


Memorandum

CS Memorandum No. 1268

To: Distribution

From: Susan MacKenzie, Document Control Manager 

Date: October 25, 2012

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

Subject: Configuration Management Board Meeting No. 96

Attached please find minutes for Configuration Management Board Meeting No. 96 held on October 3, 2012.

Attachments: CMB Meeting No. 96 Rev. 0 Minutes with attachments

Cc: David Kuehn, STV (w/attachments) david.kuehn@stvinc.com
John Funghi, SFMTA (w/attachments)
Shahnam Farhangi, SFMTA (w/attachments)
Arthur Wong, SFMTA (w/attachments)
Roger Nguyen, SFMTA (w/attachments)
Jane Wang, SFMTA (w/attachments)
Carlos Campillo, CSP (w/attachments)
Quon Chin, CSP (w/attachments)
Chuck Morganson, HNTB/B&C (w/attachments)
Aileen Read, CSDG (w/attachments)
CS File No. M544.1.5.0890

Distribution:

Brad Lebovitz, STV bradley.lebovitz@stvinc.com
Luis Zurinaga, SFCTA (luis.zurinaga@sfcta.org)
Matt Lee, SFCTA (matt@sfcta.org)
Joon Park, SFMTA
Albert Hoe, SFMTA
Ross Edwards, CSP
Mark Latch, CSP
Mark Benson, CSP
Eric Stassevitch, CSP
Beverly Ward, CSP
Sarah Wilson, CSP
Ken Barnhart, Hill International
Michael Acosta, DPW
Matt Fowler, PB/Telamon

CMB Meeting Minutes #96

DATE: October 04, 2012

MEETING DATE: **October 03, 2012**

LOCATION: 821 Howard St, Main Conference Room

TIME: 3:00 PM

ATTENDEES: A. Hoe (AH), J. Park (JP), R. Edwards (RE), M. Latch (ML), M. Benson (MB), E. Stassevitch (ES), B. Ward (BW), M. Acosta (MA), K. Barnhart (KB), S. Wilson (SW), L. Zurinaga (LZ), M. Lee (ML), B. Lebovitz (BL), M. Fowler (MF)

COPIES TO: Attendees: S. Farhangi (SF), J. Funghi (JF), A. Wong (AW), R. Nguyen (RN), Q. Chin (QC), J. Wang (JW), C. Campillo (CC), C. Morganson (CM), A. Read (AR), D. Kuehn (DK)
File No. M544.1.5.0890

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

SUBJECT: Configuration Management Board Meeting # 96 – Rev. No. 0

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

ITEM #	DISCUSSION	ACTION BY DUE DATE
1- 06/06/12	The Configuration Manager presented the Programs Configuration Management Procedures, Rev 1 for review to identify the current Configuration Board Members or their designees; as listed in the Procedures and their current standing or relation to the Central Subway Project. A notification letter or email will be sent to SFMTA's Operations, Maintenance, Safety, and Security Managers of their responsibility as a Configuration Management Board Member. In addition the CMB Procedures will be revise to reflect the current SFMTA personnel who holds the position. <i>09/12: Due to time limitations the follow up action item was not discussed but will be addressed at the next CMB meeting. 10/03 Status: The SFMTA heads of System Safety and Transit will be contacted to identify which member of their staff will be given delegation authority as a voting member on the Configuration Management Board. The follow up item as it relates to notifying the department heads is considered Closed.</i>	
4- 06/13/12	The CMB requested the PCC team provide an Interface Schedule for Construction Milestones for review. This item will be brought back to the next CMB meeting. <i>06/20: A Milestone Interface Points schedule analysis was shown for information of the Tunnels and STS and their interface with UMS and CTS. MOS is still in review because it isn't working with STS current schedule, it will be put on hold until the STS schedule can be further developed. The CMB recommend the analysis be revised stripping out buffer float and then run analysis. In addition the CMB requested that there be a monthly review update of the milestone interface points. Also the request was made to see the dates of the track schedule even if it doesn't work to see what can be done to resolve it. This item will be brought back to a future CMB meeting. 07/11: The PCC team presented for review the Important Interface Points analysis for the contract packages. The analysis showed the</i>	

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	<p>drivers in the schedule being the headwall activities, which is an unestablished milestone in the contract but are work activities that has to be completed before follow-on contract work can begin in earnest. Dates shown are valid and are reflecting the new bid schedule (see attached). Actual text still needs to be written in the Div1 specs for MOS and STS. The PCC will come back to the CMB next week validating the analysis actual construction days from NTP for headwalls to be completed is 219 days. In addition the CMB requested validation from the design lead that the language in the Div 1 specs precludes where the tunnel contractor can work during the 219 days the UMS contractor is performing the headwall work. <i>07/18:</i> Review of the interface analysis between the key points of the UMS, Tunnel, STS contracts was presented. Early completion of UMS headwalls on 6/20/13 is a constraint that needs to be incorporated into the UMS Station contract, this new date would go into the next addendum. Completion of cross passages of 3 & 4 in Tunnel contract allowing break in to the Tunnel by the UMS station contract is another key interface between the Tunnel and UMS contract. Interfaces between UMS and STS contract gaining access through UMS work area to allow STS contractor to start passing through the UMS area, will also be included in the addendum. R. Edwards will confirm UMS new dates are put into the addenda; confirm effects on CTS, i.e. what impact this has on additional float and review early start dates; write STS Division 1 in accord to the analysis currently presented. <i>09/12</i> Due to time limitations the follow up action item to confirm the 219 days the UMS contractor may perform the headwall work was not discussed but will be addressed at the next CMB meeting. <i>10/03 Status: Verification in Addendum No. 9 states the actual number days to be 242 for the headwalls installation. This item as it relates to the number of days (see attached) is considered Closed.</i></p>	
<p>1 – 07/18/12</p>	<p>1252 – The Construction Manager and Resident Engineer presented a proposal from BIH for a no cost change to perform the Grant Avenue Conversion between Post Street and Geary Street from One-way to Two-way Street and modify the traffic signal at Grant Avenue and Geary Street intersection. A cost proposal was also received from Department of Traffic which includes; at their request adding an additional block to the scope of work and making the conversion between Geary and Sutter. Cost proposal received from DPT was relatively close to proposal received from BIH. DPT believes they can have this work done by 7/30, which includes performing pavement marking and redo the signalization. CMB agreed DPT will do the work with a “not to exceed” value of \$39K. In addition the CMB requested a side by side consolidated view of the cost and the recommendation be submitted to the CMB. Also that a scope of work quote be outline to properly implement a detour using Grant St, between Geary and Sutter. The Construction Manager will put together a complete proposal package for CMB approval. <i>10/03 Status: This item was not discussed at this week’s meeting.</i></p>	
<p>3- 07/25/12</p>	<p>1252 – M. Benson and Sarah Wilson presented MOS Traffic Signal re-route cost proposal for re-routing the traffic signal cable for review (Trend #15). This work will require a new trench to be excavated south of the south headwall limits and new conduits and traffic cables will be installed in the new trench. This cost change will give authorization to the Contractor as a “Do Not Exceed Value” of \$40K. The CMB requested the PCC look into the hourly rate/daily rate for the triton barrier also to find out what the 1.5% payroll tax item is (what are we paying for)? This COR will be brought back to the next CMB meeting as a contract modification for approval. <i>08/01:</i> The RE gave a status update to Trend #15; reporting the potential change order now may include standby time associated with this change. A revised CMod will be develop to include cost for potential standby time and brought back to the CMB for review. <i>10/03 Status: This item was not discussed at this week’s meeting.</i></p>	
<p>1- 08/08/12</p>	<p>1253 – R. Edwards and A. Ayres presented CCOP X53-004 - UMS Procurement Duration Change. This revision shortens the duration from Award to NTP from 40 days to 24 days. Activities requiring procurement are approve/execute/certify the UMS Contract. A revised</p>	

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>CCOP will be brought back to the CMB for approval which further changes the schedule durations in addendum number six - 1) Changing the bid opening date to August 23rd, 2) shortening the restriction of when the Contractor can start interface on Stockton St. from 820 to 806 days; 3) increasing the quantity of when the Contractor can have access through tunnels interface from 1123 to 1167 days; and 4) duration of when the Contractor must provide the invert to the STS Contractor from 1199 to 1248 days. The CMB requested the Advertise Date Study be updated to reflect the changes made to the UMS Procurement Duration. 09/12: Due to time limitations the follow up action item to was not discussed at this week's meeting. 10/03 Status: <i>Material was presented to demonstrate the correct attachments to the CMB action. The follow up item as it relates to Advertise Date Study (see attached) is considered Closed.</i></p>	
<p>2- 08/08/12</p>	<p>1255 – R. Edwards and Alexis Ayres presented CCOP X55-004 – MOS Advertise Date to August 20, 2012 which changes the bid review time from 20 to 30 days to account for the holiday, and to avoid administration conflicts with issuing two stations (CTS and MOS) close to the same dates. The Advertise Date Study will be update to reflect the changes made to the MOS Advertise Date. 10/03 Status: <i>Material was presented to demonstrate that the correct attachments to the CMB action. The follow up item as it relates to Advertise Date Study (see attached) is considered Closed.</i></p>	
<p>3- 08/08/12</p>	<p>1256 – R. Edwards and Alexis Ayres presented CCOP X56-003 – STS Advertise Date to October 1, 2012, allowing more time to complete design changes to the sewer work and to received more feedback on the Advanced Train Control System (ATCS) scope. The Advertise Date Study will be update to reflect the changes made to the STS Advertise Date. 10/03 Status: <i>Material was presented to demonstrate that the correct attachments to the CMB action. The follow up item as it relates to Advertise Date Study (see attached) is considered Closed.</i></p>	
<p>4- 08/08/12</p>	<p>1252 – R. Edwards presented a PCC for Tunnels Revisions to North Headwall Elevation (Top) raising the North headwall elevation at MOS approximately 3'- 6". (See attached PCC - 01). The discussion focused on the reason for the change and the estimated cost. This item will be brought to the CMB for signature approval next week. 08/15: Agenda item was viewed however; cost estimate was not available to review. The CMB requested a complete package be brought back to next week's meeting for review and signature approval. 08/22: A complete PCC package which included the cost estimate was reviewed, however Proposed Contract Change concurrence was not given by the Contract Administrator's representative due to lack of authority to sign contract changes. The Construction Manager will forward the complete package to Joon Park for a more thorough review followed by a recommendation to Shahnam Farhangi, SFMTA Contractor Administrator. This item will be brought to the next CMB meeting. In addition a recommendation by the Board was given to update the Proposed Contract Change (PCC) Issuance and Processing procedures "Concur In Principle" section (Form 1102-1) delegating signature approval to a voting member of the Configuration Management Board. 08/29: The PCC approval concurrence was giving by the SFMTA Contractor Administrator on 08/23. A copy of the signed documentation needs to be presented to the CMB for final board approval. 10/03 Status: <i>This item was not discussed at this week's meeting.</i></p>	
<p>5- 08/08/12</p>	<p>1252 – R. Edwards presented a PCC for Tunnels - Reduction of UMS Headwall Concrete and Reinforcement Limits for approval of change. (See attached PCC-02). This change would reduce the cost of the headwall construction as well as facilitate the future station demolition of the headwalls. The CMB was in agreement this change needs to be done but wanted to review detailed estimate. This item will be brought to the CMB for signature approval next week. 08/15: Agenda item was viewed however; cost estimate was not available to review. The CMB requested a complete package be brought back to next week's meeting for review and signature approval. 08/22: A complete PCC package which</p>	

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>included the cost estimate was reviewed, however Proposed Contract Change concurrence was not given by the Contract Administrator's representative due to lack of authority to sign contract changes. The Construction Manager will forward the complete package to Joon Park for a more thorough review followed by a recommendation to Shahnam Farhangi, SFMTA Contractor Administrator. This item will be brought to the next CMB meeting. In addition a recommendation by the Board was given to update the Proposed Contract Change (PCC) Issuance and Processing procedures "Concur In Principle" section (Form 1102-1) delegating signature approval to a voting member of the Configuration Management Board. <i>08/29: The PCC approval concurrence was giving by the SFMTA Contractor Administrator on 08/23. A copy of the signed documentation needs to be presented to the CMB for final board approval. 09/12 This item was not discussed at the meeting and is on hold pending the outcome of the meeting with the contractor regarding their response to PCC 1252-002 UMS Headwalls. 10/03 Status: This item was not discussed at this week's meeting.</i></p>	
<p>1- 09/26/12</p>	<p>1251– M. Benson and Mike Acosta presented for approval Trend #68 – Contractor's additional time related overhead (TRO) costs analysis, due to the 29EA calendar day Contract extension caused by the 1) Inability to Access 25 Stockton Street, which impacted the sewer contract work; and 2) AT&T Cutover Acceleration work requiring unrestricted access to a vault 5829 (located on Geary Street), which limited the 1251 contract work. The SFMTA Contract Administrator requested that the narrative be revised to list the Contractor's actual number of delay days by each occurrence. In addition the CMB requested the RE propose to the Contractor in writing a request for a "full release" of all claims for Contract 1251 as a stipulation for SFMTA agreement to pay this contract change which will be included in the final closeout contract modification. This item will be brought back to the next CMB meeting. <i>10/03 Status: The RE presented a revised narrative for Trend #68. Detailing in the schedule analysis section the number of calendar days for each delay. In addition the RE presented an email from the Contractor outlining his four (4) conditional agreement items to go forward with the proposed "full release" sign off (see attached). The CMB took exception to item #2 reduction retention and item #4 proposed methods in presenting to the Board CMB approved contract modification. AGREE – CMB 0075. In addition CMB agreement is contingent upon receipt letter from the Contractor confirming e-mail content related to agreement.</i></p>	
<p>1-</p>	<p>1251 – M. Benson and M. Acosta presented for approval Trend #43, 72 and 80 for demolition of existing AT&T Vaults 1#113 and #403, AT&T trench Vault #127, and Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833. This vault demolition work was not included in the original Contract work, after inspection AT&T determined the existing vaults were damaged beyond repair and required replacement. The RE is in the process of securing a Form B reimbursement from AT&T. AGREE – CMB 0076, contingent upon receipt of confirmation letter from AT&T for all costs associated with the three trend items.</p>	
<p>2-</p>	<p>1251 – M. Benson and M. Acosta presented CN1251 Contract Modification Action Plan for review which list the remaining potential changes to be processed. In addition a review of the latest Estimate at Completion (EAC) was also shown.</p>	
<p>3-</p>	<p>1252 – M. Benson and S. Wilson presented PCC – 03 Traffic Detour Signage (see attached) summary of changes. The CMB concurred with the proposed contract change and directed the RE to submit the documentation to the Contractor requesting a price quote to perform the work. In addition the 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.</p>	<p>MB 10/17/12</p>
<p>4-</p>	<p>1252 – M. Benson, S. Wilson and M. Fowler presented PCC – 04 Revisions to Sewer</p>	

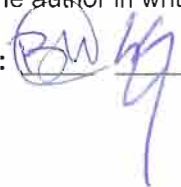
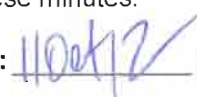
ITEM #	DISCUSSION	ACTION BY DUE DATE
	Distribution Lines at the Retrieval Shaft (see attached) summary of changes. The CMB concurred with the proposed contract change and directed the RE to submit the documentation to the Contractor requesting a price quote to perform the work. This item will be brought back to the CMB at a later date.	
5-	1252 – M. Benson, S. Wilson and M. Fowler presented PCC – 05 Water Distribution Pipe Change - per SFDPW (see attached) summary of changes. The CMB concurred with the proposed contract change and directed the RE to submit the documentation to the Contractor requesting a price quote to perform the work. This item will be brought back to the CMB at a later date.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
1	06/06/12	06/06/12	Configuration Management Procedures – update CMB voting members	E. Stassevitch	10/03/12	Closed
4	06/13/12	07/11/12	1253 – Verification Interface Schedule Headwall Completed (219 CD from NTP)	E. Stassevitch	10/03/12	Closed
3	07/25/12	07/25/12	1252 – MOS Traffic Signal – 1.5% Payroll tax	K. Barnhart	10/03/12	Closed
1	08/08/12	08/08/12	Advertise Date Study - Revisions	A Ayres	10/03/12	Closed
1	09/26/12	09/12/12	1251 – Trend #68 Revised Narrative	M. Benson	10/03/12	Closed
3	10/03/12	10/03/12	1251 – Detour Signage Quote from DPT	M. Benson	10/17/12	Open

Meeting adjourned at 5:00pm

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:  [Date review completed]

Meeting Agenda

Project No. M544.1, Contract No. CS-149
Program/Construction Management
Configuration Management Board (CMB) Meeting No. 96

October 03, 2012

3:00pm – 5:00pm

Central Subway Project Office
 821 Howard St. 2nd Floor
 Main Conference Room

Attendees:

Mark Benson	Albert Hoe	Matt Lee	Art Wong
Ross Edwards	Jim Kelly	Roger Nguyen	Luis Zurinaga
Shahnam Farhangi	David Kuehn	Joon Park	
John Funghi	Mark Latch	Eric Stassevitch	
John Haley	Brad Lebovitz	Beverly Ward	

1. **1250** –Nothing to Report
2. **1251** – Time Extension – (Trend No. 68) – *Revised for Approval*
 Differing Conditions Related to AT&T Facilities (Trend 43, 72 and 80) – *For Approval*
 CN1251 Action Plan/EAC Log
3. **1252** – Traffic Detour Signage – PCC-03
 Water Distribution Pipe Change (per SFDPW) – PCC-05
4. **1253 (UMS)** – Nothing to Report
5. **1254 (CTS)** – Nothing to Report
6. **1255 (MOS)** – Nothing to Report
7. **1256 (STS)** – Nothing to Report
8. **Trend/Change Log** –
9. **Other Business** – CMB Mtg. Action Items follow up:

**MTG
ACTION
DATE**

DESCRIPTION

BIC

06/06/12	Configuration Management Procedures – Notification to SFMTA voting members	E. Stassevitch
07/11/12	1253 – Verification Interface Schedule Headwall Completed (219 CD from NTP)	E. Stassevitch
07/25/12	1252 – MOS Traffic Signal – 1.5% Payroll tax	K. Barnhart
08/08/12	Advertise Date Study - Revisions	A Ayres

Meeting Attendance Sheet

Project No. M544.1, Contract No. 149
Program/Construction Management
Configuration Management Board Meeting No. 96
October 03, 2012

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.				
Benson, Mark	CSP	(415) 701-4295	Mark.Benson@sfmta.com	<i>McB</i>
Dombrowski, Charles	Hill/PCC	(415) 701-5272	Charles.Dombrowski@sfmta.com	
Edwards, Ross	CSP	(415) 581-5165	Ross.Edwards@sfmta.com	
Farhangi, Shahnam	SFMTA	(415) 554-0721	Shahnam.Farhangi@sfmta.com	
Funghi, John	SFMTA	(415) 701-4299	John.Funghi@sfmta.com	
Haley, John	SFMTA		John.Haley@sfmta.com	
Hoe, Albert	SFMTA	(415) 581-5164	Albert.Hoe@sfmta.com	<i>AA</i>
Kelly, Jim	SFMTA		Jim.Kelly@sfmta.com	
Kuehn, David	STV/PMOC	(510) 464-8053	David.kuehn@stvinc.com	
Latch, Mark	CSP	(415) 701-5294	Mark.Latch@sfmta.com	<i>MDL</i>
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com	<i>BL</i>
Lee, Matt	SFCTA	(415) 522-4813	matt@sfcta.org	<i>M</i>

central subway

NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS
Nguyen, Roger	SFMTA	(415) 701-4312	Roger.Nguyen@sfmta.com	
Park, Joon	SFMTA	(415) 701-4742	Joon.Park@sfmta.com	JP
Stassevitch, Eric	CSP	(415) 701-4426	Eric.Stassevitch@sfmta.com	ES
Ward, Beverly	CSP	(415) 701-5291	Beverly.Ward@sfmta.com	BW
Wong, Arthur	SFMTA	(415) 701-4305	Arthur.Wong@sfmta.com	
Zurinaga, Luis	SFCTA	(415) 716-6956	Luis.zurinaga@sfcta.org	
<i>Mike Azofe</i>	<i>CSP</i>	<i>701-5282</i>		<i>MA</i>
<p><i>Matt Fowler, Sarah Wilson, Luis Zurinaga, Ross Edwards and Ken Barnhart were in attendance, but did not sign in.</i></p>				
<p><i>(B) [Signature]</i></p>				

CMB Change No.: CMB - 0075

Initial Implementing Change Control Procedure No.: 1251 - CMod Trend #68

GENERAL

Proposed Change Sponsor: Mike Acosta Received by CMB: 10/03/2012
(Date)

Affected Disciplines: Utilities
Traffic



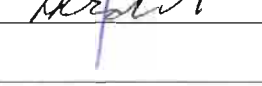
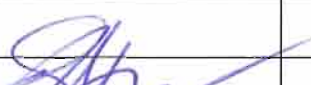
Additional time related overhead (TRO) costs resulting from the 29EA calendar day Contract extension

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input 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
Senior Program Manager:			
Deputy Program Manager:			10/3/2012
PM Project Services:			
PM Project Development/Delivery:			10/3/2012
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			30CT12

Comments

Contingent on receipt of letter confirming e-mail content viewed related to agreement on remaining actions and release of funds.

