


## Memorandum

CS Memorandum No. 1429

**To:** Distribution

**From:** Beverly Ward, CMB/Risk Management Assistant 

**Date:** April 29, 2013

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

**Subject:** Configuration Management Board Special Meeting No. 124

---

Attached please find minutes for Configuration Management Board Special Meeting No. 124 held on April 26, 2013.

Attachments: CMB Special Meeting No. 124 Rev. 0 Minutes with attachments

**Cc:** David Kuehn, STV (w/attachments) [david.kuehn@stvinc.com](mailto:david.kuehn@stvinc.com)  
Brad Lebovitz, STV (w/attachments) [bradley.lebovitz@stvinc.com](mailto:bradley.lebovitz@stvinc.com)  
Luis Zurinaga, SFCTA (w/attachments) [luis.zurinaga@sfcta.org](mailto:luis.zurinaga@sfcta.org)  
Shahnam Farhangi, SFMTA (w/attachments)  
John Funghi, SFMTA (w/attachments)  
Richard Redmond, CSP (w/attachments)  
Arthur Wong, SFMTA (w/attachments)  
Roger Nguyen, SFMTA (w/attachments)  
Jane Wang, SFMTA (w/attachments)  
Aileen Read, CSDG (w/attachments)  
CS File No. M544.1.5.0890

---

**Distribution:**

Albert Hoe, SFMTA  
Eric Stassevitch, CSP  
Ross Edwards, CSP  
Mark Latch, CSP  
Joon Park, SFMTA  
Mark Benson, CSP  
Brian Kelleher, SFMTA  
Vivian Chow, SFMTA  
Sarah Wilson, CSP  
Beverly Ward, CSP

**CMB Meeting Minutes #124  
(Special Meeting)**

DATE: April 26, 2013

MEETING DATE: **April 26, 2013**

LOCATION: 821 Howard St, Main Conference Room

TIME: 9:00 AM

ATTENDEES: A. Hoe (AH), R Edwards (RE), E. Stassevitch (ES), M. Benson (MB), J. Park (JP), M. Latch (ML), B. Kelleher (BK), V. Chow (VC), S. Wilson (SW), B. Ward (BW)

COPIES TO: Attendees: S. Farhangi (SF), J Funghi (JF), R. Nguyen (RN), R. Redmond, (RR), A. Wong (AW), L. Zurinaga (LZ ), B. Lebovitz (BL), J. Wang (JW), 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 # 124 – Rev. No. 0

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

ITEM #	DISCUSSION	ACTION BY DUE DATE
1-	1252 – COR 079 Compensation Grout – Previously seen at CMB meeting #118 and #123 and agreed to for merit; required authorization to proceed due to the potential impact to the critical path of the tunnel schedule. A brief history of events related to the change was reviewed to determine what direction was required and what authorization amount was needed to avoid impact to the schedule. Originally submitted by the Contractor as a differing site condition, the summary judgment agreed to at the meeting was to direct the Contractor to proceed on force account to mobilize the proposed smaller equipment to begin work without delay for an amount not to exceed \$70,000. It was presented that the actual configuration of utilities found in the ground differed from that on the contract drawings such that the Contractor could not utilize equipment originally planned and mobilized to perform the work. Although agreed that the change is a result of Different Site Condition (DSC) affecting the Contractor's equipment usage from their original means & methods, questions remain about the overall cost impact but all agreed that the small rig would not have the same production rate as the larger drill rig originally planned. The cost of the change would involve quantifying this delta. The RE is also evaluating the Contractors request for standby costs which are in question due to not fully complying with the required potholing plan development. RE stated there is a plan being developed to negotiate standby cost separately due to potential for a large dispute about these cost, which have yet to be quantified. The CMB suggested that in negotiating the standby time the RE should address the lack of a potholing plan being laid out by the Contractor which could have avoided these issues. CMB agreed to process the DSC as a COR directing the	MB 05/01/13

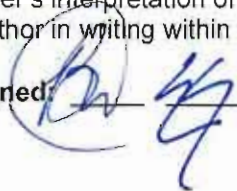
ITEM #	DISCUSSION	ACTION BY DUE DATE
	work through Force Account– Not to Exceed \$70K. <b>AGREE – CMB 0115.</b> The CMB requested a presentation of the DSC to address the timing of events and actual field condition vs. the contract documents for clarity. In addition the CM Team will provide a presentation of the estimated total impact costs. This item will be brought back to the next CMB.	

**ACTION ITEMS**

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
1	04/26/13	04/26/13	1252 – DSC presentation - field condition vs. the contract documents	MB	05/01/13	Open
1	04/26/13	04/26/13	1252 – DSC - estimate total cost impact	MB	05/01/13	Open

Meeting adjourned at 9:45am

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: 29 April 13 [Date review completed]

## Special Meeting Agenda

Project No. M544.1, Contract No. CS-149  
Program/Construction Management  
Configuration Management Board (CMB) Meeting No. 124  
April 26, 2013  
9:00am – 9:30am  
Central Subway Project Office  
821 Howard St. 2<sup>nd</sup> Floor  
Main Conference Room

**Attendees:**

Mark Benson	John Haley	Mark Latch	Eric Stassevitch
Vivian Chow	Albert Hoe	Brad Lebovitz	Beverly Ward
Ross Edwards	Brian Kelleher	Roger Nguyen	Sarah Wilson
Shahnam Farhangi	Jim Kelly	Joon Park	Arthur Wong
John Funghi	David Kuehn	Richard Redmond	Luis Zurinaga

1. **1252** – PCC 13 – Comp Grout – Old Navy - (previously presented as COR 079 - CMB mtg #118 & 123)

## Special Meeting Attendance Sheet

**Project No. M544.1, Contract No. 149**  
**Program/Construction Management**  
**Configuration Management Board Meeting No. 124**  
**April 26, 2013**  
**9:00 a.m. – 9:30 a.m.**  
 Central Subway Project Office  
 821 Howard, 2<sup>nd</sup> 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>
Chow, Vivian	SFMTA	(415) 701-5264	Vivian.chow@sfmta.com	<i>VC</i>
Edwards, Ross	CSP	(415) 701-5296	Ross.Edwards@sfmta.com	<i>RE</i>
Farhangi, Shahn timer	SFMTA	(415) 554-0721	Shahn timer.Farhangi@sfmta.com	
Funghi, John	SFMTA	(415) 701-4299	John.Funghi@sfmta.com	
Haley, John	SFMTA		John.Haley@sfmta.com	
Hoe, Albert	SFMTA	(415) 701-4289	Albert.Hoe@sfmta.com	
Kelleher, Brian	SFMTA	(415) 701-5289	Brian.Kelleher@sfmta.com	<i>BK</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>WDL</i>
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com	

