119	Agree to Merit Agree to Cost	03/20/13 05/08/13	+1,116	BIH-JV's subcontractor, Synergy, encountered an abandoned 16" pipe while installing the 12" waterline at the south headwall of Moscone. The pipe was at the same elevation as the new 12" waterline and therefore needed to be removed to facilitate the installation of the new 12" waterline. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$1,116.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$1,116.00	CMOD #17 Approved
1252-0091	03/06/13	77	Comp Grout - WFB-5 Drilling Obstruction	2	CMB-0126	Agree to Merit Agree to Cost	04/03/13	+6,126	On March 06,2013, BIHJV encountered a potential Differing Site Condition (DSC) while drilling the compensation grouting hole WFB-5 located at Whole Foods and more precisely at CTL Station 160+38. This potential DSC consists of an obstruction located at a depth of 9' below grade which prevented CJA-NCC from drilling any further. 04/03/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$6,125.93 COMPLETE; NO FURTHER ACTION: CMOD #26 - Final Cost \$1,116.00	CMOD #26 Approved
1252-0092	03/07/13	78	Comp Grout - WF & ATT	2		Agree to Merit	3/20/13	-0-	BIHJV encountered multiple potential Differing Site Conditions (DSC's) of varying dimensions while excavating the compensation grouting trench for the drill holes located at Whole Foods and AT&T. -03/20/13 - Merit info presented to CMB - CMB agreed there was No Merit for this contract change. 05/24/13 - CM Team Notes - Contractor no longer pursuing due to failure to provide proper notification. CLOSED; NO FURTHER ACTION.	

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1252-0093	03/07/13	79	FA CO 4 Comp Grout - Old Navy	2	CMB-0116 CMB-0142	Agree to Merit Agree to Merit (addl) Agree to Cost Agree to Addl Cost	03/20/13 04/24/13 04/26/13 11/06/13	+259,373	BIHJV encountered a potential Differing Site Condition (DSC) while sawcutting the pavement for the compensation grouting holes located at Old Navy. The original design was to drill the compensation grout holes between two existing PG&E lines. It was discovered in the field that there is not enough clearance between the existing PG&E lines for the original design to be possible and multiple other potential DSCs were also encountered including, but not limited to, tile duct banks, concrete of unknown contents, and steel pipes. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 04/24/13 - Addl info presented for rationale for Contractor to demob and remob drill rig due to insufficient clearance between existing PG&E lines to drill the grout holes - Agreed 04/26/13 - COR presented at a special CMB mtg to notifying CMB of need to have Contractor perform work on FA4 for a NTE amount of \$70K. 05/15/13 - Addl request for funds to cover (Inefficiencies) - agreed for a not to exceed amount \$152,000. 11/06/13 - EE brought to CMB for cost. NOT TO EXCEED \$37,380 for the (remaining cost) parts 2 and 3 of 4 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #23	CMOD #23 Approved
1252-0094	03/12/13	80	MOS – Asbestos Wrapped 20" water line @ Headwalls	2		Agree to Merit	04/03/13	-0	BIHJV's subcontractor, Synergy Project Management was performing the installation of low pressure water distribution piping at the Moscone north headwall and discovered an unknown material wrapping around the existing 20" waterline which appeared to contain asbestos material. 04/03/13 - Merit info presented to CMB - Agreed 07/10/13 - CM Team Notes - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0095	03/11/13	81	12" Waterline Tee Connection Location (MOS South)	2		Agree to Merit	04/03/13	+3,001	BIHJV's subcontractor, Synergy Project Management, encountered a potential Differing Site Condition (DSC) upon exposing the tie-in point for the 12" waterline at the south headwall of Moscone. The potential DSC consists of two 45 degree elbows in the existing 12" waterline at the point of the tee connection. SFWD has surveyed the field conditions and indicated that the tee connection will need to be moved to the west. 04/03/13 - Merit info presented to CMB - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$3,000.00	CMOD #17 Approved
1252-0096	03/13/13	82	MOS 20" Conflict with 16" AWSS @ South Headwall	2				+31,573	Upon exposing the existing 20" waterline at the south headwall of MOS, in preparation for installing the new 20" waterline shown on WD-403 and amended by RFI 0155, BIHJV's subcontractor Synergy Project Management encountered a potential DSC. The potential DSC consisted of a crossing conflict between the new 16" AWSS, the new 20" waterline, and the existing 6" PE gas. These three utilities cross at multiple locations however the existing depths are roughly the same. 01/22/14 - Item reviewed at the CMB mtg as a status update to potential cost exposure. Item now being discussed in the IRL process.	
1252-0097	03/19/13	83	Ellis Shaft Concrete Obstruction	2	CMB-0127	Agree to Merit Agree to Cost	04/17/13 07/24/13	+1,420	During excavation for the Ellis Street Shaft, BIHJV's subcontractor, CJA-NCC, encountered a concrete obstruction at approximately 10 feet below grade. CJA-NCC spent 4 hours removing the obstruction. 04/17/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$1,424.52 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0098	03/16/13	84	Crate & Barrel Water Intrusion	2				-0	Water was discovered seeping into the Crate & Barrel basement in concert with secant pile installation at Pile #SRV-A. At the time, pile excavation was approximately 90 feet deep. BIHJV's subcontractor, CJA-NCC, stopped pile installation and placed lean concrete within the pile excavation. This allowed them to continue secant pile construction on other piles until which time SFMTA could provide appropriate mitigation for the water leak. 07/03/13 - CM Team will deny merit, notice not received within 7 days. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0099	04/05/13	PCC 12, FA CO 6	PCC No. 12 - Modifications to Tunnel Alignment at Market Street	1	CMB-131	Agree to Merit Agree to Cost (Conditionally)	08/14/13 08/14/13	+1,668,434	IFB Tunnel Profile conflicts with micro-piles installed under Contract 1251. Tunnel Profile needs to be revised (lowered) such that TBM and Tunnel structure is below previously installed micro-piles. Contractor shall revise compensation grouting design to conform to Contract requirements given the revised tunnel alignment. 04/03/13 - CMB agreed to Micropile profile change being forwarded to the Contractor. 04/10/13 - Updated alignment was presented superseding 04/03/10 version - (lowered 4.9%) 04/10/13 - Original Contractor submittal needs to be evaluated to verify the new alignment has been incorporated. 08/14/13 - Merit Evaluation and PCC 12 Cost NTE (Construction portion) was presented to the CMB for approval. The CMB agreed to merit contingent upon verification signature by the Designer (DP1) of additional work and cost associated with the change. NTE Value \$41,470.01 - Agreed	
1252-0100	03/26/13	85	SFWD Impacts at MOS North	2				+71,300	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastside of 4th street to be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 04/10/13 - Item reviewed at CMB meeting during review of Trend/Change Log COR's. CM team contends this is not a valid change and will reject the Contractor's claim of merit. Contractor has submitted a notification of Claim #3 for standby cost for this item. The CM Team will respond by 02/14/14.	
1252-0101	01/28/13	87	Cross Passage 5 - Value Engineering Change Proposal	5				(2,674)	As indicated in Contract Drawing No. ES-144, ground treatment for the excavation of CP5 was anticipated to be performed using jet grouting methods. BIHJV proposes to perform ground freezing from within the tunnels as an alternative ground treatment methodology, thereby avoiding the need to disrupt and impact the public by occupying 4th Street for an extended period. 04/24/13 - Item reviewed at CMB mtg. during review of Trend/Change Log COR's. CMB suggested a credit from the Contractor should be received for Bid Item ES-5. In addition suggested a minimal review of the BIH's proposed ground freezing method be done by the PB. COMPLETE; NO FURTHER ACTION: CMOD #25	CMod #25 Approved
1252-0102	04/09/13		UMS - Secant Pile SRV-J Obstruction DSC	2				-0-	BIHJV's subcontractor, CJA-NCC, encountered a potential Differing Site Condition (DSC) while drilling for UMS Secant Pile #SRV-J. The DSC consists of what appears to be an abandoned utility pipe located approximately 10 feet deep. 04/24/13 - Information presented to CMB during review of Trend Log. CM Team states COR merit will be rejected due to notification of change not met in timely manner per the contract docs. 05/24/13 - CM Team update - Contractor no longer pursuing due to untimely notification of event. CLOSED; NO FURTHER ACTION.	
1252-0103	04/18/13	88	SFWD Impacts at MOS South	2				-0-	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastside of 4th street to be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 05/08/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to no merit. This item is not on the critical path. 06/17/13 - Contractor no longer pursuing. CLOSED; NO FURTHER ACTION.	

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Project Trend/Change Control Log

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1252-0104	06/06/13	PCC 13 - SFWD Excavation, Support and Backfilling	1	CMB-0122 CMB-0128	Agree to Cost Agree to Addl Cost	06/19/13 08/09/13	+33,982	Excavation, support and restoration work at two locations required to facilitate fitting/valve installation work by the San Francisco Water Department. Installation of valves are to facilitate fire service connection cutover and cutting off of the existing water main. The existing water main is in the footprint of the UMS station piles and is to be abandoned. 06/05/13 - CMB agreed to change required; work must be completed sometime in June 2013 06/19/13 - Cost estimate presented; CMB agreed for a NTE of \$20K 08/07/13 - CMB viewed the estimate requesting the narrative be rewritten to tell the entire story of what has generated the change. 08/09/13 - Special CMB Mtg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 13 (Macy's Backflow work). CMB approved additional work and scope for a NTE value of \$14,100 for a total change value of \$34,100 COMPLETE; NO FURTHER ACTION: CMOD #18 executed for \$20K. Supplementary CMOD #24 executed for #13,982 was issue for remaining cost.	
1252-0105	05/30/13	Abandoned Well at MOS Panel N-4	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered an obstruction that appears to be an abandoned monitoring well within the Moscone Slurry Wall Panel "N-4". Contractor claims impacts resulting from this alleged DSC include, but are not limited to, excavation inefficiency, the required backfilling of the panel with lean concrete on multiple occasions, and re-excavations of the panel. 06/19/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to several reasons of "no merit" Items in the IRL process	
1252-0106	01/00/00	PCC No. 9 and 11 - Remaining Budget	0				(71,885)		
1252-0107	12/13/12	Credit - North headwall panel N-2 at Moscone	7				(4,943)	During installation of the reinforcement cage at panel N-2 at the Moscone North Headwall a 1-inch dia. Polyester sling used for lifting could not be detached from the reinforcement cage. The slings were then casted in-place. SFMTA requested a credit CO for the CN 1300 contractor to demolish the concrete and slings and replace the structural concrete. 07/10/13 - NCR condition of the wall be provided in order to prepare engineer's estimate for credit amount. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0108	04/11/13	Credit - Secant pile SRV-H, UMS south headwall	7				(263)	During concrete placement, the dummy steel beam that was used to hold down the secant pile steel beam reinforcement for pile SRV-H @ the UMS south headwall could not be removed and was poured in-place. SFMTA requested a credit CO for the CN 1300 contractor to demolish this beam between El. 16.66' and the beam top. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0109	09/24/12	Credit - 65 feet of water pipe not installed at MOS	7				-0-	Contract Drawings WD-403 & WD-404 shows the 20" low pressure water line cutting through an area in the intersection where the joint trench is in the way. BIHJV's subcontractor, Synergy Project Management, with SFMTA's concurrence, installed the water line tie-in per a configuration which resulted in approximately 65' less line required to be installed. SFMTA requested a credit CO to eliminate 65' of the line.	
1252-0110	02/06/13	Credit - Switching of the 12" and 20" lines at MOS	3				(30,469)	It was discovered that the field locations of the 12" water line and 20" water line were actually "switched" from the location shown in contract drawing WD-402 Rev.0. SFMTA requested a credit CO as less 20" water line was required to be installed than was originally anticipated.	
1252-0111	07/16/13	Green St Shaft – Design Cost Impacts for Jet Grout	7				-0-	BIHJV: "BIH and CJA-NCC are in receipt of the SFMTA's revised submittal review comments for Submittal No 31.43.14-003 (review cycle 3) dated July 10, 2013, where the SFMTA determined that the previously submitted content does not fulfill the contract requirements. The submittal status was changed from "Approved" on March 21, 2013, to "Disapproved - Resubmit" on July 10, 2013. The SFMTA states that the submittal was reviewed in further detail and it was determined the submittal didn't fulfill the contract requirements. This new submittal determination will result in additional costs to the SFMTA." 07/24/13 - Information presented to CMB during review of Trend Log. CM Team preparing letter of no merit, due to disagreement of dwg shown. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0112	07/16/13	96	Micropiles @ UMS Tangent Pile SRB-H	2		Agree to Merit	07/31/13	+52,624	Excavation for battered secant pile SRB-H began on July 12. At approximate depth of 30'. CJN reported hitting an obstruction. Two, 36" and 45" long, No. 18, Dywidag bars were discovered within spoils of the first bite of the clamshell bucket. The 2-1/2" diameter bar was consistent with the micro piles installed in the previous contract. 07/24/13 - Draft merit evaluation presented to CMB. CM Team reported further investigation needed to verify survey location of micropiles. CMB requested a specific dwg of 1251 As Built of piles be presented at next CMB. 1251 Contractor will be put on notice referencing the CS CN1251 Ltr. #018 - Future Potential Costs Due to Incorrect Micropile Placement. 07/31/13 - Merit Approval presented to CMB - Agreed. Notification of Possible Micropile Obstruction to CN1252 and possible CN1300 work was sent to CN1251 Contractor. COR was rescinded. CLOSED; NO FURTHER ACTION	
1252-0113	01/09/13		Relocation of TBM Retrieval Shaft - Columbus Ave. Restoration	1				+261,057	Modify Bid Item GE-3 (Utility Demo, Sewer, Road Demo, Pavement Restoration, etc.) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Includes Utility Button Up and Site Restoration Only) 07/24/13 - Information presented to CMB during review of Trend Log. CMB requested LS Bid Item be broken-down based on contract work to see how much money would be put in to perform the restoration button up cost. In addition the CMB requested the item description be change to "Columbus Ave. Restoration" in order to not confuse it with PCC 10 Retrieval Shaft work. COMPLETE; NO FURTHER ACTION: CMOD #21	CMOD #21 Approved
1252-0114	07/24/13	97	Ellis Shaft – TAM ES2-01 and ES2-17	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within the drill spoils from two separate Ellis Shaft TAM installations, TAM ES2-01 and ES2-17 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit info presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0115	08/07/13	98	Ellis Shaft – TAM ES2-16	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-16 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit evaluation presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0116	08/08/13	99	MOS – AWSS Vault Over pour @ South Headwall)	2	CMB-0134	Agree to Merit Agree to Cost	09/25/13	+2,394	BIHJV: "While performing AWSS work at the MOS South Headwall, Synergy crews found the mechanical joint Tee bolts, required for the AWSS point of connection, to be completely encased in concrete. The concrete encasement appeared to be concrete over pour remaining from a previous contractor's AWSS vault wall pour." 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. 09/25/13 - Merit evaluation presented to CMB - Agreed. 09/25/13 - Eng. Est. presented to CMB for cost NOT TO EXCEED \$2,400 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0117	08/15/13	100	Ellis Shaft TAM ES2-08	2		Agree to Merit	08/28/13	-0-	BIHJV: "August 12, 2013, BIHJV's subcontractor, CJA-NCC, struck a hard unknown object while drilling the Ellis Shaft TAM ES2-08." 08/28/13 - Merit evaluation presented to CMB - Agreed CMB requested a investigation plan to be developed and included in this COR if the plan is implemented. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0118	08/23/13	101	Ellis Shaft TAM ES2-11	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-11 09/11/13 - Viewed at CMB during review of Trend/Change Log COR's. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0119	09/03/13	102	UMS Jet Grout Column 18 DSC Headwall	2				+13,758	While drilling down on column #18 at the UMS south headwall, BIHJV's subcontractor, CJA-NCC, encountered a hard unknown obstruction. 09/11/13 - Item reviewed at CMB mtg. during review of Trend/Change Log. 10/16/13 - DSC presented for merit approval - No action was taken by the CMB. The CM will investigate if the 1252 Contractor received the 1251 As built information by the start of operations. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0120	09/05/13	103	Retrieval Shaft Additional Slip Lining Pipe Qty	4				-0-	RFI 251.1 SFMTA Response: Specification 33 31 00 1.01.A.22 Sewer Work, states, " Slip lining existing 3-foot by 5-foot brick sewer with 16-inch and 24-inch diameter HDPE Pipe (polyethylene pipe) nominal size SDR 26." As such, slip lining is to be performed for both the 16" and 24" diameter HDPE pipe. Branches indicated in the supplied sketch to be relined along Stockton and Columbus are acceptable. In addition, the 33-ft long branch that crosses the alignment at CTL 86+35 must also be relined. Acceptable alternative (to fused HDPE) pipe materials and sizes for this branch can be proposed by BIH. BIH shall submit the propose alternative for this branch of pipe for SFMTA review. The use of coupled PVC is not acceptable." 09/11/13 - Item viewed at CMB mtg. during review of weekly Trend/change log. No dwg for this work only a table. CM Team working with designer to make the determination. Item now being tracked under PCC 16. CLOSED; NO FURTHER ACTION	
1252-0121	09/06/13	105	Retrieval Shaft Relocation of Seismograph	1				-0-	BIHJV: "BIHJV's instrumentation subcontractor, Wang, was directed to relocate one of the vibration monitoring devices (Seismograph) installed at the Retrieval Shaft area to monitor vibration induced by demolition operations of the existing Pagoda Theater building." 09/11/13 item reviewed at CMB meeting during review of weekly Trend/Change log. CMB doesn't agree with the relocation charge and requested a better definition of the item. 01/22/14 - Item viewed at CMB as an status update. SFMTA letter No. 241 sent to Contractor denying merit. CLOSED; NO FURTHER ACTION.	
1252-0122	04/19/13	89	UMS - Suspended Remobilization of Jet Grout Rig	7				-0-	BIHJV: "The SFMTA directed BIHJV/CJA-NCC to suspend the planned remobilization of the Jet Grout Rig at the UMS location due to external affairs with local UMS businesses." 09/11/13 - Item reviewed at CMB mtg. during review of weekly Trend/change log. CMB questioned the timeliness of the COR also requesting a better definition of the item. Item has been elevated to the Issue Resolution Ladder (IRL) process.	
1252-0123	09/10/13	104	Retrieval Shaft - Additional Sewer Slip Lining 16" HDPE Pipe	4				-0-	BIHJV: "BIHJV submitted RFI Nos. 275, 275.1 and 275.2 requesting clarification about specific sewer slip lining runs at the Retrieval Shaft, see Attachment Nos. 2, 4 and 6. The SFMTA responded, via RFI No. 275.2, stating that the slip lining is to be installed in a stacked configuration with the 24" over the 16" HDPE pipe, see Attachment No. 7. BIHJV and Synergy believe the SFMTA's response to install stacked HDPE slip lining pipes is additional work as the contract documents do not support this statement." 10/02/13 - Item reviewed at CMB mtg. during review of the weekly Trend/change log update. The CM states the DSC maybe eliminated. Waiting for a response from PUC now there is a as built condition. Letters are being written between SFMTA and SFPUC. 01/22/14 - Item viewed at CMB mtg as an update to potential cost exposure.	
1252-0124	Notification - 9/17/13, PCC - 12/11/13	PCC 17	Green Street Sewer Changes	2		Agree to Merit	9/25/2013	-0-	In preparation to beginning slip lining work at the intersection of Columbus/Green/Stockton, the Contractor performed a site investigation of the existing 3'x5' brick sewer. The Contractor discovered 4 unknown pipes intersecting the sewer. Received email from DPW on Oct 18 regarding proposed new direction to spray mortar sewer line in lieu of slip lining. DPW also requested additional slip lining on Columbus from Sta. 83+50 to Sta. 85+50. 09/25/13 - DSC presented for merit approval - Agreed. CMB directed the CM Team to ask the Contractor for recommendation to slipline as much of the sewer line as possible without rerouting the conflicting pipe lines. 01/22/14 - Item viewed at CMB mtg as a status update to projected cost exposure. Item will be tracked under PCC17.	

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Project Trend/Change Control Log

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1252-0125	10/24/13		PCC 14 Modifications to AWSS Facilities at 4th and Bryant Streets	1				+35,925	Deletion of 12" AWSS diagonal sleeved pipe crossing and hydrant lateral. Installation of 12" AWSS restrained pipe and hydrant lateral. 10/16/13 - Draft PCC reviewed at CMB. The Board is in agreement with the modification. 10/23/13 - Engineers estimate for new work \$136,478 and deleted work (\$163,382) was presented to the CMB. PCC will be forwarded to the Contractor to price the work. In addition a cost estimate will be done for the work which would have been under the 1300 contract. 04/16/14 - CMB authorize the RE to negotiate with the Contractor for a amount up to \$35K.	
1252-0126	10/14/13		108 Ellis shaft and Old Navy Grouting	2				-0-	BIHJV's subcontractor, CJA-NCC, claims to have discovered material (cemented zones) different than that described in the Geotechnical Baseline Report in the Ellis Shaft and Old Navy Grouting Zones. 10/23/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The CM stated this item will be rejected, due to a lack of information being supplied by the Contractor to validate the COR. SFMTA sent Letter No. 247 & 253 denying merit.	
1252-0127	10/25/13		FA CO 8 Remove and replace material at Retrieval Shaft CSM wall	1				+22,300	Contractor to remove hazardous material (approximately 250 CY) found in the footprint of the Retrieval Shaft Cutter Soil Mix (CSM) wall and replace with both clean material found on-site (approximately 190 CY) and import material (approximately 60 CY). 10/30/13 - Item reviewed at CMB during review of weekly Trend/Change log. Work to proceed on FA for a NTE amount of \$22,300.	
1252-0128	10/03/13		FA CO 7 Acceleration of Work Activities at Retrieval Shaft	1				+5,000	SFMTA to compensate BIHJV for premium time incurred on October 5th, 2013 to accelerate the completion of the site work and soundwall at the Retrieval Shaft. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. 01/22/14 - Item reviewed at CMB mtg as a status update to potential cost exposure.	
1252-0129	10/30/13		0 UMPs on 96-inch Sewer	2				-0-	BIHJV's subcontractor Wang Technology claims to have encountered a DSC (brick structure) while drilling for utility monitoring points on Howard Street. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0130	Notification - 11/8/13, PCC - 12/9/13		PCC 16 Ret Shaft Sewer Changes	2				-0-	BIHJV's subcontractor Synergy Project Management claims to have encountered the following DSCs while performing an investigation into planned slip lining work at the intersection of Columbus/Union/Powell: Internal clearance issues, unforeseen lateral connections, mixed debris and grease buildup inside sewer, and tighter radius than was anticipated for the planned junction structure. 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The Board suggested the CM Team ask the PUC to tell us what they would like the Contractor to do. 02/05/14 - FACO 10 was presented for consideration to add a 16" pipe. The CMB took no action. Direction was given to investigate the use of the pipe and to determine the most cost effective approach to reach PUC's desired equivalency of the 36" pipe removed.	
1252-0131	11/13/13		FA CO 9 Obstruction hit at CSM panel W6	2	CMB-0146	Agree to Merit Agree to Cost	12/11/13	+6,927	BIHJV's subcontractor Drill Tech claims to have encountered a DSC (unknown steel members) while performing Cutter Soil Mixing (CSM) on panel W6 at the Retrieval Shaft. 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. This item will be tracked on FA. 12/11/13 - Merit evaluation presented to CMB - Agreed. EE presented for cost NOT TO EXCEED \$9,000 - Agreed	
1252-0132	11/12/13		0 Material Hardness at Retrieval Shaft	2				TBD	BIHJV's claims to have encountered ground material characteristics that are significantly harder than anticipated based on the information provided during the negotiations of PCC 10 (Relocation of Retrieval Shaft). 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0133	PCC - 11/25/2013		PCC 15 Deleted AWSS Work at Union St and Columbus Ave	1				(187,181)	PCC 15 issued to: 1.) Delete all work associated with the removal and disposal of the Auxiliary Water Supply System (AWSS) utilities as shown on Contract Drawing No. AW-501.1 Rev.0. 2.) Delete all work associated with furnishing and installation of AWSS utilities as shown on Contract Drawing No. AW-501.9 Rev.0. Note: Monitoring of existing AWSS line to be performed in lieu of installation of new AWSS utilities. 12/11/13 - Item reviewed at CMB during review of weekly Trend/Change log. 02/19/14 - Cost revised based on Eng Est. and scoping meeting w/Contractor.	
1252-0134	PCC - 12/27/2013		PCC 18 Retrieval Shaft Site Supervision	1				-0-	PCC 18 issued to provide for the Contractor's supervision and engineering services during the compensation grouting activities at the Retrieval Shaft. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Change log. 01/29/14 - PCC presented for review. CMB agreed with change.	

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1252-0135	Notification - 12/18/13	Retrieval Shaft Comp Grout Array 045 Obstruction	2				-0	BIHJV's subcontractor, Drill Tech, encountered a concrete obstruction at the Retrieval Shaft location on December 17th, 2013 when performing survey layout of the design location for several of the comp grout holes in the 045 array. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Chang log. The CM reported the Contractor will be notified there is no merit for this change request. SFMTA denial letter No. 270 sent to Contractor.	
1252-0136	PCC - 02/20/2014	Installation of Piping, Conduit and Casing at Fourth Street Portal	1				TBD	PCC 19 issued to provide standpipe piping, telephone and train signal conduits, and casing at Fourth Street Portal. 02/26/14 CMB agreed on Jan. 29, 2014 with forwarding the PCC to the Contractor for pricing.	
1252-0137	03/07/14	North Beach Sewer Work	1	CMB-0152	Agree to Cost	03/12/14	-0	Contractor directed to proceed with work on a Force Account basis for 'Sewer Work on Columbus and Powell St (North Beach)' in accordance with Force Account Change Order No. 010 03/12/14 CMB authorized a NTE amount of \$10,000 to start negotiations with the Contractor on the forthcoming PCC 20 for the price of the plates. Contractor's written cost for standby required to complete negotiations.	
1252-0138	03/28/14	Curb Ramp Work at NE Corner of 4th and Harrison Streets	1				+4,500	Contractor directed to proceed with work on a Force Account basis to install modified curb ramps and additional sidewalk flags in accordance with Force Account Change Order No. 011. 03/26/14 - CMB authorized a FACO NTE amount of \$4500., which will be reimbursed by PG&E through the form B process.	
1252-0139	01/09/14	BART - Additional Load Cells					+1,066	BIHJV: "In accordance with the SFMTA's direction, BIH is providing two new fully functional load cells (the same model as currently installed in the BART tunnels) as well as two new DTI Squirters (the same model as currently installed in the BART Tunnels). It is BIHJV understanding that the SFMTA may decide to replace load cells #M1-75A and #M2-75A currently installed in the BART existing tunnels with the instruments hereby provided by BIH-JV and that the replacement operation will occur without BIHJV technical support."	
Contract 1252 Totals							+2,607,596	Total Changes and Potential Change (trends) to the contract are currently \$2,607,596 Out of Scope Changes to the Contract for Relocation of TBM (Trend 79, PCC 10) to be paid out of CPT690, funded separately. Not include in total above and being tracked separately from original Program Costs of \$1.5783B	
CONSTRUCTION TRENDS (Based on #1252 Trending Log and CMod) - SUBTOTALS:							+2,607,596	The \$2,607,596 represents an UNDERRUN of allocated contingency. Current Balance = (23,658,463 - 2,607,596 = \$21,034,616 This does not include potential reimbursements from utilities.	
DESIGN TRENDS									
FD-001	07/31/10	084-0001	Narrowing of Platform at UMS	1	CMB-0006	Agree	08/04/10	(800,000)	[In "Current Forecast" - Sep2010 Cost Report.]
FD-002	07/12/10	084-0002	Redux of Station Emergency Ventilation Fans (UMS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(2,000,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-002	07/12/10	085-0001	Redux of Station Emergency Ventilation Fans (CTS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(500,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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FD-002	07/12/10	086-0001	Redux of Station Emergency Ventilation Fans (MOS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(500,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-003	07/31/10	085-0002	Lowering of CTS	1	To be verified	Info Only	08/25/10	+7,000,000	Presented to CMB for information/consideration.
FD-004	07/29/10	084-0003	UMS Structural Configuration	1	CMB-0007	Agree	08/18/10	(8,000,000)	[In "Current Forecast" - Sep2010 Cost Report.]
FD-005	08/22/10	084-0004	UMS Alternate Station Access/Vent Shaft @ Union Square	1	CMB-0010	Agree	12/29/10	(22,500,000)	Documentation to be filed.
FD-006	08/03/10	084-0005	Station Headwalls - UMS	1	CMB-0008	Agree	08/18/10	-0-	
FD-006	08/03/10	086-0002	Station Headwalls - MOS	1	CMB-0008	Agree	08/18/10	-0-	
FD-007	08/03/10		Cross-passages	1	CMB-0018	Agree	09/15/10	-0-	
FD-008	07/30/10		Trolley Re-route @ Columbus & Powell	1	CMB-0017	Agree	09/15/10	+2,000,000	
FD-009	10/06/10	082-0003	ECP to Modify Sidewalk Vault Demolition and Construction Sequence to Facilitate Construction of Joint Utilities Trench and Future UMS Station	1	CMB-0019	Agree	12/15/10	+3,000,000	
FD-010	10/06/10	082-0004	Redesign Stockton Street Sanitary Sewer to conform to SFPUC Sewer Criteria that preclude placement of relocated sanitary sewer under sidewalks	1	CMB-0020	Agree	11/17/10	+2,000,000	
FD-011	10/06/10	082-0005	Reconfigure Routing of Water, Sewer and Gas laterals from buildings on north side of Ellis Street	1	CMB-0021	Agree	11/17/10	+500,000	
FD-012	10/06/10	082-0006	Recognize cost transfers from design allowances allocated to contingency to explicit line items in final design estimates	1	CMB-0022	Disagree	11/17/10	-0-	
FD-013	10/06/10	082-0007	Increase Extent of Sub-sidewalks Vault Secondary Closure Walls and Waterproofing	1	CMB-0023	Agree	11/17/10	+4,100,000	
FD-014	10/06/10	082-0008	Include OCS system for rerouting trolley buses to Fifth Street	1	CMB-0024	Agree	12/15/10	+3,100,000	
FD-015	10/06/10	082-0009	Subsidewalk Vault Secondary Closure Walls for Buildings at 800 Market and 838 Market	1	CMB-0025	Agree	11/17/10	+1,000,000	
FD-016	10/06/10	085-0003	Underpinning of Mandarin Tower	1	CMB-0011	over taken by FD-021	01/19/11	+5,000,000	Additional Information Pending.
FD-017	10/06/10	085-0004	CTS Ground Improvement	1	CMB-0012	over taken by FD-021	01/19/11	+10,300,000	Additional Information Pending.
FD-018	10/06/10	084-0006	UMS Apple Store Entrance	1	CMB-0013	Disagree	11/10/10	-0-	Additional Information Pending.
FD-019	10/06/10	086-0003	MOS TOD Configuration	1	CMB-0014	Agree	11/10/10	TBD	
FD-020	10/06/10	084-0007	UMS Emergency Stair #4 Relocation	1	CMB-0015	Agree	11/10/10	TBD	
FD-021	01/14/11	085-0005	CTS Lowering and Stations Reconfiguration	1	CMB-0027	Agree	01/19/11	(18,000,000)	Agreement with changes to project configuration only. Additional Information required related to cost and schedule impacts. No agreement on Design cost impact. Design costs directly related to this change to be tracked separately
FD-022	02/16/11	084-0008	Sewer Replacement along Geary & O'Farrell	1	CMB-0029	Agree	02/23/11	(134,000)	This trend has both an EPC number as well as a Construction Trend Number. See also Construction Trend No. 1251-0003
FD-023	11/17/10	087-0001	Emergency walkways through crossover cavern changed from outside the main tracks to between the main tracks.	1	CMB-0032	Agree	07/27/11		
FD-024	11/17/10	087-0002	Diamond crossover on surface segment to a tandem (universal) crossover.	1	CMB-0033	Agree	08/24/11	(350,000)	
FD-025	04/13/11	083-0001	Bid Option for TBM Retrieval Shaft		CMB-0034	Agree	04/13/11	(10,000,000)	Will require changes to Bid Schedule to incorporate Traffic, Utilities and Pavement Demo/Restoration as incidental costs to the Bid Option. Estimated DP1 cost impact is approx. 80-100 hrs. of engineering time.
FD-026	05/31/11	084,085,086	Air Replenishment System for Stations	1	CMB-0040	Agree	07/13/11	+1,245,000	Install air replenishment system at MOS, CTS and UMS to address the requirements of the SFFD Bulletin 5.07. The air replenishment system will be used to fill firefighter's self-contained breathing apparatus during firefighting operations in the three subway stations.
FD-027	07/21/11	082-0010	1 Stockton street (Apple Store) Secondary Closure Wall		CMB-0043	Agree	08/03/11	+500,000	1) Add secondary closure wall to supplement recently completed primary closure wall built by owner to isolate the sub-sidewalk basement of 1 Stockton Street (Apple Store). 2) Modify position of joint trench (and all associated conduits, ducts etc.) for secondary closure wall to be constructed.