TREND LOG ITEM NUMBER 68

SFMTA Contract No. 1251
UNION SQUARE/MARKET STREET STATION
UTILITIES RELOCATION

Contractor: Synergy Project Management Inc.
30 Grant Street, Suite 300
San Francisco, Ca 94108

SUPPLEMENTAL ANALYSIS (For CMB Presentation)

SCOPE OF WORK:

This Contract Modification compensates the Contractor for additional time related overhead (TRO) costs resulting from the 29EA calendar day Contract extension contained herein.

REASON FOR CHANGE:

Contract work could not be completed on time, due predominantly to the two reasons summarized below. Note that these changes were beyond the Contractor's control and combined to impact his schedule.

- *Inability to Access 25 Stockton Street (Armani Store):* The building owner was not cooperative in providing access to PG&E crews as required to complete gas cut-over work. This delayed the abandonment of an existing gas line which in turn delayed contract work activities (sewer manhole installation and water main connections), which required that the existing gas line be removed. Refer to attached sketch.
- *SFMTA Directed AT&T Cutover Acceleration:* The SFMTA requested that AT&T accelerate completion of its cut-over work as to minimize possible schedule impacts to the 1252 Contract and the Central Subway Program. In order to meet this acceleration request, AT&T stated that their crews would require unrestricted access to a critical vault (Vault 5829 located on Geary Street) at the same time that the SFMTA Contractor was working in the vicinity. Such simultaneous work between the Contractor and utility owners was not intended nor indicated within the original Contract plans and/or specifications and entailed limiting the 1251 Contractor to work off of Geary Street. This subsequently delayed the final base Contract restoration work on Geary Street.

Note that it was known that the acceleration request and subsequent modified sequencing described above would impact the 1251 Contractor's schedule. It was determined that these time/cost impacts would be favorable to the potential time/cost impacts associated with further delays to the Central Subway Program.

- *San Francisco Water Department (SFWD) Related Changes:* Upon inspection it was found that the backflow preventer at Macys Men's was missing. Without this device the SFWD was prevented from making its connection. Due to this, it was decided to continue use of the existing main that feeds this property. Consequently, one additional water main cap and modifications of the tie-in at O'Farrell Street (tee instead of elbow) were required in order to ensure that the 1252 work could proceed without disruption.

Note that the execution of these additional SFWD related work activities, while not on the longest path, they were near critical path activities that occurred concurrently to the two delays discussed above. Due to this, the overall time extension would have been comparable even if the Contractor had not encountered the aforementioned changes related to access at 25 Stockton Street and coordination with AT&T.

ADDITIONAL INDIRECT COSTS ASSOCIATED WITH TIME EXTENSION:

\$106,967.02 Using previously determined daily indirect cost. See cost analysis section for more details.

COST ANALYSIS:

The Contractor and the SFMTA agreed on a total cost of \$106,967.02 to be a complete and final compensation cost for all additional indirect costs resulting from the 29 calendar day Contract time extension due to the previously discussed changes.

Using the daily indirect cost of \$3,604.18/calendar day established within Contract Modification No. 13, the 29 calendar day extension contained in this Contract Modification equates to a total indirect cost of \$106,967.02. Note that this total is inclusive of the contractual 2.34% bonds and insurance markup.

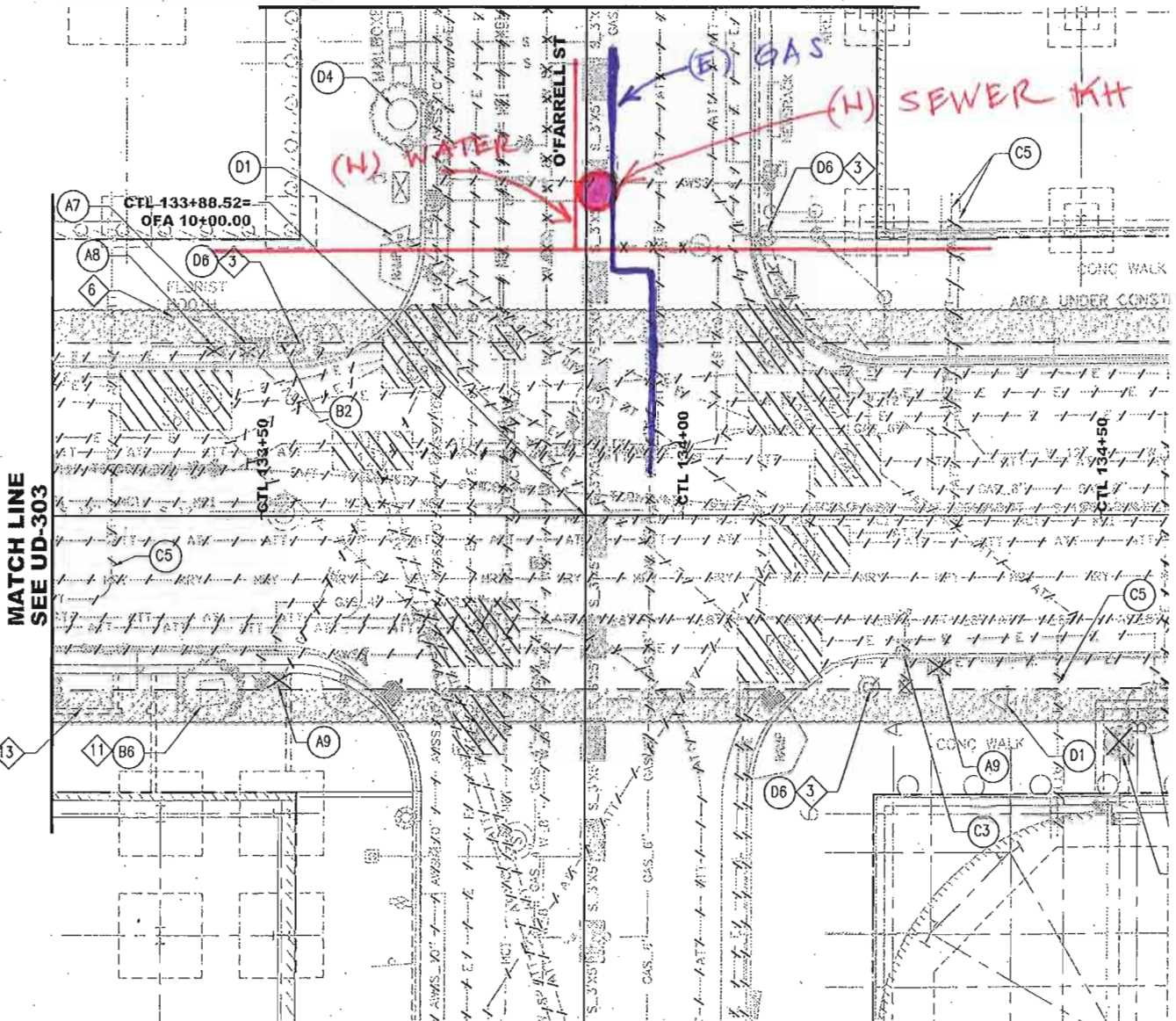
SCHEDULE ANALYSIS:

In order to determine the schedule impact of the changes contained herein the SFMTA PM/CM Scheduler conducted a review of the new critical path activities resulting from resequenced and delayed work. This was then compared to the latest SFMTA approved time impact analysis (TIA 16). After this review it was determined that the two changes discussed in the Reason for Change section push the Contract Substantial Completion dates by the durations listed below:

Description of Change	Duration (Calendar Days)
Inability to Access 25 Stockton Street (Armani Store)	12
SFMTA Directed AT&T Cutover Acceleration	17
TOTAL DURATION	29 Calendar Days

It was therefore agreed that the additional work contained herein results in a 29 calendar day Contract extension (refer to attached P6 Schedule documenting this extension). The previous substantial completion date of 07/18/2012 (established under Contract Modification No. 17) will be extended to 08/16/2012 after execution of this Contract Modification.

MATCH LINE
SEE UD-311



MATCH LINE
SEE UD-303

MATCH LINE
SEE UD-310

◆ **NOTES:**

1. COORDINATE WITH DPT FOR RELOCATION OF TRAFFIC SIGNAL PULL BOX.
2. NEWS RACK TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.
3. SEE STRUCTURAL DEMOLITION (SD) FOR MORE INFORMATION.
4. SURVEYED ITEM NOT FOUND AND PRESUMED TO BE REMOVED FROM SITE.
5. TEMPORARILY RELOCATE TRASH RECEPTACLE AND RETURN TO ORIGINAL LOCATION.
6. (E) FLOWER STAND, SEE NOTE 19 ON DWG NO. UD-001
7. BUS SHELTER TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION
8. KIOSK TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.
9. AWNING TO BE REMOVED BY OWNER PRIOR TO CONSTRUCTION.
10. RELOCATE TREES TO GEARY STREET. COORDINATE WITH 150 STOCKTON BUILDING OWNER.

◆ **NOTES: (CONTINUED)**

11. SALVAGE AND DELIVER TREES AND PLANTERS TO LOCATION SPECIFIED BY FRANCISCO RECREATION AND PARK DEPARTMENT.
12. TEMPORARILY RELOCATE BIKE RACK AND RETURN TO ORIGINAL LOCATION
13. HOTDOG STAND TO BE RELOCATED BY OWNER PRIOR TO CONSTRUCTION.
14. ITEM TO BE REMOVED/ABANDONED BY OWNER PRIOR TO CONSTRUCTION.
15. HOSE BIB. SEE WATER DISTRIBUTION (WD) DRAWINGS.
16. DEMOLISH AND BACKFILL ABANDONED PORTION OF PG&E VAULT. COORDINATE WORK WITH PG&E.
17. RELOCATE ILLUMINATED BART SIGN TO ELL 137+88, 24' RT. PROVIDE NEW FOUNDATION TO MATCH EXISTING. EXTEND ELECTRICAL SERVICE TO NEW POSITION.

\\CS2SA001\NCSm544.1\FinalDesign\Drawings\2-Civil\Utility_Demolition\Sheet Files CP02\M54422UD304.dwg ESmotias Wed Jun 30,2010 3:07 pm UD-304

07/08/2010	ISSUED FOR BID	0			
DATE	DESCRIPTION	REV. NO.	BY	CHECKED	APPROVED

TELAMON
TELAMON ENGINEERING CONSULTANTS INC.

DESIGNED	MD	<i>Matthew Deane</i>
DRAWN	EM	<i>Matthew Deane</i>
CHECKED	FR	<i>Frank</i>
REVIEWED	MC	<i>Matthew Deane</i>
RECOMMENDED	MF	<i>Matthew Deane</i>
APPROVED	RE	<i>Matthew Deane</i>
DATE	JUL 8 - 2010	



Activity ID	Activity Name	Org Dur	Start	Finish	Total Float	2012					
						Jun	Jul	Aug	Sep	Oct	Nov
1251 Utilities Relocation #2 TIA 16											
STOCKTON (O'FARRELL TO MARKET) WEST (CTL 134 + 00 TI											
STK04-03-070	JOINT TRENCH (17-19 & 1 STOCKTON)	10	22-May-12 A	05-Jun-12	0	■ JOINT TRENCH (17-19 & 1 STOCKTON)					
STK04-03-TIA16 80	17-19: Install Utilities	1	06-Jun-12	06-Jun-12	0	■ 17-19: Install Utilities					
STK04-03-080	SEWER	5	07-Jun-12	13-Jun-12	0	■ SEWER					
STK04-03-090	WATER	5	14-Jun-12	20-Jun-12	0	■ WATER					
STK04-03-TIA15 120	Additional Waterproofing at Top of New Apple Wall	1	21-Jun-12	21-Jun-12	0	■ Additional Waterproofing at Top of New Apple Wall					
STK04-03-010R	FINISH DEMO SIDEWALK	1	22-Jun-12	22-Jun-12	0	■ FINISH DEMO SIDEWALK					
STK04-03-TIA16 90	17-19: Block Out Basement, Build Access Hole and False Work	2	25-Jun-12	26-Jun-12	0	■ 17-19: Block Out Basement, Build Access Hole and False Work					
STK04-03-100	RESTORATION	5	27-Jun-12	03-Jul-12	0	■ RESTORATION					
STK04-03-250	DEMOBILIZATION	10	05-Jul-12	18-Jul-12	0	■ DEMOBILIZATION					
PROJECT CLOSEOUT											
PC-00-020	NOTICE OF SUBSTANTIAL COMPLETION	0		18-Jul-12*	0	◆ NOTICE OF SUBSTANTIAL COMPLETION					
1251 Utilities Relocation #2 TIA 18											
O'FARRELL (OFA 08 + 00 THRU OFA 11 + 50)											
OFA-01-220A	UTILITY VAULTS - East (QWT / UCCO / TCG)	10	17-May-12 A	01-Jun-12	-21	■ UTILITY VAULTS - East (QWT / UCCO / TCG)					
OFA-01-240A	Added PGE Gas Holes	3	04-Jun-12	06-Jun-12	-21	■ Added PGE Gas Holes					
OFA-01-TIA 18 10	PGE Conduit & Storm Connection Delay	18	07-Jun-12	02-Jul-12	-21	■ PGE Conduit & Storm Connection Delay					
OFA-01-TIA 18 20	Redig Gas Holes & Backfill for 7/7 Cutover	4	03-Jul-12	09-Jul-12	-21	■ Redig Gas Holes & Backfill for 7/7 Cutover					
OFA-01-200R 2	Complete MANHOLE EAST	2	20-Jul-12	23-Jul-12	-21	■ Complete MANHOLE EAST					
OFA-01-140	RESTORATION	5	24-Jul-12	30-Jul-12	-21	■ RESTORATION					
GEARY (GEA 08 + 05 THRU GEA 12 + 00)											
GEA-02-270A	Geary- AT&T Access to Manhole 5829 for Cut-Over	5	27-Jul-12	02-Aug-12	-21	■ Geary- AT&T Access to Manhole 5829 for Cut-Over					
GEA-02-140	RESTORATION	5	03-Aug-12	09-Aug-12	-21	■ RESTORATION					
WATER HOLES											
STK-04-TIA 18 10	Cap (E) Main @ Geary West	10	27-Jul-12	09-Aug-12	-17	■ Cap (E) Main @ Geary West					
STK-04-TIA 18 20	Cap (E) Main @ O'Farrell West (for 1252)	10	30-Jul-12	10-Aug-12	-17	■ Cap (E) Main @ O'Farrell West (for 1252)					
STK-04-TIA 18 30	Cap (E) Main @ Neiman Marcus (for 1252)	10	30-Jul-12	10-Aug-12	-17	■ Cap (E) Main @ Neiman Marcus (for 1252)					
STK-04-TIA 18 40	Cap (E) Main @ Ellis/Market (for 1252)	10	30-Jul-12	10-Aug-12	-17	■ Cap (E) Main @ Ellis/Market (for 1252)					
WATER LINE 2 - STOCKTON (GEARY TO ELLIS) EAST											
GEARY SOUTH/EAST Point of Connection											
150 STOCKTON 6"											
120 STOCKTON 4"											
48 STOCKTON 8"											
2 STOCKTON 8"											
O'FARRELL NORTH/EAST Point of Connection											
WATER LINE 3 - STOCKTON (GEARY TO ELLIS) WEST											
GEARY SOUTH/WEST Point of Connection											
233 GEARY 8"											
233 GEARY 4"											
39 STOCKTON 2"											
19 STOCKTON 1"											
17 STOCKTON 1"											
O'FARRELL NORTH/WEST Point of Connection											
DEMOBILIZATION											
STK04-03-250	DEMOBILIZATION	10	03-Aug-12	16-Aug-12	-21	■ DEMOBILIZATION					
PROJECT CLOSEOUT											
PC-00-020	NOTICE OF SUBSTANTIAL COMPLETION	0		16-Aug-12*	-29	◆ NOTICE OF SUBSTANTIAL COMPLETION					

Approved through TIA 16

29 Calendar Days

CMB Change No.: CMB - 0076

Initial Implementing Change Control Procedure No.: 1251 - CMod Trend #43, 72 and 80

GENERAL

Proposed Change Sponsor: M. Acosta Received by CMB: 10/03/2012
(Date)

Affected Disciplines: Utilities
Traffic





- Impacts of Change
1. Trend #43 - Force account work for demolition of existing AT&T Vault No. 113 (Post/Stockton Streets) and Vault No. 403 (Ellis Street).
 2. Trend #72 - Additional AT&T trench from (N) Vault No. 5829 to (E) Vault No. 127 (Geary Street east of Stockton Street).
 3. Trend #80 - Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to/from these vaults.

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input 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
Senior Program Manager:			
Deputy Program Manager:			10/3/2012
PM Project Services:			03 Oct 12
PM Project Development/Delivery:			10/3/2012
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			3 OCT '12

Comments

① Contingent on receipt of confirmation letter from AT&T for costs associated with these three trends

Ward, Beverly

From: Acosta, Michael
Sent: Wednesday, October 03, 2012 2:46 PM
To: Ward, Beverly
Cc: Benson, Mark
Subject: FW: 1251 Time Extension Clarification REVISED

Beverly,

I will need this e-mail for the 1251 Time Extension item.

thanks

Mike Acosta, P.E.
Resident Engineer
SFMTA/Central Subway
Tel.: 415-701-5282
Mobile: 415-678-8068
Fax: 415-701-5222
E-mail: Michael.acosta@sfmta.com

From: Manuel Arce [<mailto:manuel.arce@synergypm.com>]
Sent: Wednesday, October 03, 2012 2:35 PM
To: Acosta, Michael; Huey, Terence Y; Benson, Mark
Cc: donovan@synergypm.com; javad@synergypm.com
Subject: 1251 Time Extension Clarification REVISED

Mike,

It is not Synergy's intention to request any additional compensable time extension past the substantial completion date of 8/16/12 with the following understandings:

- 1) The SFMTA expedite the change order request, change order modification approval, and payment process.
- 2) The SFMTA reduce our retention to 200% of the value of the work remaining per Synergy's Letter # 039.
- 3) Original proposed Final Completion date of 9/16/12 has been and will continued to be delayed due to extra work performed during the punchlist period as directed by SFMTA.
- 4) It is our understanding that the SFMTA is waiting to request approval from Board of Directors until all change orders have been negotiated and prepared in CMODs. Synergy requests the SFMTA approach the Board and process payment on all current agreed/approved change orders.

Manuel Arce
Director of Construction
Synergy Project Management, Inc.
415-467-3000 Main Office
415-467-3001 Main Office Fax
415-509-8114 Cell Phone
415-615-0086 Field Office Fax

From: Manuel Arce [<mailto:manuel.arce@synergypm.com>]
Sent: Wednesday, October 03, 2012 1:59 PM
To: 'Acosta, Michael'; 'Huey, Terence Y'
Cc: 'donovan@synergypm.com'; 'javad@synergypm.com'
Subject: RE: 1251 Punchlist Update

10-4. I am trying to have something for you in 15 minutes yeah or no or something in between.

Manuel Arce
Director of Construction
Synergy Project Management, Inc.
415-467-3000 Main Office
415-467-3001 Main Office Fax
415-509-8114 Cell Phone
415-615-0086 Field Office Fax

From: Acosta, Michael [<mailto:Michael.Acosta@sfmta.com>]
Sent: Wednesday, October 03, 2012 1:49 PM
To: 'Manuel Arce'; Huey, Terence Y
Cc: donovan@synergypm.com; javad@synergypm.com
Subject: RE: 1251 Punchlist Update

We will estimate the cost of the remaining work and will let you know how much.

Thanks

Mike Acosta, P.E.
Resident Engineer
SFMTA/Central Subway
Tel.: 415-701-5282
Mobile: 415-678-8068
Fax: 415-701-5222
E-mail: Michael.acosta@sfmta.com

From: Manuel Arce [<mailto:manuel.arce@synergypm.com>]
Sent: Wednesday, October 03, 2012 12:16 PM
To: Huey, Terence Y; Acosta, Michael
Cc: donovan@synergypm.com; javad@synergypm.com
Subject: 1251 Punchlist Update

Terrence and Mike,

Please see attached Synergy letter 039 for request of additional retention. Synergy has completed over 95% of the contract work and we request an additional release per the contract General Provisions. Please see attached punchlist for current status and notes below.

- 1) ATT Walkthrough scheduled for tomorrow 10/4/12 at 8am.
- 2) PG&E Electrical items are almost all complete but walkthrough will not occur until Tom Reimer returns the week of 10.8.12.
- 3) Please confirm which items on the list will be deferred to other contracts.

Please let me know if you have any questions.

Thank you

Manuel Arce

Director of Construction

Synergy Project Management, Inc.