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
Redmond, Richard	CSP	(415) 701-4288	Richard.Redmond@sfmta.com	
Stassevitch, Eric	CSP	(415) 701-4426	Eric.Stassevitch@sfmta.com	ES
Ward, Beverly	CSP	(415) 701-5291	Beverly.Ward@sfmta.com	BW
Wilson, Sarah	CSP	(415) 243-0950	Sarah.Wilson@sfmta.com	SHW
Wong, Arthur	SFMTA	(415) 701-4305	Arthur.Wong@sfmta.com	
Zurinaga, Luis	SFCTA	(415) 716-6956	Luis.zurinaga@sfcta.org	

CMB Change No.: CMB - 115

Initial Implementing Change Control Procedure No.: 1252 - PCC - 13

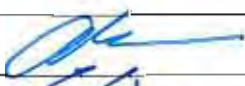

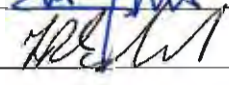
COE-79

GENERAL			
Proposed Change Sponsor:	R. Edwards	Received by CMB:	04/26/2013 (Date)
Affected Disciplines:	Building Protection		
Impacts of Change	Compensation Grouting -- Old Navy		
	Proposed Contract Change (PCC 13) Amount Not To Exceed \$70,000		

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input checked="" 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		Date
	Agree with the Change	Disagree with the Change	
Senior Program Manager:			
Deputy Program Manager:			4/26/2013
PM Project Services:			26 Apr 13
PM Project Development/Delivery:			4/26/2013
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			

### Comments

Agreed to proceed on Force Account Basis - NTE \$70,000  
 Change is result of differing site condition - effecting Contractors  
 ORIGINAL MEANS/METHODS (Equipment) RATHER THAN PCC (change  
 in scope) CMB AGREED TO PROCESS AS COR - DIRECTING WORK  
 THRU FORCE ACCOUNT UNTIL LUMP SUM CHANGE IS AGREED TO.  
 STANDBY COSTS ARE ANTICIPATED TO BE DISPUTED COSTS - MAY  
 BE ADDRESSED IN SEPERATE PROCESS. CM TEAM TO PREPARE  
 PRESENTATION OF differing site condition to address timing of events  
 and actual conditions VS Contract Documents - For Clarity  
 Also presentation of estimated total impact costs.


**DSC FINDING OF FACT**

DIFFERING SITE CONDITIONS – REFERENCE APPROPRIATE SPECIFICATIONS IN CONTRACT GENERAL PROVISIONS AND SPECIAL PROVISIONS

1. REPORTED DATE OF OCCURRENCE 3/5/13
2. DATE OF CONTRACTOR'S WRITTEN NOTICE BIHJV Letter No. 098 Dated 3/7/13
3. TYPE OF WORK CONTRACTOR WAS PERFORMING Excavation for compensation grouting
4. NATURE OF OBSTRUCTION  
Abandoned clay duct banks, steel conduits and 12" PG&E gas main. Abandoned utilities are in conflict with drilling operations for grout pipe.
5. LOCATION OF OBSTRUCTION ~ Sta. 138+00 to 139+00. Utilities located in space between 10' to 16' west of east curblines at 799 Market (Ross store, Stockton frontage)
6. METHOD USED TO OVERCOME OBSTRUCTION  
PG&E was contacted when DSCs were uncovered. Utilities were drilled and windowed. When utilities were verified to be abandoned, Contractor removed obstructions. Contractor also demo portions of the gas main which was in conflict with the grouting pipes. Contractor did not demo the entire gas main which would have resulted in a wider trench line.
7. SIGNIFICANT IMPACT ON CONSTRUCTION PROGRESS, IF ANY.(SUPPLIED BY THE CONTRACTOR)  
COST Sub-total for drilling impact due to small rig = \$224,720.48 + \$55,000 additional cost + Potential Standby Costs as stated in COR #79 Rev 3 dated 4/24/13  
TIME At present time, work does not impact the critical path however an impact may occur depending on length of standby time by CJA-NCC.
8. CONCLUSION, WHETHER-OR-NOT OBSTRUCTION CAN BE CLASSIFIED AS A DIFFERING SITE CONDITION (BASED ON CONTRACT DOCUMENTS).  
Abandoned ductbanks and steel conduits: The buried obstruction constitutes a differing and unforeseen site conditions as it is not shown in the Contract Drawings. Utility demo drawings do not exist for this location.  
Abandoned gas main: The existing gas main was shown on UE-127 but was omitted in UE-128.
9. ATTACHMENTS:  
SPECIFICATION General Provision Article 3.04  
DRAWINGS BP-124, UE-127 and UE-128  
INSPECTION RPT \_\_\_\_\_  
OTHER Photos attached



Prepared  
by:



Sarah Wilson, Resident Engineer

SFMTA Representative

4/24/13

Date

**PROPOSED CONTRACT CHANGE**

Contract No. 1252 Tunnels  
PCC No. 1252-13 Cor 79  
 PCC Title Compensation Grouting – Old Navy

Date 4/26/2013

**Description of PCC:**

Summary of Changes required at the "Old Navy" site - Pipe Array 3:

1. Perform additional field investigation with a vacuum truck at the original compensation grout hole design proximal points to determine limits of underground obstructions.
2. Remove and dispose of the abandoned PG&E tile duct bank and 12" gas line that runs along the proposed compensation grouting trench alignment.
3. Remove and dispose of PG&E steel pipes within the proposed compensation grouting trench.
4. Demobilize the Klemm drill rig currently being used for installation of the compensation grout tubes.
5. Mobilize a smaller drill rig to be used for installation of the compensation grout tubes.
6. Drill compensation grout holes at the original compensation grout hole design proximal points.


**Spec Ref.** CN 1252 Tunnels

**Drawing Nos.** BP-122 Rev.0, BP-124 Rev.0, Reference Drawings UE-127 and 128

**Attachments** N/A

The Contractor's proposal in price and time is required on the this proposed contract change to the subject contract in accordance with the General Provisions Section 6.02 B, within 14 days after receipt of a PCC.