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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FD-028	08/03/11	086-0004	MOS Revisions to Emergency Ventilation Requirements		CMB-0052	Agree	09/07/11	+500,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$321,645.	
FD-029	08/08/11	085-0006	CTS Revisions to Emergency Ventilation Requirements		CMB-0053	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$411,895.	
FD-030	08/08/11	084-0009	UMS Revisions to Emergency Ventilation Requirements		CMB-0054	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated 733,420.	
FD-031	10/31/11		Accessibility Improvements at the SE corner of Union Square (UMS)							
FD-032	10/31/11		Union Square Entrance Reconfiguration (UMS)							
FD-033	10/31/11		Additional Compensation Grouting due to Tunnel Settlement Alert and Trigger Levels (All Stations)					+21,040,000	ECP dated 11/17/11. ECP being routed for approval.	
FD-034	12/09/11		Operational Performance and Safety Enhancement at 4th and King		CMB-0062	Agree	12/14/11	+450,000	SFMTA Operations requested that the design of the 4th & King tie-in work be expanded to include a number of improvements at the junction involving the turn-back area extending to the scissors crossover at 6th & King. SFMTA Ops confirmed that the requested changes result in an arrangement that is consistent with standard operation practices and therefore does not involve new or unacceptable risks. CS 1553 Memorandum No. 0081. Conditionally agreed upon verification/resolution of Buy America issue for the switches. 3/14/12: "Buy America" issue no longer applicable. Revised ECP element - remove H&K switch machines and replace with hydraulic/120V switch machines such as Nortrak or equal.	
FD-035	06/26/12		Tunnel Air Replenishment System		CMB-0071	Agree	07/11/12	+1,215,000	Design and construct a fire fighter air replenishment system for Central Subway tunnel as described in SF Fire Code 511.2, Bulletin 5.07 except as noted in the Central Subway Request for Approval of Variance for the ARS to SFFD on March 5, 2012, and subsequently approved by SFFD. Design Impact: ROM - \$215K Construction Impact: ROM - \$1M	
FD-036	06/26/12		Surface Segment Sewers - 4th St.		CMB-0072	Agree	07/18/12	+2,200,000	Replace current unreinforced brick crown from 1906 as it may not be able to withstand loading for construction of the CS trackway section. Reconstruct manholes between Brannan and King Streets as existing are in conflict with proposed rail. Replace service laterals and provide sleeves for future replacement. Additional potential scope option of \$1.5M-Sewer and \$2.3M-Force Main may be requested. If so, it will be Cost to SFPUC	
FD-037	08/27/12		Platform Display System Signs		CMB-0077	Agree (Conditionally)	08/29/12	+500,000	Modify Stations (Contracts 1253, 1254 and 1255) and Surface, Track and Systems (Contract 1256) technical specifications and drawings for the Platform Display System (PDS) to match the changes made to the PDS units being supplied under the Integrated Systems Replacement (ISR) Project, Contract No.1260. 08/29/12 - CMB agreement condition upon follow up action to evaluate procurement by CN1260	
FD-038	11/7/2012 06/05/13		Elongated Sidewalk Bulb-out at Chinatown Station		CMB-0121	Agree	06/05/13	+36,000	CTS Sidewalk Bulb out (Southwest corner Stockton/Washington To bring the Central Subway Project - Chinatown Station in closer conformance wit the City's General Plan, SF Planning Department in its May, 2012 GPR Letter (recommends) making design changes specifically the extension of the sidewalk bulb-out at Stockton Street to help create a "station plaza". This elongated bulbout on the southwest corner (SWC) of Stockton and Washington Streets in front of the station headhouse would also include bike racks, benches, trees and other landscape features. 06/05/13 - CSDG designer estimate cost is not a CS expense. Add funding source will need to be establish by San Francisco Planning to support the investigation study Design Impact: Estimated Construction Cost ROM \$36,200 Construction Impact: Estimated ROM 97 Hrs.: DPW Pavement/Sidewalk Design Modification Estimated ROM 60 Hrs.: CSDG bus door/mirror/tree/bike rack coordination	

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CENTRAL SUBWAY PROJECT
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FINAL DESIGN TRENDS (Based on All ECPs) - SUBTOTALS							+4,902,000	Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	
OTHER TRENDS									
X51-001	07/31/10	082-0001	1251 Revised estimate, escalation impact and contingency.	7			+9,532,314	Cost Transfer #0033 (Base \$\$), 0033a (Allocated Contingency), 0036 (Base \$\$ Escalation , 0036a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0033, BT-0033-A, BT0036, BT-0036-A
X51-002	07/31/10	082-0002	Form B Credit for 1251 Utilities	7			(7,697,949)	Reserve and Contingencies removed as per communications with PG&E. This is consistent with the 1250 utility agreement. [Cost Transfer #0034 - Aug2010 Cost Report].	BT-0034
X52-001	07/31/10	083-0001	1252-(TUN) Revised estimate, escalation impact and contingency	7			(2,165,462)	Cost Transfer #0035 (Base \$\$), 0035a (Allocated Contingency), 0037 (Base \$\$ Escalation , 0037a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0037, BT-0037-A
X03-001	08/31/10	003-0001	OEWD's Pilot Training Program	7			+75,000	Workforce training pilot program in conjunction with the City/County's Office of Economic and Workforce Development (OEWD). Provides specialized training to SF residents to perform tunneling work. Central Subway financial responsibility being investigated. Requires further clarification	
X53-001	07/18/11	084-0001	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment YOY	7	CMB-0044	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X53-002	10/25/11		Change UMS Advertise Date to April 4th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X53-003	04/11/12	084-0002	CN1253 (UMS) Construction Budget Adjustment 90%				+55,720,600	CMB is currently vetting the 90% estimate of \$221,534,723 which represents a \$XX increase from the 65% base amount in 2010\$. Increase would deplete current YOY dollars and require use of unallocated contingency.	
X53-004	06/26/12	084-0002	Approve/Execute/Certify durations change for UMS Contract					Shortened the duration for Approve/Execute/Certify - UMS Contract from 40 to 24days to reflect an optimistic but doable duration for contractor submittals.	
X54-001	07/13/11	085-0001	CS 155-2 (DP2) CBP5 - Construction Budget Adjustment YOY	7	CMB-0045	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X54-002	10/25/11		Change CTS Advertise Date to May 23rd, 2012		CMB-0061	Agree	12/28/11	DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X54-003	11/02/11		Change CTS Advertise Date to February 8th, 2012					Change CTS Advertise Date from May 23, 2012 to February 8, 2012 (-74 working days)	
X54-005	12/06/11		Revisions to CTS Construction Schedule		CMB-0060	Agree	12/28/11		
X54-006	12/07/11	085-0002	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment - allowed	7					
X55-001	07/18/11	086-0001	CS 155-2 (DP2) CBP6 - Construction Budget Adjustment YOY	7	CMB-0046	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X55-002	10/25/11		Change MOS Advertise Date to June 25th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X55-003	11/02/11		Change MOS Advertise Date to May 23rd, 2012					Change MOS Advertise Date from June 25, 2012 to May 23, 2012 (-22 working days)	
X55-004	06/26/12		Change MOS Advertise Date to Aug 20, 2012					Change MOS to August 20, 2012	
X56-001	10/25/11		Change STS Advertise Date to July 27th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out the Station's Advertise Dates. STS Advertise Date is staggered from Station's Advertise Dates.	
X56-002	12/14/11		STS Construction Schedule Revision for Equipment Procurement						
X56-003	06/26/12		Change STS Advertise Date to October 1, 2012					Change STS Advertise Date to October 1, 2012	
X40-001	10/19/11	028-0001	SFPUC CDD Updated Budgets	7		Authorized	+505,127	1250 SFPUC CDD Monthly Service Report Final & 1251 SFPUC CDD Estimate	BT-0172, BT-0177
X80-001	10/19/11	071-0001	DP1: CS 155-1 Modifications No. 2 & 3	see Prof. Serv		Authorized	+560,585	Modification No. 2: \$395,584.59, Modification No. 3: \$165,000. Individual details listed in Professional Services. See trend 1551-0002,1551-0005 - 1551-0009	BT-0170, BT-0171, BT-0173
X80-002		071-0002	DP1: CS 155-1 Modification No. 4	7		Authorized	+135,898	Modification No. 4: \$135,898 Individual details listed in Professional Services. See trends 1551-0010 - 1551-0014.	BT-0187
X80-003	10/27/11	029-0001	Increase City Auditor Budget	7		Authorized	+50,220	Reduce unallocated Contingency to increase City Auditor budget as authorized in Budget Authorization #51.	BR#51, BT-0181

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X80-004	10/27/11	232-0001	Increase SFCTA Budget	7		Authorized		+20,000	Increase SFCTA budget per Budget Authorization #51 to conduct travel forecast (TEP CEQA Modeling) to satisfy PMO review and SFMTA Fleet Plan light rail vehicle.	BR #51, BT-0182
X80-005	7/1/10, 11/2/10,3/24/11	072-0001	DP2: CS 155-2 Modification No. 1	7		Authorized		+1,010,000	Modification No. 1: \$1,010,600 Individual details listed in Professional Services. See trends 1552-0002, 1552-0003 and 1552-0005.	BT-0194, BR#53
X80-006	5/6/10,7/25/11, 9/22/11	072-0002	DP2: CS 155-2 Exercised Options	see Prof. Serv		Authorized		+366,771	Individual details listed in Professional Services. See trends 1552-0001, 1552-0007 and 1552-0014.	BT-0023, BT-0194
X80-007	11/08/11	151-0001	Operations SFMTA Transit Services			Authorized		+50,000	CSP request services to support and test OCS for 30/45 trolley reroute. Authorized per Budget Revision #53	BR #53, BT-0189
X80-008	09/01/11	081-0001	SFMTA Safety, Training, Security & Enforcement Div PCOs	7		Authorized		+60,000	CSP request PCOs to support 1251 and 1252 construction for one year. Authorized \$60,000 per Budget Revision #45.	BR #45, BT-0190
X80-009	11/30/11	016-0001	SFMTA Sustainable Streets 30 and 45 re-route	7		Authorized		-0-	CSP request services to support 30/45 trolley reroute. \$162,600 was reduced from DPT staffing plan budget.	BT-0188
X80-010	11/09/11	073-0001	DP3: CS 155-3 Modification No. 1	7		Authorized		+152,882	Modification No. 1: \$152,882 Individual details listed in Professional Services. See trends 1553-0012 and 1553-0013.	BT-0203
X80-011	8/9/11, 9/22/11, 10/11/11, 11/9/11	073-0002	DP3: CS 155-3 Exercised Options	see Prof. Serv		Authorized		+1,026,398	Individual details listed in Professional Services. See trends 1553-0001 - 1553-0004, 1553-0006, 1553-0009 - 1553-0011, 1553-0014. Updated from \$971,686 to include Trend 1553-0014.	BT-0203
X80-012		151-0002	OCS materials procured directly for work in reference to CN1251 CMOD#12.		CMB-0065	Agree	1/25/2012, 2/29/12	+126,149	See also Trend 1251-0023	
X80-013	05/30/12	073-0003	DP3: Provide Vibration Impact Analysis and Extend PC Support Technical and CSP Quality Manager	1				+133,906	Amend #2: Vibration Impact Analysis \$38,380 Amend #3: PC Support Tech \$34,483; Quality Manager - \$61,043	TBD
X80-014	12/17/12		For combining the stations and track and systems into Contract 1300 (SSTS)	7					Combined all the Station ad Track and Systems into one Contract. Removed the buffer float activities from the satin to track and systems and overlapped work that can now be done concurrent.	
X80-015	12/17/12		Changing the Bid Opening date and condensing the Contract Duration for Contract 1300	7		Agree	11/14/12		Change bid opening to March 19, 2013 and reevaluated procurement durations, revised calendars for UMS Garage, revised production rates for steel. 11/14/13 CMB Agreed verbally to change @ Mtg #101	
X80-016	02/19/13		Change to Tunnel and CTS interface and buffer float Contract 1300 (SSTS)	7		Agree	01/23/13		Change (MPS) reducing the number of days currently in (from 550 calendar days from NTP to 450 calendar days) for the key interface between CTS and the tunnel completion. Reduced number of days will be issued as part of Add #3 of the 1300 contract. 1/23/13 CMB Agreed verbally to change @ Mtg #111.	
OTHER TRENDS (Based on Various Trends)								+59,662,439	Current Forecast reflects a net +3,537,933 unfavorable impact for all Other Trends.	
GRAND TOTALS								+67,172,035	Current Forecast reflects an estimated net +68,635,132 3 unfavorable exposure to the project to date. Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	

PROFESSIONAL SERVICES TRENDS: The following trends are listed for administrative purposes. The dollar amounts are reflected in the "Other Trends" section of this log in the form of cost (budget) transfers - i.e. CCOP's. The total values indicated for each professional contract are for tracking all potential cost exposures and may or may not be approved.

Contract CS-155-1

1551-0001	07/30/10		071-0001	Conform Contract Terms per Negotiations from 10/2/09 to 11/6/09	7			-0-	To be addressed in Amendment 1.	Amendment 1 Pending	
1551-0002	02/18/11		071-0002	Project Office Delay (Adjustments for OH Rate and Team Productivity impact)	7		Authorized	07/29/11	+101,411	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0003	02/18/11		071-0003	Additional Construction Support for CP-1	7						
1551-0004	02/18/11		071-0004	Redesign Required by Barney's and PUC for CP-2	7						
1551-0005	02/18/11		071-0005	Archeological Monitoring 16.20.C1 (total)	7		Authorized	07/29/11	+197,173	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved

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					Approval Action	Approval Date	Actual/Forecast		
1551-0006	02/18/11	Eyebolts	7		Authorized	07/29/11	+50,000	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0007		Secondary Closure Walls 800/838 Market	1		Authorized	07/29/11	+47,400	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0008		Delete Optional Tasks - Tasks 1-14	1				-0-	Deleted Options in the amount of (\$529,952) in Amendment has been reversed through Budget Authorization #50. COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0009		CTS Lowering	1		Authorized	12/08/11	+165,000	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1551-0010		Modify Sidewalk Vault Demo ECP-FD009	7		Authorized	12/08/11	+39,311	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0011		Modify Stockton St. Sewer ECP-FD010	7		Authorized	12/08/11	+4,112	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0012		Reconfigure Utilities N. Side Ellis ECP-FD011	7		Authorized	12/08/11	+2,448	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0013		Extend SubSidewalk Closure Wall ECP-FD013	7		Authorized	12/08/11	+85,233	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0014		Reroute OCS to Fifth St. ECP-FD014	7		Authorized	12/08/11	+4,794	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0015		Retrieval Shaft Redesign - Sewer By Pass	7				+56,000	Awaiting documentation from Designer	
1551-0016		Design Measures for Settlement Protection	7				+99,000	Awaiting documentation from Designer	
1551-0017		Incorporate Headwalls MOS/UMS	1		Disagree at this time	11/01/11	+42,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
1551-0018		Prepare Utility Composite	-		Disagree	11/01/11	+50,000	DPM responded that Program does not agree in letter dated November 1, 2011.	
1551-0019		Incorporate Cross Passages	1		Disagree at this time	11/01/11	+43,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
Contract CS-155-1 Total							+986,882	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP1 allocated contingency in the amount of \$696,483 of a total budget of \$705,000. Additional potential exposure is +\$391,411. Currently, overall contract value remains unchanged in the amount of \$6,500,000.	
Contract CS-155-2									
1552-0001	05/06/10	Optional Task 2.50 and Task 12.07	1		Authorized	05/06/10	+274,775	CS Letter 0473 from ED/CEO Optional Task 2.50 to support art enhancement activities NTE \$164,383 and Optional Task 12.07 to support design structures for Public Art NTE \$110,392.	
1552-0002	07/01/10	Expanded Hydraulic Testing at CTS	7		Authorized	07/01/10	+26,100	Estimated cost breakdown is included in the 7/1/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0003	10/11/10	Additional Soil Borings at UMS Station - Task No. 3.10 Supplemental Investigations	7		Authorized	11/02/10	+34,500	Estimated cost breakdown is included in the 10/11/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0004	02/11/11	MOS TOD White Paper Proposal	1				+33,847	Conceptual study will assess a potential high rise building at the Moscone station headhouse. Estimated cost breakdown is included in the 2/11/2011 letter from CSDG - On Hold .	
1552-0005	03/24/11	CTS - Alternate 5	7		Authorized	03/24/11	+950,000	CS Letter from DED dated 3/24/11 has agreed to a modification of \$950,000 for performing additional work. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0006	06/28/11	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment	7				-0-	Estimated cost of \$406,320 is included in the 6/28/11 letter from CSDG. See 1552-0006 Rev. 1 for most current estimate	
1552-0007	07/25/11	REVIT and CAD Support (to City Staff) Option to DP2 Contract (Optional Services Task 12.12)	1		Authorized	07/25/11	+79,200	CS Letter No. 0768 from ED/CEO dated 7/25/11 has authorized Optional Task 12.12 NTE \$79,200.	
1552-0008	08/03/11	MOS Revisions to Emergency Ventilation Requirements	-		Provide further Justification	09/07/11	-0-	CMB did not approve a \$60,000 proposed increase. Document References ECP FD028, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
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- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date			
1552-0009	08/03/11	072-0009	CTS Revisions to Emergency Ventilation Requirements	-	Provide further Justification	09/07/11	-0	CMB did not approve an \$80,000 proposed increase. Document References ECP FD029, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0010	08/03/11	072-0010	UMS Revisions to Emergency Ventilation Requirements	-	Provide further Justification	09/07/11	-0	CMB did not approve a \$100,000 proposed increase. Document References ECP FD030, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0011	08/17/11	072-0011	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment - Rev. 1	7			+426,322	Estimated cost breakdown is included in the 8/17/11 letter from CSDG. This is a revision to the 6/28/11 letter and cost breakdown.	
1552-0012	08/23/11	072-0012	Station Air Replenishment System	-	Disagree	10/17/11	+36,240	Estimated cost breakdown is included in the 8/23/11 letter from CSDG. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0013	09/01/11	072-0013	COR for Additional Services Related to MOS Constructability Review and Assessment of Alternatives	-			-0	Cost charged to Task 2.70- part of base work	
1552-0014	09/22/11	072-0014	Proposal for Additional Work to provide Structural Engineering Support (Optional Services)	1	Authorized Optional Task 12.01.C5 only	11/04/11	+35,724	Estimated cost breakdown is included in the 9/22/11 letter from CSDG. Referenced Optional Work Tasks 12.01.C5 and 12.07.C5 - Effort re-evaluated - proposed cost to be resubmitted. CS Letter No. 1232 dated 11/4/11 from Director of Transportation has authorized Optional Task 12.01.C5 for the amount of \$12,796.	Option
Contract CS-155-2 Total							+1,896,708	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP2 allocated contingency in the amount of \$1,046,324 of a total budget of \$4,890,707. Overall contract value remains unchanged in the amount of \$39,949,959.	
Contract CS-155-3									
1553-0001	08/09/11	073-0001	Authorization to commence optional tasks 9.20J Technical Specifications Item J Facility SCADA	1	Authorized	08/01/11	+259,305	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0002	08/09/11	073-0002	ation to commence optional tasks 12.05 Architecture	1	Authorized	08/01/11	+257,129	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0003	08/09/11	073-0003	Authorization to commence optional tasks 12.13J Facility SCADA Design	1	Authorized	08/01/11	+169,553	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0004	08/09/11	073-0004	Authorization to commence optional tasks 12.12E traction power cables for CAD production	1	Authorized	08/01/11	+52,800	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0005	09/19/11	073-0005	Proposal to hire Wilson Ibragimov to support Acoustics, Noise and Vibration tasks.	7	Authorized	03/08/12	+38,380	Signed by Director of Transportation 3/8/2012. COMPLETE, NO FURTHER ACTION ; Amendment 2	Amendment 2 Approved
1553-0006	09/22/11	073-0006	Proposal to exercise optional task 12.07 Public Art.	1	Authorized	11/04/11	+10,285	Letter dated 9/22/11 to DOM. PMCM response pending. Priced level of Effort assumed for this task. SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task.	
1553-0007	09/27/11	073-0007	Proposal to exercise optional sub-task 12.12 structural design of the OCS attachments.	7			+59,460	Letter dated 9/27/11 to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. PMCM has responded to clarify scope in stations and Tunnel Design. Awaiting resubmission of request by DP3	
1553-0008	10/05/11	073-0008	Scope Clarification - Add Emergency and Location Signage.	7	Disagree A.12.08-Signage	11/09/11		Letter dated 10/5/11 to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. CS Memo No. 0882 from DOM to DP3 PM considers A.12.08 Signage as part of the work necessary to complete the trackway elements of the scope. The work in question is considered part of the base scope of services.	
1553-0009	10/11/11	073-0009	Proposal to exercise mechanical optional task A 12.11 to design a water line on the FBS station platform.	1	Authorized	11/04/11	+33,000	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0010		073-0010	Proposal to exercise Task 12.01 Surface Segment site Drainage	1	Authorized	11/04/11	+108,240	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0011		073-0011	Proposal to exercise Task 12.02 Sewer Relocation and Analysis Report.	1	Authorized	11/04/11	+81,374	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1553-0012	11/09/11	073-0012	CTS - Alternate 5	7	Authorized	01/18/12	+88,855	Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0013	11/09/11	073-0013	Proposal for Geotechnical Services	7	Authorized	01/18/12	+64,027	Letter dated October 7, 2011 to DOM. PM/CM response pending. Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0014	02/06/12	073-0014	Authorization to commence optional tasks 12.12E traction power cables for CAD production, Optional task 2.50 Coordination with Art		Authorized	02/06/12	+54,712	SFMTA Letter 1381 from Director of Transportation dated 2/06/12 authorizing optional tasks 12.12e in the amount of \$41,280 and 2.50 for \$13,432 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0015	03/20/12	073-0015	Proposal for additional services in Response to Approved (ECP) FD-034 Operation Performance and Safety Enhancements to 4th and King and 6th and King.	1			+26,026	FD-034 was updated by CMB on 3/14/12. Proposal transmitted via letter CS1553 No. 0012 dated 3/20/12 to DOM. Amendment #4 PENDING	Option
1553-0016	03/23/12	073-0016	Proposal for additional work - Tunnel Air Replenishment System (Exercise Optional Service)	7	Authorized	04/26/12	+173,119	SFMTA letter 1658 from Director of Transportation dated 4/26/2012 authorizing \$173,119 in optional tasks. Included in FD-035 to be presented to CMB on 6/26/12	Option
1553-0017	05/14/12	073-0017	Extension of PC Support Technician	1	Authorized	05/04/12	+34,483	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0018	05/14/12	073-0018	Extension of CSP Quality Manager	1	Authorized	05/04/12	+61,043	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0019	04/09/12	073-0019	Authorization to commence optional task 12.02 Utility Plans for design of repositioned and reconstructed manholes for the 78 inch diameter sewer on 4th St.	1	Authorized	04/09/12	+52,712	SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.02 in the amount of \$52,712 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0020	04/09/12	073-0020	Authorization to commence optional task 12.12 civil and structural support for traction power duct banks	1	Authorized	04/09/12	+109,000	SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.12 in the amount of \$109,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0021	04/26/12	073-0021	Authorization to commence optional task 12.11 design of the tunnel based Air Replenishment System including fill panels, feeder pipes, gauges, valves, fire proofing, anchors, supports, low level alarms, wiring, signage, connections to SCADA and monitoring devices, equipment placement, and impact protection	1	Authorized	04/26/12	+173,119	SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing optional task 12.11 in the amount of \$173,119 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0022	04/26/12	073-0022	Increased authorization for optional task 12.12.e CAD production support	1	Authorized	04/26/12	+30,000	SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing the increase in optional task 12.12e in the amount of \$30,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0023	05/21/12	073-0023	Authorization to commence option task 12.11 structural design support for Fire Protection and Plumbing designs	1	Authorized	05/21/12	+39,204	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.11 in the amount of \$39,204 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0024	05/21/12	073-0024	Authorization to commence optional task 12.12 structural design support for Traction Power and Power/Lighting designs	1	Authorized	05/21/12	+43,638	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.12 in the amount of \$43,638 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0025	05/21/12	073-0025	Authorization to commence optional task 12.13 structural design support for Telephone and CCTV designs	1	Authorized	05/21/12	+24,328	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.13 in the amount of \$24,328 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0026	05/21/12	073-0026	Authorization to commence optional task 9.20 Technical Specifications for structural design support for above designs	1	Authorized	05/21/12	+3,039	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 9.20 in the amount of \$3,039 COMPLETE, NO FURTHER ACTION; OPTION	Option
Contract CS-155-3 Total							7,814,010.46	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP3 allocated contingency in the amount of \$1,168,995 of a total budget of \$4,598,725. Overall contract value remains unchanged in the amount of \$19,919,526.	

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Connecting people. Connecting Communities.

TITLE: Chinatown Plaza Construction Estima
PROJECT: Stations, Surface, Track & Systems
TO: Attn: Patrick Jennings
 Tutor Perini Corp
 15901 Olden Street
 Sylmar, CA 91342
 Phone: 510-665-3114

DATE: 11/1/2013
CONTRACT NO: CN1300
PACKAGE: CTS

DESCRIPTION OF PROPOSAL

Description of PCC:

Summary of Changes:

5,500 sf

The SFMTA is designing a Plaza of approximately ~~2,500~~ square feet over the CTS headhouse. Construction of the Plaza should occur during 2016 and 2017, once the below-ground facilities are in place. SFMTA plans to issue a Contract Modification to TPC for construction of the Plaza. The conceptual construction estimate is \$3.5 million. Conceptual plans are attached for reference. The SFMTA designer will prepare plans and specifications to conceptual construction estimate. TPC will provide construction estimating support to SFMTA designer at regular intervals during design process. The Contractor will provide construction estimating support as follows:

- Perform contract estimates for 65% and 90% design using ~~quantity take-offs provided by SFMTA designer. Anticipate 56 hour level of effort.~~ **30%,**
- Perform constructability reviews at 65% and 90% design to achieve cost within original conceptual construction estimate. ~~Anticipate 28 hour level of effort.~~
- Participate in design review meetings as required by SFMTA designer. ~~Anticipate 80 hour level of effort.~~

65% review will occur at approximately 120 days after execution of this modification with 90% review to occur at approximately 180 days after execution of this modification.