415-467-3000 Main Office

415-467-3001 Main Office Fax

415-509-8114 Cell Phone

415-615-0086 Field Office Fax

CMB Change No.: CMB - 0076

Initial Implementing Change Control Procedure No.: 1251 - CMod Trend #43, 72 and 80

GENERAL

Proposed Change Sponsor: M. Acosta Received by CMB: 10/03/2012
(Date)

Affected Disciplines: Utilities
Traffic





- Impacts of Change
1. Trend #43 - Force account work for demolition of existing AT&T Vault No. 113 (Post/Stockton Streets) and Vault No. 403 (Ellis Street).
 2. Trend #72 - Additional AT&T trench from (N) Vault No. 5829 to (E) Vault No. 127 (Geary Street east of Stockton Street).
 3. Trend #80 - Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to/from these vaults.

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input 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
Senior Program Manager:			
Deputy Program Manager:			10/3/2012
PM Project Services:			03 Oct 12
PM Project Development/Delivery:			10/3/2012
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			3 OCT '12

Comments

① Contingent on receipt of confirmation letter from AT&T for costs associated with these three trends

COST ANALYSIS:

Each of the 43 FARs submitted by the Contractor was thoroughly reviewed by the SFMTA Resident Engineer. After this comprehensive review it was determined that the final value of these FARs will not exceed the \$129,161.25 total shown in the Cost Summary Table. Note that the final negotiations have not yet taken place therefore the 'Forecast NTE Cost' should not be considered a final agreed cost but rather a ceiling for future negotiations.

Approval of the NTE cost contained herein will allow the Resident Engineer to conduct final negotiations with the Contractor which in turn will facilitate the compilation and execution of a Contract Modification.

SCHEDULE ANALYSIS:

This work does not impact the Substantial Completion Date. There is no time adjustment associated with this Contract Modification.

TREND NUMBERS 43, 72 AND 80

SFMTA Contract No. 1251
 UNION SQUARE/MARKET STREET STATION
 UTILITIES RELOCATION

Contractor: Synergy Project Management Inc.
 30 Grant Street, Suite 300
 San Francisco, CA 94108

**SUPPLEMENTAL CHANGE ANALYSIS
 (FOR CMB APPROVAL)**

SCOPE OF WORK: (See attached sketch for approximately vault locations)

Trend 43: Force account work for demolition of existing AT&T Vault No. 113 (Post/Stockton Streets) and Vault No. 403 (Ellis Street).

Trend 72: Additional AT&T trench from (N) Vault No. 5829 to (E) Vault No. 127 (Geary Street east of Stockton Street).

Trend 80: Additional work related to installation of AT&T Vaults 5828, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to/from these vaults.

REASON FOR CHANGE:

Note: AT&T is aware of the costs associated with the additional work contained herein. The SFMTA Resident Engineer is in the process of securing a Form B reimbursement agreement letter from AT&T.

Trend 43: The vault demolition work discussed above was not included in the original Contract as it was planned to use the existing vaults to receive the new conduits. Upon inspection AT&T determined that the existing vaults were damaged beyond repair and required replacement. AT&T elected to have Synergy replace these vaults (compensated under Contract Modification No. 11) however, the scope of the demolition work could not be quantified at the time the Contract Modification was being prepared so it was agreed to track these costs on force account reports

Trend 72: AT&T requested new conduits to maintain continuity between (N) Vault 5829 and (E) Vault 127 on Geary Street east of Stockton Street.

Trend 80: Unforeseen conditions were encountered during the excavation/installation of the listed AT&T vaults (including excavation/installation of joint trenches leading to/from these vaults).

COST SUMMARY TABLE:

Trend Number:	Description of Additional Work Performed:	Contractor's Cost Proposal	Forecasted NTE Cost:	Trended Amount
43	Demolition of AT&T Vault Nos. 113 and 403	\$61,358.99	\$55,961.58	\$30,000.00
72	Additional AT&T trenching	\$18,702.23	\$15,020.04	\$25,000.00
80	Unforeseen Conditions Encountered During Vault/Trench Installation	\$81,341.64	\$58,179.63	\$55,000.00
TOTAL		\$161,402.86	\$129,161.25	\$110,000.00

SUMMARY TABLE FOR TRENDS 43, 72 AND 80

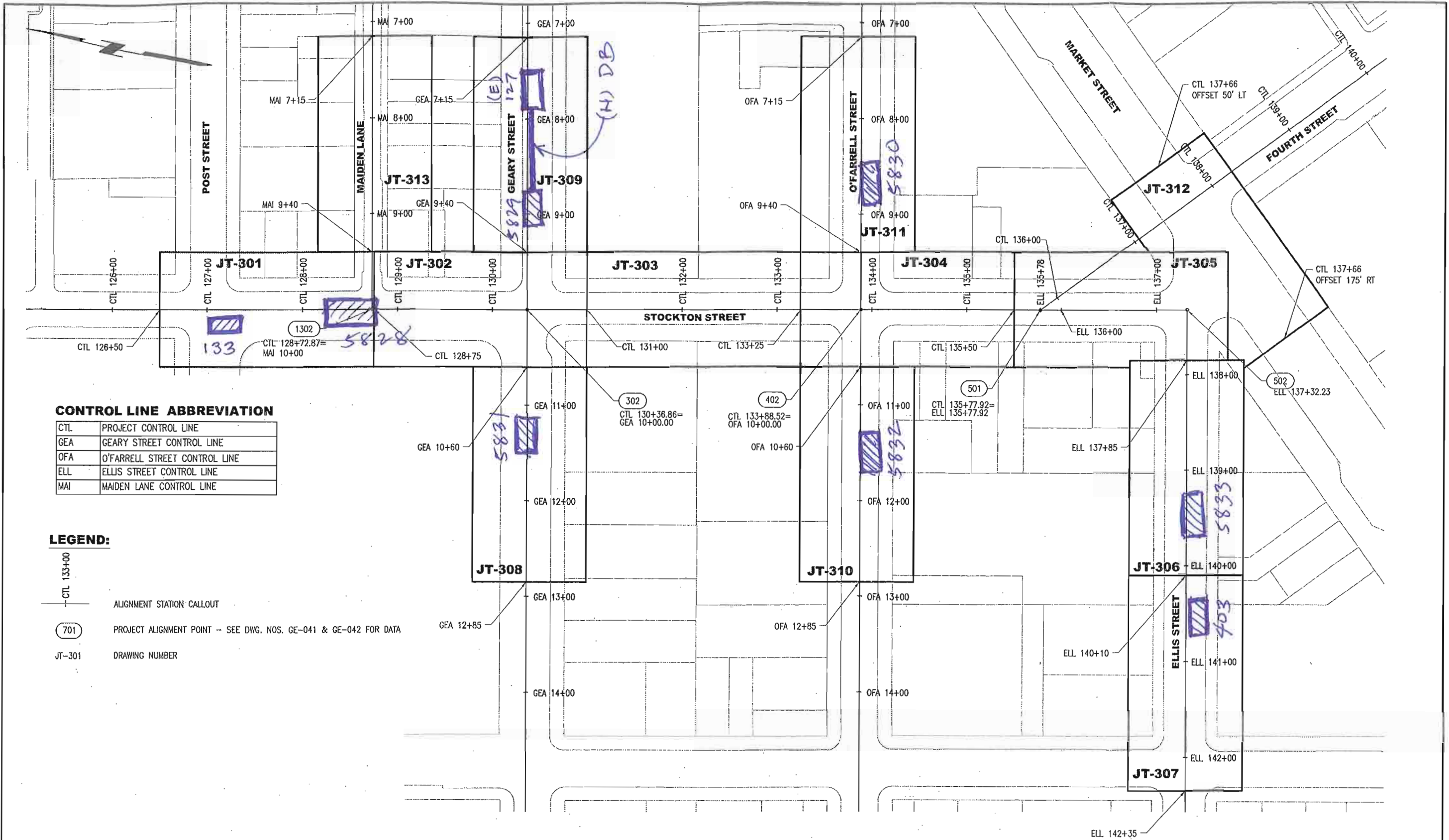
Differing Conditions Encountered During the Installation of AT&T Related Infrastructure
 SFMTA Central Subway Contract Number 1251 - Union Square/Market Street Station Utilities Relocation

Item #	Index #	FA #	Description	Synergy Requested Amount	SFMTA Current Approved Amount	Forecasted Final Amount	Outstanding Cost Differences
1	1.1.1	2187	Removing abandoned structures not shown on drawings around ATT vault 403 on Ellis Street @ STA 141+60+/-	\$1,376.10	\$1,371.19	\$1,371.19	
2	1.1.2	2188	Excavate around ATT vault 403 to expand existing vault in lieu of vault 5833 on Ellis St at STA 141+60+/-	\$3,669.61	\$3,656.52	\$3,656.52	
3	1.1.3	2195	Excavate around ATT vault 403 to expand existing vault in lieu of vault 5833 on Ellis St at STA 141+60+/-	\$3,669.61	\$3,656.52	\$3,656.52	
4	1.1.4	2196	Excavate around ATT vault 403 to expand existing vault in lieu of vault 5833 on Ellis St at STA 141+60+/-	\$2,351.68	\$2,698.73	\$2,698.73	
5	1.1.5	2250	11AM to 3:30PM begin demo of AT&T vault 403 for installation of AT&T vault 5833 on Ellis St. Also demo out 6" pipe not shown on UD-307	\$2,304.11	\$2,358.97	\$2,358.97	
6	1.1.6	2258	7AM to 3:30PM demo at AT&T vault 403 for installation of AT&T vault 5833 on Ellis St.	\$5,010.62	\$4,297.32	\$4,297.32	
7	1.1.7	2259	7AM to 3:30PM demo at AT&T vault 403 for installation of AT&T vault 5833 on Ellis St.	\$2,505.31	\$2,148.66	\$2,148.66	
8	1.1.8	2470	O'Farrell west - demo of AT&T vault 113 not on contract docs - AT&T vault 113	\$5,778.25	\$5,104.78	\$5,719.97	\$615.19
9	1.1.9	2476	O'Farrell west - continued demo of AT&T vault 113 not in original scope of work - AT&T vault 113	\$5,095.93	\$4,979.27	\$5,594.46	\$615.19
10	1.1.11	3123	Demo AT&T vault 133 @ Stockton & Post.	\$6,435.95	\$4,291.90	\$4,957.09	\$665.19
11	1.1.12	3124	Stockton & Post - Demo of AT&T vault 133.	\$7,049.75	\$5,096.29	\$5,761.48	\$665.19
12	1.1.13	3126	Demo AT&T vault 133 @ Post & Stockton.	\$6,808.61	\$4,424.28	\$5,295.31	\$871.03
13	1.1.14	3128	Stockton - Demo AT&T vault 133.	\$5,412.49	\$3,725.62	\$4,149.52	\$423.90
14	1.1.15	3129	O'Farrell West - Chip MCI ductbank in conflict with (N) AT&T trench to vault 133.	\$1,847.63	\$1,911.60	\$1,911.60	
15	1.1.16	3152	AT&T vault 133 support (E) AT&T cables at Stockton & Post.	\$1,824.02	\$2,170.98	\$2,170.98	
16	1.1.19	3156	Stand-by time for lead cable repair @ AT&T vault 133.	\$219.32	\$213.26	\$213.26	
TREND 43 SUBTOTAL				\$61,358.99	\$52,105.89	\$55,961.58	
17	1.2.1	3448	Excavation of new AT&T trench at Geary East	\$5,646.53	\$4,426.68	\$4,426.68	
18	1.2.2	3455	Excavation of new AT&T trench from vault 5829 to vault 127	\$3,444.25	\$2,312.87	\$2,312.87	
19	1.2.3	3457	Excavation of new AT&T trench from vault 5829 to vault 127	\$4,245.30	\$3,592.23	\$3,592.23	
20	1.2.4	3462	Installation of conduits from vault 5829 to vault 127	\$3,742.06	\$3,327.43	\$3,327.43	
21	1.2.5	3464	Excavation of new AT&T trench from vault 5829 to vault 127	\$1,624.09	\$1,360.83	\$1,360.83	
TREND 72 SUBTOTAL				\$18,702.23	\$15,020.04	\$15,020.04	
22	1.3.1	2080	Digging of AT&T vault 5830 was impeded by metal line, concrete from old railway and steam pipe. Items not shown on plans.	\$2,398.09	\$883.15	\$1,076.59	\$193.44
23	1.3.2	2081	Digging of AT&T vault 5830 was impeded by metal line, unidentified utilities and steam pipe. Items not shown on plans.	\$3,698.94	\$3,451.92	\$3,451.92	
24	1.3.3	2082	Digging of AT&T vault 5830 was impeded by metal lines, unidentified utilities and steam pipe. Item not shown on plans.	\$5,757.75	\$4,909.29	\$4,909.29	
25	1.3.7	2270	2PM to 3PM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$630.82	\$563.12	\$563.12	

26	1.3.8	2271	7AM to 3:30PM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$5,438.45	\$4,712.07	\$4,712.07	
27	1.3.9	2274	7AM to 5PM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$5,904.36	\$5,517.92	\$5,517.92	
28	1.3.10	2280	7AM to 3:30PM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$5,649.54	\$4,537.42	\$4,537.42	
29	1.3.11	2281	7AM to 3:30PM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$5,813.84	\$4,277.74	\$4,277.74	
30	1.3.12	2283	7AM to 9AM extend AT&T vault 5833 per discussion with D. Gibbons on Ellis St.	\$1,321.65	\$1,069.43	\$1,069.43	
31	1.3.17	2307	O'Farrell - AT&T vault 5382. Existing ductbanks had to be chipped and removed to install new vault. Ductbanks on plans do not reflect the ductbank in the field.	\$3,697.99	\$1,602.93	\$1,975.73	\$372.80
32	1.3.18	2308	O'Farrell - AT&T vault 5382. Existing ductbanks had to be chipped and removed to install new vault. Ductbanks on plans do not reflect the ductbank in the field.	\$6,331.53	\$3,137.78	\$3,883.38	\$745.60
33	1.3.19	2318	AT&T vault 5832 (O'Farrell). Existing ductbank had to be chipped and removed to install new vault. Ductbank on plans do not reflect the ductbank in the field.	\$6,352.77	\$1,826.13	\$2,292.13	\$466.00
34	1.3.27	2377	AT&T JT (O'Farrell) joint trench to vault 5830. Remove pipes and (E) duct bank to install (N) joint trench. Location of (E) AT&T duct structure in the field different from the contract drawings.	\$1,656.64	\$1,678.67	\$1,678.67	
35	1.3.28	2378	AT&T JT (O'Farrell) joint trench to vault 5830. Remove pipes and (E) duct bank to install (N) joint trench. Location of (E) AT&T duct structure in the field different from the contract drawings.	\$6,155.26	\$2,145.48	\$2,145.48	
36	1.3.29	2379	AT&T JT (O'Farrell) joint trench to vault 5830. Remove pipes and (E) duct bank to install (N) joint trench. Location of (E) AT&T duct structure in the field different from the contract drawings.	\$2,009.86	\$1,742.84	\$1,742.84	
37	1.3.30	2380	AT&T JT (O'Farrell) joint trench to vault 5830. Remove pipes and (E) duct bank to install (N) joint trench. Location of (E) AT&T duct structure in the field different from the contract drawings.	\$6,137.19	\$4,938.08	\$5,440.36	\$502.28
38	1.3.37	2454	Stockton - chipping of existing AT&T conduit ductbank was needed in order to install vault roof at vault 5828.	\$2,445.74	\$0.00	\$423.73	\$423.73
39	1.3.38	3149	O'Farrell West - Remove (E) duct structure to install (N) joint trench to AT&T vault 5832.	\$1,830.70	\$1,613.12	\$1,613.12	
40	1.3.39	3150	O'Farrell West - Removal of (E) duct structure in AT&T trench 5832.	\$1,923.38	\$1,833.27	\$1,833.27	
41	1.3.40	3158	O'Farrell West - Remove (E) duct structures to install (N) trench to AT&T vault 5832.	\$864.16	\$729.63	\$729.63	
42	1.3.41	3329	Install new frame and cover and neck on AT&T vault 5829 (Geary east)	\$4,014.03	\$2,910.70	\$3,234.35	\$323.65
43	1.3.42	3352	Chip existing ducts in ATT vault 5829 on Geary East, ATT splicer requesting slack in existing cables. Vault constructed per plans.	\$1,308.95	\$1,071.44	\$1,071.44	
TREND 80 SUBTOTAL				\$81,341.64	\$55,152.13	\$58,179.63	

	Synergy Request Amount	SFMTA Current Approved Amount	Forecasted Final Amount	Trended Amount
<i>Trend Numer 43 Subtotal</i>	\$61,358.99	\$52,105.89	\$55,961.58	\$30,000.00
<i>Trend Numer 72 Subtotal</i>	\$18,702.23	\$15,020.04	\$15,020.04	\$25,000.00
<i>Trend Numer 80 Subtotal</i>	\$81,341.64	\$55,152.13	\$58,179.63	\$55,000.00
TOTAL CONTRACT MODIFICATION VALUE	\$161,402.86	\$122,278.06	\$129,161.25	\$110,000.00

\\CS2SA001\NCSm544.1\FinalDesign\Drawings\2-Civil\Joint Trench\Sheet Files CP02\M54422JT003.dwg fbayani Wed Jun 23,2010 3:09 pm JT-003

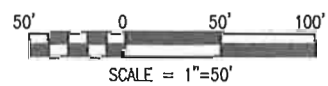


CONTROL LINE ABBREVIATION

CTL	PROJECT CONTROL LINE
GEA	GEARY STREET CONTROL LINE
OFA	O'FARRELL STREET CONTROL LINE
ELL	ELLIS STREET CONTROL LINE
MAI	MAIDEN LANE CONTROL LINE

LEGEND:

- CTL 133+00
— ALIGNMENT STATION CALLOUT
- (701) PROJECT ALIGNMENT POINT -- SEE DWG. NOS. GE-041 & GE-042 FOR DATA
- JT-301 DRAWING NUMBER



DATE	DESCRIPTION	REV. NO.	BY	CHECKED	APPROVED
07/08/2010	ISSUED FOR BID	0			

PB TELAMON

TELAMON ENGINEERING CONSULTANTS INC.