Recommended by:

  
 Sarah Wilson, Resident Engineer (SFMTA Representative)

Date 4/26/13

Concur in Principle:

  
 Mark Benson, Construction Manager (SFMTA Representative)

Date 4/26/13

## FORCE ACCOUNT CHANGE ORDER

Title: **Compensation Grouting – Old Navy**

SFMTA Project: Central Subway Project (544.1)

Contract No. 1252 FA Change Order No. 004

Report No. PCC13-COR79 Date April 26, 2013

TO: **Barnard Impregilo Healy JV (BIHJV), Contractor**

You are ordered to perform work as follows:

1. Demobilize the Klemm drill rig currently being used for installation of the compensation grout tubes from the "Old Navy" site.
2. Mobilize a smaller drill rig to be used for installation of the compensation grout tubes to the "Old Navy" site.
3. Drill compensation grout holes at the originally foreseen proximal points for Pipe Array 3.

The work specified above will be paid for on a force account basis as set forth in Section 6.05, Force Account Work, of the General Provisions, noting the typographical error in paragraph A.2 which incorrectly references Section 6.06 rather than the correct reference of 6.04. Payment for this work will not be allowed without an executed Contract Modification.

Allowance Amount for this PCC is: **Not to Exceed \$70,000**

Prepared by: Sarah Wilson

Date: April 26, 2013

Approved:

Construction Manager Mark Benson

CM  Date: 4/26/13

Original: Contractor

Copies: Construction Manager

Contract File

## Ward, Beverly

---

**From:** Kelleher, Brian  
**Sent:** Friday, April 26, 2013 10:20 AM  
**To:** Ward, Beverly  
**Subject:** Estimate for Old Navy Comp Grout DSC - COR #79

Hi Beverly – here’s the basis for the COR 79 Force Account NTE amount of \$70K – thanks BK

---

**From:** Benson, Mark  
**Sent:** Thursday, April 25, 2013 10:52 AM  
**To:** Kelleher, Brian  
**Cc:** Wilson, Sarah H (SFMTA); Leong, Mun; Hembd, Matthew; Dombrowski, Charles  
**Subject:** RE: Old Navy Comp Grout DSC - COR #79

Brian,

Here is my recommendation for a NTE force account number:

Mobilization and Freight - \$15,000  
Rental (2 weeks) - \$10,000  
Inefficiencies related to  
loss of production of  
smaller rig (2 weeks of drilling) - \$40,200

Total - \$65,200

Recommend sending BIH/CJN letter directing to proceed \$70,000

**Mark Benson, P.E.**  
*Construction Manager*  
*SFMTA Central Subway*  
*821 Howard Street, 2nd Floor*  
*San Francisco, CA 94103*  
*D 415.701.5295*  
*C 415.238.0996*  
[mark.benson@sfmta.com](mailto:mark.benson@sfmta.com)

---

**From:** Benson, Mark  
**Sent:** Thursday, April 25, 2013 9:59 AM  
**To:** Dombrowski, Charles; Kelleher, Brian  
**Cc:** Wilson, Sarah H (SFMTA); Leong, Mun; Hembd, Matthew  
**Subject:** Old Navy Comp Grout DSC - COR #79

CJ/Brian,

We need to get moving on this ASAP. Just spoke to BIH and CJN regarding how to move this forward as this is a time critical issue.

CJ, please start to prepare our engineer’s estimate for this change, this needs to be our top priority.

Brian, I need to discuss with you about getting CJN started on mobilizing the equipment (smaller drill rig) now. I am thinking we can direct them to proceed with mobilization on force account. Please call me as soon as you can to discuss.

Thanks

**Mark Benson, P.E.**

*Construction Manager*

*SFMTA Central Subway*

*821 Howard Street, 2nd Floor*

*San Francisco, CA 94103*

*D 415.701.5295*

*C 415.238.0996*

*[mark.benson@sfmta.com](mailto:mark.benson@sfmta.com)*

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV (BIH)

## EVALUATION OF MERIT

### COR 079

**Recommendation:** Accept justification of Merit for COR 079 – (Comp Grout – Old Navy) - DSC / Design Modifications. There is no time extension recommended for this work.

**Facts:** The Contractor performed potholing activities in advance of compensation grout hole drilling at the Old Navy location (between Market St. and Stevenson St. on 4<sup>th</sup> Street) and encountered numerous buried obstructions. The obstructions were first encountered on March 5<sup>th</sup>, 2013.

After further field investigation with PG&E and additional potholing efforts, it was determined that there was not sufficient room between existing utilities (known and unknown) to drill the compensation grout holes as designed. The Contractor was able to remove many of these obstructions in an effort to identify a clear window of space in which to locate the proximal points of the compensation grout pipe array. However, one of the obstructions consisted of what was originally believed to be a live 12" waterline which would have caused the proximal points to shift to the east to avoid the live utility. On 4/4/13, it was discovered that this utility was not actually the 12" live waterline and on 4/5/13, PG&E confirmed that the utility was actually a 12" abandoned gas line.

The 12" abandoned gas line needs to be removed to allow drilling of the compensation grout holes at the originally foreseen proximal points in accordance with the Compensation Grout Design. However, further investigation showed that even with the removal of the 12" gas line, there was still insufficient room between utilities to install the grout tubes with the current equipment. The Contractor has been directed to demobilize the current equipment and mobilize a small drill rig which would allow the proximal points to be installed at the designed hole inclinations while passing beneath the PG&E electrical duct bank.

**Justification:** The buried obstructions constitute a differing and unforeseen site conditions as they were not shown or accurately depicted in the Contract Drawings. The following numerous issues that lead to the differing site condition are described herein:

1. There is not sufficient clearance between the existing PG&E lines per the original contract design to drill the compensation grout holes as designed.
2. Numerous unknown buried obstructions were encountered including, but not limited to tile duct banks, concrete of unknown contents, and steel pipes.
3. An abandoned 12" PG&E gas line was found to be approximately 16 feet from face of curb, approximately 4 feet below grade and running the entire length of the trench. The Contract Documents do indicate the presence of a 12" gas line at this location (Contract dwg. BP-124 Rev. 0 & Reference dwg. UE-127). See Field

**SFMTA Contract No. 1252**

**Contractor:** Barnard Impregilo Healy JV (BIH)

- Sketches 045 through 047. However, the Contract Documents, specifically the Utility Demolition and Utility Composite drawings, do not show whether the 12" gas line is live or needs to be removed.
4. The PGE electrical duct bank was deeper and further east than originally anticipated.
  5. The waterline shown on the drawings was further east than shown on the Contract drawings. See Field Sketches 045 through 046.
  6. A sub-sidewalk basement within the Ross Dress for Less building was discovered to have an unknown roof load capacity. This resulted in the need to bring in a smaller drill rig that could install the compensation grout tubes from the roadway and avoid installation on top of the basement.