This work will be performed on a time and materials basis and compensated based on fully burdened hourly rate. The Contract Modification will be issued on a not-to-exceed amount. Hotel and per diem costs, if authorized by SFMTA, shall not exceed GSA per diem rates for San Francisco, California (<http://www.gsa.gov/portal/category/100120>). Costs for airfare, rental car and other transportation costs will be reimbursed at actual rates with no mark-up and shall be supported by receipts.

Contractor shall notify the City when the cumulative costs incurred by Contractor equal 80 percent of the Contract Modification not-to-exceed amount.

Contractor shall submit cost proposal based on fully burdened hourly rate supported by direct hourly labor rate and mark-ups.

The Contractor shall submit a cost proposal and time extension proposal in accordance with General Provisions Section 6.02 B and Section 7.02 B.

The Contractor shall submit a cost proposal and time extension proposal in accordance with General Provisions Section Article 6 and Article 7. Please structure your Cost Proposal based on the format contained in the Cost Proposal Format Attachment.

APPROVAL:

By: _____
 Patrick Jennings

By: _____
 Richard Redmond

Date: _____

Date: _____



Job Number: CN1300
Project Number: CN1300

CMB Trends

5/2/2014

Status	Number	Date	Package Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
Denied (Status)								
	00034	18-Apr-14	CTS CTS-DSC Unanticipated Vault Obstruc		Denied	Patrick Jennings		0.00 MTA directed to not expend resources.
	00033	18-Apr-14	CTS CTS-DSCBrick Requiring Hand Work		Denied	Patrick Jennings		0.00 MTA denied
	00026	17-Apr-14	CTS CTS COR 6 Sewer Line Demo at Washin		Denied	Patrick Jennings		0.00 MTA denied TPC's COR.
New Item (Status)								
	00046	24-Apr-14	YBM YBM 20" water conflict east wall	Other	New Item		100,000.00	Received RFI 530 on 4/23/14 of potential issue
	00040	23-Apr-14	STS PCC #10 230KV Casing at Bryant/4th	Private Utilities	New Item		20,000.00	PCC #10 4/23/14: cost updated to \$138,000 per rough order of magnitude.
	00039	23-Apr-14	CTS CTS-Hydroraise Teeth	Unforeseen Condition	New Item			0.00 Potential claim.
Open (Status)								
	00063	30-Apr-14	UMS UMS NDSC Hydrant N. of Geary	Unforeseen Condition	Open		25,000.00	NDSC was denied via Letter 174. Tutor's argument that the plans were not clear that the hydrant (& its associated lateral) had to be coordinated with the Type E Pile installation is unfounded. The drawings clearly show the hydrant lateral running over the southern portion of
	00062	30-Apr-14	UMS UMS Compensation Grout	Other	Open			0.00 SFMTA has stipulated in Letters 94 and 106 that it has not received detailed compensation grouting plans for review and approval. Letter 94 describes the issues that must be addressed in the grouting plan
	00061	30-Apr-14	UMS UMS Tangent Pile Work Delays	Other	Open		150,000.00	SFMTA issued Letter 132, bringing supposed Tangent Pile issue to head. TPC responded via TPC Letter 103, which SFMTA countered with Letter 155. Issue is currently outstanding with TPC Letter 121, CSDG developing response. However, tangent pile work began on 4/
	00060	28-Apr-14	UMS UMS W Shape Wale Supports	Other	Open		100,000.00	Advanced notice of COR was denied thru (SFMTA) Letter 171. TPC submitted (TPC) Letter 94 as advanced notification of pending COR for the increase in Shape of the W sections.
	00059	25-Apr-14	UMS UMS NDSC #8 Becho Obstruct C Pile	Unforeseen Condition	Open		11,000.00	NDSC was denied via Letter 170. Tutor/Becho failed to prove that the metal object (steel cylinder) they encountered was unexpected or unforeseen.
	00058	24-Apr-14	UMS UMS ND TCP at O'Farrell Pile Macys	Other	Open		10,000.00	NDSC was denied on Letter 166. Tutor maintains that they are not required to provide a sidewalk anywhere in the vicinity of Macy's Mens Store. The pile line is about 1'-6" from the face of Macy's Mens building. The Traffic Engineer laid out dimensioning showing that it would
	00057	24-Apr-14	UMS UMS NDSC Inadequate CDF	Unforeseen Condition	Open		15,000.00	NDSC was denied on Letter 163. Tutor has assumed CDF was placed under the utility relocation contract as a self-supporting back fill which would not require shoring for later work (UMS). Tutor claims that the CDF not being used 100% in several locations requires them to
	00056	24-Apr-14	UMS UMS NDSC #7 Becho Obstruct C Pile	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 160. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00055	24-Apr-14	UMS UMS ND & COR 3 AWSS Hydrant	Unforeseen Condition	Open		8,353.00	ND was denied on Letter 135 for CO for the Work to remove the AWSS hydrant at the Northwest corner of Stockton & O'Farrell. Tutor/Valverde resubmitted request. It was denied a second time.
	00054	24-Apr-14	UMS UMS NDSC Imprope TrafficSignal Line	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 168. Tutor/Valverde ran their sawcut blade too deep and hit/cut a traffic signal conduit and feeder that was about 8" to 12" below the underside of the slab. The traffic signals were knocked out of service, and crews had to wait until the signal shop
	00053	24-Apr-14	UMS UMS NDSC #6 Becho Obstruct C Pile	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 145. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00052	24-Apr-14	UMS UMS NDSC (e) Waterline Depth	Unforeseen Condition	Open		2,500.00	NDSC was denied on Letter 139. Tutor/Valverde used a saw cut to cut deeper than the 8" thick street (= 2" A/C wear surface + 6" Concrete Base). The saw cut blade cut through the water line, causing water leak out. It is improper to use a sawcut thicker than the depth of t
	00051	24-Apr-14	UMS UMS NDSC #5 Becho Obstruct C Pile	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 131. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00050	24-Apr-14	UMS UMS NDSC #4 Becho Obstruct C Pile	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 99. Tutor resubmitted. NDSC denied a second time. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00049	24-Apr-14	UMS UMS NDSC #3 Becho C Pile Obstruct	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 127. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00048	24-Apr-14	UMS UMS OCS Pole @ Market/Ellis	Other	Open		10,000.00	SFMTA has responded on Letter 110 that TPC will provide their sequence for construction and installation of piles at Market & Ellis St. TPC will also consult with their sub-contractor Becho about alternative drill rig positions to facilitate the pile installation. The Contractor also
	00047	24-Apr-14	UMS UMS NDSC #2 Becho BasemntWall Obst	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 100. Tutor resubmitted. NDSC denied a second time. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00045	24-Apr-14	UMS UMS NDSC #1 Becho Unknown Obstruct	Unforeseen Condition	Open		3,500.00	NDSC was denied on Letter 109. Tutor resubmitted. NDSC denied a second time. Tutor/Becho failed to prove that the objects they encountered were unexpected or unforeseen.
	00044	24-Apr-14	UMS UMS ND Ellis Street Access	Other	Open		0.00	ND was denied on Letter 101. TPC did not coordinate with BIH. TPC did not formally request access to Ellis St and did not formally notify SFMTA of potential delay.
	00043	24-Apr-14	UMS UMS ND Becho Pile Concrete Mix	Other	Open		0.00	ND was denied on Letter 116. Tutor/Becho did not substantiate the basis for the delay. The CPM schedule was not consistent with Becho's claim that the denial of their concrete mix design (due to permeability not meeting spec requirements).
	00042	24-Apr-14	UMS UMS NDSC Struc Concrete Beams Pile	Unforeseen Condition	Open		50,000.00	NDSC was denied on Letter 71. However, the cost could potentially be submitted as a claim.
	00041	24-Apr-14	UMS UMS NDSC Macys Mens Canopies	Unforeseen Condition	Open		0.00	NDSC was denied on Letter 69. Tutor did not properly evaluate the canopies at bid time, and did not review the as-built drawings close enough to determine the scope of work. Issue remains open as the canopy submittals (and the work involved) have not been approved ar
	00037	18-Apr-14	CTS CTS-Panel 45 DSC Obnoxious Odors		Open	Patrick Jennings		0.00 TPC put MTA on notice.
	00036	18-Apr-14	CTS CTS-DSC ContamSoil COR#7	Unforeseen Condition	Open			0.00 Ongoing
	00035	18-Apr-14	CTS CTS-DSC Unkown Conduits on Washingt	Unforeseen Condition	Open	Patrick Jennings		0.00 Costs captured by FACOs.
	00032	18-Apr-14	YBM YBM gas station contaminated materi	Other	Open	Patrick Jennings	15,000.00	Issue presented to CMB 4-16-14 - Agreed Work yet to be performed as of 4-18-14.
	00031	18-Apr-14	YBM YBM Concrete obstruction POC AWSS	Unforeseen Condition	Open	Patrick Jennings		0.00 Work yet to be performed as of 4-18-14.
	00030	18-Apr-14	YBM YBM Buried timber piles	Unforeseen Condition	Open	Patrick Jennings		0.00 Merit presented to CMB 4-16-14 - Agreed. Work not performed as of 4-18-14.
	00029	18-Apr-14	YBM YBM Additional analytical tests	Other	Open	Patrick Jennings	5,000.00	Test for SVOCs, organic pesticides and hexavalent chromium. Have yet to see bill from Tutor as of 4-18-14. Will have to be paid through Change Order.
	00023	2-Apr-14	STS STS-FACO #20 Add'l Soil Testing Req	Unforeseen Condition	Open	Patrick Jennings	5,000.00	Additional soil testing requirements.
	00022	31-Mar-14	UMS UMS-FACO#19 Street Light at Stockto	Unforeseen Condition	Open			0.00
	00021	17-Mar-14	YBM YBM FACO #14 Abandoned sewer not	Unforeseen Condition	Open	Patrick Jennings	0.00	Presented to CMB 3-12-14 NTE \$10,000 - Agreed Work completed on 3-6-14. Have yet to receive bill from Tutor as of 4-18-14.
	00020	17-Mar-14	YBM YBM FACO #12 Buried concrete wall	Unforeseen Condition	Open	Patrick Jennings	0.00	Presented to CMB 3-12-14 NTE \$15,000 - Agreed Increased NTE from \$15,000 to \$20,000 at CMB 4-9-14 - Agreed Work ongoing as of 4-18-14.
	00019	10-Mar-14	STS STS FACO #17 R/D Subsurface Layers	Unforeseen Condition	Open			0.00
	00018	10-Mar-14	STS STS FACO #16 Mitigate Subsurface	Unforeseen Condition	Open			0.00
	00017	10-Mar-14	CTS CTS-FACO #13 Remove a Water-Filled	Owner Directed CIP	Open	Patrick Jennings	1,000.00	Field work completed. TPC to submit FACO Summary.
	00016	10-Mar-14	CTS CTS-FACO #11 Relocate ASWW Fire Hyd	Owner Directed CIP	Open	Patrick Jennings	25,000.00	Field work is ongoing.
	00015	10-Mar-14	CTS CTS-FACO #10 NEW AWSS Fire HydrantW	Unforeseen Condition	Open	Patrick Jennings	65,000.00	Field work is ongoing.
	00014	10-Mar-14	CTS CTS-FACO #9 Add Traffic Signage @Po	Owner Directed CIP	Open	Patrick Jennings	1,000.00	Field work completed. TPC to submit FACO Summary.
	00012	10-Mar-14	CTS CTS-FACO #7 Relocate AWSS Fire Hydr	Unforeseen Condition	Open	Patrick Jennings	10,000.00	Field work completed. TPC to submit FACO Summary.
	00011	10-Mar-14	CTS CTS-FACO #6 TC for AWSS line Passin	Private Utilities	Open	Patrick Jennings	5,000.00	Field work yet to be performed.
	00010	10-Mar-14	CTS CTS-FACO #5 Unidentif 3" Metal Pipe	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary.
	00009	7-Mar-14	CTS CTS-FACO #4 Joint Trench Unid. Cond	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary.
	00008	7-Mar-14	CTS CTS-FACO #3 Enlarge Excavation SFWD	Other	Open	Patrick Jennings	10,000.00	Field work completed. TPC to submit FACO Summary
	00007	7-Mar-14	CTS CTS-FACO #2 Connecting (E) Ductbank	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary
	00006	22-Jan-14	STS STS Traffic Signal RFls	Errors and Omissions	Open		150,000.00	STS Traffic Signal RFls
	00004	11-Dec-13	CTS CTS Liquidated Damages Failure Traf	Other	Open		-3,500.00	On November 26, 2013, Tutor Perini workers closed Washington Street earlier than the approved as noted Traffic Control Plan allowed. Submittal 01 55 26.54-010 clearly stated the road is to be closed at 8:00 pm Tuesday, November 26th, 2013. Additionally, at 4:50 p.m. M
	00002	6-Dec-13	STS STS FACO #15 Add. ATT Manhole, PB	Private Utilities	Open		176,000.00	Description of PCC: 1. Furnish and install additional AT&T manholes and pullboxes (2 each 14"x6"x9" manholes, 3 each 3"x5"x4" Type T5 Pullbox, 4 each 2.5"x4"x3" Type T3 Pullbox). 2. Provide additional excavation and restoration for one each manhole and 4 each T3 pullb
	00001	12-Nov-13	CTS CTS-FACO #1 Potholing @Stockton&Was	Unforeseen Condition	Open	Patrick Jennings	13,000.00	You are ordered to perform work as follows: Proceed with Potholing work to locate the water lines, and other utility lines in the area that may interfere with the installation of the cross-connect and capping of the 12" line at the North West corner of Washington Street and Sto
Log Totals:							1,007,353.00	

Type	Number	Date	Package Title	Reason	Status	BIC Contact	Cost (\$)	Remarks
Proposed Contract Change (Type)								
	00001	18-Oct-13	CTS DEL of duct bank on Stockton to Sac		In Review	Patrick Jennings	-197,039.00	
	00002	24-Oct-13	UMS Modification to UMS Roof Composite		In Review	Patrick Jennings	-10,836.00	
	00003	5-Nov-13	GEN Change of date range to receive art		In Review	Patrick Jennings	0.00	
	00006	13-Dec-13	STS Add'l ATT Manhole, Pullboxes, Ductbank	Private Utilities	In Review	Patrick Jennings	20,000.00	
	00007	17-Jan-14	UMS UMS Geoprobe Credit	Other	New Item	Patrick Jennings	-30,320.00	
	00008	5-Mar-14	GEN GEN Tunnel Lowering	Other	New Item	Patrick Jennings	100,000.00	
	00010	23-Apr-14	STS PCC #10 230KV Casing at Bryant/4th	Private Utilities	New Item	Patrick Jennings	138,000.00	
Change Order Request (Type)								
	00001	3-Apr-14	CTS CTS Utility Conflict at WD Tie-In	Unforeseen Conditions	In Review	Richard Redmond	15,662.00	
	00002	3-Apr-14	UMS Grade 50 Steel inLieu ofA913 Grad70	Errors and Omissions	In Review	Richard Redmond	626,780.00	
	00003	3-Apr-14	UMS UMS -Remove AWSS Hydrant at O'Farrel		New Item	CLOSED	8,353.00	
	00004	3-Apr-14	CTS CTS Inspect of Sewer Culverts on S	Unforeseen Conditions	In Review	Richard Redmond	1,280.00	
	00005	4-Apr-14	GEN GEN-AT&T Changes Conduit Radius	Private Utilities	New Item	Richard Redmond	22,290.00	
	00006	4-Apr-14	CTS CTS Sewer Line Demo at Washing		New Item	Mike Kobler	37,624.00	
	00008	22-Apr-14	UMS Station&BART Entry azmat Abatement	Unforeseen Conditions	New Item	Jane Wang	86,189.00	
Negotiation (Type)								
	00001	19-Nov-13	CTS Chinatown Plaza Construction Estima		New Item	Richard Redmond	172,464.00	
Log Totals:							990,447.00	

Type	Number	Date	Package Title	Reason	Status	BIC Contact	Cost (\$)	Remarks
Change Order (Type)								
	00001	13-Sep-13	UMS BART Elevator Option 1 @ Powell		Closed	CLOSED	90,000.00	The Contract is hereby modified as follows: 1. Option 1 is to be exercised as per Spec Section SP-1, for the conceptual design of a new elevator at the existing Powell Street Station that extends to the BART platform level. The Contractor shall provide design submittals for t
	00002	22-Oct-13	CMOD # 2 Errata Final		Pending	Patrick Jennings	0.00	Whereas, during the bid period nine Addenda were issued to Contract 1300; and Whereas, the Agency issued a Conformed Contract 1300 incorporating the nine Addenda; and Whereas, minor errors were made in the conforming of the Contract; and Whereas, the Agency f
	00003	15-Nov-13	CTS CTS Work Safely Around Power Pole	Unforeseen Conditions	Pending	Patrick Jennings	25,956.00	The Contractor shall provide all labor, equipment, and materials to demolish the (E) building at 933-949 Stockton Street by working around the existing power pole and guy wire system adjacent to the North side of the building. They will work their way into the building from t
Contract Modification (Type)								
	00001	13-Sep-13	UMS CMOD #1 BART Elevator Option 1 @ Pow	Other	Approved	CLOSED	90,000.00	
Log Totals:							115,956.00	

Contract 1300 Totals 2,319,712.00

Job Number: CN1300
Project Number: CN1300

CMB Trends

5/2/2014

Pile E85, and the UD drawings note that the lateral must remain in service and must be phased/coordinated with pile installation

29 with no (apparent) issues as had been asserted by the Contract

It is not possible to place a 6' walkway along the south side (within the traffic lane) of the construction laydown area. Tutor denies that this is possible because the fencing will not be wide enough to fit their equipment. SFMTA also cited that the Macy's Canopy Removal and Storage submittal had not been approved yet, which precludes Tutor from beginning work in this area until shoring is installed. They had gone from the as-builts which showed CDF 100% supporting the existing sidewalk

Contractor was on site to perform the repairs

to the street

Contractor stated that they will be pot holing to investigate whether another location for the temporary pole is possible to meet the Contractor's desired sequencing. After the above information is provided to SFMTA another meeting will be held to discuss and hopefully resolve this issue. The phasing for the OCS pole shown in the OCS drawings is intended for roof beam installation. It is believed that the Contractor wishes to reconfigure the OCS before pile installation begins. This results in conflicts between

the full extent of the work has not been fleshed out. This will affect the work to install the Type J piles at the emergency egress stairs near Macy's Mens

On Monday, November 25 an e-mail message was sent to Brett Chabert and Gabe Bautista which included the time of the closure, and authorization to procure Police Officers for the closure. The police officers showed up at 8:00 pm November 26th, 2013 for the scheduled closure.

Changes: 3. Provide additional 568 linear feet of 2'x4' ductbank. Delete 394 linear feet of 3'x6' ductbank and 720 linear feet of 4" conduits. 4. Additional potholing at six locations.

Stockton Street intersection to determine if sufficient space exists for connection, as shown on the attached sketch "Request to FA Pothole Stockton and Washington.pdf". The Gatebook Page – 7 Detailed Page – A-1174 shows this to be a 8" connection to a 12" and an 8" line, probably installed in 2005, attached. The work specified above will be paid for on a force account basis as set forth in Section 6.05, Force Account Work, of the General Provisions. Payment for this work will not be allowed with

the 3-stop elevator service from the mezzanine level to SFMTA and BART platform levels, as described in SP-29B for review by SFMTA and BART: 1. Draft (100% complete) Conceptual Design, including conceptual design drawings, draft preliminary specifications, calculations, elevator manufacturer's catalog cuts and data, field measurements. 2. Final (100% complete) Conceptual Design, including updated conceptual design drawings, draft preliminary specifications, calculations, elevator manufacturer's catalog cuts and data, field measurements. 3. Provide additional 568 linear feet of 2'x4' ductbank. Delete 394 linear feet of 3'x6' ductbank and 720 linear feet of 4" conduits. 4. Additional potholing at six locations. Now therefore, the Contract is hereby modified as follows: 1. Article 3.04 UNFORESEEN OR DIFFERING CONDITIONS Delete paragraph F in its entirety and replace with the following: F. As provided in Public Contract Code section 7104 and the process set forth therein, the City will grant a Change Order if the City determines, in its sole discretion, that the conditions reported do materially so differ, or do involve hazardous waste, and cause a change to the Northwest corner, 903 Washington building area and create a work platform to pull the Washington Street wall into the footprint of the building.

CMB Trends

n several piles and the OCS pole and associate guy wires. We believe is possible if the Contractor installs most of the pile work, then stops pile installation activity to reconfigure the OCS pole and cabeling, that they can perform th

out an executed Contract Modification. Work under this Force Account Change Order shall not exceed \$13,000 without an approved supplemental Force Account Change Order. The Contractor shall notify the SFMTA promptly in writing when costs under this

ufacturer's catalog cuts and data, based on review comments from SFMTA and BART. The final conceptual design shall be completed no later than 120 days following a design kick-off meeting with SFMTA and BART. The Contractor, Contractor's designers, and the eleva
i decrease or increase in Contractor's cost or time to perform all or part of the Work; the City will grant such Change Order if granted at all, only as provided in Article 6 of these General Provisions, and/or as a Contract Time extension as provided in Article 7 of th

Job Number: CN1300

Project Number: CN1300

Corr.Contractor

5/2/2014

Letter No	DSC No.	Title	Date	Respond Date	SFMTA Letter No	Status
17	Y	Notice of DSC - Vault Obstruction	31-Oct-13	11/4/2013		29 No additional cost and time impact
18	Y	Notice of DSC - CTS Brick requiring Hand Work	31-Oct-13	11/4/2013		28 No Merit. Denied
38	Y	Notice of DSC Unforeseen Conditions Unknown Conduits on Washington Street	20-Dec-13	12/24/2013		57 Merit, track the cost
42	Y	CTS Unknown Tank Obstruction	7-Jan-14	1/10/2014		66 FACO #10
44	Y	NDSC Unknown Conduits on Washington Street	13-Jan-14	1/21/2014	Transmittal 409	FACO #4
45	Y	Notice of Differing Site / Unforeseen Conditions-Macys Means Canopies	16-Jan-14	1/23/2014		69 No Merit. Denied
46	Y	Notice of Differing Site / Unforeseen Conditions-Down Spouts North of Washington Street	17-Jan-14	1/22/2014		68 Merit, FACO#4
47	Y	Notice of Differing Site Conditions-Structural Concrete, Beams and Waterproofing	17-Jan-14	1/24/2014		71 No Merit. Denied
53	Y	DSC Settlement of 4th Street Pavement Panels	10-Feb-14	2/21/2014		89 Proceed on FA
57	Y	Bechos NDSC 1 Unknown Obstruction at UMS	19-Feb-14	2/21/2014		90 No Merit. Denied
58	Y	Bechos NDSC 2 Retaining Wall - Basement Wall Obstruction	19-Feb-14	2/21/2014		91 No Merit. Denied
61	Y	UMS Notice of DSC - RFI 275 Street Light at Stockton and O'Farrell	25-Feb-14	3/31/2014		134 FACO #19
67	Y	Bechos NDSC 1 Unknown Obstruction at UMS	27-Feb-14	3/3/2014		99 No Merit. Denied
68	Y	Becho's NDSC 2 Retaining - Basement Wall Obstruction	27-Feb-14	3/3/2014		100 No Merit. Denied
72	Y	Notice of Differing Site Condition YBM Buried Concrete Wall	28-Feb-14	3/4/2014		98 Merit, FACO#12
74	Y	NDSC - STS Subsurface Debris	4-Mar-14			
76	Y	Notice of Differing Site Condition - YBM Abandoned Sewer Line (Not Slurry Filled)	5-Mar-14	3/13/2014		109 Merit, FACO#14
86	Y	UMS- NDSC Water Line Depth at O'Farrell and Stockton	14-Mar-14	3/17/2014		114 No Merit. Denied
88	Y	Notice of Differing Site Conditon Insufficient Allowance (CTS AL-4) - Class II Contaminated	19-Mar-14	4/1/2014		137 Merit
90	Y	Becho's Notice of Differing Site Conditions 3-Obstructions at Type C Piles 3E, 5E & 7E	21-Mar-14	3/24/2014		127 No Merit. Denied
91	Y	Becho's Notice of Differing Site Conditions 4-Obstructions at Type C Piles 2E & 6E	21-Mar-14	3/24/2014		128 No Merit. Denied
92	Y	Becho's Notice of Differing Site Conditions 5-Obstructions at Type C Piles 8, 10, 13, 15 & 1	24-Mar-14	3/26/2014		131 No Merit. Denied
95	Y	Laynes Notice of Differing Site Conditins YBM Station Headwall Existing Soldier Beam	27-Mar-14	4/1/2014		136 Contractor to provide additional info
99	Y	Response to SFMTA's SLN 0114 - NDSC Waterline with Improper Cover	28-Mar-14	4/2/2014		139 No Merit. Denied
100	Y	Notice of Differing Site Condition -Improperly Installed Traffic Signal Line	28-Mar-14	4/4/2014		143 No Merit. Denied
102	Y	Bechos DSC 6 Obstruction at Type C Pile 17E S	1-Apr-14	4/3/2014		141 No Merit. Denied
104	Y	UMS Notice of Differing Site Conditions Inadequate CDF at Type B Piles	1-Apr-14	4/21/2014		163 No Merit. Denied
105	Y	BECHO's DSC # 6 Supplemental at Type C Pile 17E S	2-Apr-14	4/8/2014		145 No Merit. Denied
107	Y	Notice of Differing Site Condition Insufficient Allowance CTS AL4 Class II Contaminated Sc	3-Apr-14	4/8/2014		146 Contractor to provide an estimate
110	Y	Notice of Differing Site Condition YBM Subsurface Obstruction	3-Apr-14	4/11/2014		153 No Merit. Denied
111	Y	YBM Differing Site Conditions @ H-Line	11-Apr-14	4/18/2014		161 FACO #22
114	Y	NDSC Obnoxious Odors at CTS encountered at Slurry Panel P-45	10-Apr-14	4/17/2014		159 Contractor to proceed on FA
119	Y	Becho's DSC 7 Obstruction at Pile C01W-NS	16-Apr-14	4/18/2014		160 No Merit. Denied
122	Y	NDSC and Change Order Request 8 - UMS Station BART Entry Hazmat Abatement	21-Apr-14			
128	Y	UMS BECHO's NDSC #8 Obstruction at Pile C01W	23-Apr-14	4/28/2014		170 No Merit. Denied
133	Y	Notice of Differing Site RFI-522.1 Unknown Pipe in North Bulkhead Pile Linie	24-Apr-14	4/29/2014		173 No Merit. Denied
134	Y	Notice of Differing Site RFI-522 Hydrant North of Geary West Side of Stockton	24-Apr-14	4/29/2014		174 No Merit. Denied
135	Y	Notice of Differing Site Condition - Hard Rock Encountered at CTS wall Panel P-43	25-Apr-14	4/29/2014		172 No Merit. Denied

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Trend Log

Contract Cost Estimate and Allocated Contingencies										
Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
Contract 1250 - Utilities Relocation #1 (Portal & MOS)										
1250-0001	04/15/10	081-0001	Delete Option MF-OPT1 "Fire Protection Sprinkler System"	1	N/A			(50,000)	Cleared City Attorney's Office; to Shahnam for execution. [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1250-0002	05/07/10	081-0002	Changes to Sewer on 4th between Howard and Folsom	2	CMB-0001	Agree	07/12/10	+107,174	Differing conditions as AWSS is directly over existing sewer; unable to install sewer manhole per plan. [In "Current Forecast" - Sep2010 Cost Report.] No reimbursement from SFPUC Sewer. COR #2-\$34,135; COR #5-\$73,039 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1250-0003	05/28/10	081-0003	Quantity Adjustment for JT-6 and JT-7	4	CMB-0002	Agree	08/04/10	+192,420	In April 2010 pay app, JT-6 bid qty exceeded by 344% (230 vs. 1021) and JT-7 bid qty exceeded by 112% (500 vs. 1060) [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1250-0004	07/02/10	081-0004	Demolition of existing brick and concrete footing on 4th between Howard and Folsom	2	CMB-0003	Agree	07/12/10	+170,000	Unforeseen bricks and concrete footing discovered on east side of 4th Street between Folsom and Howard. [In "Current Forecast" - Sep2010 Cost Report.] COR #3-RFI #76 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1250-0005	04/20/10	081-0005	Modify AWSS at 4th/Bryant and 4th/Harrison	3	CMB-0004	Agree	08/04/10	+586,000	At 4th/Bryant, AWSS conflict with new 48" sewer and AT&T duct bank. At 4th/Harrison, AWSS conflict with 18" sewer. [In "Current Forecast" - Sep2010 Cost Report.] No reimbursement from SFPUC AWSS. PCC #2: RFI #s 34, 49 & 51 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1250-0006	04/29/10	081-0006	Install four additional piles and reinforce existing foundation at 401 4th Street	2	CMB-0005	Agree	08/25/10	+130,000	Existing foundation was discovered to be part brick and part concrete, which is different from plan. Also, foundation was unstable and required additional reinforcement. Refer to RFIs #85R1, 88-1, 100, 101, 102 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved
1250-0007	10/06/10	081-0007	Additional work to install 48" sewer due to various utility conflicts at 4th/Bryant	2	N/A			+32,964	48" RCP sewer in conflict with existing AT&T duct bank that needs to remain in service until new joint trench is installed to enable switchover. This conflict forced contractor into a more expensive means to install sewer. Also, 48" RCP sewer in conflict with existing 30" force main and 24" steel pipes. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1250-0008	10/06/10	081-0008	Relocate TPC vault on 4th Street between Howard and Folsom	6	N/A			+19,500	Contractor uncovered existing TPC conduits on top of AT&T duct bank on 4th near Howard, a differing site condition. An AT&T intercept vault is to be installed, however, TPC conduits can not reside inside AT&T intercept vault. Joint Trench utilities participation cost TBD. Executed on 10/14/2010. Refer to RFI #62 (\$19,500) Expected Reimbursement from TPC. RE has provided documentation of notification to TPC, July-August '10. See final 1250 Form B actual costs COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1250-0009	10/06/10	081-0009	Install additional sewer and provide temporary connections at 4th/Stillman	3	N/A			+47,000	Location of existing sewer to be intercepted differs from where it's shown in the plan, hence additional sewer to be installed. Also, due to optional sewer MH not buildable until (E) AT&T DB is removed, additional sewer is necessary to tie into (E) main as interim. New sewer is supposed to tie into optional MH. No reimbursement from SFPUC Sewer. RFI #91 COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
					Approval Action	Approval Date	Actual/Forecast			
1250-0010	10/06/10	081-0010	Perform AT&T wye cast connection and chipping of existing duct bank at various locations	6	N/A			+48,181	AT&T was supposed to tie-in its own facility. However, AT&T's contractor, who is hired to install vaults, stated it is not in their scope of work. Refer to RFI #82.1. AT&T intercept vault at 4th/Harrison can not be installed at design location due to utility conflicts. AT&T vault to be shifted a few feet instead of vault being on top of existing duct bank. This will cause additional excavation, joint trench and modification to existing duct bank. Joint Trench utilities participation cost TBD. SFMTA and AT&T are negotiating with Contractor. (\$48,181) Expected Reimbursement from AT&T. RE has provided documentation of notification to AT&T, Sept-Oct '10. See final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1250-0011	10/06/10	081-0011	Remove existing piles and shoring at 801 Howard	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0012	10/06/10	081-0012	Additional work related to AT&T facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0-	This is the total of all force account work related to AT&T facility. SFMTA to seek reimbursement from AT&T through the Form B process. (\$67,798) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0013	10/06/10	081-0013	Additional work related to PG&E facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0-	This is the total of all force account work related to PG&E facility. SFMTA to seek reimbursement from PG&E through the Form B process. (\$30,547) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0014	10/06/10	081-0014	Remove brick wall at sewer sta 152+94 (west side) on 4th between Howard and Folsom.	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0015	10/06/10	081-0015	Archaeological Findings - Charges for rental of steel plates, triton barriers, shoring and labor for maintenance.	2				+784,771	Midden deposits were discovered on 4th Street between Howard and Folsom. Contractor stopped work. Contractor requesting payment for rental charges of trench plates, barricades, and shoring, and cost of maintenance. Total cost exposure is projected through end of November 2010. The \$290,703.00 is expected to be the final estimate for the rental of trench plates, barriers and shoring. \$597,000 Arch, \$179,000 DIFF, \$8,500 Traffic COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20
1250-0016	10/06/10	081-0016	Additional AWSS modification at 4th/Harrison	1	CMB-0016	Agree	11/10/10	+156,418	New alignment is proposed by Design team. No reimbursement from SFPUC AWSS. COR #33 Supplemental COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1250-0017	10/06/10	081-0017	Protection Work at PG&E Vault 1611	6				-0-	Expected Reimbursement from PG&E or work to be deferred \$6,400. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0018	10/06/10	081-0018	Demolition and Support Work at PG&E Vault 1611	6				-0-	Expected Reimbursement from PG&E or work to be deferred \$25,000. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0019	10/06/10	081-0019	Extended overhead delay claim due to Archaeological discoveries	2					Old Note: Potential delay claim if issue extends project duration. Amount is estimated at \$3,000.00 per day for 60 days (\$180K). New Note: By exercising all option work, additional 84 calendar days is added to the contract time. In addition, midden mitigation will start on 10/7/10. As a result, the potential for extended overhead cost is averted. This trend has been superseded by Trend #37. COMPLETE, NO FURTHER ACTION	
1250-0020	10/06/10	081-0020	Sewer modification under I-80 freeway at 2 locations	3				+39,062	Inverts of existing sewer where new sewer will tie into are found to be different than shown in plan and would create a reverse slope. Additional pipe and manhole are required to fix slope. Refer to RFI Nos. 2S01 and 147. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1250-0021	10/06/10	081-0021	Install new AWSS lateral including hydrant at NW 4th/Harrison	2					Existing AWSS lateral at SW 4th/Harrison is in conflict with new 18" sewer. Instead of modifying the lateral to avoid the sewer, a new lateral at NW corner is a preferred solution. CM awaiting design revision from Design team. Trend No. 21 is combined with Trend No. 22.	