DESIGNED: PW
DRAWN: PW
CHECKED: FR
REVIEWED: MC
RECOMMENDED: MF
APPROVED: RE
DATE: JUL 8 - 2010

REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER WILSON
259930
EXP 3/31/12
CIVIL
STATE OF CALIFORNIA

SEAL OF THE CITY AND COUNTY OF SAN FRANCISCO

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED
[Signature]
EXECUTIVE DIRECTOR/CEO

THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 - CENTRAL SUBWAY
UNION SQUARE/MARKET STREET STATION UTILITIES RELOCATION

CONTRACT NO. 1251
SFMTA CONTROL NO. CL-17786

DRAWING NO. JT-003
SHEET NO. 64

REVISION 0

JOINT TRENCH SHEET LAYOUT FOR 1"=10' SCALE

Contract Modification Projection - Contract 1251

Report Date:

09/27/12

Cmod No.	Description	Cmod Amount	Time Extension	Status	Comments
1	Sewer Changes on Geary and O'Farrell Streets	\$ 148,918.72	0	Executed	
2	Joint Trench Support Slab at O'Farrell/Stockton	\$ 67,633.79	0	Executed	
3	Additional work for secondary basement closure wall at 150 Stockton (Nieman Marcus), accelerate work at 48 Stockton (Barneys) and 101 Stockton (Macys West)	\$ 216,993.24	0	Executed	
4	Adjustment to TR-7 Bid Item allowance	\$ 261,584.33	0	Executed	
5	Revised Utility Layout (Stockton North and Ellis)	\$ (36,332.44)	0	Executed	
6	Changes to AWSS on O'Farrell	\$ 278,350.98	0	Executed	
7	Furnish and install AT&T Manhole 5830 on O'Farrell and 5829 on Geary	\$ 56,000.00	0	Executed	
8	Additional traffic signal work at Post/Stockton and Sutter/Mason	\$ 49,583.99	0	Executed	
9	Increase Bid Item WD-10, Allowance for Additional Excavation and Backfill	\$ 191,778.62	0	Executed	
10	Acceleration to install AT&T facilities	\$ 281,435.00	0	Executed	
11	Furnish and install AT&T Manholes 5828 (Stockton), 5831 (Geary), 5832 (O'Farrell), 113 (O'Farrell) and 403 (Ellis)	\$ 188,000.00	0	Executed	
12	Folsom Street Overhead Contract System Additional Work	\$ 405,439.51	0	Executed	
13	Installation of secondary closure wall at 1 Stockton Street (Apple Store)	\$ 408,699.53	39	Executed	Need to take to MTA Board
14	Additional 150 LF of AT&T trench and installation of Vault 133	\$ 100,228.23	0	Executed	Need to take to MTA Board
15	Extra work for sewer facilities	\$ 45,155.74	0	Executed	Need to take to MTA Board
16	Extra work for SFWD/NRG facilities	\$ 39,598.55	0	Executed	Need to take to MTA Board

Contract Modification Projection - Contract 1251

Report Date:

09/27/12

Cmod No.	Description	Cmod Amount	Time Extension	Status	Comments
17	Live utilities temp support at 17-25 Stockton Trend No. 34	\$ 346,456.02	35	Signatures/Distribution	CMB Approved. City Attorney has issue with language relating to potential cost recovery from property owner.
18	Macy's/UMS Garage Sewer work/Gucci Sewer Trend Nos. 37, 44 and 45	\$ 118,995.53		Pending Drafting	CMB Approved. RE to prepare Mod package.
19	Slurry wall and tie-ins Trend Nos. 24 and 32	\$ 303,048.78		Pending Drafting	CMB Approved. RE to prepare Mod package.
20	OCS feeder/770 pole/signal modification/unforeseen for pole foundations Trend Nos. 50, 67, 74, 75	\$ 110,044.43			CMB Approved. RE to prepare Mod package.
A	PG&E field changes (PVC-GRS, 873 and O'Farrel crossings) Trend Nos. 30, 31 and 20	\$ 88,944.25			CMB Approved. RE to package FARs and obtain concurrence from PG&E
B	JCDecaux/ Muni benches/waterproofing at FIDM and C&B and Macys Mens/Flower Stand Trend Nos. 38, 39, 54, 62 and 73	\$ 82,442.50			RE need to request official invoice from JC Decaux. RE to package FARs.
C	Demo of AT&T vault 113/additional trench/unforeseen at various vaults Trend Nos. 43, 72 and 80	\$ 110,000.00			RE to package FARs
D	PG&E vault 584/duct/swiveloc lids/177 Stillman work/gas tie-in part II/intercept conduit at vault 573/remove gas valve and install anodes/PGE-AWSS interference on Geary/differing conditions at various vaults Trend Nos.5, 46, 51, 55, 61, 63, 66, 69 and 79	\$ 367,201.14			RE waiting for Synergy to gather all force accounts and submit as CORs
E	Differing conditions for Qwest, TCG and UCCO Trend No. 77	\$ 45,000.00			Synergy to submit FARs. RE to package FARs
F	MUNI vault 900A/SL conduit/adjustment to OCS on Mason/OCS poles on Mason Trend Nos. 47, 58, 76 and 78	\$ 79,740.94			Synergy to submit FARs. RE to package FARs
G	Work with 17-19 Stockton Contractor/Acceleration at 17-19 and Barney's/Acceleration for AT&T and PG&E cut-over Trend Nos. 49, 53, 59 and 64	\$ 108,896.42			Synergy to gather all FARs and submit COR to RE. RE to negotiate thereafter.
H	Reroute waterline on Geary/AWSS on Ellis/Core drill and plumbing at Disney and Armani Trend Nos. 52, 65 and 70	\$ 85,959.35			RE to package FARs
I	Final bid item reconciliation/credit for underpinning Trend Nos. 8 and 60	\$ (39,337.51)			Pending final agreement with contractor
J	Extended overhead Trend No. 68	\$ 106,967.02	29		RE to present to CMB for approval
K	Trended as Potentials Trend Nos. 14, 48 and 71	\$ 296,087.88			RE to evaluate if still needed
	Total:	\$ 4,913,514.54	103		
	Contract Amount:	16,832,549.80			
	Percent Over/Under:	29%			

CONTRACT 1251 - Utilities Relocation #2 - Union Square/Market Street Station Utility Relocation
Estimate At Completion (EAC)

Report Date:

October 12, 2012

Original Budget		Estimate At Completion		
Contract Budget	\$ 16,832,549.80		Expected	Potential
Alocated Contingency (per Jan 2011 Monthly Cost Report)	\$ 5,367,297.00	Contract Award	\$ 16,832,549.80	\$ 16,832,549.80
Total Budget Value	\$ 22,199,846.80	Current Contract Modifications	\$ 2,703,067.79	\$ 2,703,067.79
Current Contract Value		Pending Contract Modifications	\$ 848,493.48	\$ 848,493.48
Contract Award	\$ 16,832,549.80	Expected Contract Modifications	\$ 1,065,865.39	\$ 1,065,865.39
Executed Modifications (#1 thru #16)	\$ 2,703,067.79	Expected EAC	\$ 21,449,976.46	
Total Contract Value	\$ 19,535,617.59			
Current Cost Estimate		Potential Contract Modifications		\$ 296,087.88
Revised Base Contract	\$ 19,535,617.59	Potential EAC		\$ 21,746,064.34
Additional Program Costs	\$625,985.63			
Adjusted Alocated Contingency	\$ 2,038,243.58			
Total Budget	\$ 21,573,861.17	Form B Reconciliation	\$ (9,318,701.87)	\$ (9,318,701.87)
Remaining Contingency (Thru Trend #67)	\$ (172,203.17)	Total 1251 EAC	\$ 12,131,274.59	\$ 12,427,362.47

Current Contract Amount Increase 16.06%
Expected Contract Amount Increase 27.43%
Potential Contract Amount Increase 29.19%

PROPOSED CONTRACT CHANGE

Contract No. 1252 Tunnels
PCC No. 1252-03
PCC Title General Detour Signage

Date 10/08/2012

Description of PCC:	
<u>Summary of Changes:</u>	
<ul style="list-style-type: none">• 27 New Temporary Signs to be installed per attached Table of Signs;• 9 Existing Signs to remain in place per attached Table of Signs;• 11 New Permanent Signs to be installed per attached Table of Signs;• 7 Existing Signs to be removed per attached Table of Signs;	
Spec Ref.	CN 1252 Tunnels
Drawing Nos.	CN 1252 Table of Signs, dated 9/25/12 (attached) CN 1252 Detour Sign Plan, Rev. 0 dated 9/25/12 (attached)
The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 88.B within 14 days after receipt of a PCC.	

Recommended by:


Sarah Wilson, Resident Engineer
SFMTA Representative

Date 10/8/12

Concur in Principle:

Name, Contract Administrator
SFMTA Representative

Date _____

FINDING OF FACTS

Exhibit 1102-2

Contract No. & Name 1252- Tunnels

PCC No. & Title 1253-03 – General Detour Signage

Initiator (Name & Dept.) SFMTA – Al Herce

Date 10/08/2012

What (Description of PCC)
General Detour Signage.
Why (Reason for Requesting PCC)
Southbound Stockton Street traffic ends up at the intersection of Ellis and Powell Streets, and the high volume of vehicular traffic causes congestion which significantly impacts the operations of Cable Cars on Powell Street. The intent of the Detour Signage is to direct drivers away from the Powell and Ellis Street intersection.
Where (Location, Station)
Detour Sign Plan (see attached)
When (Occurrence Date, Action Date, Potential Time Impacts)
Occurrence Date: 10/08/2012 Action Date: 10/15/2012 Potential Time Impact: None
How (Recommendation of Action)
Install General Detour Signage to divert southbound traffic away from the intersection of Ellis and Powell Streets.
Estimate (Summary of Engineer's Estimate w/ EE attached)
\$13,323.92
Specification Reference
None
Drawing Nos.
Central Subway – 1252 Tunnel Contract – Detour Sign Plan, Rev. 0 dated 09/25/2012 (see attached)
The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 75.1.B within 14 days after receipt of a PCC.

Approved by:


Sarah Willson, RE
SFMTA Representative

10/8/12
Date

Sign	Legend	Size (W)	Size (H)	Area (SqFt)	Cost/SF	No Signs	Cost/Sign
A	Closed	48	42	14.00	\$ 10.67	2	\$ 298.76
B	Closed	48	42	14.00	\$ 10.67	2	\$ 298.76
101	S 101	30	24	5.00	\$ 10.67	22	\$ 1,173.70
80	E80	30	30	6.25	\$ 10.67	19	\$ 1,267.06
DR	Det Rt	48	18	6.00	\$ 10.67	8	\$ 512.16
DL	Det Lt	48	18	6.00	\$ 10.67	7	\$ 448.14
DV	Det Ver	48	18	6.00	\$ 10.67	17	\$ 1,088.34
G1	S 101 Ver	36	24	6.00	\$ 14.00	1	\$ 84.00
G2	S 101 Rt	36	24	6.00	\$ 14.00	1	\$ 84.00
G3	S 101 Lt	36	24	6.00	\$ 14.00	1	\$ 84.00
G4	80 Bay Br Ver	36	36	9.00	\$ 14.00	1	\$ 126.00
G5	80 Bay Br Left Lanes	30	48	10.00	\$ 14.00	1	\$ 140.00
G6	80/101 Rt	36	36	9.00	\$ 14.00	1	\$ 126.00
G7	80/101 Lt	36	36	9.00	\$ 14.00	1	\$ 126.00
G8	80 Bay Br/S 101 Ver	36	54	13.50	\$ 14.00	1	\$ 189.00
G9	80 Bay Br/S 101 Rt	36	54	13.50	\$ 14.00	1	\$ 189.00
G10	80 Bay Br/S 101 Lt	36	54	13.50	\$ 14.00	1	\$ 189.00
G11	80/101 Left Lanes	10	30	10.00	\$ 14.00	1	\$ 140.00

SIGN PANELS: 88 \$ 6,563.92

Labor and Materials per location (hardware to affix to existing poles) \$ 200.00

Sign Cost \$ 10.67 per sq ft Orange
 \$ 14.00 per sq ft Color

INSTALLATIONS/REMOVALS		EXT
Cost/Location (install):	\$120.00	\$ 4,560.00
No Installations:	38	
Cost/Location (remove):	\$ 50.00	\$ 400.00
No Removals:	8	
INSTALLATION/REMOVALS:		\$ 4,960.00

FINAL REMOVAL	
Cost/Location (remove):	\$ 50.00 \$ 1,800.00
No Removals:	36
INSTALLATION/REMOVALS: \$ 1,800.00	

TOTAL PROJECT

Sign Panels: \$ 6,563.92 (Sign Materials Cost)
 Installation: \$ 4,960.00 (Hardware/Labor Cost)
 Removal: \$ 1,800.00 (Final Removal Cost)

TOTAL: \$ 13,323.92

TABLE OF SIGNS

CEN SUBWAY

1252

9/25/2012

Sign #	Signs	Legend	Color	Street	Cross Street	Facing	Mounting	Action
1	B	Stockton Closed at Geary	Orange	Stockton	Bush/Portal	SB	Street Light	NEW Temp
2	101+DR	S 101 Detour Rt	Orange	Stockton	Sutter (NW)	SB	Street Light	NEW Temp
3	101+DV	S 101 Detour Ver	Orange	Sutter	Powell (NW)	WB	Street Light	NEW Temp
4	101+DV	S 101 Detour Ver	Orange	Sutter	Mason (NW)	WB	Street Light / Muni	NEW Temp
5	101+DV	S 101 Detour Ver	Orange	Sutter	Jones (NW)	WB	Street Light / Muni	NEW Temp
6	101+DL	S 101 Detour Lt	Orange	Sutter	Hyde (SE)	WB	Street Light / Muni	NEW Temp
7	E7	4th / 101 / Ver	Orange	Geary	Powell (NW)	WB		Exist'g/Remain
8	101+DV	S 101 Detour Ver	Orange	Geary	Mason (NW)	WB	Street Light	NEW Temp
9	101+DV	S 101 Detour Ver	Orange	Geary	Jones (NW)	WB	Street Light	NEW Temp
10	101+DL	S 101 Detour Lt	Orange	Geary	Hyde (SE)	WB	Street Light	NEW Temp
11	101+80+DR	S 101, E 80, Detour Rt	Orange	Ellis	Garage Exit	SB	Temp	NEW Temp
12	101+80+DV	S 101, E 80, Detour Ver	Orange	Ellis	Mason (NW)	WB	Street Light	NEW Temp
13	101+80+DV	S 101, E 80, Detour Ver	Orange	Ellis	Jones (NW)	WB	Street Light	NEW Temp
14	101+80+DL	S 101, E 80, Detour Lt	Orange	Ellis	Hyde (SE)	WB	Street Light	NEW Temp
15	101+DV	S 101 Detour Ver	Orange	Hyde	Post (SW)	SB	Street Light	NEW Temp
16	80+DR	E 80 Detour Rt	Orange	O'Farrell	Larkin-Hyde (Midblock)	EB	Street Light	NEW Temp
17	A	Stockton Closed	Orange	O'Farrell	Hyde (SE)	EB	Street Light	NEW Temp
18	G1	S 101 Ver	GREEN	Hyde	O'Farrell (SW)	SB	Street Light	PERM NEW
19	101+80+DV	S 101, E 80, Detour Ver	Orange	Hyde	Eddy (SW)	SB	Street Light	NEW Temp
20	101+80+DV	S 101, E 80, Detour Ver	Orange	Hyde	GoldenGate (SW)	SB	Street Light	NEW Temp
21	G8	S 101, E 80, Ver	GREEN	8th St	Market (SW)	SB	Street Light	PERM NEW
22	G9	S 101 Rt / E 80 Ver	GREEN	8th St	Howard (NE)	SB	Street Light	PERM NEW
23	G3	S 101 Lt	GREEN	Howard	10th St (SE)	WB	Street Light	PERM NEW
24	G4	E 80 Ver	GREEN	8th St	Folsom (SW)	SB	Signal / Street Light	PERM NEW
25	G5	E 80 Lt	GREEN	8th St	Bryant (NW)	SB	Street Light	PERM NEW
26	E3	4th St / 80 / Lt	Orange	Stockton	Sutter-Post (Midblock)	SB		Exist'g/Remain
27	B	Stockton Closed at Geary	Orange	Post	Powell-Stockton (Midblock-S/S)	EB	Street Light	NEW Temp
28	80+DV	E 80 Detour Ver	Orange	Post	Stockton (SW)	EB	Street Light	NEW Temp
28	--	Parking / Union Sq / Ver	Orange	Post	Stockton (SW)	EB		Remove
29	80+DV	E 80 Detour Ver	Orange	Post	Kearny (SW)	EB	Street Light	NEW Temp
30	80+DR	E 80 Detour Rt	Orange	Post	Montgomery (SE)	EB	Signal	NEW Temp
31	E4	4th St / 80 / Ver	Orange	NewMontg	Market (SE)	SB		Exist'g/Remain
32	A	Stockton Closed	Orange	O'Farrell	Powell-Stockton (Midblock-N)	EB	Street Light	NEW Temp
33	80+DL	E 80 Detour Lt	Orange	O'Farrell	Grant/Market (SW)	EB	Street Light	NEW Temp
33	--	4th St / 80 / Ver	Orange	O'Farrell	Grant/Market (SW)	EB		Remove
34	80+DV	E 80 Detour Ver	Orange	Grant	O'Farrell (NE)	NB	Street Light	NEW Temp
35	80+DR	E 80 Detour Rt	Orange	Grant	Post (SE)	NB	Street Light	NEW Temp
36	G11	80, 101 Left Lane	GREEN	NewMontg	Natoma (NE)	SB		PERM NEW
36	E1	80, 101 Left Lane	Orange	NewMontg	Natoma (NE)	SB		Remove
37	G6	S 101, E 80, Rt	GREEN	NewMontg	Howard (S)	SB	Street Light	PERM NEW
37	--	101, 280 Rt	GREEN	NewMontg	Howard (S)	SB		Remove
37	--	4th St / Detour Lt	Orange	NewMontg	Howard (S)	SB		Remove
38	G7	S 101, E 80, Lt	GREEN	Howard	Hawthorne (SW)	WB	Signal	PERM NEW
39	G10	S 101 Ver / E 80 Lt	GREEN	Hawthorne	Folsom (NW)	SB		PERM NEW
39	E5	S 101 Detour Ver / E 80 Detour Lt	Orange	Hawthorne	Folsom (NW)	SB		Remove
40	E8	4th St / 101 / Rt	GREEN	Hawthorne	Harrison (NW)	SB		PERM NEW
40	E8	4th St / 101 / Rt	Orange	Hawthorne	Harrison (NW)	SB		Remove
41	101+DR	S 101 Detour Rt	Orange	O'Farrell	Van Ness (NW)	EB	Street Light	NEW Temp
42	E4	4th St / 80 / Ver	Orange	Post	Stockton (E/O)	EB		Exist'g/Remain
43	E7	4th St / 101 / Ver	Orange	Geary	Stockton (W/O)	EB		Exist'g/Remain
44	--	4th St / 101 / Lt	Orange	Geary	Mason (NE)	EB		Remove
45	E2	4th St / Right Lanes	Orange	NewMontg	Natoma (NW)	SB		Exist'g/Remain
46	E7	4th St / 101 / Ver	Orange	5th St	Market (SW)	SB		Exist'g/Remain
47	E6	S 101 Ver	Orange	5th St	Mission (NW)	SB		Exist'g/Remain
48	E4	4th St / 80 / Ver	Orange	O'Farrell	Stockton (E/O)	EB		Exist'g/Remain

T:\T_E_FILES\Construction Section\PERSONNEL\Broadway\Central Subway\Broadway Detour\signs\Detour Signs (acad) CenSubway.dwg sbroody Tue Sep 25, 2012 4:16 pm Layout

DETOUR SIGNS
black on orange

- A** Stockton
CLOSED
USE
DETOURS
48"x42"
- B** Stockton
CLOSED
at Geary
USE
DETOURS
48"x42"
- 101** SOUTH
101
30"x24"
- 80** EAST
80
30"x30"
- M4-10R**
DR **DETOUR**
48"x18" black & orange
- M4-10L**
DL **DETOUR**
48"x18" black & orange
- SC3(Ca)**
DV **DETOUR**
48"x18" black & orange

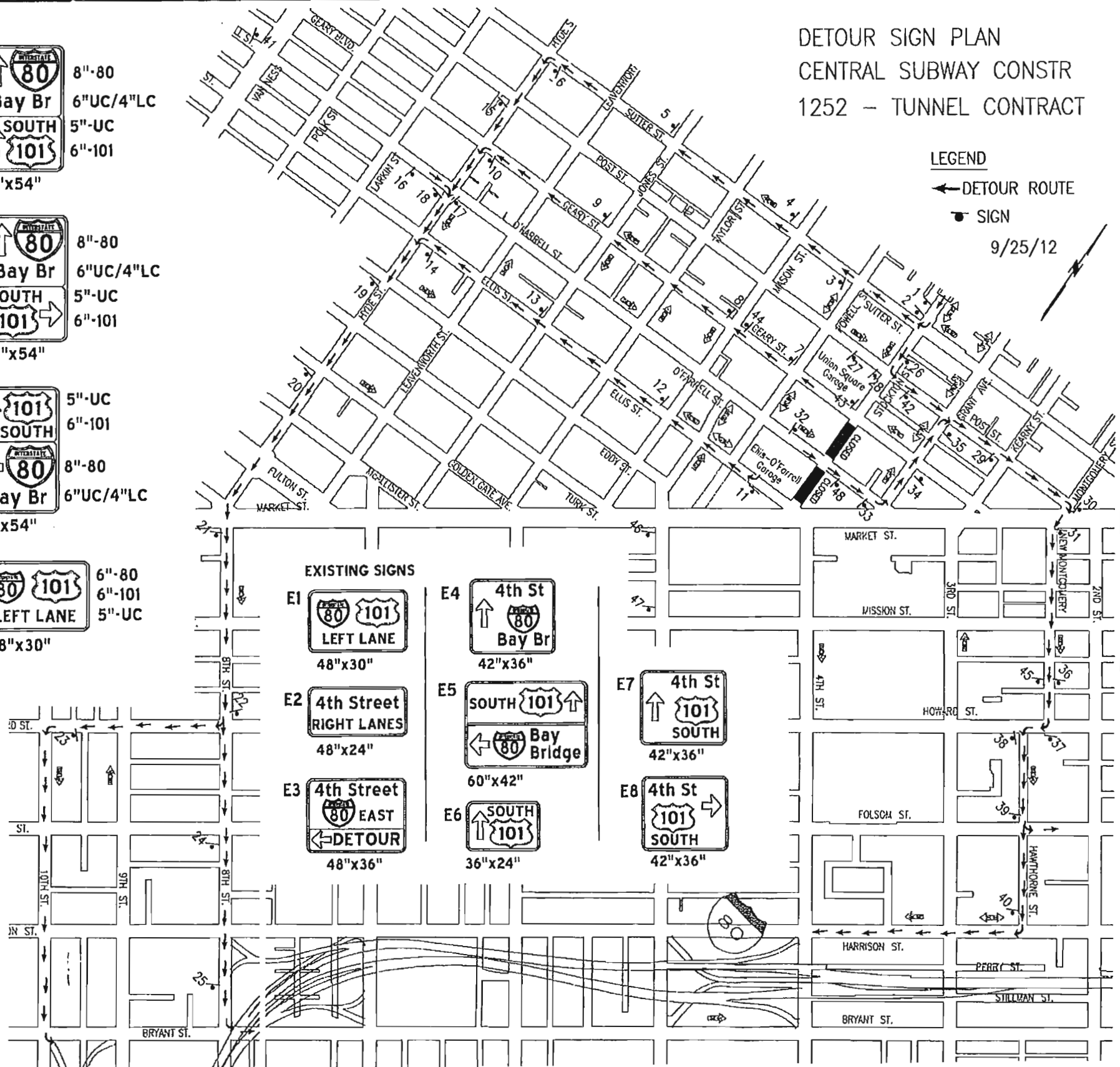
GUIDE SIGNS
white on green (with color shields)

- G1** SOUTH
101
36"x24"
- G2** SOUTH
101
36"x24"
- G3** SOUTH
101
36"x24"
- G4** Bay Br
80
36"x36"
- G5** Bay Br
80
36"x36"
- G6** Bay Br
80
36"x36"
- G7** Bay Br
80
36"x36"

- G8** Bay Br
80
SOUTH
101
36"x54"
- G9** Bay Br
80
SOUTH
101
36"x54"
- G10** Bay Br
80
SOUTH
101
36"x54"
- G11** Bay Br
80
101
LEFT LANE
48"x30"

DETOUR SIGN PLAN
CENTRAL SUBWAY CONSTR
1252 - TUNNEL CONTRACT

LEGEND
← DETOUR ROUTE
● SIGN
9/25/12



NOTES:
 Detour signs to be all black on reflective orange
 Guide signs to be refl white on green (101: black on white)(80:white on blue and red)
 "UC" = Upper case lettering / "LC" = Lower Case lettering
 Numerals in shields shall be 6" or 8" in height (as shown above)
 "E" Series signs are existing to remain All signs mounted at min 7 feet high.