As a result of mitigation efforts for the DSCs the following additional costs will be incurred:

Standby costs:

- The Contractor claims the standby costs for the Pipe installation crew began accruing on March 14, 2013 and will continue to accrue until the array of grout holes are available to be drilled. Standby costs for the Pre-conditioning crew will begin accruing upon completion of the Wholefoods /AT&T Pre-conditioning work. At this time, standby costs for the Preconditioning crew are anticipated to start accruing on 4/8/2013. At this time, the RE disagrees with the standby period for these two operations and is working with the Contractor to resolve the differences.

Additional Costs:

- Additional potholing/investigative efforts
- Further engineering to the compensation grout design
- Excavation of a larger access trench
- Removal & disposal of abandoned/un-used DSC utilities
- Increased street restoration
- Demobilization of the existing Klemm drill rig being used for installation of the compensation grout tubes at the "Old Navy" site.
- Mobilization for the smaller drill rig and the additional cost associated with using the small drill rig.

Actual costs related to this additional work have yet to be determined.


**Change Type** – (2) Unforeseen Condition

SFMTA Contract No. 1252

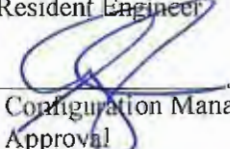
Contractor:

Barnard Impregilo Healy JV (BIH)

By:

  
\_\_\_\_\_  
Sarah Wilson  
Resident Engineer

4/24/13  
Date

  
\_\_\_\_\_  
Configuration Management Board  
Approval

4-24-13  
Date

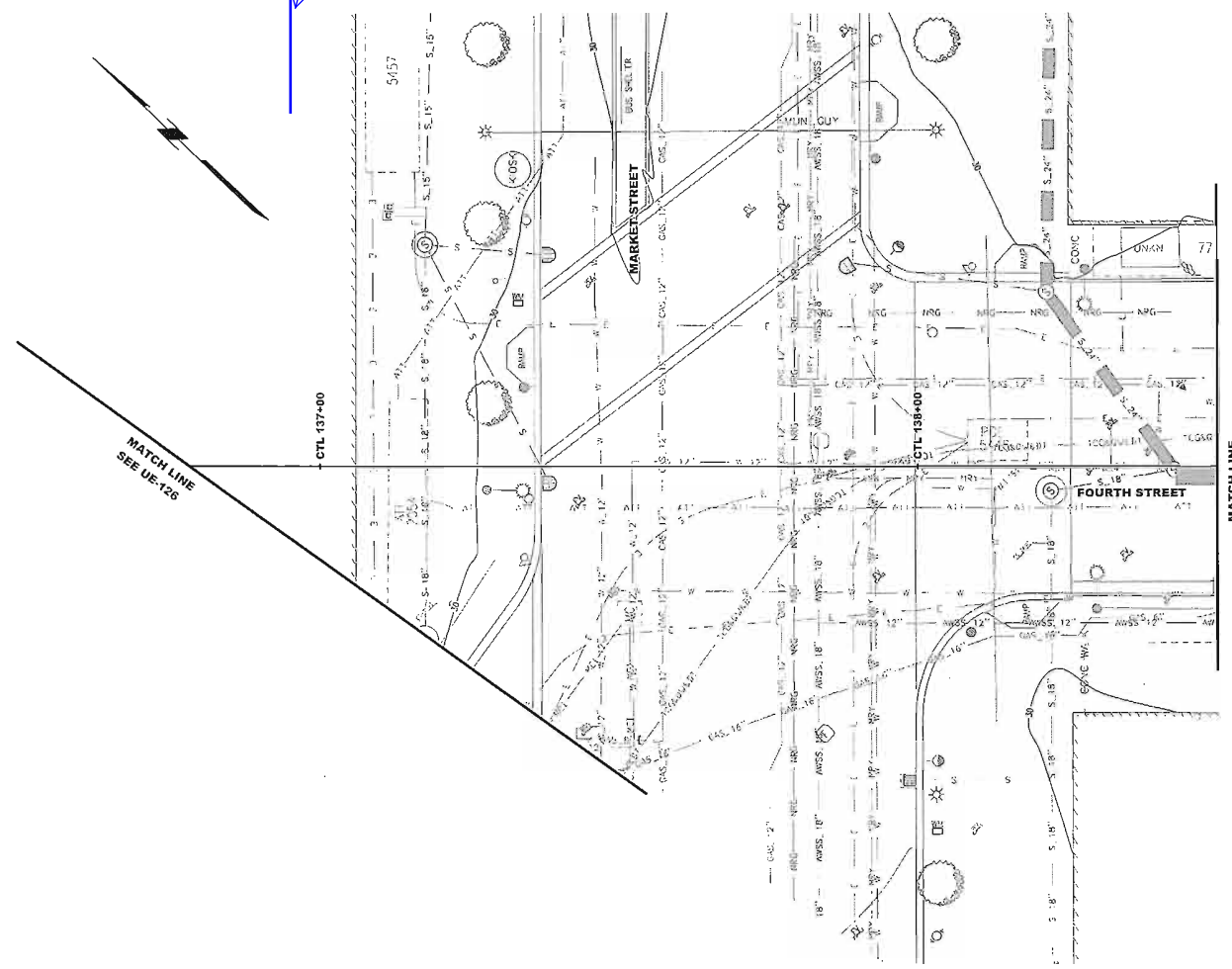
RE/cm to provide notice to PG&E of these Form B costs.

PLACING PG&E ON NOTICE

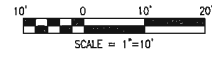


\\S:\sncs03\muni\sfgov.org\vn544.1\FinalDesign\Drawing--821\2--Civl\Utility Composites\Sheet Files CPD03\M54423\UE127.dwg fboyani Wed Dec 15, 2010 - 3:22 pm UE-127

Field sketch No. 12  
COR 079



**NOTE:**  
EXISTING UTILITY COMPOSITE DRAWINGS WERE COMPILED FROM UTILITY RECORD PLANS OBTAINED FROM UTILITY AGENCIES AND ADJUSTED TO FIELD SURVEY SURFACE EVIDENCE AS PROVIDED IN DFW TOPOGRAPHIC SURVEY CAD FILE 2007R3.DWG. CONTRACTOR SHALL SATISFY HIMSELF/HERSELF AS TO THE CORRECTNESS OF EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY AND OBTAIN WRITTEN APPROVAL FROM ENGINEER OF ANY DISCREPANCIES, REVISIONS, AND ADDITIONAL WORK THAT IS REQUIRED AS A RESULT OF SUCH FIELD INVESTIGATION PRIOR TO BEGINNING ANY WORK.