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- 2 - Unforeseen Conditions
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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
					Approval Action	Approval Date	Actual/Forecast			
1250-0022	10/06/10	081-0022	Install additional 30 feet of DIP and new AWSS at 4th/Harrison	2	CMB-0026	Agree	01/12/11	+160,908	AWSS Point of connection on 4th Street was found to be cast iron instead of ductile iron as shown in DPW as-built. Due to this differing condition, additional length of pipe needs to be replaced and lead joint to be installed in order to install a ductile iron tee. Also, existing AWSS hydrant lateral is in conflict with new 18" sewer. The preferred solution was to install a new ductile iron lateral at a different location rather than installing vertical offsets on an existing cast iron lateral. No reimbursement from SFPUC AWSS. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1250-0023	10/06/10	081-0023	Steel plates and shoring standby for 2 months due to PG&E delay at Clementina	3				+24,981	Sewer at Clementina was delayed by 2 months due to PG&E vault conflict. PG&E will not pay cost of steel plates and shoring standby because PG&E drawings were sent to MTA during design phase and PG&E was not made aware of the conflict then. COMPLETE, NO FURTHER ACTION; CMOD #13	CMOD #13 Approved
1250-0024	10/06/10	081-0024	Utility support and work around for AT&T facilities	6	CMB-0048	Agree	08/24/11	+95,311	Contract specs specified AT&T to compensate contractor directly for workaround & support. AT&T refused to pay Synergy. Synergy considers AT&T's refusal as a changed condition to CN 1250 contract. (\$95,311) Reimbursement from AT&T. See Final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1250-0025	10/06/10	081-0025	Utility support and work around for PG&E facilities	6					Contract specs specified PG&E to compensate contractor directly for workaround & support. PG&E negotiated \$100,000 directly with Synergy and will pay synergy directly as well.	
1250-0026	10/06/10	081-0026	Utility support and work around for SFWD facilities	3	CMB-0028	Agree	02/09/11	+66,510	Total cost known to date (10/5/10) of all SFWD support and workaround. See COR #12, 20, 32 and 35. Agreed amount is total of COR #12, 20 and 32. Total exposure is equal to agreed amount plus COR #35. No reimbursement from SFWD. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #20 Approved
1250-0027	10/06/10	081-0027	Trucking and labor support for Archaeological mitigation	2				-0	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are charges up to end of November 2010 only. Additional charges are expected which will be tracked as Trend No. 28. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0028	12/08/10	081-0028	Trucking and labor support for Archaeological mitigation, Part II	2				-0	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are expected charges beyond November 2010. COMPLETE, NO FURTHER ACTION	CMOD #14 Approved
1250-0029	12/08/10	081-0029	Cost overrun for bid item UD-10 "Additional excavation and backfill"	4	CMB-0036	Agree	05/04/11	+112,500	Bid item UD-10 is to pay for excavation of connection hole and kill hole for SFWD line. Contract only included 200 cubic yard for this work. The size of excavations is dictated by field conditions and per the direction of SFWD inspector. RE's estimate of the total volume of dirt to be excavated is 630 cy. Examples of differing conditions encountered are: location of existing water line is different than where it's shown in the plan, existing waterline where shown in the plan to be connected to is inactive, differing condition at 5th/Clementina, connection holes and kill holes need to be expanded due to other utilities in the way. COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1250-0030	12/08/10	081-0030	Supplement bid item GE-4 "Allowance for differing site conditions" related to the installation of publicly owned facilities only (sewer, water, AWSS, Joint trench)	4	CMB-0030	Agree	04/13/11	+235,595	This change order is to supplement GE-4 for cost overrun related to the installation of publicly owned infrastructure only. GE-4 cost overrun for installation of privately owned infrastructure is being tracked separately and a separate change order will be issued. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0031	12/08/10	081-0031	Unused allowance for bid item GE-8 "Allowance for cast-in-place utility vaults"	4				-0	Bid item GE-8 is an allowance to pay contractor for designing and constructing cast-in-place manholes as required for installation of new systems. Only one CIP vault was installed. Credit amount included in Trend #43	
1250-0032	12/08/10	081-0032	Unused allowance for bid item UD-5 "Handling and disposal of Class I Hazardous Waste"	4				-0	Bid item UD-5 is an allowance to pay contractor for handling and disposal of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1250-0033	12/08/10	081-0033 Unused allowance for bid item UD-6 "Transportation of Class I Hazardous Waste"	4				-0-	Bid item UD-6 is an allowance to pay contractor for transporting of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	
1250-0034	12/08/10	081-0034 Cost overrun for bid item TR-6 "Allowance for manual traffic control"	4	CMB-0037	Agree	05/04/11	+68,820	Bid item TR-6 is an allowance to pay for off-duty police officers and parking control officers. Contract allowance amount is \$50,000.00. Contract specs calls for police officers at 4 intersections (4th/Howard, 4th/Folsom, 4th/Harrison and 4th/Bryant). The average cost of 1 police officer is about \$800.00 per day (\$100.00 per hour). The \$50,000.00 allowance is only good for 60 days for 1 police officer. Hence, additional money was needed for traffic control support. Final amount paid police officers is \$87,500.00. Additional billings for parking control officers (from Al Herce of DPT) is forthcoming; RE estimated this bill to be about \$60,000.00. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1250-0035	12/08/10	081-0035 Premium cost for requesting contractor to accelerate work on 4th Street between Howard and Folsom	2				-0-	Due to archaeological discoveries, many trenches remained open and the project would not have enough time to complete installation of underground utilities and restore the roadway before the Holiday season. Without accelerating the work, the project would have had to pay rentals for the barriers, street plates and shoring for the unfinished trenches that would have remained. By accelerating the work and DPT allowing the contractor to work through the beginning of the Holiday Moratorium, the project avoided these rental costs, which is estimated to be greater than the premium cost of accelerating the work. COR Not submitted by Contractor CLOSED COMPLETE, NO FURTHER ACTION	
1250-0036	12/08/10	081-0036 Rental/Maintenance costs for support of Archeological Trenches (Part 1 of 4) \$255,840; Support Work During Archeologist Mitigation Efforts (Part 2 of 4) \$199,741; Mobilization and Equipment Standby Costs (Part 3 of 4) \$67,728; Additional Overhead/Indirect Costs During Archeological Delay Period (Part 4 of 4) \$124,186	2	CMB-0041	Agree	07/13/11 02/15/12 07/25/12 09/12/12	-0-	Due to archaeological discoveries, contractor may potentially claim for compensation for his equipment that were idle for the duration of the waiting period. RE's estimate is based on Caltrans rate for equipment standby for 5 months (May to October). RE has not received any change order request related to this item. RE to verify if his equipment were indeed idle during this time period. 2/15: Rental/Maintenance Costs for Support (Part 2 of 4); Addl Work as Result of Archeological Shutdown (3 of 4). 07/25: Revised mod - compensation for 1 of 3) Rental/Maintenance, 2 of 3) Addl Work result of Archeological support, 3 of 3) Addl OH/Indirect cost. RE to add Equipment Standby time to revised mod. 09/12: RE to Prepare Modification 10/29: CMod 20 is being issued as a unilaterally change, by the SFMTA that represents the SFMTA's estimate of a fair and reasonable final compensation amount for the additional work. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0037	12/08/10	081-0037 Compensation for loss of production, inefficiency and disruption of work due to archaeological discovery	2				-0-	Due to archaeological discoveries, contractor may potentially claim for compensation for loss of production, inefficiency and disruption of work. RE has not received any change order request related to this item. Amount shown is a ROM cost by the RE. RE expects a COR from the contractor but change justification is very unlikely. Initial draft COR was \$898,453. RE has adjusted to \$661,559 removing the month of October and option work. This was then revised to 800,000. There has been no official submittal from Synergy. SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log. COMPLETE, NO FURTHER ACTION	
1250-0038	03/18/11	081-0038 Project Delay due to archaeological discovery and PG&E Issues.	2				-0-	Due to archaeological discoveries compounded with PG&E's ability to perform service switchover to Olivet University and de-energize a live duct bank in conflict with 48" sewer. The project will realize an estimated 6 weeks of non-compensable delay to the substantial completion date of 4/6/11. 47 days estimated by RE. -0- Contractor submitted COR 51 in the amount of \$1,144,776.74 on September 1st, 2011. RE responded requesting additional backup on October 19th, 2011. Subsequently, no additional information has been provided by the contractor, therefore, SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log.	
1250-0039	05/18/11	081-0039 Remove BP-4 (Waterproofing) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$40,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1250-0040	05/18/11	081-0040	Delete SW-8 (24" Sewer) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$73,117. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-0041	05/18/11	081-0041	Delete UD-5 and UD-6 (Class I Off haul and Handling) from Contract	4				-0-	Bid items were not used. Contractor requesting compensation to recover for General Conditions cost. Bid items total amount is \$150,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-0042	05/25/11	081-0042	Delete GE-6 (Hazmat) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$100,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A
1250-9001	10/06/10	081-9001	Utility Companies refusal to contribute to utility support costs and work-around. (Voided. Recorded individually in TR-0059-TR-0061.)	7						VOIDED
1250-0043	08/03/11	081-0043	Unit Rate Adjustment for Entire 1250 Bid Items	4				(333,904)	Pursuant to General Provision GP-11, COR is to adjust contract value to account for fix overhead costs for bid items not performed or where the bid item performed varied by 25%. COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
Contract 1250 Totals								+2,694,211	Total Changes to the Contract in the amount of \$2,694,211, represents a \$740,834 OVER RUN of the original allocated contingency of \$1,953,377. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$162,992 will offset some of this OVER RUN. Final Contract Closeout Total \$11,968,150 will be reduce by \$2,275,419 Utility Reimbursement credits for a Final Program cost of \$9,692,731 for CN 1250	
Contract 1251 - Utilities Relocation #2 (UMS)										
1251-0001	03/18/11	082-0001	Modify traffic control plan by establishing a single travel lane on Stockton St. in lieu of time-based multiple lane requirements as stipulated in contract plans TR-001 to 004.	7				-0-	After discussions with the Contractor and the Union Square Business Improvement District (BID), the SFMTA determined that modifying the lane requirements along Stockton St. and implementing the alternate pedestrian walkway design would be beneficial to the execution of CN 1251 in the following ways: increased public safety, increase construction production, and create a more pleasing environment to the public and merchant. COR #1 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1251-0002	03/18/11	082-0002	Installation of reinforced concrete slab underneath Joint Trench along Stockton at O'Farrell (East Side). CTL 133+66.37 (27.08 LEFT) to CTL 134+00.87 (27.08 LEFT)	1&3	CMB-0035	Agree	04/20/11	+67,634	Pursuant to a commitment between Barney's and SFMTA, Emergency Stair #4 (to be constructed in CN 1253) must avoid existing subsidewalk basement. It was determined that moving the conflicting stairs would require the Joint Trench to be constructed in a manner that would enable it to span the excavated area. The addition of the invert slab allowed for the needed span thereby allowing for a relocation of Emergency Stair #4. COR #4; PCC #1 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1251-0003	03/18/11	082-0003	Adjust placement of 3EA manholes along Geary Street and O'Farrell Street. The modified manhole locations require the installation of approximately 265LF of additional HDPE pipe inside the existing 3'x5' brick sewer.	1	CMB-0029	Agree	02/23/11	+148,919	During future station construction, the design team anticipates that excavation related settlement may cause damage to the brick sewers along Geary and O'Farrell Streets. This proposed modification will replace the vulnerable brick sewer within the influence zone with HDPE pipe that will not be as susceptible to settlement-induced damage. COR #9, PCC #2 COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1251-0004	04/06/11	082-0004	Changes to Neiman Marcus secondary enclosure wall due to various differing site conditions.	2	CMB-0031	Agree	04/13/11	+189,584	Due to various differing site conditions as described in RFIs 15, 37, 38 and 44, changes to the secondary enclosure wall are required. The existing footing were found to be inconsistent, i.e. missing footing in one area, footing sticks out beyond existing wall, overpour on existing footing, existing wall to be 6" into private property. Contract plan SR-302 shows a consistent footing. COR #8 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0005	04/06/11	082-0005	Existing PG&E conduits were found on top and parallel to existing AWSS on Geary Blvd. at 2 locations (east and west of Stockton)	6				+66,084	Contract plans AW-501.1, 501.2, 501.4 and 501.4 show the existing AWSS to be replaced in place. However, existing PG&E conduits were found to be on top and parallel to the existing AWSS resulting in extra work in working around and/or shifting the existing electrical conduits. Contract plans JT-308 and 309 showed the existing electrical and AWSS to be separate. Estimate includes \$77,892.53 (Synergy FA Request) + \$25,000 (first digging west side) + \$10,000 (temp backfill during moratorium) + \$15,000 (plate rental west side at \$5k per month). Estimate does not include Synergy's cost to sequence his work. Updated projected cost impact from \$50,000 to \$127,893 based on compilation of force accounts received. RE negotiating COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
1251-0006	04/20/11	082-0006	Design changes to utilities on Stockton street between Post and Geary	1	CMB-0039	Agree	06/08/11	+398,624	Due to changes to the limits of the UMS Station on Stockton Street between Post and Geary, the original utility design has changed. COR #24, PCC #4 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0007	04/20/11	082-0007	Design changes to utilities on Ellis Street	1	CMB-0049	Agree	08/24/11	(434,957)	Due to changes to the limits of the UMS Station on Ellis street, the original utility design has changed. PCC #5 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0008	04/20/11	082-0008	Elimination of underpinning at 150 Stockton	1					Based on field verification, it was determined that underpinning is no longer needed. Contract bid item SR-9 is for a total amount of \$116,000 measured by LF. However, CM team does not anticipate to recover the full amount because contractor may be entitled to retain general conditions cost and some excavation cost that was already performed but encumbered in Bid Item SR-9. Agreed credit of (\$58,000) to be included in Trend #60. CLOSED, NO FURTHER ACTION	
1251-0009	04/20/11	082-0009	Additional cost for police officers and/or Parking Control Officers for traffic control.	4	CMB-0038	Agree	06/01/11	+261,584	Contract bid item TR-7 for manual traffic control in the amount of \$120,000 is insufficient to control traffic for the duration of the contract. The \$120,000 allowance only equates to one police officer for a duration of 7.5 months. At a minimum, it is anticipated that one police officer or PCO will be needed at Stockton/Post for the entire contract duration of 16 months. Additionally, one PCO is required for each intersection at Geary/Stockton and O'Farrell/Stockton. COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1251-0010	05/25/11	082-0010	Accelerate Stockton east between O'Farrell and Market	1				+27,409	Contractor needed to rent additional excavators to work concurrently with the other block on Stockton between O'Farrell and Market. Amount: \$27,409; COR #25 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1251-0011	06/22/11	082-0011	Potholing at 4th/Howard for PUC sewer design	1					Request from MOS utility design team to pothole for the intercept of a 36" force main sewer and 96" sewer. PUC requested that this be done in order to ensure that we have accurate utility information to avoid costly change orders during construction. Per direction from CMB on January 18, 2012, this request is denied. COR #50, PCC #6 CLOSED, NO FURTHER ACTION: Per direction from CMB on January 18, 2012, this request is denied.	
1251-0012	07/06/11	082-0012	Additional cost to lower the AWSS at O'Farrell, east of Stockton, due to numerous existing utility conflicts.	2	CMB-0042, CMB-0050	Agree	8/3/2011, 9/21/2011	+278,351	The AWSS is in conflict with AT&T, PG&E and several other utilities and needs to be installed under all these utilities at about 11' deep (instead of 6' depth as noted in Plan AW-501.4, sheet note #5). During negotiations with the Contractor several items of work were found to be missing for the original cost estimates which increase the amount to \$278,351. RFI #76, COR #31 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved
1251-0013	07/06/11	082-0013	Accelerate start of construction in front of Macys West by trenchless construction method	7				-0	Micropile installation on Stockton east between O'Farrell and Market has proven to be much slower than anticipated. To mitigate this potential delay, contractor requested to start construction in front of Macys West. -COR 32 (CMB 0055 approval - see also Trend CN1251 #'s 04 & 10) COMPLETE, NO FURTHER ACTION; CMOD #3 (No Cost Change)	CMOD #3 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1251-0014	07/21/11	082-0014	Increase in Bid Item WD-10, Allowance for Additional Excavation and Backfill.	3	CMB-0055	Agree	09/14/11	+191,779	This allowance is for the contractor to perform additional excavation, backfilling and restoration associated with the water tie-ins and capping for the distribution piping system. The contractor has performed two water service tie-ins at an average cost of \$14,000 per tie-in. The current number of tie-ins and capping is 35 separate points. This amounts to a total cost of \$490,000. The current contract allowance amount is \$100,000, therefore an additional \$390,000 will be needed to augment bid item. CMB made a partial approve of up to \$200K. The initial Contract Modification to supplement this allowance is in the amount of \$191,778.62. RE's cost analysis of this trend confirms that the initial CMod amount of \$191,778.62 is sufficient to cover for all water tie-in/capping work. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1251-0015	08/03/11	082-0015	Additional traffic signal work at Post/Stockton	1				+17,530	Modification of the traffic signal at Post/Stockton is required to implement the detour shown in contract plan TR-010. There are no bid item to bill this work. COR #19 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0016	08/03/11	082-0016	Additional traffic signal work at Sutter/Mason	2				+32,054	Existing conduits shown in Plan ET-101 differs from what is actually in the field. City's response to RFI 73 directs contractor to install new conduits and conductors. RFI #73; COR #33 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0017	08/03/11	082-0017	Furnish and install AT&T Manhole 5830 on O'Farrell Street	6	CMB-0051	Agree	09/21/11	+25,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$25,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0018	08/03/11	082-0018	Furnish and install AT&T Manhole 5829 on Geary Blvd.	6	CMB-0051	Agree	09/21/11	+31,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$31,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0019	08/03/11	082-0019	Extend joint trench and modify existing AT&T Manhole 403 on Ellis Street.	6	CMB-0057	Agree	10/26/11	+31,000	AT&T was supposed to furnish and install AT&T vault #5833 on Ellis Street. The current design was to intercept the existing AT&T conduit in the middle of Ellis Street. It was discovered that the existing AT&T conduit actually run adjacent to the southern curb line along Ellis Street. Therefore, AT&T requested SFMTA for Synergy to extend the joint trench approximately 200 feet to the West and tie into their existing AT&T vault #403. This work will also require Synergy to enlarge vault #403 to accept the additional conduit. Note: The agreed amount (\$31,000) is for enlargement of vault #403 only; the additional 200 feet of trench to be captured in the JT bid items. (See Trend 60) COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0020	09/07/11	082-0020	Change PG&E conduit material from PVC to GRS on west side of Stockton between Geary and Post	6	CMB-0058	Agree	11/02/11	+19,537	PG&E requested to use GRS material in lieu of PVC in areas where PG&E conduits were expected to be exposed and temporary supported during future UMS station construction. PG&E agreed to reimburse SFMTA (\$19,537) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0021	09/07/11	082-0021	Revise PG&E service points and layout of primary lines at various locations, and delete Muni Vault 1850 A at Stockton/Ellis.	6					PG&E made changes to the locations of the service points and layout of some of the primary lines. In addition, due to changes to the limits of the UMS Station on Ellis Street, it was determined that Muni Vault 1850A is no longer needed. Cost for this trend is captured in Trend #31 or CMod #12. CLOSED; NO FURTHER ACTION. Cost for this trend is captured in Trend #31/CMod #12	
1251-0022	09/07/11	082-0022	Change OCS supports at SF Hilton Hotel on Mason Street from embedded eyebolts to poles w/foundations.	7					During the design phase the representatives of the Hilton Hotel agreed to and signed a license agreement with the SFMTA to allow embedded eyebolt supports. Hilton's Dir of Property Ops now wants to have OCS poles rather than the embedded building eyebolt supports. However, the OCS designer was able to revise the OCS design to eliminate the need for either eyebolts or poles in front of Hilton Hotel, resulting in a \$2,000 credit. CLOSED; NO FURTHER ACTION. Applicable bid items to be adjusted accordingly, See Trend #60.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
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1251-0023	09/07/11	082-0023	4th Street & Folsom Trolley Bypass	1	CMB-0065	Agree	1/25/2012, 2/29/12	+405,440	SFMTA Operations has requested a bypass be installed at 4th Street and Folsom Street. \$242,619 in labor costs for OCS installation has not been negotiated yet. 1/25: Condition agreed upon verification material from Contractor to be procured is available. (Verified 02/01/12). 02/29: CMod negotiated cost has been revised to incorporate original three items and the add'l OCS work on Folsom St. COR #52; PCC #7 Updated projected cost impact from \$490,000 to \$405,440. Cmod #12 (Formally CMod #15) COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1251-0024	09/07/11	082-0024	Install a 5" slurry wall between the gas line and wet utilities if the separation is less than 3 feet	6	CMB-0059	Agree	11/16/2011, 05/02/12	+201,411	As a new requirement, PG&E had requested that a 5" slurry wall be installed between the gas line and wet utilities where the separation between the 2 utilities is less than 3 feet. PG&E agreed to reimburse SFMTA (\$201,410) through the Form B process. COR #58 COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1251-0025	09/07/11	082-0025	Additional PG&E conduit crossings at Geary and O'Farrell to minimize service interruption during future UMS Station construction	6					PG&E requested to install additional conduits crossing Stockton Street at Geary and O'Farrell to minimize service interruption during future UMS Station construction. PG&E agreed to reimburse SFMTA through the Form B process. This item is captured under applicable JT Bid item, see Trend 60. CLOSED; NO FURTHER ACTION. Item is captured under applicable JT Bid Item, See Trend 60.	
1251-0026	09/14/11	082-0026	Install cantilever footing in lieu of regular OCS foundation at 2 locations on Mason Street between Geary and O'Farrell	2					The sub-basement in the public parking garage at O'Farrell/Mason extends beyond the property line up to the curb line. Therefore, regular foundations as per original design could not be installed. CLOSED; NO FURTHER ACTION. Item is captured under applicable OCS Bid Item, See Trend 60.	
1251-0027	09/20/11	082-0027	Accelerate installation of AT&T facilities in order for AT&T to start cut-over sooner	1	CMB-0056	Agree	11/30/11	+281,435	Acceleration is necessary to avoid potential delay impacts to Central Subway follow-on contracts. COR #40 COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1251-0028	10/18/11	082-0028	Furnish and install AT&T Manholes 5828 (Stockton), 5831 (Geary), 5832 (O'Farrell) and 113 (O'Farrell)	6	CMB-0057	Agree	10/26/11	+157,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$157,000) through the Form B process. COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0029	10/26/11	082-0029	Rebuild existing AT&T vault 133 at Post/Stockton and demolish existing AT&T vaults 403 (Ellis) and 113 (O'Farrell)	6					Vault 133 rebuild is superseded by Trend 40. Demolition of existing vaults 403 and 113 is superseded by Trend 43 CLOSED; NO FURTHER ACTION. Demo of existing vaults 403 and 113 are superseded by Trend 43. (See CMOD #23)	
1251-0030	10/26/11	082-0030	Enlarge existing PG&E vault 873 at SW Geary/Stockton	6	CMB-0058	Agree	11/02/11	+46,366	PG&E asked SFMTA to enlarge vault 873. PG&E agreed to reimburse SFMTA (\$46,366) through the Form B process. CMB approved a NTE amount of \$40K COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0031	10/26/11	082-0031	Additional PG&E conduits crossing O'Farrell on east side of Stockton (Task Order #32)	6	CMB-0058	Agree	11/02/11	+17,193	PG&E asked SFMTA to install additional conduits. PG&E agreed to reimburse SFMTA (\$17,193) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0032	11/08/11	082-0032	Excavation and restoration cost for PG&E gas tie-in and kill holes.	6	CMB-0059	Agree	11/16/2011, 05/02/12	+92,292	PG&E gas drawings were not included in the bid package and there was no bid item to capture this work. Gas drawings was issued by PG&E in June 2011. PG&E agreed to reimburse SFMTA (\$92,292) through the Form B process. Updated projected cost impact from \$202,400 to \$169,087 due to reduction in number of kill holes from 18 to 15. 04/11: Discovery of actual number of Kill/Tie locations being 26 instead of 15 will require confirmation from PG&E of the locations and the new cost of scope of work. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1251-0033	11/23/11	082-0033	Install secondary enclosure wall at One Stockton (Apple Store)	1	CMB-0068	Agree	03/07/12	+408,700	Additional enclosure wall is design initiated change. COR #47, PCC #9 Updated projected cost impact from \$262,484 to \$408,700. 39 Calendar Day Time Extension COMPLETE, NO FURTHER ACTION; CMOD #13 (formally CMOD #14)	CMOD #13 Approved
1251-0034	01/10/12	082-0034	Install temporary support as required to protect existing live utilities that are encroaching into the City right-of-way in front of 17-25 Stockton Street.	2	CMB-0069	Agree	04/04/12	+337,548	Existing utilities that are in active service were discovered in the City public right-of-way and are obstructing the performance of Contract work. Worst case scenario - "Not to Exceed" value) CM team will report actual amount value at a later date COR #71 CMB agreed to a Not-to-Exceed amount of \$346,456 on 4/4/12. All physical work was scheduled to complete by 4/13/12 COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1251-0035	01/11/12	082-0035	Potholing on Stockton between Post and Geary for UMS Station design	1					UMS Design Team requested 1251 to pothole (6'Wx12'Lx8'D) on Stockton between Post and Geary to locate existing piles and tie-backs at Union Square. Cost for this scope of work from the Contractor is \$19,870.73. Per direction from the CMB on Jan 18th this request is denied and the DP2 designer will cover this potential future obstruction with a note on the drawings. COR #53 CLOSED; NO FURTHER ACTION. Per direction of CMB on 1/18/12, this request is denied and DP2 Designer will cover this potential future obstruction with a note on the drawings.	
1251-0036	01/11/12	082-0036	Install three 6" PG&E conduits from vault 5800 to PG&E "A" pullbox at 4th/Bryant.	6					CN 1252 Contract is requesting 1251 to install PG&E conduits in order to bring power in advance of the tunnel equipment arrival. The scope of work, which involves trenching at the busy 4th/Bryant intersection, was part of the 1252 contract, hence, a credit of same amount (\$54,892.07) to be due back to 1252. Based upon a field meeting and discussions with BIH on Jan 17th this work will be done under CN 1252 as originally planned. COR #55 CLOSED; NO FURTHER ACTION. Based on field meeting with BIH on 1/17/12; this work will be completed under CN 1252 as planned.	
1251-0037	01/17/12	082-0037	Install sewer lateral from the Gucci building (240 Stockton) to the main sewer on Maiden Lane. Work will involve plumbing modification inside building to raise invert.	3	CMB-0078	Agree	09/12/12	+27,428	After field investigation, the existing sewer lateral was found to connect to the Stockton main near Geary. However, the location where the lateral is connected to the main is inside the footprint of the UMS station, in which the main is shown in the contract plan to be slurry filled. The contract plan shows the lateral to be connected to the main on Maiden Lane but is not possible due to invert problem. At the CMB meeting on 1/18/12, Albert Hoe reported that he had instructed the design team during the design phase to investigate this lateral and make the connection to the sewer main at Maiden Lane. RE was asked to investigate if this could be a possible error and omission by the sewer design. (See Trends #44 and 45) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0038	01/04/12	082-0038	Reimburse Synergy for JCDecaux work to remove kiosks	1	CMB-0064, CMB 0080	Agree	1/04/2012, 10/24/12	+29,273	JCDecaux refused to remove the remaining (2EA) kiosks without being paid for work already completed. The CMB approved on 1/04/12 Task Order No. 35 (Removal of 3EA sidewalk kiosks) as requested for the work already completed. On 10/24/12 the CMB approved Trend #38 removal of the remaining 2EA kiosks; work already completed and paid for as part of the approved CMB 0064 dated 01/04/12 for a total of 5EA kiosks removed. Total work priced at \$29,268. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0039	01/17/12	082-0039	Furnish and install 2ea benches along 5th Street	1				+4,752	Requested by Muni Operation. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0040	02/15/12	082-0040	Furnish and install AT&T Manholes 133 at Post/Stockton	6	CMB-0070	Agree	04/11/12	+45,000	AT&T requested SFMTA for Synergy to rebuild manhole 133 at Post/Stockton. COR #64 AT&T agreed to reimburse SFMTA (\$45,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0041	02/15/12	082-0041	Install additional 55 LF of AT&T trench to extend conduits from vault 5832 to vault 113 on O'Farrell Street	6	CMB-0070	Agree	04/11/12	+23,704	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. COR #63 AT&T agreed to reimburse SFMTA (\$23,704) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1251-0042	02/15/12	082-0042	Install additional 95 LF of AT&T trench to extend conduits from vault 5831 to vault 129 on Geary Blvd.	6	CMB-0070	Agree	04/11/12	+31,525	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. AT&T agreed to reimburse SFMTA (\$31,525) through the Form B process. COR #62 COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0043	02/15/12	082-0043	Force account work for demolition of existing AT&T vaults 113 (Post/Stockton) and 403 (Ellis)	6	CMB-0076	Agree Conditionally	10/03/12	+52,607	Agreed cost shown in Trends 29 and 40 is for installing vaults only. Cost to demo existing vaults is tracked on force account (estimated cost at \$15k each vault). AT&T agreed to reimburse SFMTA (\$52,607) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 72 & 80) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0044	02/15/12	082-0044	Install new sewer lateral from Macys West on O'Farrell including plumbing modification inside Macy's building.	3	CMB-0078	Agree	09/12/12	+11,438	Contract plan SW-4 shows an existing lateral to be connected to new main. However, the 8" lateral is too big to be connected directly to the new 14" main necessitating a new connection to the manhole. However, numerous existing utilities were in the way and required installation of a new lateral at a higher elevation. Due to the raised lateral invert, modification to the building is also needed. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0045	02/15/12	082-0045	Install new 2 each sewer laterals on Stockton between Post and Geary	3	CMB-0078	Agree	09/12/12	+30,260	Contract plan SW-3 shows 2 each existing laterals coming from the Union Square garage to be connected to the new main at approximate sta 128+55. However, the laterals were found to be connected to the downstream end of the existing main (toward Geary), which is called for to be abandoned in 1251 to make room for the future station. (See Trends #37 and 44) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0046	03/06/12	082-0046	Additional cost for enlarging PG&E vault 584 on O'Farrell east of Stockton	6				+80,000	The two (2) existing PG&E duct banks that were supposed to be intercepted by vault 584 were wider than shown on plan. Vault 584 was needed to be enlarged in order to capture the two (2) ductbanks. PG&E agreed to reimburse SFMTA (\$80,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0047	04/10/12	082-0047	Enlarge Muni Vault 900A on Stockton between Post and Geary	2	CMB-0082	Agree	10/31/12	+15,357	Contract plan JT-301 calls for an intercept vault to capture 2 (E) Muni ductbanks (DB). These DBs were found to be farther apart than shown on plan. The intercept vault needs to be widened. (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0048	04/10/12	082-0048	Additional cost and time for stuck auger during micropile drilling	2					Contractor's hollow stem auger got stuck during drilling of micropile #27C in front of 17 Stockton. Contractor claims differing condition as cause for the stuck auger. Contractor is asking for 1 day compensable time extension. SFMTA is reviewing claim for entitlement. COR #67 RE Denied COR (City Letter 26); however Contractor will most likely send rebuttal. CLOSED; NO FURTHER ACTION.	
1251-0049	04/10/12	082-0049	Additional cost and time for added rebar and coordination with 17-19 Stockton Owner's contractor	2	CMB-0083	Agree	11/07/12	+9,058	Existing footing of One Stockton was found to be recessed from property line. City's response to RFI 171 called for additional rebar to compensate for the gap between back of new enclosure wall and existing footing. Also, the Owner's contractor of 17-19 Stockton asked that Synergy clear his work area so he can pour the primary wall and bring in his new switchgear. Synergy is asking 2 days compensable time extension. (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 64) COMPLETE, NO FURTHER ACTION	CMOD #27 Approved
1251-0050	04/10/12	082-0050	Additional cost to install a Type 770 pole foundation at a different location, install 2 each DPT mast arms and demo existing wall in conflict with OCS footing	2	CMB-0074	Agree	08/15/12	+48,898	Type 770 pole foundation at SW 5th/Folsom could not be installed per plan due to a conflict with a cistern. Only solution is to remove an existing pole foundation (recently installed in 1251 as contract work) to make room for the 770 pole foundation. At 5th/Folsom, 2 DPT mast arms (not shown in original plan) need to be installed. At Pole #811, an existing concrete wall is in conflict with pole foundation. (CMB 0074 approval - see Trend CN1251 #'s 67, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1251-0051	04/10/12	082-0051	Intercept existing PG&E duct bank and terminate into vault 5464 at Market/Ellis	6			+23,633	PG&E requested to reroute existing duct bank running north out of MH 1803 at 4th/Pioneer Place into MH 5464 at Market/Ellis PG&E agreed to reimburse SFMTA (\$23,633) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved	
1251-0052	04/10/12	082-0052	Reroute unforeseen existing waterline on Geary east of Stockton	2	CMB-079	Agree	10/10/12	+27,234	An unforeseen existing waterline was found to be in conflict with PG&E vault 573 and needs to be rerouted per City's response to RFI #182. (CMB 0079 approval - see Trend CN1251 #'s 65 & 70). This is potentially a E&O issue due to unforeseen existing waterline on discovered along Geary Street (east of Stockton Street) not shown in the contract drawings. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0053	04/10/12	082-0053	Additional cost for premium to accelerate contract work	1	CMB-083	Agree	11/07/12	+10,591	SFMTA directed Synergy to accelerate work to advance PG&E and AT&T cut-over and allow CN 1252 Contractor to start work at UMS COR #74 PG&E agreed to reimburse SFMTA (\$10,590) through the Form B process. 11/07/12 (CMB 0083 approval - see Trend CN1251#'s 49, 59, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0054	04/17/12	082-0054	Additional waterproofing at FIDM and north end of Crate & Barrel	2				+8,151	Sidewalk in front of FIDM and north end of Crate & Barrel did not have a sub-sidewalk basement, hence the original plan did not call for waterproofing of the primary wall. While excavating for the joint trench, contractor found the existing waterproofing to be spalling and peeling off from the primary wall. COR #72 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0055	04/17/12	082-0055	Install Swiveloc lids on all PG&E vaults	6					PG&E requested SFMTA to add this scope to the 1251 contract for safety reason. COR #72 SFMTA decided to defer this work to the 1252 contract. COMPLETE, NO FURTHER ACTION;	
1251-0056	05/31/12	082-0056	Additional work on force account related to sewer installation	2				+45,156	Additional work due to unforeseen and differing conditions during installation of sewer. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1251-0057	05/31/12	082-0057	Additional work on force account related to water installation and NRG vault demolition	2				+39,599	Additional work due to unforeseen and differing conditions during installation of water and demolish existing NRG vaults that are in conflict with utility installation. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1251-0058	05/31/12	082-0058	Additional streetlight conduit on 5th Street between Harrison and Bryant	2	CMB-0083	Agree	10/31/12	+17,754	The existing streetlight pullboxes new cables were supposed to be connected to per contract plan did not have power. New conduit needs to be install from the power source. COR #75 (CMB 0082 approval - see Trend CN1251 #'s 47, 76 & 78) COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved
1251-0059	06/26/12	082-0059	Accelerate contract work at Barney's front	1	CMB-0083	Agree	11/07/12	+16,948	As a result of numerous meetings and complaints by Barneys, it was decided to accelerate contract work in order to restore Barneys sidewalk earlier (CMB 0083 approval - see Trend CN1251 #'s 53, 49, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0060	06/26/12	082-0060	Final Bid Item Reconciliation	4				(508,961)	Bid item analysis for entire contract as of 6/12/12.	CMOD #30 Approved
1251-0061	06/26/12	082-0061	Excavate for PG&E cutover at 177 Stillman	6				+7,424	PG&E requested Synergy to excavate for PG&E cutover at 177 Stillman. Reference document: Email from Michael Lightstone dated 12/9/11 PG&E agreed to reimburse SFMTA (\$7,424) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0062		082-0062	Additional waterproofing at Macys Men's wall	2				+24,774	Contract did not call for waterproofing at Macys Men's wall. However, when contractor dug for the joint trench, it was found that the existing waterproofing has deteriorated and needed to be replaced. COR# 20 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved

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Project Trend/Change Control Log

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1251-0063		Excavation and restoration cost for PG&E gas tie-in and kill holes. Part II	6				+56,458	After completion of Part I (see trend 32), PG&E had offered to self-perform the excavation and restoration of the gas tie-in/kill holes because PG&E had crews available to perform the work. However, PG&E no longer have available crews, hence Synergy had to continue and finish excavating and restoring the last tie-in/kill holes. PG&E agreed to reimburse SFMTA (\$56,458) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0064		Accelerate finish and detail work of AT&T and PG&E vaults	1	CMB-0083	Agree	11/07/12	+4,704	In order to expedite turn-over of AT&T and PG&E vaults, SFMTA directed Synergy to accelerate the detailing and finish work of these vaults. SFMTA will pay Synergy premium cost for OT hours. 11/07/12 - (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 49) COMPLETE, NO FURTHER ACTION; CMod #27	CMOD #27 Approved
1251-0065		Additional fittings for AWSS lateral and chipping of pole foundation at Market/Ellis	2	CMB-0079	Agree	10/10/12	+20,412	An existing Muni pole foundation is in the way of the AWSS lateral. Additional fittings are required to complete contract work. (CMB 0079 approval - see Trend CN1251 #'s 52 & 70) This is potentially an E & O issue due to an existing Muni pole foundation is in the way of the AWSS lateral. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0066		Intercept PG&E conduits at Vault 573 at Geary east of Stockton	6				+6,466	During installation of PG&E intercept vault 573, PG&E had incorrectly identified the conduits to be intercepted. This error was discovered during cut-over process by PG&E. PG&E agreed to reimburse SFMTA (\$6,466) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0067		Additional feeder span, no-bo insulator and adjustment of guywire for the Folsom OCS bypass	3	CMB-0074	Agree	08/15/12	+32,149	SFMTA Electrical Designer had pointed out the new Folsom Bypass does not have enough capacity to power the new OCS necessitating installation of feeder spans. Also, adjustments to the guywire are necessary to mitigate conflict with new signal mast arms. COR #76 7/25/12 - RE presented COR to CMB; direction given to develop one CMod with all remaining items to be purchased for the new OCS bypass. (CMB 0074 approval - see Trend CN1251 #'s 50, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0068		Extended Overhead cost from July 19, 2012 to August 16, 2012	1	CMB-0075	Agree Conditionally	10/03/12	+106,967	Contract is expected to be extended beyond the approved July 18, 2012 completion due to the following reasons: contractor was slowed due to accommodation of AT&T and PG&E cut-over, for example, contractor has to provide windows of time for AT&T to occupy its work space to provide continuity and efficiency for AT&T cut-over, contractor has to advance cleaning and detailing of vaults to turnover to AT&T and PG&E, these work are typically done as punchlist, contractor now has to sequence work and reallocate resources; SFWD cut-over is taking longer than expected; PG&E gas cut-over was delayed due to inability to access Armani building, this delay held up completion of sewer MH, SFWD connection and restoration on O'Farrell east; added change order work, i.e. additional PG&E conduit at vault 573 and additional excavation for AT&T cut-over at 240 Stockton CMB Agreed contingent on receipt of letter confirming e-mail as presented in the meeting and content viewed related to agreement and remaining actions and release of funds. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #29 Approved
1251-0069		Removal of abandoned PG&E gas valve (8each) and install anodes	6				+4,737	PG&E asked Synergy to remove all abandoned gas valves (8each) PG&E agreed to reimburse SFMTA (\$4,737) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0070		Core drill primary wall and install interior plumbing at Armani and Disney for the fire service water cutover	2	CMB-0079	Agree	10/10/12	+14,034	Existing fire service inside the building is a thin-wall steel pipe that extends out to the previously existing sub-sidewalk basement. However, 1251 had backfilled the subsidewalk basement per contract, which now made the steel pipe susceptible to corrosion. SFWD does not want to tie-in to the steel pipe due to corrosion issue plus the fact that the pipe is thin walled, which makes welding almost impossible. A ductile iron pipe needs to be installed from the main and into the building. COR #77 (CMB 0079 approval - see Trend CN1251 #'s 52 & 65) COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number	
					Approval Action	Approval Date	Actual/Forecast			
1251-0071		082-0071	Install a new 8" backflow preventer for the fire service inside Macys Men's building	6				The new water main (installed in the 1251 Contract) is closer to the property line than the existing backflow preventer. State law stipulates that a backflow preventer be installed in between the property's fire suppression system and the water main. The SFWD refuses to make this connection until a proper backflow preventer is installed. SFMTA will insist on Macys to install its own backflow preventer. CLOSED; NO FURTHER ACTION.		
1251-0072	08/08/12	082-0072	Additional AT&T trench from new vault 5829 to existing vault 127 on Geary east of Stockton	6	CMB-0076	Agree	10/03/12	+23,993	AT&T requested new conduits to maintain continuity between the 2 vaults. AT&T agreed to reimburse SFMTA (\$23,993) through the Form B process. RE Tracking work on FAR CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 80) COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0073	08/08/12	082-0073	Additional work to install water and electrical utilities for Flower Stand on Geary west of Stockton	1				+17,966	Contract bid allowance for providing utility services for flower stands (UD-14) had been exhausted during relocation of 2 flower stands. A third and final flower stand is still needed to be relocated. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0074	08/08/12	082-0074	Traffic Signal modification at 5th/Folsom	1	CMB-0074	Agree	08/15/12	+16,429	Due to installation of OCS bypass on Folsom between 4th and 5th Streets, a left turn signal is required at 5th/Folsom. Additional signal heads and modification to the existing traffic signal is necessary. RE Tracking work on FAR (CMB 0074 approval - see Trend CN1251 #'s 50, 67, & 75 also). COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0075	08/08/12	082-0075	Unforeseen conditions related to pole foundation installation for the Folsom OCS Bypass	2	CMB-0074	Agree	08/15/12	+12,568	Contractor encountered unforeseen concrete and brick substructures and abandoned utility lines. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251#'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0076	08/08/12	082-0076	Adjustment to OCS on Mason Street	2/3	CMB-0082	Agree	10/31/12	+14,988	Modify bracket arm at existing Pole #511 to alleviate tension load and bending of pole. Realign trolley wire on Mason between Geary and Eddy to smoothen transition when shifting from right lane to left lane. Also, add intermediate guywire to prevent excessive sagging of bracket arms at various locations. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251#'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0077	09/12/12	082-0077	Additional work related to Qwest, TCG and UCCO facilities	2	CMB-0081	Agree Conditionally	10/31/12	+37,181	Qwest, TCG and UCCO requested Synergy to tie-in their existing conduits into the new vaults that Synergy installed per contract. The utility companies are responsible for connecting existing conduits into new vaults, therefore, this request is considered extra work. Private Utilities companies agreed to reimburse SFMTA (\$37,181) through the Form B process. RE Tracking work on FAR CMB agreement contingent upon Cmod package to include evidence from all utilities that cost are reimbursable to SFMTA through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved
1251-0078	09/12/12	082-0078	Unforeseen conditions encountered during excavation and installation of OCS poles along Mason and 5th Streets.	2	CMB-0082	Agree	10/31/12	+27,645	Several obstructions, i.e. buried concrete, boulders, brick, abandoned utilities were discovered during excavation and installation of OCS poles along Mason and 5th Street. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 76) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0079	09/12/12	082-0079	Additional work related to installation of PG&E Vaults 467, 571, 573, 586 and 594 including joint trench leading to these vaults	2				+44,530	Unforeseen conditions were encountered during installation of select PG&E vaults including joint trenches leading to these vaults. PG&E agreed to reimburse SFMTA (\$44,530) through the Form B process. RE Tracking work on FAR COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved

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- 4 - Quantity Variation
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	COR No.	PCC No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
							Approval Action	Approval Date	Actual/Forecast		
1251-0080	09/12/12			082-0080 Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to these vaults	2	CMB-0076	Agree	10/03/12	+56,806	Unforeseen conditions were encountered during installation of select AT&T vaults including joint trenches leading to these vaults. AT&T agreed to reimburse SFMTA (\$56,805) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 72) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0081	09/13/12			082-0081 PG&E concrete cover versus CDF on electrical duct bank	6	CMB-0107	Agree	02/13/13	+43,882	Contract Plan JT-014 calls for CDF cover on PG&E duct bank. However, PG&E requested to use regular concrete due to heat dissipation problem with CDF. PG&E agreed to reimburse SFMTA (\$43,881) through the Form B process. 12/19/12 - Presented to CMB, direction given to finalize cost and obtain a Form B agreement with PG&E 02/13/13 - Revised CMod presented to CMB. PG&E agreed with negotiated reimbursement amount. COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
Contract 1251 Totals									+3,962,032	Total Changes to the contract in the amount of 3,962,032 represents an UNDERRUN of allocated contingency in the amount of \$1,405,265.32. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$1,224,828 will increase the UNDERRUN. Final Contract Closeout Total \$20,794,581 will be reduce by \$7,618,112 Utility Reimbursement credits for a Final Program cost of \$13,176,469 for CN 1251	
Contract 1252		COR No.	PCC No.	1252 Change Description	Change Type	CMB Change No.	Configuration Management Board Agree/Disagree	Decision Date	Actual/Forecast	Comments	Contract Modification No.
1252-0001	04/23/12	1		AWSS Conflict w/ Low Pressure Water	6	CMB-0091	Agree to Merit Agree to Cost	10/10/12 01/16/13	+16,907	AWSS contract work was made more difficult by the proximity of a water line which was closer than indicated on UT-501. See COR 008 for TIA request. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$16,900 - Agreed	
1252-0002	04/23/12	2		AWSS Add. Tie-Rods 4th-Harrison	6	CMB-0086	Agree to Merit Agree to Cost	10/10/12 12/19/12	+55,132	The AWSS line must be restrained a certain distance beyond the 90 degree elbow we are installing under contract 1252. The 1252 contract work includes excavating on both sides of this 12-foot portion of pipe. Additional work scope (per Michael Smith @ DPW): Station 162+80 to 162+90 - Restrain the existing 12-inch tee to the existing pipe north of the tee. Restrain any other joints that are not restrained on the existing pipe up to the new pipe to be installed. 10/10/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$58,000 - Agreed	
1252-0003	04/23/12	3		AT&T Vault Conflict-4th & Harrison	6	CMB-0092	Agree to Merit Agree to Cost	10/10/12 01/16/13	+16,015	After excavation of the roadway surface and subgrade at Fourth and Harrison streets an AT&T vault was discovered to be in conflict with the current alignment of the 42" RCP sewer main. Verbal authorization was given by an AT&T representative to make modifications to the vault. COR 003 has been submitted by BIH in response to this issue. Work is to be charged via SFMTA Form B agreement to AT&T. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$21,089 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0004	05/18/12	6	PG&E live electrical delays	6	CMB-0088	Agree to Merit Agree to Cost	11/28/12 1/9/2013	+7,402	PG&E lines indicated on contract drawing UD-502 thru 504 were to be abandoned yet were not yet abandoned when BIH started work. They were abandoned on 5/21. 11/28/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement or cost reimbursement. COMPLETE, NO FURTHER ACTION: CMOD #10 - Final Cost \$7,402.36	CMOD #10 Approved
1252-0005	06/06/12	7	Oil filled pipe @ Launch Box	2	CMB-0093	Agree to Merit Agree to Cost	1/16/13 1/16/13	+9,980	Synergy Demo Crew exposed an existing 6" steel line which had oil in it on the West side of 4th St between Harrison and Bryant. 01/16/13 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED amount \$10,000 COMPLETE, NO FURTHER ACTION; CMOD #05 - Final Cost \$9,979.81	CMOD #5 Approved
1252-0006	04/23/12	8	TIA - Associated w/ COR 001, COR 002, and COR 003	6		Agree to Merit	10/10/12	+153,000	TIA and Overhead Costs related to COR 001, 002 and 003. 10/10/12 - Merit info associated w/COR's 001, 002 & 003 presented to CMB - Agreed. 01/30/13 Elevation Ladder documentation presented for review of unresolved issue of payment of Indirect costs for TIA submittals- COR 008	
1252-0007	06/12/12	9	MOS – Impacts due to SFWD low psi water line	2	CMB-0143	Agree to Merit Agree to Cost	11/06/13	+5,727	Live PG&E Electrical Lines Conflict: BIH was notified that PG&E had live electrical lines running through each headwall work zone @ Moscone station. 8 inch Low Pressure Water Line Conflict: Contract drawings show this utility to be abandoned and capped prior to work. Synergy struck and damaged the water line. SFWD directed Synergy to excavate a kill hole so they could properly abandon the line. 11/04/12 - COR Evaluation for No Merit presented to CMB for - Agreed. Contractor did not follow contract specification 02.30.00 and 02.41.00 requiring the Contractor to verify the locations of any City or public service utility company facilities that may be affected by excavation and to ensure no damage to existing underground facilities. 11/06/13 - Merit info presented to CMB - Agreed for partial merit of cost associated with excavating two additional "kill-holes on 06/20/12 & 06/21/12. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$5,727.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0008	06/19/12	10	MOS - Demo PGE duct bank / SF City 911 fiber optic line	2	CMB-0094	Agree to Merit Agree to Cost	10/10/12 01/16/13	+4,916	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a PG&E duct bank that contained a live San Francisco 911 fiber optic line. 11/14/12 - Presented to CMB - The narrative will be rewritten CMB agrees with partial merit labor work involved in supporting the utility agencies. This item will be brought back to the CMB for approval. 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$4,919.54 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #03 - Final Cost 4,915.54	CMOD #3 Approved
1252-0009	07/02/12	11	MOS - Traffic Signal line re-route south headwall	6	CMB-0095	Agree to Merit Agree to Cost	01/16/13	+37,500	After potholing Synergy discovered several traffic lines which were in the proposed location of the south MOS headwall. Traffic Lines re-routed. Merit info presented to CMB - Agreed 01/16/13 - CMB - NOT TO EXCEED \$37,500 COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Approved
1252-0010	01/00/00	12	MOS - Archaeological Standby North Headwall	2	CMB-0096	Agree to Merit Agree to Cost	12/11/12 01/16/13	+16,893	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a layer of "Midden" or Native American debris. 12/11/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #06 - Final Cost \$16,892.96	CMOD #6 Approved
1252-0011	07/06/12	13	MOS - SL conduit from PG&E vault @ north headwall	6		Agree to Merit	11/28/12	-0-	Permanent power is required to supply an existing Street Light box north of the MOS N headwall. 11/28/12 - Merit info presented to CMB - Agreed 04/01/13 - CM Team must obtain in writing from PG&E a utility agreement for cost reimbursement. Will be issued as a PCC with the approval of PG&E prior to requesting a proposal from the Contractor. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0012	06/26/12	15	LB - Pre-Excavation for Slurry Walls	2	CMB-0087	Agree to Merit Agree to Cost	11/28/12 12/19/12	+125,000	Pre-excavation of slurry wall panels due to CDF encased sewer line. The concrete encasement was found by the Contractor to extend to a depth of 9'-11' below the top of guide wall or street surface. The 8" VCP sewer main and concrete encasement was incorrectly shown in the contract drawings to be approximately 4'-5' below the street surface. 11/28/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$96,000 - Agreed	
1252-0013	07/02/12	17	MOS – Impacts @ North and South Headwalls due to live utilities	6	CMB-0144	Agree to Merit Agree to Cost	11/06/13	+43,219	Standby delays related to the discovery of traffic lines within the proposed location of the south MOS headwall. 11/14/12 - COR presented to CMB. CMB requested additional revisions to the evaluation. CMB agrees with partial merit. The COR will be brought back to the CMB for approval. 11/21/12 - COR revisited at mtg for clarification the issue is related to CMB action from item 3 -7/25/12 (Mtg #88) specifically acted on 08/01/12 (CMB Mtg. 89) referred originally as Trend #15. CMB Agreed to No Merit to this contract change. 11/06/13 - Merit info presented to CMB - Agreed to DSC for equipment standby costs for a period of 16 working days. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,219 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Approved
1252-0014	Closed	19	UMS - Grant street 2 way conversion (e- & striping)	7				-0	In order to implement a full street closure for Stockton Street at the UMS location the DPT recommended that Grant Street be converted from an existing one-way street to a two way street for vehicular traffic. Closed - Work is done. -07/18/12 - This potential change was brought before the CMB. Board's decision to have DPT perform the work. Work is completed. CLOSED; NO FURTHER ACTION	
1252-0015	06/22/12	20	PROJECT WIDE - Utility Demo limit reduction credit	7				-0	BIH's subcontractor Synergy Project Management (SPM) would like to minimize the limits of utility demo at the Launch Box, Moscone station, UMS station and TBM Retrieval Shaft locations. SFMTA to BIH/SPM "Build per Plan". CLOSED; NO FURTHER ACTION	
1252-0016	04/02/12	21	UMS - Reduced Duration	5	CMB-0073	Agree Cost (Conditionally)	08/01/12	-0	No cost change for acceleration of utility relocation, ground improvements (jet grouting), and headwall construction at Union Square/Market Street Station. -08/01/12 - CMB approval condition upon incorporating correctness to backup documentation as required by & documented in CMB mtg. RE to prepare modification. COMPLETE; NO FURTHER ACTION: CMOD #08 - No Cost Change	CMOD #8 Approved
1252-0017	07/10/12	22	MOS - Asbestos Pipe at north headwall	2	CMB-0090	Agree to Merit Agree to Cost	12/12/12 01/09/13	+5,705	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered friable asbestos-laden transit pipe. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$6,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #05 - Final Cost \$5,707.05	CMOD #5 Approved
1252-0018	07/10/12	23	MOS - Brick Wall #2 discovered @ north headwall	2				+16,025	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a buried wall. 11/14/12 COR presented to CMB. Evaluation for merit will be rewritten and brought back to CMB for approval. 11/21/12 - Evaluation of merit presented to CMB - Agreed to No Merit to this contract change.	
1252-0019	08/10/12	26	MOS - Asbestos Pipe at south headwall	2	CMB-0085	Agree to Merit Agree to Cost	12/12/12 01/09/13	+27,630	Transite pipe was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 EE brought to CMB for cost NOT TO EXCEED \$30,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #15 COMPLETE, NO FURTHER ACTION: CMOD#15 - Final Cost \$27,629.64	CMOD #15 Approved
1252-0020	08/10/12	27	MOS - Oil filled pipe at south headwall	2	CMB-0089	Agree to Merit Agree to Cost	12/12/12 01/09/13	+8,226	A pipe containing oil was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 CMB - NOT TO EXCEED \$8,600 COMPLETE; NO FURTHER ACTION: CMOD #05 - Final Cost \$8,225.68	CMOD #5 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0021	06/19/12	29	MOS - Todco scaffolding reimbursement	2	CMB-0097	Agree to Merit Agree to Cost	12/12/12 01/16/13	+1,718	1252 contract work requires the removal of scaffolding erected by Fine Line Construction, the contractor performing renovations on the Woolf House. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$1,717 - Agreed COMPLETE, NO FURTHER ACTION: CMOD #03 - Final Cost \$1,717.83	CMOD #3 Approved
1252-0022	Closed	closed	Disputed Work Items - NTP2 vs. NTP3	7				-0-	BIH interpretation of Special Provisions SP-3 NTP2 description includes activities that SFMTA interprets to be within NTP3. These activities include: Ellis Street and Green Street shafts and associated compensation grouting, MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS head walls and jet grouting, OCS removal along Stockton Street from Geary to Ellis, and the TBM retrieval shaft. On April 13, SFMTA released the MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS jet grouting, OCS removal along Stockton Street from Geary to Ellis, and preparatory and utility work necessary for the construction of the retrieval shaft. CLOSED; NO FURTHER ACTION	
1252-0023	05/30/12		Manhole in east guidewall footprint	2				-0-	While performing excavation for the east side guidewalls at the TBM Launch Box, BIH's subcontractor CJA-NCC encountered a manhole near the bottom of the excavation which was unexpected. BIH has stated that removal of the manhole prior to the installation of the guidewalls was necessary to ensure the successful installation of the slurry walls. 05/20/12 - CM Team comment: Synergy traded this COR with SFMTA for shallow Force Main Installation. CLOSED; NO FURTHER ACTION	
1252-0024	Closed	closed	2" gas line inside 16" casing	2				-0-	While performing excavation for the Sewer and AWSS trench at the intersection of Fourth and Harrison streets, BIHJV's subcontractor Synergy encountered what was identified to be a 16" depressurized gas main. This gas main contained a 2" gas line which is shown on contract drawing UD-502 to be abandoned/removed. CLOSED; NO FURTHER ACTION	
1252-0025	04/23/12	5	CDF Encasement on 42" RCP	2				+140,596	While performing excavation for the east side guidewalls at the TBM Launch Box, BIH's subcontractor CJA/NCC encountered a CDF backfill at the existing 42" RCP sewer which reportedly had a significantly higher compressive strength than the 50-150 psi. which was anticipated. BIH claims that the CDF conflicted with the construction of the guidewalls and it could not be excavated by conventional means. Escalated to the IRL process	
1252-0026	Closed	closed	Damage to Live LPW main at 4th and Folsom	2				-0-	Synergy Demo Crew hit a blow-off valve on the 8" water line at the Southwest corner of the MOS headwalls. SFWD is to install a permanent cap per contract drawing WD-404. CLOSED; NO FURTHER ACTION	
1252-0027	Closed		MOS - 76 Gas Station fencing	1				-0-	SFMTA requested BIH to install fencing around the perimeter of the 76 gas station at 4th and Folsom St. Issue closed, cost of fence paid by BIH in return for use of gas station lot. CMB - Temporary use of 800 Folsom Street site for construction staging. Use of this site would be a tradeoff between SFMTA and BIH. The Contractor would maintain the sites security and up-keep in exchange for not billing. CLOSED; NO FURTHER ACTION	
1252-0028	Closed		LB - SPTC delays due to concrete encased 8" sewer	2				-0-	Closed. Combined with COR 015. 07/25/12 - Verbal information presented to CMB as a potential change. CLOSED NO FURTHER ACTION	
1252-0029	08/06/12	18	MOS - South Headwall re-design	1				+144,000	Costs related to leave end stops in place and a "T-Section" at the Moscone headwalls return walls. 11/14/12 - Presented to CMB. RE is recommending a possible compensation value of \$135K. CMB agrees with partial merit for labor and material cost of this COR. RE will proceed with scoping the work. 04/17/13 - Elevation Ladder of unresolved issue of End Stops presented to CMB - COR 018 09/18/13 - Contractor has submitted a Contract Claim No. 1 Permanent End Stops at MOS Headwall for \$169,379.17. CMB directed the CM Team to draft a letter rejecting the claim. Claim #1 has been negotiated for \$144K. CMod will be issued.	
1252-0030	08/02/12	24	Ellis - Utility demolition	3	CMB-0135	Agree to Merit Agree to Cost	12/6/2012 10/09/13	+35,628	BIH says that no utilities were shown at Ellis; however, Reference Drawing UE-126 shows utilities. 12/06/12 - Merit info presented to CMB - Agreed 10/09/13 - Engineers Cost Comparison brought to CMB for cost NOT TO EXCEED \$35,628.22 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved

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1252-0031	Closed		Crack Gauges	4				-0-	BIH disagrees with SFMTA on the total number of crack gauges to be installed on the project. Per the contract drawings a total of 926 crack gauges are to be installed. BIH claims that a total of 50 are to be installed. CLOSED; NO FURTHER ACTION	
1252-0032	08/07/12	28	Ellis asbestos abatement	2		Agree to Merit	12/06/12	-0-	A steam line containing asbestos was discovered during potholing at the Ellis Street Shaft. 12/06/12 - Merit info presented to CMB - Agreed 01/10/13 - CM Comment - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0033	-	30	LB - Class 1 Hazardous Material Haul off	2				+400,000	BIH trucking costs for Class 1 haul off generated at staging yard. Also see COR 054 regarding Class 1 Haz material haul off for Phase 2. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated for \$400K cost to include COR's 030, 054 & 075.	
1252-0034	01/00/00	70	LB - Jet Grout Quantity Overrun	4	CMB-0115	Agree to Merit Agree to Cost	03/20/13 04/03/13	+768,600	The contract drawings call for the contractor to determine the extent of jet grouting at the launch box. Bid Item ES-3 has an estimated quantity of 2,831 CY of in-situ treated ground. The Contractor has currently installed 3,929 CY of Soilcrete (Jet Grout) for ground treatment. This translates to an additional quantity of 1,098 CY of ground treatment beyond the quantity listed for Bid Item ES-3. By subtracting 241 CY for the "scallop" portion of the columns the total is 857 CY. 03/20/13 - Merit info presented to CMB - Agreed 04/03/13 - EE brought to CMB for cost NOT TO EXCEED \$599,900 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #22 - Contractor may pursue addl amt. \$168,700 for "scallop" portion of jet grout.	CMOD #22 Approved
1252-0035	01/00/00	unsubmitted	Utility Removal UD-304 and UD-503	6				-0-	RFI 00134 asks whether certain utilities indicated on drawings UD-304 (On Stockton inside limits of future UMS Station) and on UD-503 (On Fourth and Stillman Streets outside limits of Launch Box) may be left in place. Answer: "Confirmed, the utilities in question can be abandoned in place and are not required to be removed. The Engineer will seek an adjustment to Bid Item GB-3 for the elimination of this work." COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0036	05/17/12	35	Additional Road Base on Fourth Street	2				-0-	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt and road base layer while performing roadway demo work along the west side of Fourth street between Harrison and Bryant St. The additional layer is estimated by BIH/SPM to be approximately 8" - 12" thick. 12/06/12 - Evaluation of merit presented to CMB - Agreed to No Merit for this change. CLOSED; NO FURTHER ACTION	
1252-0037	01/00/00	unsubmitted	DPW permitting potential impacts	7				-0-	DPW Permitting issue to cause potential impacts. DPW is not issuing BIH permits for excavating the MOS headwalls, jet grouting at the LB, and excavating support at the LB, as they claim to have not been able to conduct a thorough review of the project's design documents and were not included in the design process. BIH may be required to re-sequence and stand many other potential impacts w/o said permits. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0038	05/30/12	38	Manhole in West Guidewall Footprint	3	CMB-0101	Agree to Merit Agree to Cost	12/05/12 01/23/13	+3,821	While performing excavation for the west side guidewalls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered a manhole foundation within the excavation at approximate station 165+70. It was necessary to chip away a portion of the existing manhole to gain the necessary clearance to construct the west slurry wall. 12/05/12 - CMB agreed with Evaluation of Merit 01/23/13 - EE brought to CMB for cost NOT TO EXCEED \$4,052.17 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #12 - Final Cost \$3,820.84	CMOD #12 Approved
1252-0039		unsubmitted	Panel W-33 Obstruction	2				TBD	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered buried (wood pile?) debris located approximately 12 feet below the guide wall within Launch Box Diaphragm Wall Panel W-33. This trend is being tracked separately from Trend 20 because we believe it may be a different structure. BIH has not provided adequate information substantiating the merging of the two trends. CLOSED; NO FURTHER ACTION	

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0040	08/23/12		PCC 1 PCC No.1 - Revisions to Moscone North Headwall Elevation (Top)	1	CMB-0099	Agree to Cost	01/16/13	+20,358	SFMTA initiated change to revise headwall elevations to facilitate a change in the roof elevation of MOS station. 01/16/13 CMB - NOT TO EXCEED \$20,500 Item is now being tracked as PCC 01 COMPLETE; NO FURTHER ACTION: CMOD #07 - Final Cost \$20,358.23	CMOD #7 Approved
1252-0041	08/23/12		PCC 2 PCC No. 2 - Revisions to UMS Headwall Concrete and Reinforcement Limits	1				-0	SFMTA initiated change to revise UMS headwall concrete and reinforcement limits to provide a cost savings. 08/29/12 - Revised PCC presented to CMB PCC No longer being pursued. CLOSED; NO FURTHER ACTION	
1252-0042	08/24/12	31	Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0108	Agree to Merit Agree to Cost	01/02/13 02/27/13	+1,200	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12" dia. steel pipe which appears to run continuously under Columbus Ave. 01/02/13 - Merit info presented to CMB - Agreed 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,250 - Agreed 04/01/13 - No reimbursement from SFWD. COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$1,200	CMOD #13 Approved
1252-0043	08/31/12	32	LB - Panel W29 Wood Pile	2	CMB-0136	Agree to Merit Agree to Cost	11/28/2012 11/06/13	+121,917	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-29. 11/28/12 - Merit info presented to CMB - Agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,961 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0044	09/04/12	33	Ret Shaft - 20" Water Line Conflict	2		Agree to Merit	11/14/12	-0	During excavation for the joint trench at the retrieval shaft SPM discovered that the MRY Duct Bank is directly above an active 20" low pressure waterline. As a result the work at the Retrieval Shaft must reportedly be altered. 11/14/12 - Presented to CMB, the CMB agrees with some merit of this COR, element of change not define clearly. RE will proceed with scoping the work. Due to PCC 10 CLOSED; NO FURTHER ACTION	
1252-0045	09/11/12	34	LB - Panel W28 Wood Pile	2	CMB-0137	Agree to Cost	11/06/13	+112,862	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-28. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,294 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed by both parties. Time and Delay as claimed by the Contractor will be denied.	
1252-0046	01/00/00	36	MOS - Catch Basin @ south headwall	3				-0	A catch basin on the NW corner of 4th and Folsom interfered with the construction of the MOS Headwalls. Removal of the catch basin was needed in order for the headwalls to be built. BIH claims the catch basin was not shown in the contract drawings. Closed due to improper notification. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0047	01/00/00	37	UMS - 12" steel pipe removal	3	CMB-0132	Agree to Merit Agree to Cost	6/5/2013 08/28/13	+3,379	A 12" steel pipe at the north UMS headwall location interfered with the demolition of other existing UMS utilities. BIH claims the steel pipe was not shown in the contract drawings. 06/05/13 - Merit info presented to CMB - Agreed 08/28/13 - EE brought to CMB for cost NOT TO EXCEED \$3,379.19 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0048	09/07/12	39	MOS - 16" Steel Pipe removal @ northeast headwall	3	CMB-0102	Agree to Cost	01/23/13	+2,952	SPM removed an unmarked 16" steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16" steel pipe was not shown in the contract drawings. 01/23/13 - EE brought to CMB for cost NOT TO EXCEED amount \$2,951.99 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$2,951.99	CMOD #14 Approved

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
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- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0049	01/00/00	40	MOS - Extra Road Base @ northeast headwall	2				-0	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt at the NE MOS headwall location. The road base in this location was approx. 20" thick on a patch that was roughly 25' x 25'. Closed due to improper notification. CLOSED; NO FURTHER ACTION	
1252-0050	05/18/12	41	LB - Impacts due to live PG&E electrical lines (Synergy)	6	CMB-0098	Agree to Merit Agree to Cost	01/16/13	+1,217	Based on direction from the SFMTA, Synergy provided a full time flagger for one night shift of work @ the intersection of I-80 off-ramp near 4th/Bryant streets in order to assist PGE while they performed the abandoning of the existing live PGE electrical at the Launch Box location which was shown to be dead in the contract drawings. 01/13/13 - CMB agreed with Evaluation of Merit 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$1,245 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #10 - Final Cost \$1,216.60	CMOD #10 Approved
1252-0051	01/00/00	executed	Contract Amendment No. 2	1				(3,040,713)	COMPLETE; NO FURTHER ACTION: CMOD #02	CMOD #2 Approved
1252-0052	08/17/12	42	LB - Panel W25 Wood Pile	2	CMB-0138	Agree to Merit Agree to Cost	11/28/12 11/16/13	+126,489	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-25. 11/28/12 - Evaluation of merit presented - CMB agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$42,894 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0053	08/22/12	43	LB - Panel W30 Wood Pile	2	CMB-0139	Agree to Merit Agree to Cost	11/28/12 11/06/13	+88,677	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-30. 11/28/12 - CMB agreed with Evaluation of Merit 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$14,197 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0054	09/19/12	44	MOS - 16" steel pipe removal @ southeast headwall	3	CMB-0109	Agree to Merit Agree to Cost	12/06/12 02/27/13	+1,600	SPM removed an unmarked 16" steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16" steel pipe was not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,800 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$1,600	CMOD #14 Approved
1252-0055	06/09/12	45	Ret Shaft - Credit for reduced AT&T conduits	6				(331)	Credit to install 2 less conduits in the AT&T infrastructure at the Retrieval Shaft Joint Trench. The conduit notes on page JT-701 of the contract documents require 8 EA 4" conduits as laid out on the AT&T line. The reduced materials would result in 6 EA 4" conduits as a result. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00. The CMB directed the CM Team to draft a letter rejecting the claim. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0056	09/25/12	46	UMS - Unmarked steel pipes (6", 12", 14") / Duct Bank	6	CMB-0103	Agree to Merit Agree to Cost	12/06/12 01/23/13	+7,475	While performing excavation for the utility demolition at the south UMS headwall BIH/Synergy discovered a 6" dia. steel pipe, 16" dia. steel pipe, 18" dia. steel pipe, and a concrete duct bank. BIH claims the utilities were not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 01/23/13 - EE brought to CMB for cost NOT TO EXCEED \$7,461 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$7,475.28	CMOD #16 Approved

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
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- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0057	09/25/12	47	Ret Shaft - unmarked 10" steel pipe/duct bank	6	CMB-0104	Agree to Merit Agree to Cost	12/06/12 01/23/13	+2,108	Synergy Project Management (SPM), discovered an abandoned duct bank and 10" steel pipe which traveled underneath Columbus Avenue between Powell and Union Streets. Removal of the duct bank was necessary to complete the construction of the 36" RCP sewer main relocation work in this area. The status of the removal of the steel pipe is uncertain and may have not been necessary for the sewer main relocation. 12/06/12 - CMB agreed with Evaluation of Merit 01/23/13 - CMB - Not to Exceed \$2,201 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,108.04	CMOD #13 Approved
1252-0058	09/28/12	48	UMS - 3'x5' brick sewer at south headwall	6	CMB-0114	Agree to Merit Agree to Cost	12/06/12 03/13/13	+11,675	Synergy Project Management (SPM), discovered a brick sewer within the utility demolition limits at the UMS South headwall. The sewer encountered was larger than the 12" pipe which was shown in the contract drawings. Removal and disposal of the sewer commenced on September 26th and was completed by September 28th. Removal of the sewer was necessary for headwall construction. 12/06/12 - CMB agreed with Evaluation of Merit 03/13/13 - EE brought to CMB for cost NOT TO EXCEED \$12,474.65 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$11,675.00	CMOD #16 Approved
1252-0059	01/00/00	49	Ret Shaft - Tree trimming debris haul off	7				-0-	Synergy Project Management (SPM), was requested by the SFMTA to remove and dispose of debris near the Northeast corner of Columbus Avenue and Union Street. The debris resulted from tree trimming activities performed by MUNI operations. SFMTA Letter No. 119 of no merit sent to Contractor. CLOSED; NO FURTHER ACTION	
1252-0060	10/10/12	50	Ret Shaft - 12" steel pipe removal at Union/Columbus	6	CMB-0110	Agree to Merit Agree to Cost	12/12/12 02/27/13	+2,200	On October 4th 2012, the Contractor discovered and removed a 12" Steel pipe at the intersection of Union Street and Columbus Avenue. Removal and disposal of the steel pipe was necessary in order to complete the proposed sewer re-location work near the Retrieval Shaft. Sewer work included the construction of a manhole which had been positioned in the field to avoid an existing MUNI duct bank. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$2,600 - Agreed 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,200	CMOD #13 Approved
1252-0061	10/11/12	51	Ret Shaft - Elevation design conflict (30" low psi water / sewer)	3	CMB-0123	Agree to Merit Agree to Cost	03/13/13 7/10/2013	+13,386	03/13/13 - Merit info presented to CMB - Agreed 07/10/13 EE brought to CMB for cost NOT TO EXCEED \$21,100. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0062	09/07/12	53	Chinatown - Night drilling for instrumentation	7				-0-	Closed.	
1252-0063	-	54	LB Class 2 Hazardous Material Haul Off (Phase 2)	2				-0-	BIH trucking costs for Class 1 haul off generated at staging yard. Also see COR 030 regarding Class 1 Haz material haul off for Phase 1. Claim #2 has been negotiated cost to include COR's 030, 054 & 075.	
1252-0064	10/10/12		PCC 4 - Ret shaft sewer pipe material change	1				-0-	Change approximately 65 ft. of pipe for sewer bypass around the TBM Retrieval Shaft from 3' X 5' oval glass fiber reinforced pipe to a 48-inch (OD) HDPE SD-17 pipe with casing insulator placed inside a 54-inch diameter, 1/2-inch thick steel casing pipe. In addition, delete permanent sheet pile wall that was to have been placed along the west side of the trench to facilitate future maintenance access to the sewer along the shaft. CLOSED; NO FURTHER ACTION	
1252-0065	12/18/12		PCC 8 - UMS - Tree Removal	1				-0-	SFMTA is directing removal of a tree at the northeast corner of Stockton and O'Farrell St. CLOSED; NO FURTHER ACTION	
1252-0066	10/10/12		PCC 5 - Ret Shaft Water Dist. Pipe Material Change	1				-0-	Change material type of approximately 188 linear feet of 20-inch water line and approximately 125 linear feet of 30-inch water line from Welded Steel Pipe (WSP) to Ductile Iron Pipe (DIP) with TR-Flex joints. Install 6-inch thick concrete cap over 20-inch water line where cover is less than 24 inches. CLOSED; NO FURTHER ACTION	
1252-0067	10/26/12	58	Ret Shaft - Additional 10" steel pipe removal	6	CMB-0111	Agree to Merit Agree to Cost	12/12/12 02/27/13	+700	Work is a continuation of work performed in COR 047. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$860.85 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$700	CMOD #13 Approved

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- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated		Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0068	10/10/12		PCC 3 PCC No. 3 - General Detour Signage	1	CMB-0113	Agree to Cost	10/03/12 02/27/13	-0	Full closure of Stockton Street at Union Square was not anticipated under the 1252 Contract. The implementation of detour signage associated with the full closure of Stockton Street was to occur under the 1300 Contract. After the award of the 1252 Contract it was decided that a full closure of Stockton could be implemented to help reduce the headwall construction durations. As a result of the full closure the City Traffic Engineer has requested that a portion of the 1300 detour signs be installed now under the 1252 Contract to help alleviate traffic congestion and provide better detour signage around Union Square. 10/03/12 - PCC presented to CMB. CMB directed the RE to get a price quote from DPT do the work as a price comparison. This item will be brought back to the CMB at a later date. 11/14/12 - PCC presented to CMB. The CMB did not agree that Central Subway needed to take the lead on implementing detour signage, but suggested that the RE study the traffic activity and at the end of November report findings. 02/27/13 - Cost presented to CMB - Agreed to NTE \$6,152.60 Signs furnished and installed by SFMTA, PCC withdrawn. CLOSED; NO FURTHER ACTION	
1252-0069	11/08/12		PCC 6 PCC No. 6 - Supplemental instrumentation of BART tunnel lining.	1	CMB-0124 (voided) CMB-0129 (voided) CMB 0131	Agree to Merit Agree to Cost Agree to Cost	10/13/12 07/10/13 08/07/13 08/09/13	+307,861	Implement additional instrumentation of BART tunnel lining: (A) Existing bolt preload force – Determine the actual load in 12 bolts. (B) Bolt force sensor – Install 12 bolt force sensors at bolts for a total of 24 bolts. (C) Rail movement under dynamic train loading – Install dynamic strain gauges (2 per rail, 8 per tunnel). 10/31/12 - PCC presented to CMB for merit. CMB directed RE to proceed with obtaining a price quote from Contractor to perform the work. 05/08/13 - PCC 06 cost comparison was presented. CMB felt \$624K to perform the work was too high and requested IRP be contacted in writing to find out if the additional instrumentation monitoring was still warranted given the new alignment. 06/05: CS Letter No. 1972 presented - Tunnel Design Changes sent to IRP notified them of recent changes and developments in the tunneling contract. 07/10/13 - CMB - Not to Exceed \$650,127.62 IRP's response to SFMTA letter is still pending. 08/07/13 - EE brought to CMB for cost NOT TO EXCEED amount \$305K contingent upon revised estimate to reflect deletion in scope of work. 08/09/13 - Special CMB Mtg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 06 (BART Work Scope reduction) The CMB Agreed to a NTE revised value of \$307,860 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #19	CMOD #19 Approved
1252-0070	01/00/00	unsubmitted	Full Closure of 4th Street	1				TBD	SFMTA allowed full closure of 4th Street in order to facilitate construction of Launch Box Slurry Wall Construction Week Ending 11/04/12 - 11/11/12.	
1252-0071	11/07/12	61	LB - Panel P-17 Buried Obstruction	2	CMB-0125	Agree to Merit	01/02/13	+377	CJA-NCC discovered an unmarked buried water main at Panel P-17, approximately 6' below the guidewall at CTL Station 165+52, while performing slurry diaphragm wall excavation. 01/02/13 - CMB agreed with Evaluation of Merit. 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$1,100 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0072	11/14/12	62	LB - Panel P-9 Buried Obstruction	2	CMB-0140	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+116,663	CJA-NCC discovered a buried obstruction while excavating slurry diaphragm wall panel P-9 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented CMB agreed with Evaluation of Merit. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,588 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0074	11/16/12	65	LB – Panel P-12 Buried Obstruction	2	CMB-0141	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+112,313	CJA-NCC discovered a buried obstruction (water main) while excavating slurry diaphragm wall panel P-12 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented; CMB agreed with Evaluation of Merit. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$40,523 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0075	11/19/12	66	Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0112	Agree to Merit Agree to Cost	01/23/13 02/27/13	+3,700	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12" dia. steel pipe which appears to be a Low Pressure Water Main. 01/23/13 - Merit info presented to CMB - Agreed 02/27/13 - EE brought to CMB for cost NOT TO EXCEED amount \$3,800 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final cost \$3,700	CMOD #13 Approved
1252-0076	11/19/12	67	LB - Panel P-10 Buried Obstruction	2	CMB-0145	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+82,933	CJA-NCC discovered a buried obstruction or concrete encased clay sewer pipe, approximately 7' below the top of the guide wall while excavating slurry diaphragm wall panel P-10 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup be attached or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Merit info presented to CMB - Agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$49,984 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0077	12/21/12		PCC 7 PCC No. 7 - BART Temporary Annex Wall	1	CMB-0106	Agree to Cost	01/30/13	+15,500	SFMTA is requesting Contractor construct temporary wall for Bart Annex for SFMTA use. 01/30/13 - NOT TO EXCEED Amount \$15,380 COMPLETE; NO FURTHER ACTION: CMOD #11 - Final Cost \$15,500	CMOD #11 Approved
1252-0078	12/28/12		PCC 9, FA CO 1 PCC No. 9 - UMS Headwall - Unknown Buried Pipe	1	CMB-0100	Agree to Merit Agree to Cost	01/16/13 01/16/13	+75,000	Related to COR 063. SFMTA instructed BIH to perform investigation into the 48" diameter steel pipe as it is a Differing Site Condition. 01/30/13 01/16/13 - EE brought to CMB for cost NOT TO EXCEED amount \$75,000 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #04	CMOD #4 Approved
1252-0079	01/09/13		PCC 10 FA CO 3 PCC No. 10 - Relocation of TBM Retrieval Shaft - Excludes Button Up Costs	1					Modify Bid Item ST-4 (Construction of Base Bid Permanent Retrieval Shaft) and ES-4 (Ground Treatment at Retrieval Shaft Breakouts) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Excludes Utility Button Up and Site Restoration) 01/09/13 - Draft PCC10 presented to CMB for Contractor Design Activity to be paid on Force Account. NTE value \$20K presented to CMB as a draft copy, final copy distributed to the Contractor increased to \$50K. 02/20/13 - COST IS NOT REFLECTED HERE - SCOPE IS FUNDED BY OTHER CPT 690 \$\$\$\$ 03/06/13 - Cost proposal received from BIH. SFMTA will develop a detail estimate of what is believed to be the scope of work. 03/13/13 - PCC 10 presented for CMB change approval of \$50K NTE amount to perform design activities. CMB requested CM team return with a more detailed estimate, Contractor's cost proposal of the bulleted items as listed on the PCC and backup documentation as evidence of work completed by the Contractor. COMPLETE; NO FURTHER ACTION CMOD #20 (separate funding source used - CPT 690).	CMOD #20 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0080	12/19/12		Segment Measuring Frequency	7				-0	RFI 203.1 - In light of gauging frequency, and the difficulties of erecting a ring with cast in gaskets, BIH JV alternately proposes to assemble a ring on the Master ring at an interval of every 500th ring cast. The assembled ring would be comprised of randomly selected segments, or segments chosen by the Engineer. 12/11/13 - The CMB took exception to the deletion of the (\$1.3M) from the log without the consent of the Board. Direction was given to re-insert the credit and add a notation to the "comments section" the reasoning the dollar amount is no longer valid and should be removed.	
1252-0081	09/09/12		F21 and Old Navy Instrumentation Proposal	7				-0	Wang Technology is proposing instrumentation changes to the Liquid Level Sensors and Tilt Beams in the basements of Old Navy and Forever 21.	
1252-0082	01/14/13	68	UMS – AT&T Vault Walkway @ N Headwall	2		Agree to Merit	01/16/13	+2,000	SPM discovered an walkway at the UMS north headwall. This walkway is located at the UMS north headwall and connects the south AT&T vault, located within the utility demolition limits, to an north AT&T, located outside of the utility demolition limits. SPM proposes to construct 3'x5' wall to the extents necessary, inside this walkway. The wall will be constructed of plywood and necessary reinforcement in order to create a bulkhead that will isolate the walkway and north vault from the south vault. 01/16/13 - CMB recommendation Contractor/Sub-contractor proceed on Force Account with a "Not to Exceed Amount" \$2K. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$2,000.00	CMOD #16 Approved
1252-0083	11/08/12	69	UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	2	CMB-0153	Agree to Cost	4/23/14	+29,463	On or about 10-25-13, BIH/Synergy were installing sheet piles at the UMS SW head wall to demolish the existing basement wall in conflict with the head wall construction per contract requirements. During the driving of the sheet piles, Synergy struck a buried object which was later identified as a 48" Diameter steel pipe. See PCC 9 and 11. Synergy thought they were hitting a buried tie-back which was shown on the contract drawings. Synergy did not know at the time that they were hitting a buried 48" pipe. After hitting the buried object, Synergy installed additional sheet piles and enlarged the excavation area in order to clear the buried object and drive the sheet piles to the minimum embedment depth. Due to the larger excavation, Synergy is claiming impacts as a result of encountering this DSC including shoring revisions and for installing additional sheets. 06/05/13 - CM TEAM NOTES: COR 069 reopened by BIH to cover cost for enlarging excavation due to encountering the 48" buried pipe. Previously COR 069 was to cover capping and removal of the pipe until it was changed to PCC 11. 02/05/14 - CM TEAM NOTES: In IRL process 04/23/14 - EE brought to CMB for Cost Not to Exceed \$30K - Agreed. Change will be negotiated as a lump sum.	
1252-0084	01/24/13	PCC 11, FA CO 2	PCC No. 11 - UMS – Cap and Remove 48" Steel pipe	1	CMB-0105	Agree to Cost	1/23/13	+150,000	BIH/Synergy encountered a buried 48" Diameter steel pipe during work at the UMS S. Headwall. The pipe is located 6 feet from the south UMS headwall and 5 feet from the face of the curb. This PCC is to complete removal of pipe @ S. Headwall and investigate and remove pipe if necessary @ the North headwall. 01/30/13 - EE brought to CMB for cost NOT TO EXCEED amount \$150,000 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #09	CMOD #9 Approved
1252-0085	01/24/13	71	LB – Ramp Excavation Obstructions	2	CMB-0133	Agree to Merit Agree to Cost	4/3/2013 09/25/13	+5,594	BIHJV encountered numerous groups of wood piles while performing excavation of the Launch Box ramp. The wood piles are approximately 16"+ in diameter and are located along the north and south perimeter walls of the Launch Box ramp excavation area. 01/30/13 - CMB did not agree with merit of change suggestion the RE negotiate w/Contractor for another concession. 04/03/13 - COR merit evaluation presented to CMB again due to a greater number of obstruction encountered. CMB - Agreed to Partial Merit. 09/25/13 - EE brought to CMB for cost NOT TO EXCEED amount \$5,700. COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved

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Project Trend/Change Control Log

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1252-0086	02/08/13	72	Ellis Shaft Jet Grout Obstruction	2				-0-	On February 6th, 2013, CJA/NCC was drilling column R3 of the Ellis Shaft and reported hitting an obstruction 52ft below existing grade. The obstruction reportedly caused the jet grout monitor to shear off. At this time it is not known what the obstruction is or if it caused the monitor to be sheared off. Contractor no longer pursuing. CLOSED; NO FURTHER ACTION	
1252-0087	02/14/13	73	MOS - 16" Pipe removal @ NE Headwall	2	CMB-0118	Agree to Merit Agree to Cost	3/13/2013 05/08/13	+940	BIH-JV's subcontractor, Synergy, encountered an abandoned 16" pipe while installing the 12" waterline at the north headwall of Moscone. The pipe was at the same elevation as the new 12" waterline and therefore needed to be removed to facilitate the installation of the new 12" waterline. 03/13/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$989.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17	CMOD #17 Approved
1252-0088	NA		Whole Foods - Unknown brick obstruction in Comp Grout Trench	0				-0-	BIH has decided not to submit a COR as production was not significantly impacted. CLOSED; NO FURTHER ACTION	
1252-0089	03/11/13	75	Hazardous Waste Disposal Denial - Spoils Containment Cost Impacts	7				-0-	BIH submitted change order request (COR) 030 seeking reimbursement for the demonstrated additional costs of excavating, handling and disposing of excavated material found to contain hazardous material to a permitted landfill over that which can be disposed of at an unregulated dump site. The SFMTA refused reimbursement for such costs under the hazardous waste bid item allowance. As a result of this determination, BIH is modifying its approach to the construction and handling operations of tunnel spoils generated during tunneling operations. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated to included COR 30, 54 and 75.	
1252-0090	03/08/13	76	MOS - 16" Pipe removal @ SE Headwall	2	CMB-0119	Agree to Merit Agree to Cost	03/20/13 05/08/13	+1,116	BIH-JV's subcontractor, Synergy, encountered an abandoned 16" pipe while installing the 12" waterline at the south headwall of Moscone. The pipe was at the same elevation as the new 12" waterline and therefore needed to be removed to facilitate the installation of the new 12" waterline. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$1,116.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$1,116.00	CMOD #17 Approved
1252-0091	03/06/13	77	Comp Grout - WFB-5 Drilling Obstruction	2	CMB-0126	Agree to Merit Agree to Cost	04/03/13	+6,126	On March 06,2013, BIHJV encountered a potential Differing Site Condition (DSC) while drilling the compensation grouting hole WFB-5 located at Whole Foods and more precisely at CTL Station 160+38. This potential DSC consists of an obstruction located at a depth of 9' below grade which prevented CJA-NCC from drilling any further. 04/03/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$6,125.93 COMPLETE; NO FURTHER ACTION: CMOD #26 - Final Cost \$1,116.00	CMOD #26 Approved
1252-0092	03/07/13	78	Comp Grout - WF & ATT	2		Agree to Merit	3/20/13	-0-	BIHJV encountered multiple potential Differing Site Conditions (DSC's) of varying dimensions while excavating the compensation grouting trench for the drill holes located at Whole Foods and AT&T. -03/20/13 - Merit info presented to CMB - CMB agreed there was No Merit for this contract change. 05/24/13 - CM Team Notes - Contractor no longer pursuing due to failure to provide proper notification. CLOSED; NO FURTHER ACTION.	