DATE	DESCRIPTION	BY	CHECKED	APPROVED

SFMTA	DESIGNED	
	DRAWN	
	CHECKED	
	REVIEWED	
	RECOMMENDED	
	APPROVED	
	DATE	

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

FOR
 EXECUTIVE DIRECTOR/CEO

THIRD STREET LIGHT RAIL PROGRAM
 PHASE 2 - CENTRAL SUBWAY

TRAFFIC DETOUR PLAN

CONTRACT NO.	
SVTA CONTROL NO.	
DRAWING NO.	
REVISION	
SHEET NO.	0

PROPOSED CONTRACT CHANGE

Contract No. 1252 Tunnels Date 10/08/2012
 PCC No. 1252-04
 PCC Title Sewer Pipe Material Change at the Retrieval Shaft

Description of PCC:	
<u>Summary of Changes:</u> 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.	
Spec Ref.	33 31 07 Fiberglass Reinforced Pipe (Direct Burial) no longer required 33 34 05 Fabrication of Steel Pipe (slightly modified) New Spec to be prepared for HDPE (Adapted from existing spec used on CN1253) (Attachment C.1 and C.2)
Drawing Nos.	SW-3 and SW-3.1 (see Attachment D with annotated changes)
The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 88.B within 14 days after receipt of a PCC.	

Recommended by:  Date 10/8/12
 Sarah Wilson, Resident Engineer
 SFMTA Representative

Concur in Principle: _____ Date _____
 Name, Contract Administrator
 SFMTA Representative

FINDING OF FACTS

Exhibit 1102-2

Contract No. & Name	<u>CN 1252 - Tunnels</u>	Date	09/26/2012
PCC No. & Title	<u>PCC-04 Sewer Pipe Material Change at Retrieval Shaft</u>		
Initiator (Name & Dept)	<u>SFDPW - Lesley Wong</u>		

What (Description of PCC)

Change approximately 65 ft of pipe for sewer bypass around TBM Retrieval Shaft from 3' x 5' oval glassfiber reinforced plastic pipe to a 48-inch (OD) HDPE SD-17 pipe with casing insulator placed inside a 54-inch dia. 1/2-inch thick steel casing pipe. In addition, delete permanent sheet pile wall that was to have been placed along west side of trench to facilitate future maintenance access to sewer along shaft.

Why (Reason for Requesting PCC)

The 3 x 5 oval GRP pipe that was available from local suppliers (Ameron) when the contract drawings were prepared is no longer available due to the company being purchased and the product line cancelled. Only other manufacturers are in the middle east (Dubai) or eastern Europe (Poland). Factory in Poland will not make a production run for such a short length of pipe and delivery time for pipe from Dubai is 10+ weeks.

SFMTA met with SFPUC and SFDPW on Monday 9/24/12 (Attachment A) and agreed to an alternate pipe system consisting of a 42 to 48 inch ID diameter HDPE sewer pipe to be installed inside of a steel casing pipe (sand-filled 3 inch annulus) that will provide for future access/maintenance/removal of the inner HDPE pipe.

Where (Location, Station)

Columbus Avenue between Union and Filbert Street at the Retrieval Shaft. From CTL 80+70 to approximately CTL 81+37 (location of southern manhole to be field fit to avoid being within the pedestrian crosswalk.

When (Occurrence date, action date, potential time impact)

Occurrence Date: 9/24/12
 Action Date: 9/26/12
 Potential Time Impact: Estimated less than 1 week if COR can be affected by end of current week

How (Recommendation of Action)

Change the sewer pipe material from a direct burial 3x5 glassfiber reinforced plastic to HDPE pipe placed inside a buried welded steel pipe. Backfilling to remain as CDF

Estimate (Summary of Engineer's Estimate w/EE attached)

Approximately \$6800. See Attachment B by C. Dombrowski

Spec Ref

33 31 07 Fiberglass Reinforced Pipe (Direct Burial) no longer required
 33 34 05 Fabrication of Steel Pipe (slightly modified)
 Supplemental Spec for Steel and HDPE (See Attachment C))

Drawing Nos.

SW-3 and SW-3.1 (see Attachment D with annotated changes)

The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 75.1.B within 14 days after receipt of a PCC.

Prepared by: Matt Fowler (PB Teiamon) for Kevin Day and Lesley Wong (SFWD) *M. Fowler 10/3/12*

Approved by: Sarah Wilson, RE/PE *Sarah Wilson* Date 10/3/12

Fowler, Matthew E

From: Funghi, John
Sent: Monday, September 24, 2012 6:07 PM
To: Fowler, Matthew E; Benson, Mark; Wong, Lesley S
Cc: Wilson, Sarah H (SFMTA); Edwards, Ross
Subject: RE: Retrieval Shaft Rev 4 - post meeting with PUC

Matt,

My comments in red.

1. Size of connecting diagonal branches -- current contract shows 36 inch RCP. BIH submittal for 36 inch RCP was returned approved last week so Synergy could build the connecting manholes. Is their any intent to upsize the diagonal RFP branches that will connect to the 42 Inch section?

No. Both DPW and PUC agreed to keep the 36" RCP as designed.

2. Implementation of the change in the plans - The changes described here are to the SW drawings that were prepared by and continue to be maintained by Kevin Day and Lesley Wong at SFDPW. I will call Kevin and Lesley to discuss their availability to make the changes to their drawings.

Not necessary. Lesley Wong is familiar with the change. Please just modify the detail and Lesley will take care of the rest.

5:20P UPDATE -- JUST OFF THE PHONE WITH LESLEY WONG WHO WAS PRESENT AT THE MEETING. SHE IS LOOKING INTO THE SIZE AND BRAND OF HDPE. EVIDENTLY SUCH AN ARRANGEMENT IS BEING USED FOR CN1253 BUT ON SMALLER PIPE. ACCORDING TO LESLEY, PUC WOULD LIKE TO HAVE A 45 INCH ID HDPE TO MATCH THE FLOW CAPACITY OF THE THE EXISTING 3X5; IN ADDITION, THEY ARE LOOKING FOR THE SAND-FILLED ANNULUS TO BE 3 INCHES. TO SATISFY THESE DIMENSIONS THE RCP WOULD HAVE TO BE 54 INCH WITH A 69.5 INCH OD BELL, WHICH IS APPROXIMATELY 4 INCHES LARGER THAN THE 66 INCHES CURRENTLY PROPOSED. A NARROWING OF THE CAP BEAM MAY STILL BE NECESSARY. WITH RESPECT TO MY ABOVE QUESTION #1 ABOUT THE CONNECTING DIAGONAL SEWERS, LESLEY AGREES THAT PUC INSISTING ON A 45 INCH INNER HDPR PIPE FOR THE PARALLEL BRANCH WHEN THE TWO CONNECTING DIAGONAL BRANCHES ARE 36 INCH RCP DOES NOT MAKE MUCH SENSE.

PUC agreed to accept an HDPE pipe between 42" to 48" pipe. A 45" pipe is not mandated and a 3" sand annulus was not specified. The PUC criteria was simply that there would be enough sand for the HPPE pipe to be removed at a future date. Given the above, a 48" RCP pipe work would work? Do you agree and can you update the detail?

-----Original Message-----

From: Fowler, Matthew E
Sent: Monday, September 24, 2012 5:43 PM
To: Benson, Mark
Cc: Wilson, Sarah H (SFMTA); Edwards, Ross; Funghi, John
Subject: RE: Retrieval Shaft Rev 4 - post meeting with PUC

DP1.16.50.C3

Mark,

Scope: Original scope was to install 65 l.f. of 3'x5' Fiberglass Pipe and a sheet pile wall. Potential change is to replace this work with 48" HDPE Pipe encased in 54" Welded Steel pipe (Excavate 75 l.f.).

ORIGINAL BID DOCUMENT SCOPE OF WORK

	Quantity	UoM	Material	Labor	Equipment	Unit Cost	Total
Excavation	210.65	c.y.	\$ -	\$ 16.79	\$ 8.72	\$ 25.50	\$ 5,372.00
Haul Away	210.65	c.y.	\$ -	\$ 8.80	\$ 10.09	\$ 18.89	\$ 3,979.20
3'x5' Fiberglass Pipe	65	l.f.	\$ 77.34	\$ 57.18	\$ 13.32	\$ 147.84	\$ 9,609.78
Shipping Cost from Poland	65	l.f.				\$ 184.60	\$ 11,999.00
CDF	174.537	c.y.	\$ 107.00	\$ 29.53	\$ 24.99	\$ 161.52	\$ 28,190.70
Sheet Pile Wall (15'h x 53'l)	795	s.f.	\$ 17.95	\$ 4.99	\$ 3.79	\$ 26.72	\$ 21,245.37
<i>Subtotal</i>							\$ 80,396.05
Subcontractor OH&P						10.00%	\$ 8,039.61
<i>Subtotal</i>							\$ 88,435.66
Subcontractor Bond/Insurance						2.14%	\$ 1,892.52
<i>Subtotal</i>							\$ 90,328.18
Contractor OH&P						5.00%	\$ 4,516.41
<i>Subtotal</i>							\$ 94,844.59
Contractor Bond/Insurance						1.68%	\$ 1,593.39
Total							\$ 96,437.98

PROPOSED CHANGE SCOPE OF WORK

	Quantity	UoM	Material	Labor	Equipment	Unit Cost	Total
Excavation	225.69	c.y.	\$ -	\$ 15.67	\$ 8.13	\$ 23.80	\$ 5,372.00
CDF	188.09	c.y.	\$ 107.00	\$ 29.36	\$ 24.85	\$ 161.20	\$ 30,320.00
Haul Away	225.69	c.y.	\$ -	\$ 8.21	\$ 9.42	\$ 17.63	\$ 3,979.20
48" HDPE Pipe	65	l.f.	\$ 65.63	\$ 57.18	\$ 13.32	\$ 136.13	\$ 8,848.63
54" Welded Steel Pipe	65	l.f.	\$ 215.62	\$ 64.30	\$ 17.76	\$ 297.68	\$ 19,349.22
Sand Fill	7.358	c.y.	\$ 23.00	\$ 28.70	\$ 34.68	\$ 86.38	\$ 635.59
Temporary Sheet Pile Wall (15'h x 53'l)	795	s.f.	\$ 6.10	\$ 8.46	\$ 7.58	\$ 22.14	\$ 17,598.78
<i>Subtotal</i>							\$ 86,103.42
Subcontractor OH&P						10.00%	\$ 8,610.34
<i>Subtotal</i>							\$ 94,713.76
Subcontractor Bond/Insurance						2.14%	\$ 2,026.87
<i>Subtotal</i>							\$ 96,740.64
Contractor OH&P						5.00%	\$ 4,837.03
<i>Subtotal</i>							\$ 101,577.67
Contractor Bond/Insurance						1.68%	\$ 1,706.50
Total							\$ 103,284.18

ORIGINAL BID DOCUMENT SCOPE OF WORK	\$ 96,437.98
PROPOSED CHANGE SCOPE OF WORK	\$ 103,284.18
ADDITIONAL COST DUE TO CHANGE	\$ 6,846.20



Hill International

B.2

PCC

10/3/2012

		Hourly rates:																		
		\$ 52.80	\$ 71.21	\$ 57.92	\$ 92.86	\$ 60.05	\$ 75.06	\$ 0.00	\$ 33.12	\$ 72.16	\$ 42.26	\$ 66.43	\$ 273.07	\$ 103.36	\$ 142.51	\$ 19.63	\$ 89.34			
No.	Activity	Days	Laborer	OE (G3)	Driver	Plumber (Pipe Fitter)	Cement Mason	Pile Driver	Labor totals	Foreman Truck	Backhoe	Breaker Attachment	3-Axel Truck	Vibratory Hammer	40 Ton Crane	Excavator	Sawcutter	Concrete Pump	Equipment Totals	
Original Bid Document Scope of Work																				
1	Excavation	2.5	2	1					3536.20		1						1		1,835.80	
2	Haul Away	2			2				1853.44				2							2,125.76
3	3' x 5' Fiberglass Pipe	1.5	1	1	2				3716.76		1									865.92
4	CDF	3.5	1	1			1		5153.68				1						1	4,361.56
5	Sheet Pile Wall (15'h x 53'l)	1	1	2				4	3963.68					1	1					3,011.44
6																				
7	Total								\$ 18,223.76											\$ 12,200.48

Shift Duration: 8hrs

		Hourly rates:																			
		\$ 52.80	\$ 71.21	\$ 57.92	\$ 92.86	\$ 68.60	\$ 75.06	\$ 60.05	\$ 273.07	\$ 72.16	\$ 103.36	\$ 66.43	\$ 63.79	\$ 8.82	\$ 142.51	\$ 19.63	\$ 89.34				
No.	Activity	Days	Laborer	OE (G3)	Driver	Plumber (Pipe Fitter)	Iron Worker	Pile Driver	Cement Mason	Labor totals	Vibratory Hammer	Backhoe	40 Ton Crane	3-Axel Truck	Mini Excavator	Compactor, Hand Guided	Excavator	Sawcutter	Concrete Pump	Equipment Totals	
Proposed Change Scope of Work																					
1	Excavation	2.5	2	1						3536.20		1						1		1,835.80	
2	CDF	3.75	1	1					1	5521.80				1					1	4,673.10	
3	Haul Away	2			2					1853.44				2							2,125.76
4	48" HDPE Pipe	1.5	1	1	2					3716.76		1									865.92
5	54" Welded Steel Pipe	2	1	1			2			4179.36		1									1,154.56
6	Sand Fill	0.5	1							211.20					1						255.16
7	Temporary Sheet Pile Wall	2	1	2				3		6726.40	1		1								6,022.88
8																					
9	Total									\$ 25,745.16											\$ 16,933.18

Shift Duration: 8hrs

PCC-04 Attachment C**Supplemental Specifications for Steel and HDPE Pipe prepared by K.Day SFDPW****1.3 SUBMITTALS**

- A. Submit full details of Contractor's proposed work for installing the steel casing and pipeline, including but not limited to method of maintaining annular space between casing and carrier pipe; shoring of approach trenches; spoil removal; and all other pertinent technical information.
- B. Submit work schedule describing construction activities, including staging and coordination.
- C. Certified report of HDPE for approval by Engineer in accordance with the requirements of Section 322 of the SDDPW Standard Specifications

PART 2 - PRODUCTS**2.1 MATERIALS****A. STEEL CASING :**

The casing shall be a minimum of 0.5 - inch plain straight cylinder steel pipe. Butt-welding shall be used to make field joints in the steel pipe casing. Steel casing pipe shall have minimum yield strength of 35,000 psi, and a minimum tensile strength of 60,000 psi.

B. CARRIER PIPE:

The carrier pipe shall be fused joint High Density Polyethylene Pipe (HDPE) Conforming to ASTM Standard D 3350 with an SDR of 17 as specified herein-- Sewerage Systems.

PART 3 - EXECUTION**3.1 PROCEDURES**

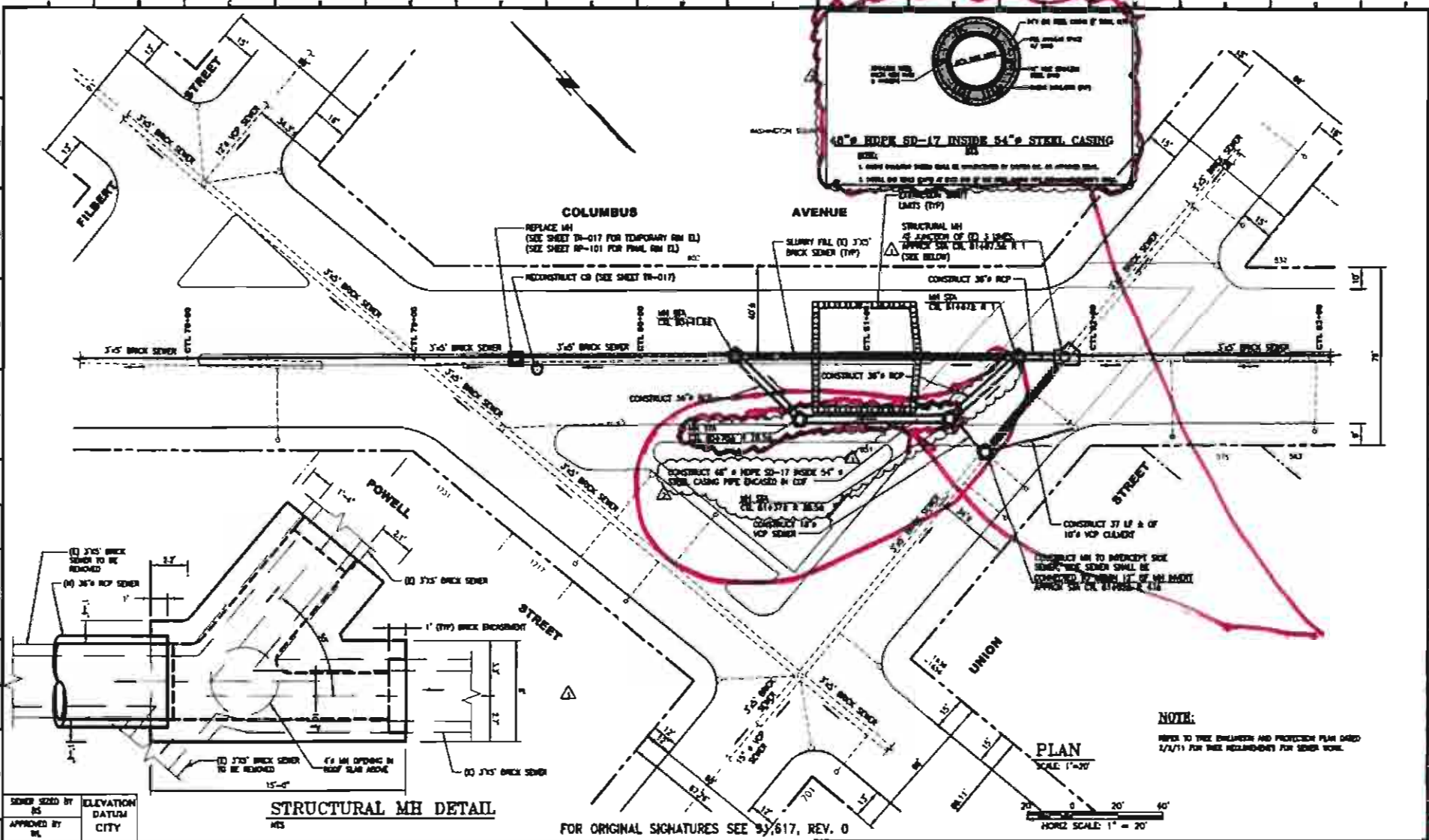
- A. The inner surface of the casing material shall not cause damage to the pipe when the carrier pipe is inserted into the casing. The rubbing surfaces may be lubricated, or the pipe may be overwrapped with a protective material to facilitate insertion within the casing. To lubricate the casing, rags load with lubricant can be pulled through the casing.
- B. When the pipe is pushed or pulled through the casing, care shall be taken to prevent damage to the pipe or joints. The pipe shall be pulled/pushed with a steady, non-jerky pressure. The maximum push force recommended by the

PCC-04 Attachment CSupplemental Specifications for Steel and HDPE Pipe prepared by K.Day SFDPW

manufacturer shall not be exceeded.