DRAWING IN PROGRESS / SUBJECT TO CHANGE / 11"X17" = HALF SIZE

DATE	DESCRIPTION	REV	BY	CHECKED	APP'D

**SFMTA**

DESIGNED	
CHECKED	
REVIEWED	
RECOMMENDED	
APPROVED	
DRAWN	
DATE	



CITY AND COUNTY OF SAN FRANCISCO  
**MUNICIPAL TRANSPORTATION AGENCY**

APPROVED  
EXECUTIVE DIRECTOR/CEO

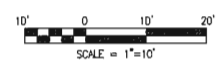
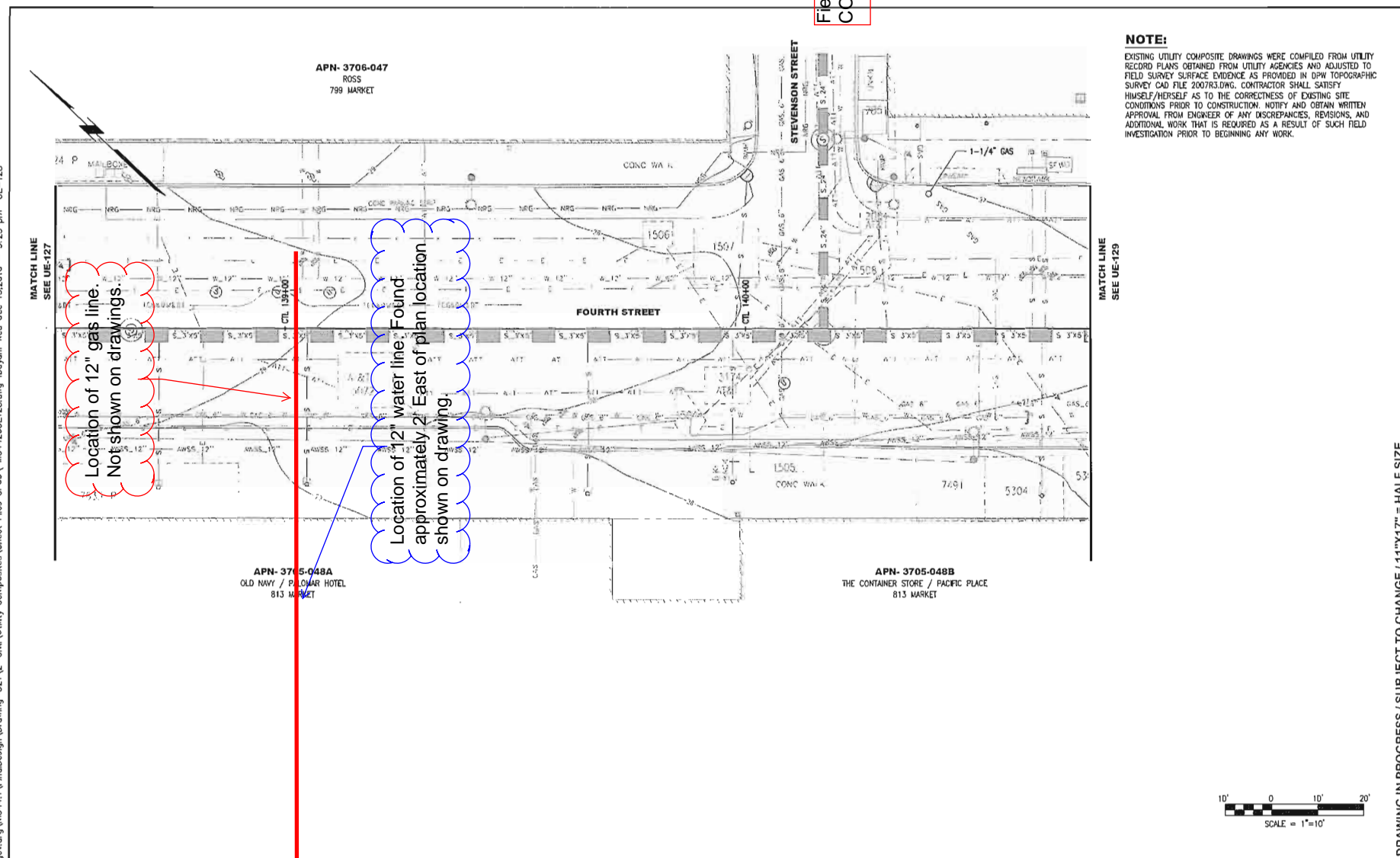
THIRD STREET LIGHT RAIL PROGRAM  
PHASE 2 — CENTRAL SUBWAY  
TUNNELS  
  
EXISTING UTILITY COMPOSITE  
CTL 136+80 TO 138+50

CONTRACT NO.	1252
DRAWN CONTROL NO.	
DESIGNED NO.	UE-127
SHEET NO.	

DATE PLOTTED: 05/18/2009

Field sketch No. 125  
COR 079

**NOTE:**  
EXISTING UTILITY COMPOSITE DRAWINGS WERE COMPILED FROM UTILITY RECORD PLANS OBTAINED FROM UTILITY AGENCIES AND ADJUSTED TO FIELD SURVEY SURFACE EVIDENCE AS PROVIDED IN DPW TOPOGRAPHIC SURVEY CAD FILE 2007R3.DWG. CONTRACTOR SHALL SATISFY HIMSELF/HERSELF AS TO THE CORRECTNESS OF EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY AND OBTAIN WRITTEN APPROVAL FROM ENGINEER OF ANY DISCREPANCIES, REVISIONS, AND ADDITIONAL WORK THAT IS REQUIRED AS A RESULT OF SUCH FIELD INVESTIGATION PRIOR TO BEGINNING ANY WORK.