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1252-0093	03/07/13	79	FA CO 4 Comp Grout - Old Navy	2	CMB-0116 CMB-0142	Agree to Merit Agree to Merit (addl) Agree to Cost Agree to Addl Cost	03/20/13 04/24/13 04/26/13 11/06/13	+259,373	BIHJV encountered a potential Differing Site Condition (DSC) while sawcutting the pavement for the compensation grouting holes located at Old Navy. The original design was to drill the compensation grout holes between two existing PG&E lines. It was discovered in the field that there is not enough clearance between the existing PG&E lines for the original design to be possible and multiple other potential DSCs were also encountered including, but not limited to, tile duct banks, concrete of unknown contents, and steel pipes. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 04/24/13 - Addl info presented for rationale for Contractor to demob and remob drill rig due to insufficient clearance between existing PG&E lines to drill the grout holes - Agreed 04/26/13 - COR presented at a special CMB mtg to notifying CMB of need to have Contractor perform work on FA4 for a NTE amount of \$70K. 05/15/13 - Addl request for funds to cover (Inefficiencies) - agreed for a not to exceed amount \$152,000. 11/06/13 - EE brought to CMB for cost. NOT TO EXCEED \$37,380 for the (remaining cost) parts 2 and 3 of 4 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #23	CMOD #23 Approved
1252-0094	03/12/13	80	MOS – Asbestos Wrapped 20" water line @ Headwalls	2		Agree to Merit	04/03/13	-0	BIHJV's subcontractor, Synergy Project Management was performing the installation of low pressure water distribution piping at the Moscone north headwall and discovered an unknown material wrapping around the existing 20" waterline which appeared to contain asbestos material. 04/03/13 - Merit info presented to CMB - Agreed 07/10/13 - CM Team Notes - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0095	03/11/13	81	12" Waterline Tee Connection Location (MOS South)	2		Agree to Merit	04/03/13	+3,001	BIHJV's subcontractor, Synergy Project Management, encountered a potential Differing Site Condition (DSC) upon exposing the tie-in point for the 12" waterline at the south headwall of Moscone. The potential DSC consists of two 45 degree elbows in the existing 12" waterline at the point of the tee connection. SFWD has surveyed the field conditions and indicated that the tee connection will need to be moved to the west. 04/03/13 - Merit info presented to CMB - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$3,000.00	CMOD #17 Approved
1252-0096	03/13/13	82	MOS 20" Conflict with 16" AWSS @ South Headwall	2				+31,573	Upon exposing the existing 20" waterline at the south headwall of MOS, in preparation for installing the new 20" waterline shown on WD-403 and amended by RFI 0155, BIHJV's subcontractor Synergy Project Management encountered a potential DSC. The potential DSC consisted of a crossing conflict between the new 16" AWSS, the new 20" waterline, and the existing 6" PE gas. These three utilities cross at multiple locations however the existing depths are roughly the same. 01/22/14 - Item reviewed at the CMB mtg as a status update to potential cost exposure. Item now being discussed in the IRL process.	
1252-0097	03/19/13	83	Ellis Shaft Concrete Obstruction	2	CMB-0127	Agree to Merit Agree to Cost	04/17/13 07/24/13	+1,420	During excavation for the Ellis Street Shaft, BIHJV's subcontractor, CJA-NCC, encountered a concrete obstruction at approximately 10 feet below grade. CJA-NCC spent 4 hours removing the obstruction. 04/17/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$1,424.52 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0098	03/16/13	84	Crate & Barrel Water Intrusion	2				-0	Water was discovered seeping into the Crate & Barrel basement in concert with secant pile installation at Pile #SRV-A. At the time, pile excavation was approximately 90 feet deep. BIHJV's subcontractor, CJA-NCC, stopped pile installation and placed lean concrete within the pile excavation. This allowed them to continue secant pile construction on other piles until which time SFMTA could provide appropriate mitigation for the water leak. 07/03/13 - CM Team will deny merit, notice not received within 7 days. CLOSED; NO FURTHER ACTION	

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Project Trend/Change Control Log

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1252-0099	04/05/13	PCC 12, FA CO 6	PCC No. 12 - Modifications to Tunnel Alignment at Market Street	1	CMB-131	Agree to Merit Agree to Cost (Conditionally)	08/14/13 08/14/13	+1,668,434	IFB Tunnel Profile conflicts with micro-piles installed under Contract 1251. Tunnel Profile needs to be revised (lowered) such that TBM and Tunnel structure is below previously installed micro-piles. Contractor shall revise compensation grouting design to conform to Contract requirements given the revised tunnel alignment. 04/03/13 - CMB agreed to Micropile profile change being forwarded to the Contractor. 04/10/13 - Updated alignment was presented superseding 04/03/10 version - (lowered 4.9%) 04/10/13 - Original Contractor submittal needs to be evaluated to verify the new alignment has been incorporated. 08/14/13 - Merit Evaluation and PCC 12 Cost NTE (Construction portion) was presented to the CMB for approval. The CMB agreed to merit contingent upon verification signature by the Designer (DP1) of additional work and cost associated with the change. NTE Value \$41,470.01 - Agreed	
1252-0100	03/26/13	85	SFWD Impacts at MOS North	2				+71,300	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastside of 4th street to be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 04/10/13 - Item reviewed at CMB meeting during review of Trend/Change Log COR's. CM team contends this is not a valid change and will reject the Contractor's claim of merit. Contractor has submitted a notification of Claim #3 for standby cost for this item. The CM Team will respond by 02/14/14.	
1252-0101	01/28/13	87	Cross Passage 5 - Value Engineering Change Proposal	5				(2,674)	As indicated in Contract Drawing No. ES-144, ground treatment for the excavation of CP5 was anticipated to be performed using jet grouting methods. BIHJV proposes to perform ground freezing from within the tunnels as an alternative ground treatment methodology, thereby avoiding the need to disrupt and impact the public by occupying 4th Street for an extended period. 04/24/13 - Item reviewed at CMB mtg. during review of Trend/Change Log COR's. CMB suggested a credit from the Contractor should be received for Bid Item ES-5. In addition suggested a minimal review of the BIH's proposed ground freezing method be done by the PB. COMPLETE; NO FURTHER ACTION: CMOD #25	CMod #25 Approved
1252-0102	04/09/13		UMS - Secant Pile SRV-J Obstruction DSC	2				-0-	BIHJV's subcontractor, CJA-NCC, encountered a potential Differing Site Condition (DSC) while drilling for UMS Secant Pile #SRV-J. The DSC consists of what appears to be an abandoned utility pipe located approximately 10 feet deep. 04/24/13 - Information presented to CMB during review of Trend Log. CM Team states COR merit will be rejected due to notification of change not met in timely manner per the contract docs. 05/24/13 - CM Team update - Contractor no longer pursuing due to untimely notification of event. CLOSED; NO FURTHER ACTION.	
1252-0103	04/18/13	88	SFWD Impacts at MOS South	2				-0-	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastside of 4th street to be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 05/08/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to no merit. This item is not on the critical path. 06/17/13 - Contractor no longer pursuing. CLOSED; NO FURTHER ACTION.	

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1252-0104	06/06/13	PCC 13 - SFWD Excavation, Support and Backfilling	1	CMB-0122 CMB-0128	Agree to Cost Agree to Addl Cost	06/19/13 08/09/13	+33,982	Excavation, support and restoration work at two locations required to facilitate fitting/valve installation work by the San Francisco Water Department. Installation of valves are to facilitate fire service connection cutover and cutting off of the existing water main. The existing water main is in the footprint of the UMS station piles and is to be abandoned. 06/05/13 - CMB agreed to change required; work must be completed sometime in June 2013 06/19/13 - Cost estimate presented; CMB agreed for a NTE of \$20K 08/07/13 - CMB viewed the estimate requesting the narrative be rewritten to tell the entire story of what has generated the change. 08/09/13 - Special CMB Mtg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 13 (Macy's Backflow work). CMB approved additional work and scope for a NTE value of \$14,100 for a total change value of \$34,100 COMPLETE; NO FURTHER ACTION: CMOD #18 executed for \$20K. Supplementary CMOD #24 executed for #13,982 was issue for remaining cost.	
1252-0105	05/30/13	Abandoned Well at MOS Panel N-4	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered an obstruction that appears to be an abandoned monitoring well within the Moscone Slurry Wall Panel "N-4". Contractor claims impacts resulting from this alleged DSC include, but are not limited to, excavation inefficiency, the required backfilling of the panel with lean concrete on multiple occasions, and re-excavations of the panel. 06/19/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to several reasons of "no merit" Items in the IRL process	
1252-0106	01/00/00	PCC No. 9 and 11 - Remaining Budget	0				(71,885)		
1252-0107	12/13/12	Credit - North headwall panel N-2 at Moscone	7				(4,943)	During installation of the reinforcement cage at panel N-2 at the Moscone North Headwall a 1-inch dia. Polyester sling used for lifting could not be detached from the reinforcement cage. The slings were then casted in-place. SFMTA requested a credit CO for the CN 1300 contractor to demolish the concrete and slings and replace the structural concrete. 07/10/13 - NCR condition of the wall be provided in order to prepare engineer's estimate for credit amount. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0108	04/11/13	Credit - Secant pile SRV-H, UMS south headwall	7				(263)	During concrete placement, the dummy steel beam that was used to hold down the secant pile steel beam reinforcement for pile SRV-H @ the UMS south headwall could not be removed and was poured in-place. SFMTA requested a credit CO for the CN 1300 contractor to demolish this beam between El. 16.66' and the beam top. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0109	09/24/12	Credit - 65 feet of water pipe not installed at MOS	7				-0-	Contract Drawings WD-403 & WD-404 shows the 20" low pressure water line cutting through an area in the intersection where the joint trench is in the way. BIHJV's subcontractor, Synergy Project Management, with SFMTA's concurrence, installed the water line tie-in per a configuration which resulted in approximately 65' less line required to be installed. SFMTA requested a credit CO to eliminate 65' of the line.	
1252-0110	02/06/13	Credit - Switching of the 12" and 20" lines at MOS	3				(30,469)	It was discovered that the field locations of the 12" water line and 20" water line were actually "switched" from the location shown in contract drawing WD-402 Rev.0. SFMTA requested a credit CO as less 20" water line was required to be installed than was originally anticipated.	
1252-0111	07/16/13	Green St Shaft - Design Cost Impacts for Jet Grout	7				-0-	BIHJV: "BIH and CJA-NCC are in receipt of the SFMTA's revised submittal review comments for Submittal No 31.43.14-003 (review cycle 3) dated July 10, 2013, where the SFMTA determined that the previously submitted content does not fulfill the contract requirements. The submittal status was changed from "Approved" on March 21, 2013, to "Disapproved - Resubmit" on July 10, 2013. The SFMTA states that the submittal was reviewed in further detail and it was determined the submittal didn't fulfill the contract requirements. This new submittal determination will result in additional costs to the SFMTA." 07/24/13 - Information presented to CMB during review of Trend Log. CM Team preparing letter of no merit, due to disagreement of dwg shown. CLOSED; NO FURTHER ACTION	

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1252-0112	07/16/13	96	Micropiles @ UMS Tangent Pile SRB-H	2		Agree to Merit	07/31/13	+52,624	Excavation for battered secant pile SRB-H began on July 12. At approximate depth of 30'. CJN reported hitting an obstruction. Two, 36" and 45" long, No. 18, Dywidag bars were discovered within spoils of the first bite of the clamshell bucket. The 2-1/2" diameter bar was consistent with the micro piles installed in the previous contract. 07/24/13 - Draft merit evaluation presented to CMB. CM Team reported further investigation needed to verify survey location of micropiles. CMB requested a specific dwg of 1251 As Built of piles be presented at next CMB. 1251 Contractor will be put on notice referencing the CS CN1251 Ltr. #018 - Future Potential Costs Due to Incorrect Micropile Placement. 07/31/13 - Merit Approval presented to CMB - Agreed. Notification of Possible Micropile Obstruction to CN1252 and possible CN1300 work was sent to CN1251 Contractor. COR was rescinded. CLOSED; NO FURTHER ACTION	
1252-0113	01/09/13		Relocation of TBM Retrieval Shaft - Columbus Ave. Restoration	1				+261,057	Modify Bid Item GE-3 (Utility Demo, Sewer, Road Demo, Pavement Restoration, etc.) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Includes Utility Button Up and Site Restoration Only) 07/24/13 - Information presented to CMB during review of Trend Log. CMB requested LS Bid Item be broken-down based on contract work to see how much money would be put in to perform the restoration button up cost. In addition the CMB requested the item description be change to "Columbus Ave. Restoration" in order to not confuse it with PCC 10 Retrieval Shaft work. COMPLETE; NO FURTHER ACTION: CMOD #21	CMOD #21 Approved
1252-0114	07/24/13	97	Ellis Shaft – TAM ES2-01 and ES2-17	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within the drill spoils from two separate Ellis Shaft TAM installations, TAM ES2-01 and ES2-17 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit info presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0115	08/07/13	98	Ellis Shaft – TAM ES2-16	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-16 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit evaluation presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0116	08/08/13	99	MOS – AWSS Vault Over pour @ South Headwall)	2	CMB-0134	Agree to Merit Agree to Cost	09/25/13	+2,394	BIHJV: "While performing AWSS work at the MOS South Headwall, Synergy crews found the mechanical joint Tee bolts, required for the AWSS point of connection, to be completely encased in concrete. The concrete encasement appeared to be concrete over pour remaining from a previous contractor's AWSS vault wall pour." 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. 09/25/13 - Merit evaluation presented to CMB - Agreed. 09/25/13 - Eng. Est. presented to CMB for cost NOT TO EXCEED \$2,400 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Approved
1252-0117	08/15/13	100	Ellis Shaft TAM ES2-08	2		Agree to Merit	08/28/13	-0-	BIHJV: "August 12, 2013, BIHJV's subcontractor, CJA-NCC, struck a hard unknown object while drilling the Ellis Shaft TAM ES2-08." 08/28/13 - Merit evaluation presented to CMB - Agreed CMB requested a investigation plan to be developed and included in this COR if the plan is implemented. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0118	08/23/13	101	Ellis Shaft TAM ES2-11	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-11 09/11/13 - Viewed at CMB during review of Trend/Change Log COR's. CLOSED; NO FURTHER ACTION	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1252-0119	09/03/13	102	UMS Jet Grout Column 18 DSC Headwall	2				+13,758	While drilling down on column #18 at the UMS south headwall, BIHJV's subcontractor, CJA-NCC, encountered a hard unknown obstruction. 09/11/13 - Item reviewed at CMB mtg. during review of Trend/Change Log. 10/16/13 - DSC presented for merit approval - No action was taken by the CMB. The CM will investigate if the 1252 Contractor received the 1251 As built information by the start of operations. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0120	09/05/13	103	Retrieval Shaft Additional Slip Lining Pipe Qty	4				-0-	RFI 251.1 SFMTA Response: Specification 33 31 00 1.01.A.22 Sewer Work, states, " Slip lining existing 3-foot by 5-foot brick sewer with 16-inch and 24-inch diameter HDPE Pipe (polyethylene pipe) nominal size SDR 26." As such, slip lining is to be performed for both the 16" and 24" diameter HDPE pipe. Branches indicated in the supplied sketch to be relined along Stockton and Columbus are acceptable. In addition, the 33-ft long branch that crosses the alignment at CTL 86+35 must also be relined. Acceptable alternative (to fused HDPE) pipe materials and sizes for this branch can be proposed by BIH. BIH shall submit the propose alternative for this branch of pipe for SFMTA review. The use of coupled PVC is not acceptable." 09/11/13 - Item viewed at CMB mtg. during review of weekly Trend/change log. No dwg for this work only a table. CM Team working with designer to make the determination. Item now being tracked under PCC 16. CLOSED; NO FURTHER ACTION	
1252-0121	09/06/13	105	Retrieval Shaft Relocation of Seismograph	1				-0-	BIHJV: "BIHJV's instrumentation subcontractor, Wang, was directed to relocate one of the vibration monitoring devices (Seismograph) installed at the Retrieval Shaft area to monitor vibration induced by demolition operations of the existing Pagoda Theater building." 09/11/13 item reviewed at CMB meeting during review of weekly Trend/Change log. CMB doesn't agree with the relocation charge and requested a better definition of the item. 01/22/14 - Item viewed at CMB as an status update. SFMTA letter No. 241 sent to Contractor denying merit. CLOSED; NO FURTHER ACTION.	
1252-0122	04/19/13	89	UMS - Suspended Remobilization of Jet Grout Rig	7				-0-	BIHJV: "The SFMTA directed BIHJV/CJA-NCC to suspend the planned remobilization of the Jet Grout Rig at the UMS location due to external affairs with local UMS businesses." 09/11/13 - Item reviewed at CMB mtg. during review of weekly Trend/change log. CMB questioned the timeliness of the COR also requesting a better definition of the item. Item has been elevated to the Issue Resolution Ladder (IRL) process.	
1252-0123	09/10/13	104	Retrieval Shaft - Additional Sewer Slip Lining 16" HDPE Pipe	4				-0-	BIHJV: "BIHJV submitted RFI Nos. 275, 275.1 and 275.2 requesting clarification about specific sewer slip lining runs at the Retrieval Shaft, see Attachment Nos. 2, 4 and 6. The SFMTA responded, via RFI No. 275.2, stating that the slip lining is to be installed in a stacked configuration with the 24" over the 16" HDPE pipe, see Attachment No. 7. BIHJV and Synergy believe the SFMTA's response to install stacked HDPE slip lining pipes is additional work as the contract documents do not support this statement." 10/02/13 - Item reviewed at CMB mtg. during review of the weekly Trend/change log update. The CM states the DSC maybe eliminated. Waiting for a response from PUC now there is a as built condition. Letters are being written between SFMTA and SFPUC. 01/22/14 - Item viewed at CMB mtg as an update to potential cost exposure.	
1252-0124	Notification - 9/17/13, PCC - 12/11/13	PCC 17	Green Street Sewer Changes	2		Agree to Merit	9/25/2013	-0-	In preparation to beginning slip lining work at the intersection of Columbus/Green/Stockton, the Contractor performed a site investigation of the existing 3'x5' brick sewer. The Contractor discovered 4 unknown pipes intersecting the sewer. Received email from DPW on Oct 18 regarding proposed new direction to spray mortar sewer line in lieu of slip lining. DPW also requested additional slip lining on Columbus from Sta. 83+50 to Sta. 85+50. 09/25/13 - DSC presented for merit approval - Agreed. CMB directed the CM Team to ask the Contractor for recommendation to slipline as much of the sewer line as possible without rerouting the conflicting pipe lines. 01/22/14 - Item viewed at CMB mtg as a status update to projected cost exposure. Item will be tracked under PCC17.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0125	10/24/13		PCC 14 Modifications to AWSS Facilities at 4th and Bryant Streets	1				+35,925	Deletion of 12" AWSS diagonal sleeved pipe crossing and hydrant lateral. Installation of 12" AWSS restrained pipe and hydrant lateral. 10/16/13 - Draft PCC reviewed at CMB. The Board is in agreement with the modification. 10/23/13 - Engineers estimate for new work \$136,478 and deleted work (\$163,382) was presented to the CMB. PCC will be forwarded to the Contractor to price the work. In addition a cost estimate will be done for the work which would have been under the 1300 contract. 04/16/14 - CMB authorize the RE to negotiate with the Contractor for a amount up to \$35K.	
1252-0126	10/14/13		108 Ellis shaft and Old Navy Grouting	2				-0-	BIHJV's subcontractor, CJA-NCC, claims to have discovered material (cemented zones) different than that described in the Geotechnical Baseline Report in the Ellis Shaft and Old Navy Grouting Zones. 10/23/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The CM stated this item will be rejected, due to a lack of information being supplied by the Contractor to validate the COR. SFMTA sent Letter No. 247 & 253 denying merit.	
1252-0127	10/25/13		FA CO 8 Remove and replace material at Retrieval Shaft CSM wall	1				+22,300	Contractor to remove hazardous material (approximately 250 CY) found in the footprint of the Retrieval Shaft Cutter Soil Mix (CSM) wall and replace with both clean material found on-site (approximately 190 CY) and import material (approximately 60 CY). 10/30/13 - Item reviewed at CMB during review of weekly Trend/Change log. Work to proceed on FA for a NTE amount of \$22,300.	
1252-0128	10/03/13		FA CO 7 Acceleration of Work Activities at Retrieval Shaft	1				+5,000	SFMTA to compensate BIHJV for premium time incurred on October 5th, 2013 to accelerate the completion of the site work and soundwall at the Retrieval Shaft. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. 01/22/14 - Item reviewed at CMB mtg as a status update to potential cost exposure.	
1252-0129	10/30/13		0 UMPs on 96-inch Sewer	2				-0-	BIHJV's subcontractor Wang Technology claims to have encountered a DSC (brick structure) while drilling for utility monitoring points on Howard Street. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0130	Notification - 11/8/13, PCC - 12/9/13		PCC 16 Ret Shaft Sewer Changes	2				-0-	BIHJV's subcontractor Synergy Project Management claims to have encountered the following DSCs while performing an investigation into planned slip lining work at the intersection of Columbus/Union/Powell: Internal clearance issues, unforeseen lateral connections, mixed debris and grease buildup inside sewer, and tighter radius than was anticipated for the planned junction structure. 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The Board suggested the CM Team ask the PUC to tell us what they would like the Contractor to do. 02/05/14 - FACO 10 was presented for consideration to add a 16" pipe. The CMB took no action. Direction was given to investigate the use of the pipe and to determine the most cost effective approach to reach PUC's desired equivalency of the 36" pipe removed.	
1252-0131	11/13/13		FA CO 9 Obstruction hit at CSM panel W6	2	CMB-0146	Agree to Merit Agree to Cost	12/11/13	+6,927	BIHJV's subcontractor Drill Tech claims to have encountered a DSC (unknown steel members) while performing Cutter Soil Mixing (CSM) on panel W6 at the Retrieval Shaft. 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. This item will be tracked on FA. 12/11/13 - Merit evaluation presented to CMB - Agreed. EE presented for cost NOT TO EXCEED \$9,000 - Agreed	
1252-0132	11/12/13		0 Material Hardness at Retrieval Shaft	2				TBD	BIHJV's claims to have encountered ground material characteristics that are significantly harder than anticipated based on the information provided during the negotiations of PCC 10 (Relocation of Retrieval Shaft). 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0133	PCC - 11/25/2013		PCC 15 Deleted AWSS Work at Union St and Columbus Ave	1				(187,181)	PCC 15 issued to: 1.) Delete all work associated with the removal and disposal of the Auxiliary Water Supply System (AWSS) utilities as shown on Contract Drawing No. AW-501.1 Rev.0. 2.) Delete all work associated with furnishing and installation of AWSS utilities as shown on Contract Drawing No. AW-501.9 Rev.0. Note: Monitoring of existing AWSS line to be performed in lieu of installation of new AWSS utilities. 12/11/13 - Item reviewed at CMB during review of weekly Trend/Change log. 02/19/14 - Cost revised based on Eng Est. and scoping meeting w/Contractor.	
1252-0134	PCC - 12/27/2013		PCC 18 Retrieval Shaft Site Supervision	1				-0-	PCC 18 issued to provide for the Contractor's supervision and engineering services during the compensation grouting activities at the Retrieval Shaft. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Change log. 01/29/14 - PCC presented for review. CMB agreed with change.	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1252-0135	Notification - 12/18/13	Retrieval Shaft Comp Grout Array 045 Obstruction	2				-0	BIHJV's subcontractor, Drill Tech, encountered a concrete obstruction at the Retrieval Shaft location on December 17th, 2013 when performing survey layout of the design location for several of the comp grout holes in the 045 array. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Chang log. The CM reported the Contractor will be notified there is no merit for this change request. SFMTA denial letter No. 270 sent to Contractor.	
1252-0136	PCC - 02/20/2014	Installation of Piping, Conduit and Casing at Fourth Street Portal	1				TBD	PCC 19 issued to provide standpipe piping, telephone and train signal conduits, and casing at Fourth Street Portal. 02/26/14 CMB agreed on Jan. 29, 2014 with forwarding the PCC to the Contractor for pricing.	
1252-0137	03/07/14	North Beach Sewer Work	1	CMB-0152	Agree to Cost	03/12/14	-0	Contractor directed to proceed with work on a Force Account basis for 'Sewer Work on Columbus and Powell St (North Beach)' in accordance with Force Account Change Order No. 010 03/12/14 CMB authorized a NTE amount of \$10,000 to start negotiations with the Contractor on the forthcoming PCC 20 for the price of the plates. Contractor's written cost for standby required to complete negotiations.	
1252-0138	03/28/14	Curb Ramp Work at NE Corner of 4th and Harrison Streets	1				+4,500	Contractor directed to proceed with work on a Force Account basis to install modified curb ramps and additional sidewalk flags in accordance with Force Account Change Order No. 011. 03/26/14 - CMB authorized a FACO NTE amount of \$4500., which will be reimbursed by PG&E through the form B process.	
1252-0139	01/09/14	BART - Additional Load Cells					+1,066	BIHJV: "In accordance with the SFMTA's direction, BIH is providing two new fully functional load cells (the same model as currently installed in the BART tunnels) as well as two new DTI Squirters (the same model as currently installed in the BART Tunnels). It is BIHJV understanding that the SFMTA may decide to replace load cells #M1-75A and #M2-75A currently installed in the BART existing tunnels with the instruments hereby provided by BIH-JV and that the replacement operation will occur without BIHJV technical support."	
Contract 1252 Totals							+2,607,596	Total Changes and Potential Change (trends) to the contract are currently \$2,607,596 Out of Scope Changes to the Contract for Relocation of TBM (Trend 79, PCC 10) to be paid out of CPT690, funded separately. Not include in total above and being tracked separately from original Program Costs of \$1.5783B	
CONSTRUCTION TRENDS (Based on #1252 Trending Log and CMod) - SUBTOTALS:							+2,607,596	The \$2,607,596 represents an UNDERRUN of allocated contingency. Current Balance = (23,658,463 - 2,607,596 = \$21,034,616 This does not include potential reimbursements from utilities.	
DESIGN TRENDS									
FD-001	07/31/10	084-0001	Narrowing of Platform at UMS	1	CMB-0006	Agree	08/04/10	(800,000)	[In "Current Forecast" - Sep2010 Cost Report.]
FD-002	07/12/10	084-0002	Redux of Station Emergency Ventilation Fans (UMS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(2,000,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-002	07/12/10	085-0001	Redux of Station Emergency Ventilation Fans (CTS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(500,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]