- C. Casing insulators: The carrier pipe shall not rest on the bell or coupling when placed or pushed in the casing. Casing insulators shall be used to create a clearance between the bells and the casing.
- D. Sand backfilling of the annular space around the HDPE pipe shall be placed by jetting Grouting shall be as specified per detail.
- E. The ends of the casing are to be suitably sealed against the entrance of foreign material, but are not to be tightly sealed.
- F. All surplus excavated materials shall be hauled away and disposed by the Contractor at his/her own expense.

END OF SECTION



SEWER SIZED BY BS
 APPROVED BY BL

ELEVATION DATUM CITY

STRUCTURAL MH DETAIL
 MTS

FOR ORIGINAL SIGNATURES SEE 93,617, REV. 0

NOTE:
 REFER TO THESE ENGINEER AND PROFESSION PLAN DATED 2/2/11 FOR THESE RECOMMENDATIONS FOR SEWER WORK.

PLAN
 SCALE 1" = 20'
 HORIZ SCALE 1" = 20'

NO.	DESCRIPTION	DATE	BY	CHKD.
1	REVISED FOR THE SEWER FROM THE TO THE 3" CHANG	02/01/11	BL	BL
2	REVISED FOR THE SEWER FROM THE TO THE 3" CHANG	02/01/11	BL	BL
3	REVISED FOR THE SEWER FROM THE TO THE 3" CHANG	02/01/11	BL	BL
4	REVISED FOR THE SEWER FROM THE TO THE 3" CHANG	02/01/11	BL	BL

REFERENCE INFORMATION & ALL NO. OF SHEETS
BE-002A_PC-013
BE-002A_PC-040
BE-010B_PC-012
BE-010B_PC-019

BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

REV. 0
 SEALED BY
 L. WONG

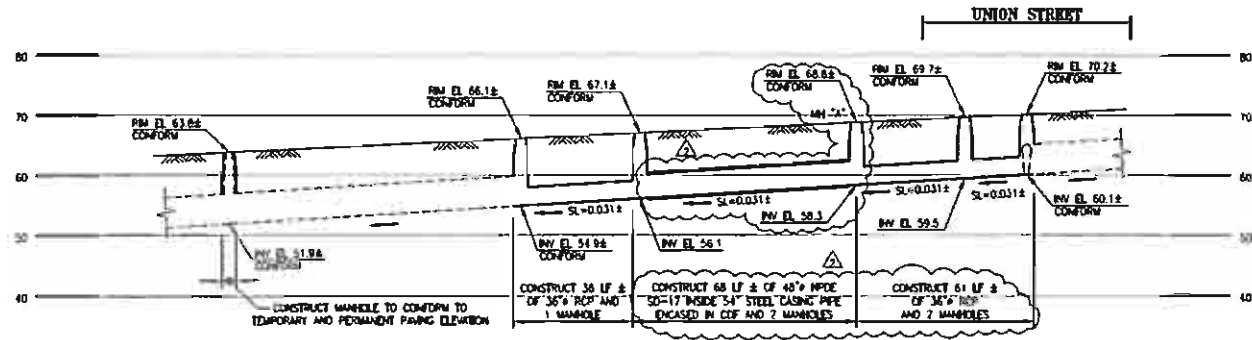
APPROVED	DATE	SCALE
L. WONG	02/01/11	AS NOTED
APPROVED	2/14/11	
APPROVED	2/14/11	
APPROVED	2/14/11	
APPROVED	2/14/11	

NO. OF SHEETS
1

THIRD STREET LIGHT RAIL PROGRAM
 PHASE 2 - CENTRAL SUBWAY
TUNNELS
 SEWER WORK - COLUMBUS AVENUE
 FILBERT STREET TO UNION STREET
PLAN

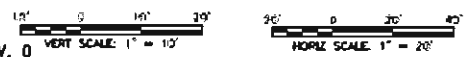
CONTRACT NO.	1252
SHEET NO.	SW-3
FILE NO.	91,617
REV. NO.	2

Attachment D.1



PROFILE "A" (SEE SW-3 FOR PLAN VIEW)
 SCALE: HORIZ 1"=20'
 VERT 1"=10'

SEWER SIZED BY BS	ELEVATION DATUM
APPROVED BY ML	CITY



FOR ORIGINAL SIGNATURES SEE 91,618, REV. 0

NO.	DATE	DESCRIPTION	BY	APP
1	10/25/11	REC. AND CHANGE FROM PIP TO PIPE & 3 CASING	SD	LD
2	01/21/11	GRADED FOR REC.	SD	LD

DATE OF REVISIONS
 CHECK WITH TRACKING TO SEE IF YOU HAVE LATEST REVISION

REFERENCE INFORMATION & FILE NO. OF SURVEYS

BUREAU OF ENGINEERING
 DEPARTMENT OF PUBLIC WORKS
 CITY AND COUNTY OF SAN FRANCISCO

REV. 0
 SEALED BY
 L. WONG

DESIGNED	DATE	APPROVED	SCALE
E. DAY	01/20/11	LD Wong	2 1/4" = 1'
CHECKED	DATE	DESIGN MANAGER	DATE
V. CHEN	02/20/11	LD Wong	10/25/11
CHECKED	DATE	DEPUTY MANAGER	DATE
L. WONG	02/20/11	LD Wong	02/21/11
		SEWER MANAGER	DATE

AS NOTED

THIRD STREET LIGHT RAIL PROGRAM
 PHASE 2 - CENTRAL SUBWAY
TUNNELS

SEWER WORK - COLUMBUS AVENUE
 FILBERT STREET TO UNION STREET
 PROFILE

CONTRACT NO. 1252
DRAWING NO. SW-1.3.1
FILE NO. 91,618
REV. NO. 1

D.2

PROPOSED CONTRACT CHANGE

Contract No. 1252 Tunnels
PCC No. 1252-05
PCC Title Water Distribution Pipe Change at Retrieval Shaft

Date 10/08/2012

Description of PCC:	
<u>Summary of Changes:</u> 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..	
Spec Ref.	CN 1252 Tunnels – Water Distribution Utilities (33 11 00)
Drawing Nos.	CN 1252 WD-701 (attached)
The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 88.B within 14 days after receipt of a PCC.	

Recommended by: 
Sarah Wilson, Resident Engineer
SFMTA Representative

Date 10/8/12

Concur in Principle: _____
Name, Contract Administrator
SFMTA Representative

Date _____

Scope: Change material from 20" & 30" Welded Steel pipe to 20" & 30" DI pipe. Add 6" concrete cap over 20" pipe.

ORIGINAL BID DOCUMENT SCOPE OF WORK

	Quantity	UoM	Material	Labor	Equipment	Unit Cost	Total
Excavation	231.94	c.y.	\$ -	\$ 12.20	\$ 6.33	\$ 18.53	\$ 4,297.60
Backfill - Import Fill	194.00	c.y.	\$ 15.00	\$ 14.58	\$ 6.68	\$ 36.26	\$ 7,034.60
Haul Away	231.94	c.y.	\$ -	\$ 7.99	\$ 9.17	\$ 17.16	\$ 3,979.20
Crushed Stone	23.19	c.y.	\$ 15.00	\$ 18.21	\$ 24.89	\$ 58.10	\$ 1,347.59
Install 20" Welded Steel Pipe	188.00	l.f.	\$ 185.83	\$ 54.67	\$ 17.91	\$ 258.41	\$ 48,580.44
Install 30" Welded Steel Pipe	125.00	l.f.	\$ 313.33	\$ 57.55	\$ 18.86	\$ 389.74	\$ 48,717.33
<i>Subtotal</i>							\$ 113,956.76
Contractor OH&P						10.00%	\$ 11,395.68
<i>Subtotal</i>							\$ 125,352.43
Subcontractor Bond/Insurance						2.14%	\$ 2,682.54
Total							\$ 128,034.97

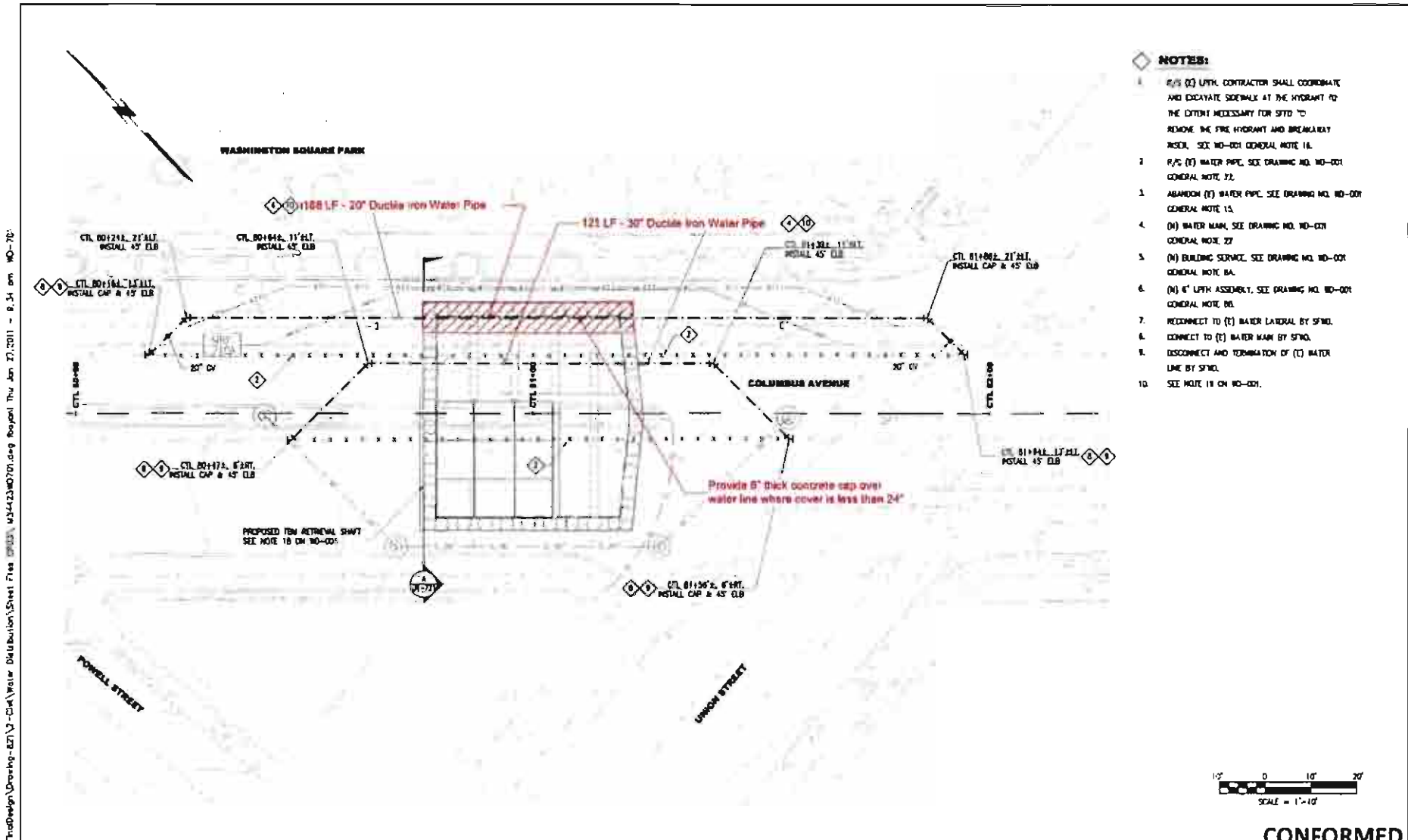
PROPOSED CHANGE SCOPE OF WORK

	Quantity	UoM	Material	Labor	Equipment	Unit Cost	Total
Excavation	231.937	c.y.	\$ -	\$ 12.20	\$ 6.33	\$ 18.53	\$ 4,297.60
Backfill - Import Fill	194.00	c.y.	\$ 15.00	\$ 14.58	\$ 6.68	\$ 36.26	\$ 7,034.60
Haul Away	231.94	c.y.	\$ -	\$ 7.99	\$ 9.17	\$ 17.16	\$ 3,979.20
Crushed Stone	23.19	c.y.	\$ 15.00	\$ 18.21	\$ 24.89	\$ 58.10	\$ 1,347.59
Install 20" DI Pipe	188.00	l.f.	\$ 42.50	\$ 54.67	\$ 15.35	\$ 112.52	\$ 21,153.60
Install 30" DI Pipe	125.00	l.f.	\$ 52.05	\$ 57.55	\$ 16.16	\$ 125.77	\$ 15,720.77
6" Thick Concrete Cap - incl reinf.	18.43	c.y.	\$ 175.00	\$ 109.69	\$ 61.87	\$ 346.56	\$ 6,386.17
<i>Subtotal</i>							\$ 59,919.53
Contractor OH&P						10.00%	\$ 5,991.95
<i>Subtotal</i>							\$ 65,911.48
Subcontractor Bond/Insurance						2.14%	\$ 1,410.51
Total							\$ 67,321.99

ORIGINAL BID DOCUMENT SCOPE OF WORK	\$ 128,034.97
PROPOSED CHANGE SCOPE OF WORK	\$ 67,321.99
ADDITIONAL COST DUE TO CHANGE	\$ (60,712.99)

Source:	Note: Initial estimate of concrete slab
From: Dombrowski, Charles	length increased 3X to cover slab
Sent: Tuesday, October 02, 2012 11:56 AM	required beyond limits of shaft where
To: Fowler, Matthew E	cover is likely also below min. required
Cc: Barnhart, Kenneth J; Wilson, Sarah H (SFMTA); Benson, Mark	by 5FWD. MEF 10/2/12
Subject: RE: PCC for change in Water Distribution Lines at Retrieval Shaft	

		Hourly rates							Hourly rates									
		\$ 52.80	\$ 71.21	\$ 57.92	\$ 92.86	\$ 60.05	\$ 68.60	\$ 0.00	\$ 33.12	\$ 72.16	\$ 42.26	\$ 66.43	\$ 63.79	\$ 8.82	\$ 142.51	\$ 19.63	\$ 12.02	
No. Activity	Days	Laborer	OE (G3)	Driver	Plumber (Pipe Fitter)	Cement Mason	Iron Worker	Labor totals	Foreman Truck	Backhoe	Breaker Attachment	3-Axel Truck	Mini Excavator	Compactor, Hand Guided	Excavator	Sawcutter	Welder	Equipment Totals
Original Bid Document Scope of Work																		
1	Excavation	2	2	1				2,828.96		1						1		1,468.64
2	Backfill	2	2	1				2,828.96		1				1				1,295.68
3	Haul Away	2		2				1,853.44				2						2,125.76
4	Crushed Stone	1	1					422.40		1								577.28
5	Install 20" Welded Steel Pipe	5		1	2			10,277.20		1							1	3,367.20
6	Install 30" Welded Steel Pipe	3.5		1	2			7,194.04		1							1	2,357.04
7																		
8	Total							\$ 25,405.00										\$ 11,191.60
Shift Duration 8hrs																		
Proposed Change Scope of Work																		
1	Excavation	2	2	1				2,828.96		1						1		1,468.64
2	Backfill	2	2	1				2,828.96		1				1				1,295.68
3	Haul Away	2		2				1,853.44				2						2,125.76
4	Crushed Stone	1	1					422.40		1								577.28
5	Install 20" DI Pipe	5		1	2			10,277.20		1								2,886.40
6	Install 30" DI Pipe	3.5		1	2			7,194.04		1								2,020.48
7	6" Thick Concrete Cap	1	1	1		1	1	2,021.28							1			1,140.08
8																		
9	Total							\$ 27,426.28										\$ 11,514.32
Shift Duration 8hrs																		



- NOTES:**
1. R/S (C) UPH CONTRACTOR SHALL COORDINATE AND EXCAVATE SIDEWALK AT THE HYDRANT TO THE EXTENT NECESSARY FOR STD TO REMOVE THE FIRE HYDRANT AND BREAKAWAY RISER. SEE WD-001 GENERAL NOTE 16.
 2. R/S (F) WATER PIPE, SEE DRAWING NO. WD-001 GENERAL NOTE 32.
 3. ABANDON (F) WATER PIPE, SEE DRAWING NO. WD-001 GENERAL NOTE 15.
 4. (N) WATER MAIN, SEE DRAWING NO. WD-001 GENERAL NOTE 27.
 5. (N) BUILDING SERVICE, SEE DRAWING NO. WD-001 GENERAL NOTE 8A.
 6. (N) 6" UPH ASSEMBLY, SEE DRAWING NO. WD-001 GENERAL NOTE 8B.
 7. RECONNECT TO (F) WATER LATERAL BY STD.
 8. CONNECT TO (F) WATER MAIN BY STD.
 9. DISCONNECT AND TERMINATION OF (F) WATER LINE BY STD.
 10. SEE NOTE 18 ON WD-001.

I:\projects\03\y6544\1\ProdDesign\Drawing\2713-Cut\Water Distribution\Sheet Files\03033_034423\WD701.dwg (Project) Thu Jan 27, 2011 - 9:54 am WD-701

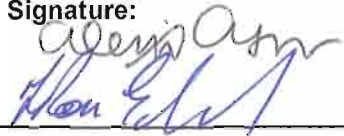
CONFORMED

<p>TELAMON ENGINEERING CONSULTANTS INC.</p>	<p>CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY</p>	<p>DEPARTMENT OF PUBLIC WORKS</p>	THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS	1252 CL-18065
			WATER DISTRIBUTION TBM RETRIEVAL SHAFT CTL 80+00 TO 82+25	WD-701 1 of 6 0

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>built schedule is. The CMB recommend the CMod be revised to add some cost for Equipment Standby which the Contractor is entitled to. Also to write and overview of modification history in the supplemental analysis. The RE will need to do an evaluation of what he believes the equipment cost value is. This item will be brought back to the CMB for review of contents to be presented to the SFMTA Board of Directors for approval. <i>08/08 Status: A revised CMod #20 was presented to include the Contractor's Mobilization and Equipment Standby Costs (part 3 of 4). The RE presented an equipment standby cost summary analysis demonstrating that during a 3 month period the Contractor had two pieces of equipment on standby indicating an equipment usage slowdown of 65 work days due to the Archeological discovery. The CMB took exception to two line items in the summary requesting that the cost for the standby time for the "Foreman and Service Truck" equipment be eliminated from the cost summary. In addition the cost for the Additional Extended Overhead Costs (part 4 of 4) will be finalized after the RE meets with the Contractor next week. This item will be brought back to the next CMB for approval.</i></p>	
<p>2-07/25/12</p>	<p>1251– M. Benson and Mike Acosta presented for discussion and concurrence to proceed. The Folsom Street Bypass – Negative Feed Trend #67. This contract change is for the installation of additional MUNI OCS facilities. Contract 1252 construction drawings required the existing OCS on 4th Street be taken down therefore there is not enough capacity to power the new OCS, requiring additional OCS infrastructure negative feeder using (GRS) conduit, riser conduits and pole bands. A special traffic signal pole with a mass arm needs to be purchased, which is being tracked by a separate trend. The CMB requested all remaining CN1251 potential trends be lump together as one CMod. This item will be brought back to the CMB for review to be brought to the SFMTA Board of Directors for approval. <i>08/08 Status: This item was not on this week's agenda therefore was not discussed.</i></p>	<p>MB 08/15/12</p>
<p>3-07/25/12</p>	<p>1252 – M. Benson and Sarah Wilson presented MOS Traffic Signal re-route cost proposal for re-routing the traffic signal cable for review (Trend #15). This work will require a new trench to be excavated south of the south headwall limits and new conduits and traffic cables will be installed in the new trench. This cost change will give authorization to the Contractor as a "Do Not Exceed Value" of \$40K. The CMB requested the PCC look into the hourly rate/daily rate for the triton barrier also to find out what the 1.5% payroll tax item is (what are we paying for)? This COR will be brought back to the next CMB meeting as a contract modification for approval. <i>08/01 Status: The RE gave a status update to Trend #15, reporting the potential change order now may include standby time associated with this change. A revised CMod will be develop to include cost for potential standby time and brought back to the CMB for review. 08/08 Status: This item was not on this week's agenda therefore it was not discussed.</i></p>	<p>MB 08/15/12</p>
<p>1-</p>	<p>1253 – R. Edwards and A. Ayres presented CCOP X53-004 - UMS Procurement Duration Change. This revision shortens the duration from Award to NTP from 40 days to 24 days. Activities requiring procurement are approve/execute/certify the UMS Contract. A revised CCOP will be brought back to the CMB for approval which further changes the schedule durations in addendum number six - 1) Changing the bid opening date to August 23rd, 2) shortening the restriction of when the Contractor can start interface on Stockton St. from 820 to 806 days; 3) increasing the quantity of when the Contractor can have access through tunnels interface from 1123 to 1167 days; and 4) duration of when the Contractor must provide the invert to the STS Contractor from 1199 to 1248 days. The CMB requested the Advertise Date Study be updated to reflect the changes made to the UMS Procurement Duration.</p>	<p>RE 08/15/12</p>
<p>2-</p>	<p>1255 – R. Edwards and Alexis Ayres presented CCOP X55-004 – MOS Advertise Date to August 20, 2012 which changes the bid review time from 20 to 30 days to account for the holiday, and to avoid administration conflicts with issuing two stations (CTS and MOS) close to the same dates. The Advertise Date Study will be update to reflect the</p>	<p>RE 08/15/12</p>

Cost/Schedule Change Proposal - Other – Form PCP 02-1
(Cost/Schedule changes that are not associated with a design or construction change.)