\\S:\cns003\muni.sf.gov\arg\m544.1\FinalDesign\Drawing-821\2-Civil\Utility Composites\Sheet Files CP03\M54420E126.dwg fboyani Wed Dec 15, 2010 - 3:25 pm UE-128

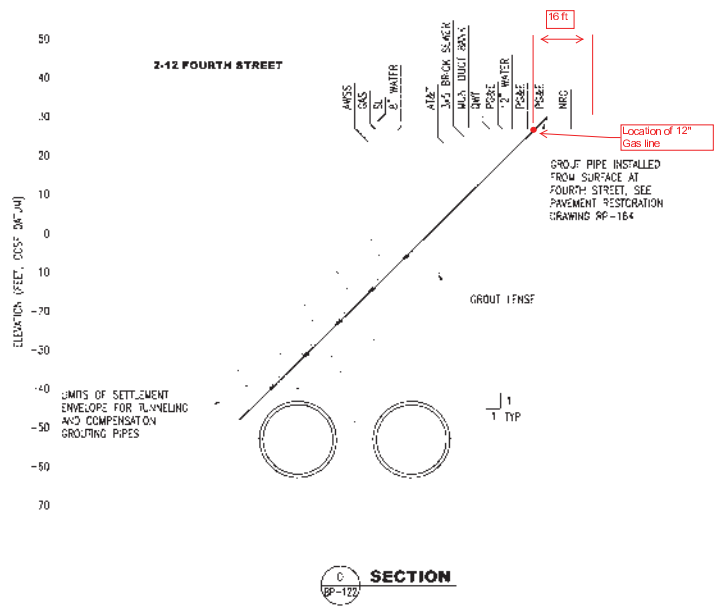
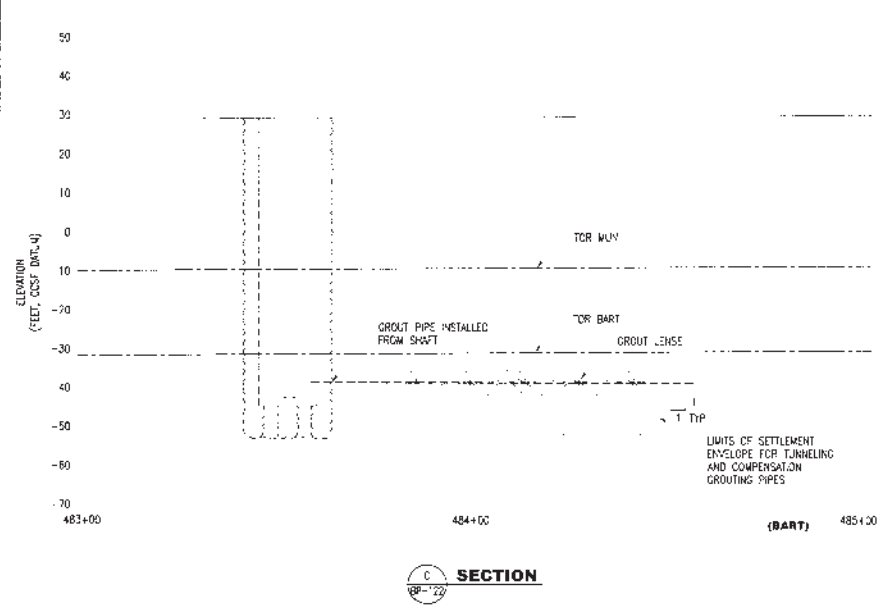
DRAWING IN PROGRESS / SUBJECT TO CHANGE / 11"X17" = HALF SIZE

<b>SFMTA</b>		DRAWING NO. SHEET NO. REVISION RECOMMENDED APPROVED DATE	<p>CITY AND COUNTY OF SAN FRANCISCO <b>MUNICIPAL TRANSPORTATION AGENCY</b></p> <p>APPROVED</p> <p>EXECUTIVE DIRECTOR/CEO</p>	THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS	CONTRACT NO. <b>1252</b>
DATE: _____ DESIGNED BY: _____ CHECKED BY: _____ APPROVED BY: _____				EXISTING UTILITY COMPOSITE CTL 138+50 TO 140+75	SHEET NO. <b>UE-128</b>

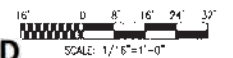
NORTH REVISION 05/16/2009

\\s:\sfrs003\muni\slines\org\m514\1\in\design\trains\821\3-structure\building\_protection\sheet\_files\6513\54423BP-24.dwg Internaly Thu Jan 27 2011 3:40 pm BP-124

- NOTES:**
- INDICATED GROUT LEVEL SHAPE AND EXTENT ARE FOR ILLUSTRATION PURPOSES ONLY. CONTRACTOR SHALL DETERMINE PRESSURES AND FLOW RATES TO ACHIEVE REQ. RED VOID FILLING AND SETTLEMENT CONTROL.
  - INDICATED PIPE DEPTH FOR EX. DING AT 2-12 FOURTH STREET IS TAKEN FROM THE REPORT "GEO-TECHNICAL INVESTIGATION RENOVATION & SEISMIC UPGRADE OF PACIFIC CENTER, 821 MARKET STREET, SC-1054-001"