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FD-003	07/31/10	085-0002	Lowering of CTS	1	To be verified	Info Only	08/25/10	+7,000,000	Presented to CMB for information/consideration.
FD-004	07/29/10	084-0003	UMS Structural Configuration	1	CMB-0007	Agree	08/18/10	(8,000,000)	[In "Current Forecast" - Sep2010 Cost Report.]
FD-005	08/22/10	084-0004	UMS Alternate Station Access/Vent Shaft @ Union Square	1	CMB-0010	Agree	12/29/10	(22,500,000)	Documentation to be filed.
FD-006	08/03/10	084-0005	Station Headwalls - UMS	1	CMB-0008	Agree	08/18/10	-0-	
FD-006	08/03/10	086-0002	Station Headwalls - MOS	1	CMB-0008	Agree	08/18/10	-0-	
FD-007	08/03/10		Cross-passages	1	CMB-0018	Agree	09/15/10	-0-	
FD-008	07/30/10		Trolley Re-route @ Columbus & Powell	1	CMB-0017	Agree	09/15/10	+2,000,000	
FD-009	10/06/10	082-0003	ECP to Modify Sidewalk Vault Demolition and Construction Sequence to Facilitate Construction of Joint Utilities Trench and Future UMS Station	1	CMB-0019	Agree	12/15/10	+3,000,000	
FD-010	10/06/10	082-0004	Redesign Stockton Street Sanitary Sewer to conform to SFPUC Sewer Criteria that preclude placement of relocated sanitary sewer under sidewalks	1	CMB-0020	Agree	11/17/10	+2,000,000	
FD-011	10/06/10	082-0005	Reconfigure Routing of Water, Sewer and Gas laterals from buildings on north side of Ellis Street	1	CMB-0021	Agree	11/17/10	+500,000	
FD-012	10/06/10	082-0006	Recognize cost transfers from design allowances allocated to contingency to explicit line items in final design estimates	1	CMB-0022	Disagree	11/17/10	-0-	
FD-013	10/06/10	082-0007	Increase Extent of Sub-sidewalks Vault Secondary Closure Walls and Waterproofing	1	CMB-0023	Agree	11/17/10	+4,100,000	
FD-014	10/06/10	082-0008	Include OCS system for rerouting trolley buses to Fifth Street	1	CMB-0024	Agree	12/15/10	+3,100,000	
FD-015	10/06/10	082-0009	Subsidewalk Vault Secondary Closure Walls for Buildings at 800 Market and 838 Market	1	CMB-0025	Agree	11/17/10	+1,000,000	
FD-016	10/06/10	085-0003	Underpinning of Mandarin Tower	1	CMB-0011	over taken by FD-021	01/19/11	+5,000,000	Additional Information Pending.
FD-017	10/06/10	085-0004	CTS Ground Improvement	1	CMB-0012	over taken by FD-021	01/19/11	+10,300,000	Additional Information Pending.
FD-018	10/06/10	084-0006	UMS Apple Store Entrance	1	CMB-0013	Disagree	11/10/10	-0-	Additional Information Pending.
FD-019	10/06/10	086-0003	MOS TOD Configuration	1	CMB-0014	Agree	11/10/10	TBD	
FD-020	10/06/10	084-0007	UMS Emergency Stair #4 Relocation	1	CMB-0015	Agree	11/10/10	TBD	
FD-021	01/14/11	085-0005	CTS Lowering and Stations Reconfiguration	1	CMB-0027	Agree	01/19/11	(18,000,000)	Agreement with changes to project configuration only. Additional Information required related to cost and schedule impacts. No agreement on Design cost impact. Design costs directly related to this change to be tracked separately
FD-022	02/16/11	084-0008	Sewer Replacement along Geary & O'Farrell	1	CMB-0029	Agree	02/23/11	(134,000)	This trend has both an EPC number as well as a Construction Trend Number. See also Construction Trend No. 1251-0003
FD-023	11/17/10	087-0001	Emergency walkways through crossover cavern changed from outside the main tracks to between the main tracks.	1	CMB-0032	Agree	07/27/11		
FD-024	11/17/10	087-0002	Diamond crossover on surface segment to a tandem (universal) crossover.	1	CMB-0033	Agree	08/24/11	(350,000)	
FD-025	04/13/11	083-0001	Bid Option for TBM Retrieval Shaft		CMB-0034	Agree	04/13/11	(10,000,000)	Will require changes to Bid Schedule to incorporate Traffic, Utilities and Pavement Demo/Restoration as incidental costs to the Bid Option. Estimated DP1 cost impact is approx. 80-100 hrs. of engineering time.
FD-026	05/31/11	084,085,086	Air Replenishment System for Stations	1	CMB-0040	Agree	07/13/11	+1,245,000	Install air replenishment system at MOS, CTS and UMS to address the requirements of the SFFD Bulletin 5.07. The air replenishment system will be used to fill firefighter's self-contained breathing apparatus during firefighting operations in the three subway stations.
FD-027	07/21/11	082-0010	1 Stockton street (Apple Store) Secondary Closure Wall		CMB-0043	Agree	08/03/11	+500,000	1) Add secondary closure wall to supplement recently completed primary closure wall built by owner to isolate the sub-sidewalk basement of 1 Stockton Street (Apple Store). 2) Modify position of joint trench (and all associated conduits, ducts etc.) for secondary closure wall to be constructed.

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FD-028	08/03/11	086-0004	MOS Revisions to Emergency Ventilation Requirements		CMB-0052	Agree	09/07/11	+500,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$321,645.	
FD-029	08/08/11	085-0006	CTS Revisions to Emergency Ventilation Requirements		CMB-0053	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$411,895.	
FD-030	08/08/11	084-0009	UMS Revisions to Emergency Ventilation Requirements		CMB-0054	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated 733,420.	
FD-031	10/31/11		Accessibility Improvements at the SE corner of Union Square (UMS)							
FD-032	10/31/11		Union Square Entrance Reconfiguration (UMS)							
FD-033	10/31/11		Additional Compensation Grouting due to Tunnel Settlement Alert and Trigger Levels (All Stations)					+21,040,000	ECP dated 11/17/11. ECP being routed for approval.	
FD-034	12/09/11		Operational Performance and Safety Enhancement at 4th and King		CMB-0062	Agree	12/14/11	+450,000	SFMTA Operations requested that the design of the 4th & King tie-in work be expanded to include a number of improvements at the junction involving the turn-back area extending to the scissors crossover at 6th & King. SFMTA Ops confirmed that the requested changes result in an arrangement that is consistent with standard operation practices and therefore does not involve new or unacceptable risks. CS 1553 Memorandum No. 0081. Conditionally agreed upon verification/resolution of Buy America issue for the switches. 3/14/12: "Buy America" issue no longer applicable. Revised ECP element - remove H&K switch machines and replace with hydraulic/120V switch machines such as Nortrak or equal.	
FD-035	06/26/12		Tunnel Air Replenishment System		CMB-0071	Agree	07/11/12	+1,215,000	Design and construct a fire fighter air replenishment system for Central Subway tunnel as described in SF Fire Code 511.2, Bulletin 5.07 except as noted in the Central Subway Request for Approval of Variance for the ARS to SFFD on March 5, 2012, and subsequently approved by SFFD. Design Impact: ROM - \$215K Construction Impact: ROM - \$1M	
FD-036	06/26/12		Surface Segment Sewers - 4th St.		CMB-0072	Agree	07/18/12	+2,200,000	Replace current unreinforced brick crown from 1906 as it may not be able to withstand loading for construction of the CS trackway section. Reconstruct manholes between Brannan and King Streets as existing are in conflict with proposed rail. Replace service laterals and provide sleeves for future replacement. Additional potential scope option of \$1.5M-Sewer and \$2.3M-Force Main may be requested. If so, it will be Cost to SFPUC	
FD-037	08/27/12		Platform Display System Signs		CMB-0077	Agree (Conditionally)	08/29/12	+500,000	Modify Stations (Contracts 1253, 1254 and 1255) and Surface, Track and Systems (Contract 1256) technical specifications and drawings for the Platform Display System (PDS) to match the changes made to the PDS units being supplied under the Integrated Systems Replacement (ISR) Project, Contract No.1260. 08/29/12 - CMB agreement condition upon follow up action to evaluate procurement by CN1260	
FD-038	11/7/2012 06/05/13		Elongated Sidewalk Bulb-out at Chinatown Station		CMB-0121	Agree	06/05/13	+36,000	CTS Sidewalk Bulb out (Southwest corner Stockton/Washington To bring the Central Subway Project - Chinatown Station in closer conformance with the City's General Plan, SF Planning Department in its May, 2012 GPR Letter (recommends) making design changes specifically the extension of the sidewalk bulb-out at Stockton Street to help create a "station plaza". This elongated bulbout on the southwest corner (SWC) of Stockton and Washington Streets in front of the station headhouse would also include bike racks, benches, trees and other landscape features. 06/05/13 - CSDG designer estimate cost is not a CS expense. Add funding source will need to be establish by San Francisco Planning to support the investigation study Design Impact: Estimated Construction Cost ROM \$36,200 Construction Impact: Estimated ROM 97 Hrs.: DPW Pavement/Sidewalk Design Modification Estimated ROM 60 Hrs.: CSDG bus door/mirror/tree/bike rack coordination	

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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FINAL DESIGN TRENDS (Based on All ECPs) - SUBTOTALS							+4,902,000	Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	
OTHER TRENDS									
X51-001	07/31/10	082-0001	1251 Revised estimate, escalation impact and contingency.	7			+9,532,314	Cost Transfer #0033 (Base \$\$), 0033a (Allocated Contingency), 0036 (Base \$\$ Escalation , 0036a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0033, BT-0033-A, BT0036, BT-0036-A
X51-002	07/31/10	082-0002	Form B Credit for 1251 Utilities	7			(7,697,949)	Reserve and Contingencies removed as per communications with PG&E. This is consistent with the 1250 utility agreement. [Cost Transfer #0034 - Aug2010 Cost Report].	BT-0034
X52-001	07/31/10	083-0001	1252-(TUN) Revised estimate, escalation impact and contingency	7			(2,165,462)	Cost Transfer #0035 (Base \$\$), 0035a (Allocated Contingency), 0037 (Base \$\$ Escalation , 0037a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0037, BT-0037-A
X03-001	08/31/10	003-0001	OEWD's Pilot Training Program	7			+75,000	Workforce training pilot program in conjunction with the City/County's Office of Economic and Workforce Development (OEWD). Provides specialized training to SF residents to perform tunneling work. Central Subway financial responsibility being investigated. Requires further clarification	
X53-001	07/18/11	084-0001	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment YOY	7	CMB-0044	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X53-002	10/25/11		Change UMS Advertise Date to April 4th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X53-003	04/11/12	084-0002	CN1253 (UMS) Construction Budget Adjustment 90%				+55,720,600	CMB is currently vetting the 90% estimate of \$221,534,723 which represents a \$XX increase from the 65% base amount in 2010\$. Increase would deplete current YOY dollars and require use of unallocated contingency.	
X53-004	06/26/12	084-0002	Approve/Execute/Certify durations change for UMS Contract					Shortened the duration for Approve/Execute/Certify - UMS Contract from 40 to 24days to reflect an optimistic but doable duration for contractor submittals.	
X54-001	07/13/11	085-0001	CS 155-2 (DP2) CBP5 - Construction Budget Adjustment YOY	7	CMB-0045	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X54-002	10/25/11		Change CTS Advertise Date to May 23rd, 2012		CMB-0061	Agree	12/28/11	DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X54-003	11/02/11		Change CTS Advertise Date to February 8th, 2012					Change CTS Advertise Date from May 23, 2012 to February 8, 2012 (-74 working days)	
X54-005	12/06/11		Revisions to CTS Construction Schedule		CMB-0060	Agree	12/28/11		
X54-006	12/07/11	085-0002	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment - allowed	7					
X55-001	07/18/11	086-0001	CS 155-2 (DP2) CBP6 - Construction Budget Adjustment YOY	7	CMB-0046	Agree	07/27/11	Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X55-002	10/25/11		Change MOS Advertise Date to June 25th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X55-003	11/02/11		Change MOS Advertise Date to May 23rd, 2012					Change MOS Advertise Date from June 25, 2012 to May 23, 2012 (-22 working days)	
X55-004	06/26/12		Change MOS Advertise Date to Aug 20, 2012					Change MOS to August 20, 2012	
X56-001	10/25/11		Change STS Advertise Date to July 27th, 2012					DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out the Station's Advertise Dates. STS Advertise Date is staggered from Station's Advertise Dates.	
X56-002	12/14/11		STS Construction Schedule Revision for Equipment Procurement						
X56-003	06/26/12		Change STS Advertise Date to October 1, 2012					Change STS Advertise Date to October 1, 2012	
X40-001	10/19/11	028-0001	SFPUC CDD Updated Budgets	7		Authorized	+505,127	1250 SFPUC CDD Monthly Service Report Final & 1251 SFPUC CDD Estimate	BT-0172, BT-0177
X80-001	10/19/11	071-0001	DP1: CS 155-1 Modifications No. 2 & 3	see Prof. Serv		Authorized	+560,585	Modification No. 2: \$395,584.59, Modification No. 3: \$165,000. Individual details listed in Professional Services. See trend 1551-0002,1551-0005 - 1551-0009	BT-0170, BT-0171, BT-0173
X80-002		071-0002	DP1: CS 155-1 Modification No. 4	7		Authorized	+135,898	Modification No. 4: \$135,898 Individual details listed in Professional Services. See trends 1551-0010 - 1551-0014.	BT-0187
X80-003	10/27/11	029-0001	Increase City Auditor Budget	7		Authorized	+50,220	Reduce unallocated Contingency to increase City Auditor budget as authorized in Budget Authorization #51.	BR#51, BT-0181

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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X80-004	10/27/11	232-0001	Increase SFCTA Budget	7		Authorized		+20,000	Increase SFCTA budget per Budget Authorization #51 to conduct travel forecast (TEP CEQA Modeling) to satisfy PMO review and SFMTA Fleet Plan light rail vehicle.	BR #51, BT-0182
X80-005	7/1/10, 11/2/10,3/24/11	072-0001	DP2: CS 155-2 Modification No. 1	7		Authorized		+1,010,000	Modification No. 1: \$1,010,600 Individual details listed in Professional Services. See trends 1552-0002, 1552-0003 and 1552-0005.	BT-0194, BR#53
X80-006	5/6/10,7/25/11, 9/22/11	072-0002	DP2: CS 155-2 Exercised Options	see Prof. Serv		Authorized		+366,771	Individual details listed in Professional Services. See trends 1552-0001, 1552-0007 and 1552-0014.	BT-0023, BT-0194
X80-007	11/08/11	151-0001	Operations SFMTA Transit Services			Authorized		+50,000	CSP request services to support and test OCS for 30/45 trolley reroute. Authorized per Budget Revision #53	BR #53, BT-0189
X80-008	09/01/11	081-0001	SFMTA Safety, Training, Security & Enforcement Div PCOs	7		Authorized		+60,000	CSP request PCOs to support 1251 and 1252 construction for one year. Authorized \$60,000 per Budget Revision #45.	BR #45, BT-0190
X80-009	11/30/11	016-0001	SFMTA Sustainable Streets 30 and 45 re-route	7		Authorized		-0-	CSP request services to support 30/45 trolley reroute. \$162,600 was reduced from DPT staffing plan budget.	BT-0188
X80-010	11/09/11	073-0001	DP3: CS 155-3 Modification No. 1	7		Authorized		+152,882	Modification No. 1: \$152,882 Individual details listed in Professional Services. See trends 1553-0012 and 1553-0013.	BT-0203
X80-011	8/9/11, 9/22/11, 10/11/11, 11/9/11	073-0002	DP3: CS 155-3 Exercised Options	see Prof. Serv		Authorized		+1,026,398	Individual details listed in Professional Services. See trends 1553-0001 - 1553-0004, 1553-0006, 1553-0009 - 1553-0011, 1553-0014. Updated from \$971,686 to include Trend 1553-0014.	BT-0203
X80-012		151-0002	OCS materials procured directly for work in reference to CN1251 CMOD#12.		CMB-0065	Agree	1/25/2012, 2/29/12	+126,149	See also Trend 1251-0023	
X80-013	05/30/12	073-0003	DP3: Provide Vibration Impact Analysis and Extend PC Support Technical and CSP Quality Manager	1				+133,906	Amend #2: Vibration Impact Analysis \$38,380 Amend #3: PC Support Tech \$34,483; Quality Manager - \$61,043	TBD
X80-014	12/17/12		For combining the stations and track and systems into Contract 1300 (SSTS)	7					Combined all the Station ad Track and Systems into one Contract. Removed the buffer float activities from the satin to track and systems and overlapped work that can now be done concurrent.	
X80-015	12/17/12		Changing the Bid Opening date and condensing the Contract Duration for Contract 1300	7		Agree	11/14/12		Change bid opening to March 19, 2013 and reevaluated procurement durations, revised calendars for UMS Garage, revised production rates for steel. 11/14/13 CMB Agreed verbally to change @ Mtg #101	
X80-016	02/19/13		Change to Tunnel and CTS interface and buffer float Contract 1300 (SSTS)	7		Agree	01/23/13		Change (MPS) reducing the number of days currently in (from 550 calendar days from NTP to 450 calendar days) for the key interface between CTS and the tunnel completion. Reduced number of days will be issued as part of Add #3 of the 1300 contract. 1/23/13 CMB Agreed verbally to change @ Mtg #111.	
OTHER TRENDS (Based on Various Trends)								+59,662,439	Current Forecast reflects a net +3,537,933 unfavorable impact for all Other Trends.	
GRAND TOTALS								+67,172,035	Current Forecast reflects an estimated net +68,635,132 3 unfavorable exposure to the project to date. Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	

PROFESSIONAL SERVICES TRENDS: The following trends are listed for administrative purposes. The dollar amounts are reflected in the "Other Trends" section of this log in the form of cost (budget) transfers - i.e. CCOP's. The total values indicated for each professional contract are for tracking all potential cost exposures and may or may not be approved.

Contract CS-155-1

1551-0001	07/30/10		071-0001	Conform Contract Terms per Negotiations from 10/2/09 to 11/6/09	7			-0-	To be addressed in Amendment 1.	Amendment 1 Pending
1551-0002	02/18/11		071-0002	Project Office Delay (Adjustments for OH Rate and Team Productivity impact)	7	Authorized	07/29/11	+101,411	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0003	02/18/11		071-0003	Additional Construction Support for CP-1	7					
1551-0004	02/18/11		071-0004	Redesign Required by Barney's and PUC for CP-2	7					
1551-0005	02/18/11		071-0005	Archeological Monitoring 16.20.C1 (total)	7	Authorized	07/29/11	+197,173	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved

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CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

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1551-0006	02/18/11			071-0006	Eyebolts	7	Authorized	07/29/11	+50,000	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0007				071-0007	Secondary Closure Walls 800/838 Market	1	Authorized	07/29/11	+47,400	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0008				071-0008	Delete Optional Tasks - Tasks 1-14	1			-0-	Deleted Options in the amount of (\$529,952) in Amendment has been reversed through Budget Authorization #50. COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0009				071-0009	CTS Lowering	1	Authorized	12/08/11	+165,000	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1551-0010				071-0010	Modify Sidewalk Vault Demo ECP-FD009	7	Authorized	12/08/11	+39,311	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0011				071-0011	Modify Stockton St. Sewer ECP-FD010	7	Authorized	12/08/11	+4,112	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0012				071-0012	Reconfigure Utilities N. Side Ellis ECP-FD011	7	Authorized	12/08/11	+2,448	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0013				071-0013	Extend SubSidewalk Closure Wall ECP-FD013	7	Authorized	12/08/11	+85,233	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0014				071-0014	Reroute OCS to Fifth St. ECP-FD014	7	Authorized	12/08/11	+4,794	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0015				071-0015	Retrieval Shaft Redesign - Sewer By Pass	7			+56,000	Awaiting documentation from Designer	
1551-0016				071-0016	Design Measures for Settlement Protection	7			+99,000	Awaiting documentation from Designer	
1551-0017				071-0017	Incorporate Headwalls MOS/UMS	1	Disagree at this time	11/01/11	+42,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
1551-0018				071-0018	Prepare Utility Composite	-	Disagree	11/01/11	+50,000	DPM responded that Program does not agree in letter dated November 1, 2011.	
1551-0019				071-0019	Incorporate Cross Passages	1	Disagree at this time	11/01/11	+43,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
Contract CS-155-1 Total								+986,882	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP1 allocated contingency in the amount of \$696,483 of a total budget of \$705,000. Additional potential exposure is +\$391,411. Currently, overall contract value remains unchanged in the amount of \$6,500,000.		
Contract CS-155-2											
1552-0001	05/06/10			072-0001	Optional Task 2.50 and Task 12.07	1	Authorized	05/06/10	+274,775	CS Letter 0473 from ED/CEO Optional Task 2.50 to support art enhancement activities NTE \$164,383 and Optional Task 12.07 to support design structures for Public Art NTE \$110,392.	
1552-0002	07/01/10			072-0002	Expanded Hydraulic Testing at CTS	7	Authorized	07/01/10	+26,100	Estimated cost breakdown is included in the 7/1/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0003	10/11/10			072-0003	Additional Soil Borings at UMS Station - Task No. 3.10 Supplemental Investigations	7	Authorized	11/02/10	+34,500	Estimated cost breakdown is included in the 10/11/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0004	02/11/11			072-0004	MOS TOD White Paper Proposal	1			+33,847	Conceptual study will assess a potential high rise building at the Moscone station headhouse. Estimated cost breakdown is included in the 2/11/2011 letter from CSDG - On Hold.	
1552-0005	03/24/11			072-0005	CTS - Alternate 5	7	Authorized	03/24/11	+950,000	CS Letter from DED dated 3/24/11 has agreed to a modification of \$950,000 for performing additional work. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0006	06/28/11			072-0006	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment	7			-0-	Estimated cost of \$406,320 is included in the 6/28/11 letter from CSDG. See 1552-0006 Rev. 1 for most current estimate	
1552-0007	07/25/11			072-0007	REVIT and CAD Support (to City Staff) Option to DP2 Contract (Optional Services Task 12.12)	1	Authorized	07/25/11	+79,200	CS Letter No. 0768 from ED/CEO dated 7/25/11 has authorized Optional Task 12.12 NTE \$79,200.	
1552-0008	08/03/11			072-0008	MOS Revisions to Emergency Ventilation Requirements	-	Provide further Justification	09/07/11	-0-	CMB did not approve a \$60,000 proposed increase. Document References ECP FD028, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	

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1552-0009	08/03/11	072-0009	CTS Revisions to Emergency Ventilation Requirements	-	Provide further Justification	09/07/11	-0	CMB did not approve an \$80,000 proposed increase. Document References ECP FD029, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0010	08/03/11	072-0010	UMS Revisions to Emergency Ventilation Requirements	-	Provide further Justification	09/07/11	-0	CMB did not approve a \$100,000 proposed increase. Document References ECP FD030, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0011	08/17/11	072-0011	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment - Rev. 1	7			+426,322	Estimated cost breakdown is included in the 8/17/11 letter from CSDG. This is a revision to the 6/28/11 letter and cost breakdown.	
1552-0012	08/23/11	072-0012	Station Air Replenishment System	-	Disagree	10/17/11	+36,240	Estimated cost breakdown is included in the 8/23/11 letter from CSDG. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0013	09/01/11	072-0013	COR for Additional Services Related to MOS Constructability Review and Assessment of Alternatives	-			-0	Cost charged to Task 2.70- part of base work	
1552-0014	09/22/11	072-0014	Proposal for Additional Work to provide Structural Engineering Support (Optional Services)	1	Authorized Optional Task 12.01.C5 only	11/04/11	+35,724	Estimated cost breakdown is included in the 9/22/11 letter from CSDG. Referenced Optional Work Tasks 12.01.C5 and 12.07.C5 - Effort re-evaluated - proposed cost to be resubmitted. CS Letter No. 1232 dated 11/4/11 from Director of Transportation has authorized Optional Task 12.01.C5 for the amount of \$12,796.	Option
Contract CS-155-2 Total							+1,896,708	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP2 allocated contingency in the amount of \$1,046,324 of a total budget of \$4,890,707. Overall contract value remains unchanged in the amount of \$39,949,959.	
Contract CS-155-3									
1553-0001	08/09/11	073-0001	Authorization to commence optional tasks 9.20J Technical Specifications Item J Facility SCADA	1	Authorized	08/01/11	+259,305	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0002	08/09/11	073-0002	ation to commence optional tasks 12.05 Architecture	1	Authorized	08/01/11	+257,129	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0003	08/09/11	073-0003	Authorization to commence optional tasks 12.13J Facility SCADA Design	1	Authorized	08/01/11	+169,553	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0004	08/09/11	073-0004	Authorization to commence optional tasks 12.12E traction power cables for CAD production	1	Authorized	08/01/11	+52,800	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0005	09/19/11	073-0005	Proposal to hire Wilson Ihrig to support Acoustics, Noise and Vibration tasks.	7	Authorized	03/08/12	+38,380	Signed by Director of Transportation 3/8/2012. COMPLETE, NO FURTHER ACTION ; Amendment 2	Amendment 2 Approved
1553-0006	09/22/11	073-0006	Proposal to exercise optional task 12.07 Public Art.	1	Authorized	11/04/11	+10,285	Letter dated 9/22/11 to DOM. PMCM response pending. Priced level of Effort assumed for this task. SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task.	
1553-0007	09/27/11	073-0007	Proposal to exercise optional sub-task 12.12 structural design of the OCS attachments.	7			+59,460	Letter dated 9/27/11 to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. PMCM has responded to clarify scope in stations and Tunnel Design. Awaiting resubmittal of request by DP3	
1553-0008	10/05/11	073-0008	Scope Clarification - Add Emergency and Location Signage.	7	Disagree A.12.08-Signage	11/09/11		Letter dated 10/5/11 to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. CS Memo No. 0882 from DOM to DP3 PM considers A.12.08 Signage as part of the work necessary to complete the trackway elements of the scope. The work in question is considered part of the base scope of services.	
1553-0009	10/11/11	073-0009	Proposal to exercise mechanical optional task A 12.11 to design a water line on the FBS station platform.	1	Authorized	11/04/11	+33,000	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0010		073-0010	Proposal to exercise Task 12.01 Surface Segment site Drainage	1	Authorized	11/04/11	+108,240	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0011		073-0011	Proposal to exercise Task 12.02 Sewer Relocation and Analysis Report.	1	Authorized	11/04/11	+81,374	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option

- 1 - Owner Directed Change in Scope
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- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1553-0012	11/09/11	073-0012	CTS - Alternate 5	7	Authorized	01/18/12	+88,855	Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0013	11/09/11	073-0013	Proposal for Geotechnical Services	7	Authorized	01/18/12	+64,027	Letter dated October 7, 2011 to DOM. PM/CM response pending. Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0014	02/06/12	073-0014	Authorization to commence optional tasks 12.12E traction power cables for CAD production, Optional task 2.50 Coordination with Art		Authorized	02/06/12	+54,712	SFMTA Letter 1381 from Director of Transportation dated 2/06/12 authorizing optional tasks 12.12e in the amount of \$41,280 and 2.50 for \$13,432 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0015	03/20/12	073-0015	Proposal for additional services in Response to Approved (ECP) FD-034 Operation Performance and Safety Enhancements to 4th and King and 6th and King.	1			+26,026	FD-034 was updated by CMB on 3/14/12. Proposal transmitted via letter CS1553 No. 0012 dated 3/20/12 to DOM. Amendment #4 PENDING	Option
1553-0016	03/23/12	073-0016	Proposal for additional work - Tunnel Air Replenishment System (Exercise Optional Service)	7	Authorized	04/26/12	+173,119	SFMTA letter 1658 from Director of Transportation dated 4/26/2012 authorizing \$173,119 in optional tasks. Included in FD-035 to be presented to CMB on 6/26/12	Option
1553-0017	05/14/12	073-0017	Extension of PC Support Technician	1	Authorized	05/04/12	+34,483	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0018	05/14/12	073-0018	Extension of CSP Quality Manager	1	Authorized	05/04/12	+61,043	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0019	04/09/12	073-0019	Authorization to commence optional task 12.02 Utility Plans for design of repositioned and reconstructed manholes for the 78 inch diameter sewer on 4th St.	1	Authorized	04/09/12	+52,712	SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.02 in the amount of \$52,712 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0020	04/09/12	073-0020	Authorization to commence optional task 12.12 civil and structural support for traction power duct banks	1	Authorized	04/09/12	+109,000	SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.12 in the amount of \$109,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0021	04/26/12	073-0021	Authorization to commence optional task 12.11 design of the tunnel based Air Replenishment System including fill panels, feeder pipes, gauges, valves, fire proofing, anchors, supports, low level alarms, wiring, signage, connections to SCADA and monitoring devices, equipment placement, and impact protection	1	Authorized	04/26/12	+173,119	SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing optional task 12.11 in the amount of \$173,119 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0022	04/26/12	073-0022	Increased authorization for optional task 12.12.e CAD production support	1	Authorized	04/26/12	+30,000	SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing the increase in optional task 12.12e in the amount of \$30,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0023	05/21/12	073-0023	Authorization to commence option task 12.11 structural design support for Fire Protection and Plumbing designs	1	Authorized	05/21/12	+39,204	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.11 in the amount of \$39,204 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0024	05/21/12	073-0024	Authorization to commence optional task 12.12 structural design support for Traction Power and Power/Lighting designs	1	Authorized	05/21/12	+43,638	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.12 in the amount of \$43,638 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0025	05/21/12	073-0025	Authorization to commence optional task 12.13 structural design support for Telephone and CCTV designs	1	Authorized	05/21/12	+24,328	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.13 in the amount of \$24,328 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0026	05/21/12	073-0026	Authorization to commence optional task 9.20 Technical Specifications for structural design support for above designs	1	Authorized	05/21/12	+3,039	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 9.20 in the amount of \$3,039 COMPLETE, NO FURTHER ACTION; OPTION	Option
Contract CS-155-3 Total							7,814,010.46	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP3 allocated contingency in the amount of \$1,168,995 of a total budget of \$4,598,725. Overall contract value remains unchanged in the amount of \$19,919,526.	

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