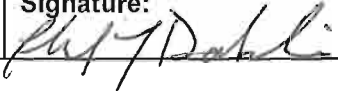
STEP 1

Title: Change UMS Procurement Duration Change		CCOP #: X53-004
Submitted By: Ross Edwards and Alexis Ayres Contract #: CS-156 Task #: 1.3.3 Task Name: Manage Schedules	Date: 08/10/12	Signature: 

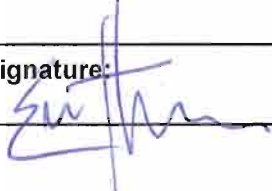
STEP 2

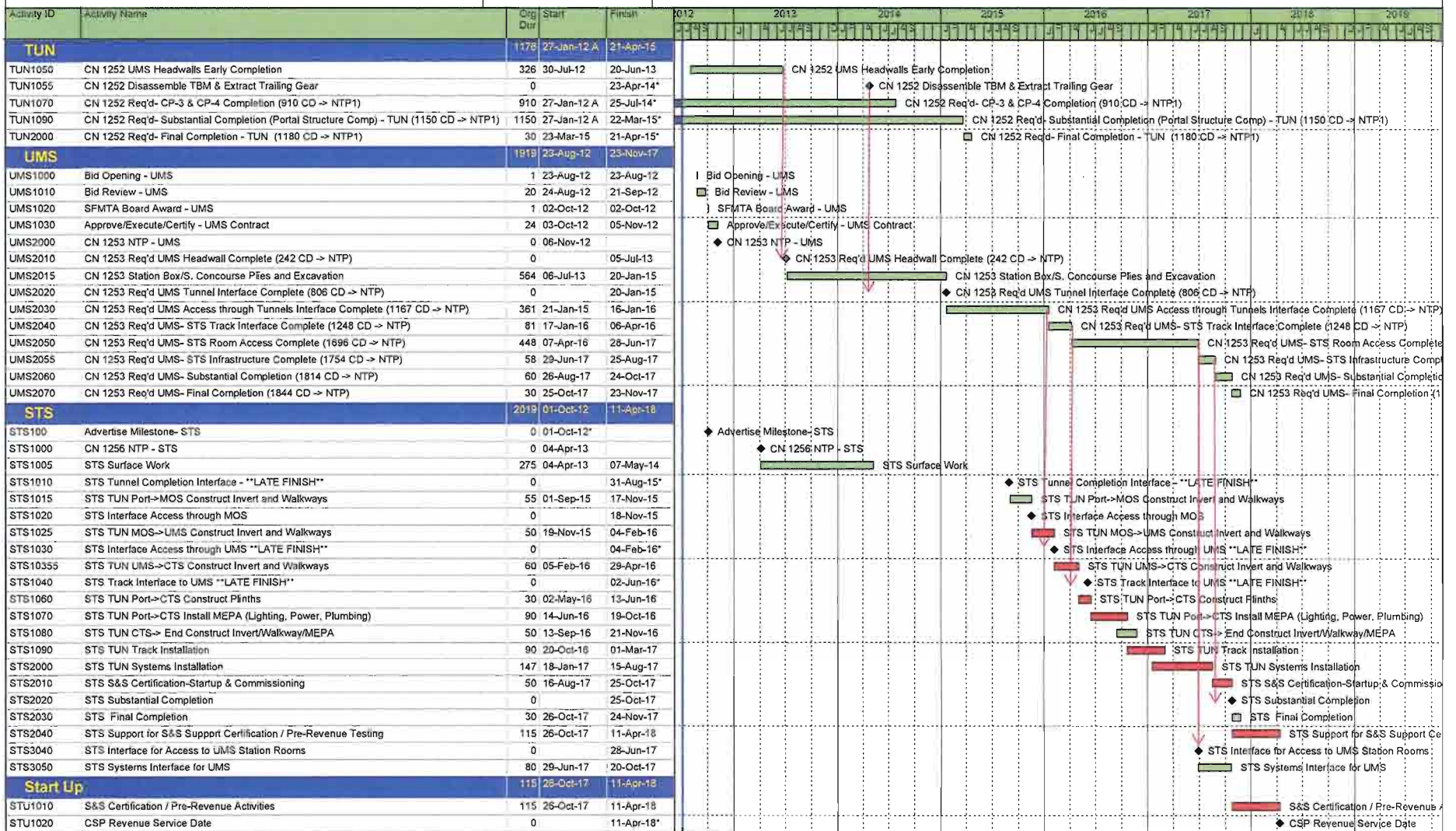
Construction Schedule Impact (if any):	NTP 06-Nov-12 Contract Milestone were changed to reflect an NTP date of 06-Nov-12
*Design Schedule Impact (if any):	N/A
Construction Cost Impact (if any):	N/A
*Design Cost Impact (if any):	N/A
Description of Change: Shortened the duration for Approve/Execute/Certify - UMS Contract from 40 to 24 days	
Reason and Justification for Change: Recognizing the critical path nature of this contract the typical duration from Award to NTP has been shortened to 24 days to reflect an optimistic but doable duration for contractor submittals. The Program will also focus on preparing necessary materials to meet this duration.	
Reference Documents: 08_07_12 What If UMS Interface Chart and 08_09_12 Procurement_Advertise Dates Study	

STEP 3

Reviewed By Project Controls Manager (Acting): Charles Dombrowski	Date: 08/10/12	Signature: 
Comments:		
Reviewed for Completeness – Meets Criteria: Yes <input type="checkbox"/> No <input type="checkbox"/>		

STEP 4

Reviewed By Program Manager Project Services: Eric Stassevitch	Date: 10 Aug 12	Signature: 
Comments: Approved at 8 Aug 12 CMB changes incorporated.		
Change Approved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Change to be forwarded to CMB: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		



Document:		June 2012 MPS Advertise Dates	Float with Buffer	Float without Buffer	Trial 1	Float with Buffer	Float without Buffer
Date:		31-Jan-12					
CTS Station CP-1254							
XX-DP2C680	Complete Pre-Final (90%) Design - CTS	14-Oct-11			14-Oct-11		
XX-DP2C480	Complete Final (100%) Design - CTS	14-Dec-11			14-Dec-11		
FDS1930	Advertise - CTS Milestone	27-Feb-12A			27-Feb-12A		
FDS2030	Bid Opening - CTS Milestone	12-Jun-12A			12-Jun-12A		
FDS2170	Advertise for ReBid Milestone- CTS	NA			13-Aug-12	TF=106	TF=86
FSD2200	ReBid Opening - CTS	NA			12-Sep-12		
FSD2190	ReBid Review - CTS	NA			10-Oct-12		
FDS2040	SFMTA Board Award - CTS Milestone	17-Jul-12			16-Oct-12		
FDS1800	NTP - CTS	2-Oct-12	TF= 135	TF= 123	14-Nov-12	TF=104	TF=92
UMS Station CP-1253							
XX-DP2U610	Complete Pre-Final (90%) Design	21-Dec-11			21-Dec-11		
XX-DP2U510	Complete Final (100%) Design - UMS	11-Apr-12A			11-Apr-12A		
PJD2620	Advertise - UMS Milestone	16-Apr-12A			16-Apr-12A		
FDS1950	Bid Opening - UMS Milestone	15-Aug-12			23-Aug-12		
FDS1960	SFMTA Board Award - UMS Milestone	18-Sep-12			2-Oct-13		
FDS1700	NTP - UMS	14-Nov-12	TF= 3	TF= 0	6-Nov-12	TF=11	TF=6
MOS Station CP-1255							
XX-DP2M650	Complete Pre-Final (90%) Design - MOS	21-Dec-12			21-Dec-12		
XX-DP2M450	Complete Final (100%) Design - MOS	29-Jun-12 A			29-Jun-12 A		
PJD2630	Advertise - MOS Milestone	6-Aug-12	TF= 30	TF= 30	20-Aug-12	TF= 13	TF= 13
FDS2050	Bid Opening - MOS Milestone	26-Nov-12			6-Nov-12		
FDS2060	SFMTA Board Award - MOS Milestone	4-Dec-12			15-Jan-13		
FDS1600	NTP - MOS	5-Feb-13	TF= 39	TF= 39	14-Mar-13	TF= 13	TF= 13
STS CP-1256							
DP3S180	Complete Pre-Final (90%) Design- STS	13-Jan-12			13-Jan-12		
XX-DP3S220	Complete Final (100%) Design- STS	5-Sep-12			5-Sep-12		
FDS1940	Advertise - STS Milestone	13-Sep-12	TF= 407	TF= 280	1-Oct-12	TF=405	TF= 278
FDS2070	Bid Opening - STS Milestone	17-Dec-12			19-Dec-12		
FDS2080	SFMTA Board Award - STS Milestone	5-Feb-13			5-Feb-13		
FDS1892	NTP - STS	4-Apr-13	TF=404	TF= 273	4-Apr-13	TF=404	TF= 273

Assumes UMS Headwalls will be complete By July 6, 2013

Assumes modifications to UMS Schedule According to Addendum 6 to help out with intermediate milestones to STS

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>presented in the meeting. This item will be discussed at the next CMB meeting. <i>06/13:</i> Funding for \$240K is in process. Payroll records were obtained it was discovered that the Program is being billed overtime rates on a significant number of PCO shifts. The PCC will contact Operations to discuss the OT being billed and what was agreed to in the MOU and the reversal of these charges. This item will be brought back to the next CMB meeting. <i>06/20:</i> Still working on getting the budget transfer so current charges can be paid. There has been a reduction of PCO staff to two PCO's; one on O'Farrell and another on Market Street. This item will be brought to the next CMB meeting for a status update. <i>06/27:</i> The Project Controls Manager presented a Summary of Charges and reviewed the current approach to reversing charges and closing the index code. Direction provided to close index code as soon as possible to ensure no additional charges. The negative balance should be addressed through a budget revision, if required, after reversal of charges is completed. <i>07/11 Status:</i> <i>The index code remains open and charges are continuing to be billed to the code. The current charges to date are over \$400K. The analysis done by the PCC team revealed that 95% of the previous billing of the PCO cost incurred is from overtime rates being billed. Right now there are two PCO billings to the 1251 contract. In addition it was confirmed the SFMTA overhead rate is the correct burden rate for capital projects despite how the request was made and as previously reported to the CMB. E. Stassevitch will follow up with the PCC team to find out the status of the progress made in backing out the overtime charges.</i></p>	
<p>1- 06/06/12</p>	<p>The Configuration Manager presented the Programs Configuration Management Procedures, Rev 1 for review to identify the current Configuration Board Members or their designees; as listed in the Procedures and their current standing or relation to the Central Subway Project. A notification letter or email will be sent to SFMTA's Operations, Maintenance, Safety, and Security Managers of their responsibility as a Configuration Management Board Member. In addition the CMB Procedures will be revise to reflect the current SFMTA personnel who holds the position. <i>06/20:</i> This item was not discussed at this week's meeting. <i>07/11 Status:</i> <i>This item was not discussed at this week's meeting.</i></p>	<p>E. Stassevitch 07/25/12</p>
<p>3- 06/13/12</p>	<p>1255 – The Program's Scheduler presented for approval a revised Construction Schedule Advertise Milestone date for MOS for consideration. Currently the schedule for NTP of MOS is starting in mid-March with the change; NTP would be in mid-January. The date recommendation was agreed by the CMB to move the advertise milestone date for MOS from June 25 to July 16 for a total float of 63 days. Also a revision to the MOS schedule was shown which moves the UMS Bid Opening up by 20 days to July 25. The CMB agreed to this schedule change (see attached). The UMS change will be done through an addendum. In addition it was propose to change the advertise milestone of STS from July 27 to Oct 1, the CMB was not in agreement and requested this item be revisited at the next meeting where the pros/cons of this change can be evaluated in greater detail. <i>06/20:</i> R. Edwards addressed last week's STS proposed advertise milestone change issue of why the schedule should be pushed back: 1) Dialogue with Thales Engineering is still taking place, 2) STS design pieces not completed, 3) STS Div 1 items still in development. There were no final decisions made on this item; more discussion will need to take place. <i>07/11 Status:</i> <i>This item was not discussed at this week's meeting.</i></p>	
<p>4- 06/13/12</p>	<p>The CMB requested the PCC team provide an Interface Schedule for Construction Milestones for review. This item will be brought back to the next CMB meeting. <i>06/20:</i> A Milestone Interface Points schedule analysis was shown for information of the Tunnels and STS and their interface with UMS and CTS. MOS is still in review because it isn't working with STS current schedule, it will be put on hold until the STS schedule can be further developed. The CMB recommend the analysis be revised stripping out buffer float and then run analysis. In addition the CMB requested that there be a monthly review update of the milestone interface points.</p>	<p>E. Stassevitch 07/18/12</p>

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>Also the request was made to see the dates of the track schedule even if it doesn't work to see what can be done to resolve it. This item will be brought back to a future CMB meeting. 07/11 Status: <i>The PCC team presented for review the Important Interface Points analysis for the contract packages. The analysis showed the drivers in the schedule being the headwall activities, which is an unestablished milestone in the contract but are work activities that has to be completed before follow-on contract work can begin in earnest. Dates shown are valid and are reflecting the new bid schedule (see attached). Actual text still needs to be written in the Div1 specs for MOS and STS. The PCC will come back to the CMB next week validating the analysis actual construction days from NTP for headwalls to be completed is 219 days. In addition the CMB requested validation from the design lead that the language in the Div 1 specs precludes where the tunnel contractor can work during the 219 days the UMS contractor is performing the headwall work.</i></p>	
<p>1 06/20/12</p>	<p>1256 – A discussion of the Air Replenishment Systems for Tunnels took place. The (ARS) strategy issue was resolved between SFMTA and SFFD, and agreed to at CMB meeting # 71 held in March. The CMB requested an ECP be developed and presented at the next CMB meeting. 06/27: R. Edwards reviewed the details of ECP #35 and found the proposal acceptable. Due to lack of quorum for approval, this item will be brought back next week. 07/11 Status: <i>R. Edwards presented the Air Replenishment System for Tunnels - ECP FD036 for consideration. Air will be fed from the surface through the stations to (one) tunnel to air fill stations and cross passages. Discussions have taken place with the SFFD regarding the detail and development of the post preliminary design and they are in agreement. AGREE – CMB 0072</i></p>	
<p>2 06/20/12</p>	<p>1256 – C. Morganson presented for information exhibits for discussion of the 4th Street Sewers – Bryant to King to define what will be included in the ECP. Sewer replacement will include all new services connection & spares for future connections; locations will be identified by SFPUC. The base work agreement between SFPUC and SFMTA is to fix the crown and new service connection. Cost shared work will be: 1) force main which runs the extent of 4th St., 2) additional gravity lines from Bryant & Brannan. Cost sharing for PUC's request to relocate gravity sewer out from under the crossway is still in negotiation at a higher level. The CMB requested that clarification of the demarcation property line between public and private be indicated on the drawings. Future discussions with SFPUC, 1252 Contractor and Operations will take place to find out if there are constraints on 1256 work. In addition the CMB requested the PCC to make sure the interface points are documented on the Master Program Schedule. An ECP will be developed and brought back to the next CMB meeting. 06/27: R. Edwards reviewed the details of ECP #35 and found the proposal acceptable. Due to lack of quorum for approval, this item will be brought back next week. 07/11 Status: <i>The Program Manager for Project Development presented the Fourth Street Sewers ECP FD035 for consideration. The CMB took exception to the language in the ECP's Design Schedule Impact section "SFPUC Cost Shared Option". SFMTA's position regarding redesign or relocation work of SFPUC sewers at the request of the SFPUC is all incurred cost will be the sole responsibility of the SFPUC. The CMB directed the Designer to create drawings depicting the work as: 1) "Base Work", and 2) SFPUC "Optional Work" as a design/ build addition. The CMB directed the Designer to include in the ECP's summary, DPW's additional base cost work with DP3, as well as form B cost for all of the private utilities locations, and what schedule impact for the joint trench and the effect of the overall STS schedule. Additionally the demarcation line between public and private for the lateral has yet to be shown on the contract drawing. This ECP package will be re-written and brought back to the next CMB meeting.</i></p>	<p>R. Edwards 07/18/12</p>

Activity ID	Activity Name	Org Dur	Start	Finish	Total Float	2012												2013												2014												2015												2016												2017												2018																	
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
TUN																																																																																															
TUN9910	CN 1252 MOS Headwalls Complete Late Finish	353	27-Jan-12 A	21-Apr-15	0	CN 1252 MOS Headwalls Complete Late Finish																																																																																									
TUN1185	CN 1252 Requirement - CP-1 & CP-2 Completion (850 CD from NTP1)	850	27-Jan-12 A	26-May-14*	0	CN 1252 Requirement - CP-1 & CP-2 Completion (850 CD from NTP1)																																																																																									
TUN1265	CN 1252 Requirement- CP-3 & CP-4 Completion (910 CD from NTP1)	910	27-Jan-12 A	25-Jul-14*	0	CN 1252 Requirement- CP-3 & CP-4 Completion (910 CD from NTP1)																																																																																									
TUN9890	CN 1252 Requirement- Substantial Completion - Tunnels (1150 CD from NTP1)	1150	27-Jan-12 A	22-Mar-15*	0	CN 1252 Requirement- Substantial Completion - Tunnels (1150 CD from NTP1)																																																																																									
TUN9900	CN 1252 Requirement- CLOSEOUT COMPLETE - Tunnels (1180 CD from NTP1)	1180	27-Jan-12 A	21-Apr-15*	0	CN 1252 Requirement- CLOSEOUT COMPLETE - Tunnels (1180 CD from NTP1)																																																																																									
TUN9850	CN 1252 UMS Headwalls Complete	0		29-May-13	37	CN 1252 UMS Headwalls Complete																																																																																									
CTS																																																																																															
FDS2170	Advertise for ReBid Milestone- CTS	0	13-Aug-12		141	Advertise for ReBid Milestone- CTS																																																																																									
FDS2200	ReBid Opening - CTS	1	12-Sep-12	12-Sep-12	141	ReBid Opening - CTS																																																																																									
FDS2190	ReBid Review - CTS	20	13-Sep-12	10-Oct-12	141	ReBid Review - CTS																																																																																									
FDS1265	SFMTA Board Award - CTS	1	16-Oct-12	16-Oct-12	12	SFMTA Board Award - CTS																																																																																									
FDS1792	Approve/Execute/Certify - CTS Contract	20	17-Oct-12	13-Nov-12	144	Approve/Execute/Certify - CTS Contract																																																																																									
FDS1800	CN 1254 NTP - CTS	0	14-Nov-12		212	CN 1254 NTP - CTS																																																																																									
FDS2120	CN 1254 Requirement CTS Tunnel Interface Complete (649 CD from NTP)	649	14-Nov-12	24-Aug-14	218	CN 1254 Requirement CTS Tunnel Interface Complete (649 CD from NTP)																																																																																									
FDS2130	CN 1254 Requirement CTS- STS Track Interface Complete (1259 CD from NTP)	1259	14-Nov-12	25-Apr-16	212	CN 1254 Requirement CTS- STS Track Interface Complete (1259 CD from NTP)																																																																																									
FDS2220	CN 1254 Requirement CTS- Substantial Completion (1706 CD from NTP)	1706	14-Nov-12	16-Jul-17	311	CN 1254 Requirement CTS- Substantial Completion (1706 CD from NTP)																																																																																									
UMS																																																																																															
FDS1687	Bid Opening - UMS	1	15-Aug-12	15-Aug-12	12	Bid Opening - UMS																																																																																									
FDS1695	Bid Review - UMS	20	16-Aug-12	13-Sep-12	12	Bid Review - UMS																																																																																									
FDS1255	SFMTA Board Award - UMS	1	18-Sep-12	18-Sep-12	1	SFMTA Board Award - UMS																																																																																									
FDS1692	Approve/Execute/Certify - UMS Contract	24	19-Sep-12	22-Oct-12	14	Approve/Execute/Certify - UMS Contract																																																																																									
FDS1700	CN 1253 NTP - UMS	0	23-Oct-12		20	CN 1253 NTP - UMS																																																																																									
FDS2090	CN 1253 Requirement UMS Headwall Complete (219 CD from NTP)	219	23-Oct-12	29-May-13	37	CN 1253 Requirement UMS Headwall Complete (219 CD from NTP)																																																																																									
FDS2100	CN 1253 Requirement UMS Tunnel Interface Complete (820 CD from NTP)	820	23-Oct-12	20-Jan-15	52	CN 1253 Requirement UMS Tunnel Interface Complete (820 CD from NTP)																																																																																									
FDS2160	CN 1253 Requirement UMS Access through Tunnels Interface Complete (1100 CD from NTP)	1100	23-Oct-12	27-Oct-15	40	CN 1253 Requirement UMS Access through Tunnels Interface Complete (1100 CD from NTP)																																																																																									
FDS2110	CN 1253 Requirement UMS- STS Track Interface Complete (1176 CD from NTP)	1176	23-Oct-12	11-Jan-16	214	CN 1253 Requirement UMS- STS Track Interface Complete (1176 CD from NTP)																																																																																									
FDS2140	CN 1253 Requirement UMS- STS Room Access Complete (1670 CD from NTP)	1670	23-Oct-12	19-May-17	256	CN 1253 Requirement UMS- STS Room Access Complete (1670 CD from NTP)																																																																																									
FDS2150	CN 1253 Requirement UMS- Substantial Completion (1789 CD from NTP)	1789	23-Oct-12	15-Sep-17	250	CN 1253 Requirement UMS- Substantial Completion (1789 CD from NTP)																																																																																									
MOS																																																																																															
PJD2630	Advertise Milestone- MOS	0	20-Aug-12*		13	Advertise Milestone- MOS																																																																																									
FDS1587	Advertise/Prepare Bid - MOS	55	20-Aug-12	05-Nov-12	13	Advertise/Prepare Bid - MOS																																																																																									
FDS1240	Bid Opening - MOS	1	06-Nov-12	06-Nov-12	13	Bid Opening - MOS																																																																																									
FDS1290	Bid Review - MOS	30	07-Nov-12	20-Dec-12	13	Bid Review - MOS																																																																																									
FDS1245	SFMTA Board Award - MOS	1	15-Jan-13	15-Jan-13	0	SFMTA Board Award - MOS																																																																																									
FDS1592	Approve/Execute/Certify - MOS Contract	40	16-Jan-13	13-Mar-13	13	Approve/Execute/Certify - MOS Contract																																																																																									
FDS1600	CN 1255 NTP - MOS	0	14-Mar-13		19	CN 1255 NTP - MOS																																																																																									
N-MOS10110	MOS Tunnel Interface Finish MOS Head Walls	0		18-Jun-13	0	MOS Tunnel Interface Finish MOS Head Walls																																																																																									
N-MOS9910	MOS Tunnel Interface Finish Cross Passages	0		07-Aug-14	200	MOS Tunnel Interface Finish Cross Passages																																																																																									
N-MOS10190	MOS Access through tunnels Interface to STS	0		04-Dec-15	2	MOS Access through tunnels Interface to STS																																																																																									
N-MOS10120	MOS Track Interface to STS	0		22-Apr-16	112	MOS Track Interface to STS																																																																																									
N-MOS10130	MOS Interface for Access to Station Rooms for STS Contractor	0		29-Mar-17	307	MOS Interface for Access to Station Rooms for STS Contractor																																																																																									
MOS1500	CN 1255 Substantial Completion - MOS	0		25-Aug-17	271	CN 1255 Substantial Completion - MOS																																																																																									
STS																																																																																															
FDS1940	Advertise Milestone- STS	0	01-Oct-12*		323	Advertise Milestone- STS																																																																																									
FDS1892	CN 1256 NTP - STS	0	04-Apr-13		469	CN 1256 NTP - STS																																																																																									
STS9980	STS Tunnel Completion Interface	0		15-May-15	205	STS Tunnel Completion Interface																																																																																									
STS1480	STS Interface Access through MOS & UMS	0		04-Dec-15	2	STS Interface Access through MOS & UMS																																																																																									
STS9740	STS Track Interface to UMS	0		12-Jan-16	215	STS Track Interface to UMS																																																																																									
STS9720	STS Track Interface to MOS	0		25-Apr-16	110	STS Track Interface to MOS																																																																																									
STS9760	STS Track Interface to CTS	0		04-May-16	208	STS Track Interface to CTS																																																																																									
STS9770	STS Interface for Access to CTS Station Rooms	0		24-Feb-17	326	STS Interface for Access to CTS Station Rooms																																																																																									
STS9730	STS Interface for Access to MOS Station Rooms	0		29-Mar-17	307	STS Interface for Access to MOS Station Rooms																																																																																									
STS9750	STS Interface for Access to UMS Station Rooms	0		19-May-17	256	STS Interface for Access to UMS Station Rooms																																																																																									
STS1500	CN 1256 Substantial Completion - STS	0		09-Jan-18	0	CN 1256 Substantial Completion - STS																																																																																									
Milestones																																																																																															
STU1010	S&S Certification / Pre-Revenue Activities	115	10-Jan-18	22-Jun-18	0	S&S Certification / Pre-Revenue Activities																																																																																									
MS0009	CSP Revenue Service Date	0		25-Jun-18*	0	CSP Revenue Service Date																																																																																									