Field Sketch No. 1252 - 047  
COR 079



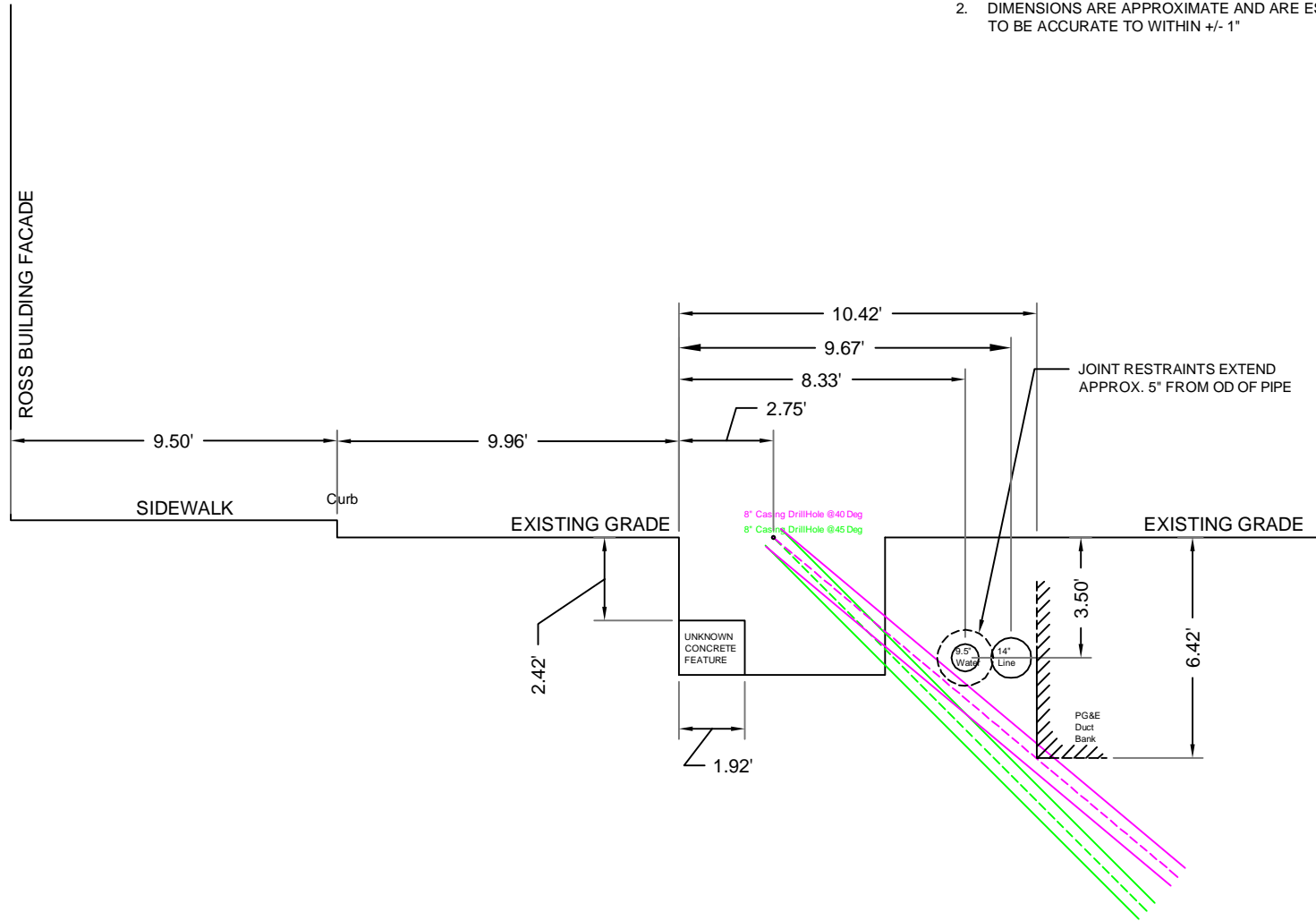
**CONFORMED**

 PB AMERICAS, INC.	12/2/08 Building Protection Market Street Area W. CHARGES [Signature]	 CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY APPROVED: [Signature] EXECUTIVE DIRECTOR/GO	THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS	1252 CL-18489
			BUILDING PROTECTION COMPENSATION GROUTING MARKET STREET AREA, SHEET 3 OF 3	BP-124 498 0

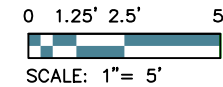


**GENERAL NOTES:**

1. FIELD MEASUREMENTS TAKEN ON 4/17/2013
2. DIMENSIONS ARE APPROXIMATE AND ARE ESTIMATED TO BE ACCURATE TO WITHIN +/- 1"



**SECTION VIEW  
POTHOLE NO. 2 (PH-2)  
LOOKING SOUTH AT APPROX. STATION 138+72**



REVISION:

--	--	--	--	--

CENTRAL SUBWAY

**"OLD NAVY"  
COMP GROUT TRENCH  
POTHOLE NO. 2**

**BARNARD CONSTRUCTION  
COMPANY, INC.**  
701 GOLD AVE.  
BOZEMAN, MT 59715  
PHONE: (406) 586-1995  
www.barnard-inc.com