S&S Certification / Pre-Revenue Activities
CSP Revenue Service Date

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

Addendum No. 9

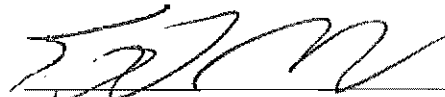
San Francisco Municipal Transportation Agency

Contract No. 1253

Third Street Light Rail Program Phase 2 – Union Square/Market Street Station

Dated: August 31, 2012

City & County of San Francisco
Municipal Transportation Agency



EDWARD D. REISKIN
Director of Transportation

Notice to Parties Holding Specifications:

The specifications of the contract named above are hereby amended as follows:

1.	INVITATION FOR PROPOSALS	
	<u>Pages</u>	<u>Changes</u>
	1	On page 1, DELETE "September 6, 2012" wherever it appears and REPLACE with "November 15, 2012".
2.	INFORMATION FOR BIDDERS	
	3a	ADD new Section I-6 following I-5. EXPERIENCES: "I-6. NOTIFICATION . During the bid extension to November 15, 2012, the SFMTA will be evaluating contract packaging."
3.	PROPOSAL	
	4	DESTROY the Proposal, page 4, in its entirety and REPLACE with the new Proposal (Revised 08/30/12) herewith attached.
4.	TECHNICAL SPECIFICATIONS	
	01 12 17-3	DELETE Article 1.03.G.1 in its entirety and REPLACE with the following: "1. Contractor shall not perform Work in the work area of Contract 1252 at Stockton and Ellis Streets while it is being used by Contract 1252 Contractor for compensation grouting work, headwall construction, and staging, and until the Contract 1252 contractor vacates those areas or as coordinated with Contract 1252. See Contract 1253 Drawing No's. ES-001 and ES-101, and Contract 1252 Drawing No's. ES-301, ES-302, and BP-122. Contractor shall schedule its Work based on the assumption that the headwalls installation by Contract 1252 Contractor will be completed 242 Days after NTP for this Contract 1253."
	01 12 17-4	DELETE Article 1.03.G.4 in its entirety and REPLACE with the following: "4. Contractor shall not perform any excavation work within one tunnel-diameter above the tunnel liner (see Drawing ES-001 for requirements)

			until tunnelling equipment has been removed from the station box at the Platform level area. Contractor shall schedule its Work based on the assumption that the tunneling equipment used by Contract 1252 Contractor will be removed 806 Days after NTP for this Contract 1253.”
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End of Addendum No. 9

Enclosure: PROPOSAL FORM

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>a revised adjustment summary sheet to update CSDG's incorporated impact comments, and adjusting the escalation to 7.5% YOY. Comments between the Program's Estimator and the Designer's Estimator have been reconciled. The Designer presented detail sheet 20.03 Civil and Structural which shows the direct quantity unit cost comparison between 65% and 90% of the major ES and ST items. CSDG will further develop the comparison sheet to include an impact column to demonstrate the real driver behind the significant increases. The CMB requested the PCC develop a spreadsheet showing a table of all 3 - Station contracts to demonstrate numbers are consistent for all major materials utilized in the stations. This item will be brought to the next CMB meeting. 05/23: An expanded 20.03 Civil and Structural detail sheet was presented adding an additional column showing the impact of all indirects and mark-ups. In addition columns were added for percentages for quantity and unit cost from the 65% to 90% estimate demonstrating the major differences between the two estimates is in the markup of indirects. The Program's Estimator prepared the table showing the unit cost for all three stations (see attached). This document was not presented at the meeting however, does not affect the outcome of the review of the MOS construction budget adjustment presentation. 06/06 Status: <i>This item was not included on this week's agenda therefore was not discussed.</i></p>	
1-	<p>The Configuration Manager presented the Programs Configuration Management Procedures, Rev 1 for review to identify the current Configuration Board Members or their designees; as listed in the Procedures and their current standing or relation to the Central Subway Project. Due to recent SFMTA organizational changes in personnel for CMB identified board members, a notification letter or email will be sent to SFMTA's Operations, Maintenance, Safety, and Security Managers of their responsibility as a Configuration Management Board Member. In addition the CMB Procedures will be revise to reflect the current SFMTA personnel who holds the position.</p>	<p>E. Stassevitch 06/27/12</p>

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
1	04/04/12	04/04/12	1256 – Evaluation of STS interface work	M. Berry	06/20/12	Open
1	05/02/12	05/02/12	1251 – CCOP for (PCO's) Freeze account, reverse charges back to Operations, establish reporting protocol to Sr. Mgmt.	M. Berry	06/13/12	Open
1	05/02/12	05/30/12	1251 – Update CCOP # X80-013	M. Berry	06/13/12	Open
1	06/06/12	06/06/12	Update CMB voting members in CMB Procedures	E. Stassevitch	06/27/12	Open

Meeting adjourned at 5:30PM

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:  [Date review completed]



Welcome to the *Transit Division*

The Transit Division provides safe, reliable, clean, accessible and convenient public transportation to any destination in San Francisco.

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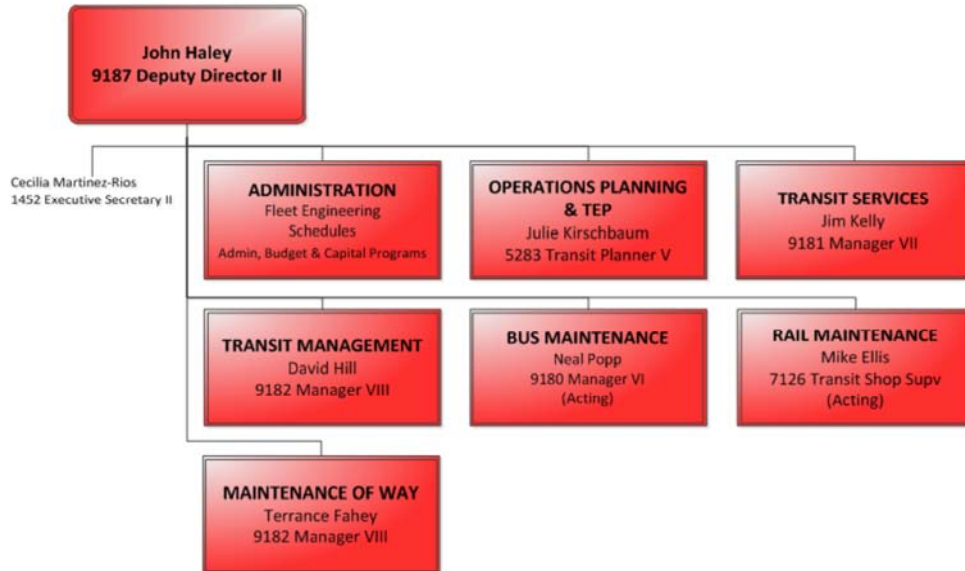
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John Haley, Director of Transit

Mr. Haley is a nationally recognized leader in the transportation industry with over 30 years of public and private sector experience. He joined the SFMTA from the Metropolitan Transit Authority of Harris County (METRO) in Houston, where he was the Vice-President of Infrastructure and Service Development. At METRO, Mr. Haley implemented new bus rapid transit and commuter rail services which significantly contributed to improved service reliability and ridership gains. He also directed internal accountability initiatives to improve operational efficiency and advanced Authority-wide plans to improve system safety.

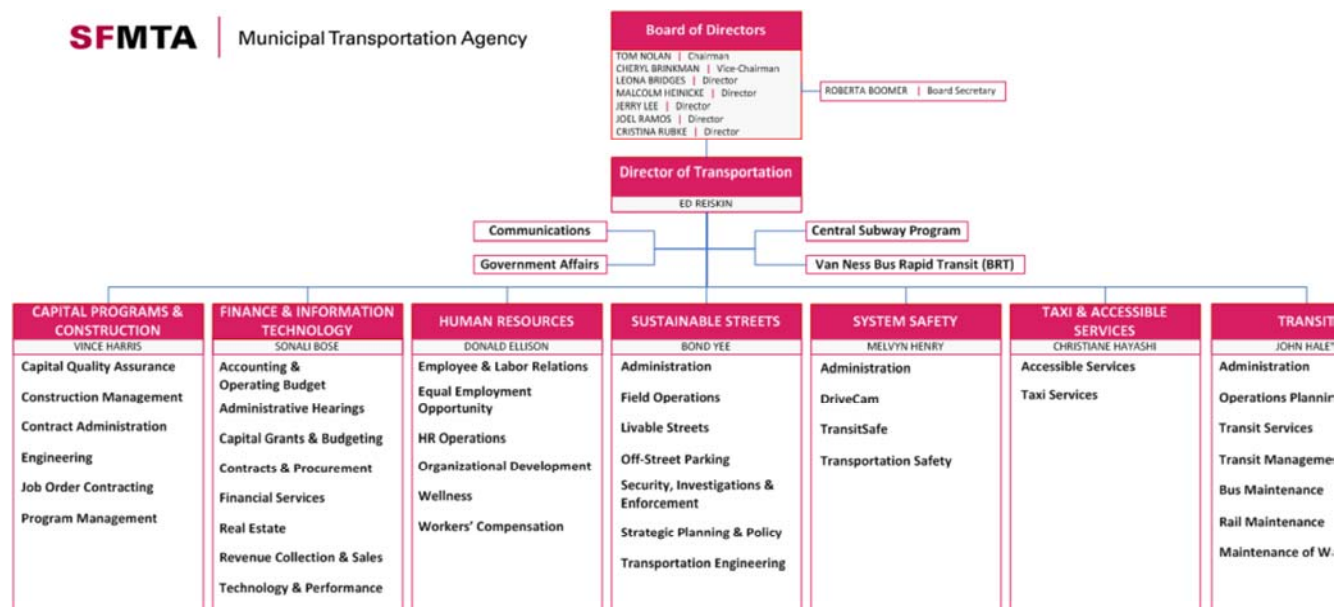
Prior to his work in Houston, Mr. Haley served as Deputy Executive Director of the Port Authority of New York and New Jersey, General Manager of the Massachusetts Bay Transportation Authority (MBTA), Deputy General Manager of the San Francisco Bay Area Rapid Transit District (BART) and as a strategic advisor to major transportation agencies nationwide. He has a Master of Public Administration from Syracuse University and a Bachelor of Science in Government from Northeastern University.



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ITEM #	DISCUSSION	ACTION BY DUE DATE
	concur with the completion date however; the start date of the delay remains to be in disagreement. The Resident Engineering performed a schedule analysis. Additionally time related overhead cost compensation to the Contractor for 47 calendar days based on the original contract option baseline and review of all the IDR's shows what the as built schedule is. The CMB recommend the CMod be revised to add some cost for Equipment Standby which the Contractor is entitled to. Also to write and overview of modification history in the supplemental analysis. The RE will need to do an evaluation of what he believes the equipment cost value is. This item will be brought back to the CMB for review to be brought to the SFMTA Board of Directors for approval.	
2-	1251– M. Benson and Mike Acosta presented for discussion and concurrence to proceed. The Folsom Street Bypass – Negative Feed Trend #67. This contract change is for the installation of additional MUNI OCS facilities. Contract 1252 construction drawings required the existing OCS on 4 th Street be taken down therefore there is not enough capacity to power the new OCS, requiring additional OCS infrastructure negative feeder using (GRS) conduit, riser conduits and pole bands. A special traffic signal pole with a mass arm needs to be purchased, which is being tracked by a separate trend. The CMB requested all remaining CN1251 proposed contract changes be lump together as one CMod. This item will be brought back to the CMB for review to be brought to the SFMTA Board of Directors for approval.	MB 08/01/12
3-	1252 – M. Benson and Sarah Wilson presented MOS Traffic Signal re-route cost proposal for re-routing the traffic signal cable for review. This work will require a new trench to be excavated south of the south headwall limits and new conduits and traffic cables will be installed in the new trench. This cost change will give authorization to the Contractor as a “Do Not Exceed Value” of \$40K. The CMB requested the PCC look into the hourly rate/daily rate for the triton barrier also find out what the 1.5% payroll tax item is (what are we paying for)? This COR will be brought back to the next CMB meeting as a contract modification for approval.	KB 08/01/12
4-	1252 – M. Benson and Sarah Wilson presented for information a photograph of a Slurry Wall Obstruction – concrete encased sewer line not shown on the drawings. The obstruction could result in a potential change from the Contractor The CMB recommend that a procedure be in place to handle this type of occurrence.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
1	04/04/12	04/04/12	1256 – Evaluation of STS interface work	E. Stassevitch	08/08/12	Open
1	05/02/12	05/02/12	1251 – CCOP for (PCO's) Freeze account, reverse charges back to Operations, establish reporting protocol to Sr. Mgmt.	E. Stassevitch	08/08/12	Open
1	05/02/12	05/30/12	1251 – Update CCOP # X80-013	M. Benson	08/08/12	Open
1	06/06/12	06/06/12	Configuration Management Procedures – update CMB voting members	E. Stassevitch	08/08/12	Open
1	05/02/12	07/11/12	1251 – Confirm backing out of PCO overtime charges	E. Stassevitch	08/01/12	Open
4	06/13/12	07/11/12	1253 – Verification Interface Schedule Headwall Completed (219 CD from NTP)	E. Stassevitch	08/08/12	Open
1	04/04/12	07/11/12	Contract Milestone Interfaces – STS Div 1 and UMS Addendum confirmation	R. Edwards	08/08/12	Open

County of San Francisco Assessor & Tax Collector

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As required by our [Payroll Expense Tax and Business Registration Ordinance](#) all businesses with a taxable San Francisco payroll expense greater than \$150,000 must file a [Payroll Expense Tax Statement](#) for their business annually by the last day of February for the prior calendar year (Jan. 1st - Dec. 31st). The Payroll Expense tax rate is 1.5% or .015. You calculate the Payroll Expense Tax by multiplying the business' annual San Francisco payroll expense by 1.5% or .015, the Payroll Expense Tax rate.

Proposition Q Information, Modifying the Payroll Expense Tax, is available [here](#).

As part of their filing, businesses must also renew their [Business Registration Certificate](#) for the next fiscal year (June 30th) if they plan to conduct business within the new fiscal year.

[Statute of Limitations for Tax Refunds](#)

COR 011

Scope: Relocation of the existing traffic signal conduits containing live traffic cables above the south headwall of the Moscone Station.

Material:

	QTY	Unit	Unit Cost	Total \$
2" PVC Sch. 80 Elbows	12	EA	7.93	95.16
2" PVC Sch. 80 Conduit	300	LF	1.55	465.00
#14 UF Cables	600	LF	0.15	90.00
#10 UF Cables	600	LF	0.18	108.00
Concrete for Sidewalk/Ramp	4	CY	133.35	533.40
Tactile Warning Strips	30	SF	19.82	594.60
Dump Fees	1	LS	300.00	300.00
Trench Backfill incl bedding	7	CY	15.75	110.83
Pvmnt Reno. Base/Wearing	190	SF	6.58	1,250.83
8.5% Sales Tax				301.57
Subtotal				\$ 3,849.39

Equipment:

	QTY	Unit	Unit Cost	Total \$
Mini Exc	8	hr	63.79	510.32
Concrete Saw Incl Blade	4	hr	106.23	424.92
Compactor, hand-guided	4	hr	8.82	35.28
Traffic Barrier (10ea)	48	hr	40.70	1,953.60
CMS Board	48	hr	9.92	476.16
Backhoe	6	hr	72.16	432.96
Breaker Attachement	2	hr	42.26	84.52
Dump Truck	24	hr	66.43	1,594.32
Foreman Truck	48	hr	33.12	1,589.76
Steel Plates (5ea)	48	hr	47.85	2,296.80
Subtotal				\$ 9,398.64

Labor:

	QTY	Unit	Unit Cost	Total \$
Foreman	48	hr	64.62	3,101.76
Laborer	48	hr	58.93	2,828.64
Laborer	48	hr	58.93	2,828.64
OE	14	hr	79.88	1,118.32
Driver	24	hr	43.63	1,047.12
Electrician	8	hr	106.44	851.52
→ 1.5% Payroll Tax				176.64
Subtotal				\$ 11,952.64

Sub-Work:

Phoenix Electric Quote*	1	LS	3384.73	3384.73
Subtotal				\$ 3,384.73

Summary:

Direct Cost	28,585.40
Overhead and Profit - 15%	4,287.81
Bond & Insurance - 2.14%	611.73
Synergy Subtotal	33,484.94
BIH Bond/Risk/Markup - 6.85%	2,293.72

Total \$ 35,778.66

Ken Barnhart, Project Engineer

*Still waiting on backup.