PLAN SHEET TITLE

SHEET  
**PH-2**

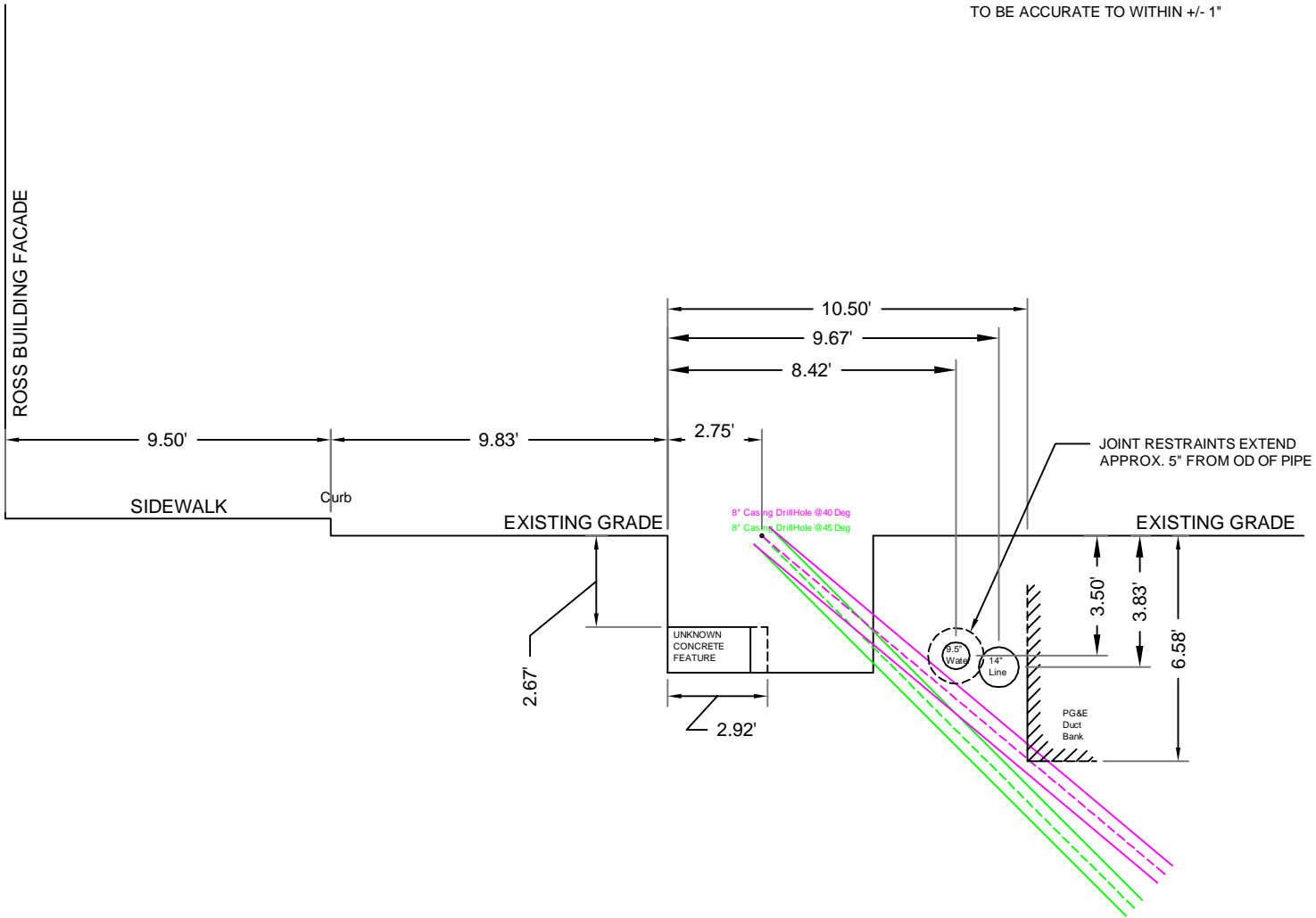
**GENERAL NOTES:**

1. FIELD MEASUREMENTS TAKEN ON 4/17/2013
2. DIMENSIONS ARE APPROXIMATE AND ARE ESTIMATED TO BE ACCURATE TO WITHIN +/- 1"

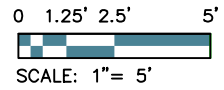
REVISION:				

CENTRAL SUBWAY

**"OLD NAVY"  
COMP GROUT TRENCH  
POTHOLE NO. 3**



**SECTION VIEW  
POTHOLE NO. 3 (PH-3)  
LOOKING SOUTH AT APPROX. STATION 139+07**



**BARNARD CONSTRUCTION  
COMPANY, INC.**  
701 GOLD AVE.  
BOZEMAN, MT 59715  
PHONE: (406) 586-1995  
www.barnard-inc.com

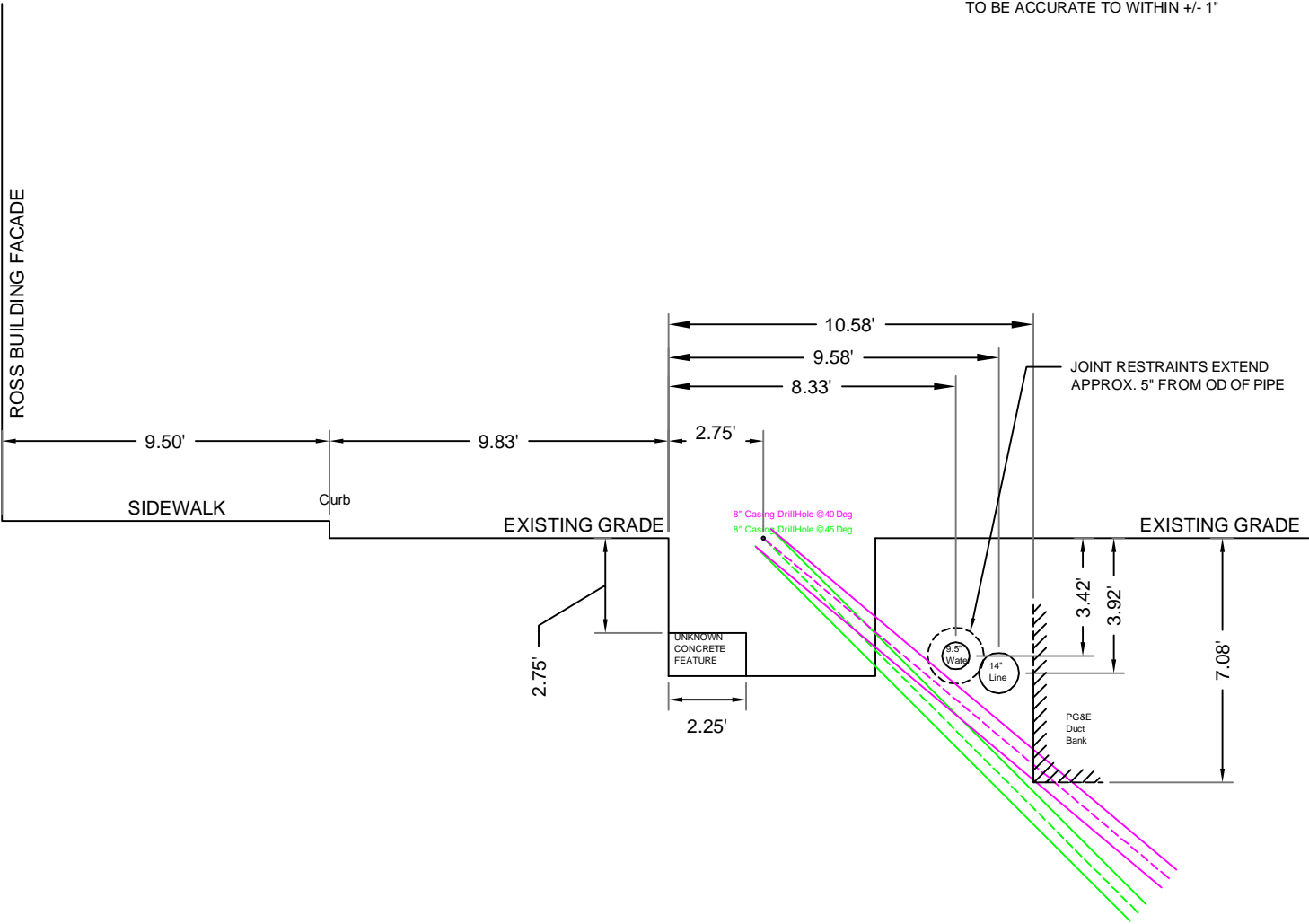


PLAN SHEET TITLE

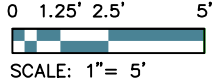
SHEET  
**PH-3**

**GENERAL NOTES:**

1. FIELD MEASUREMENTS TAKEN ON 4/17/2013
2. DIMENSIONS ARE APPROXIMATE AND ARE ESTIMATED TO BE ACCURATE TO WITHIN +/- 1"



**SECTION VIEW  
POTHOLE NO. 4 (PH-4)  
LOOKING SOUTH AT APPROX. STATION 139+42**



REVISION:


CENTRAL SUBWAY

**"OLD NAVY"  
COMP GROUT TRENCH  
POTHOLE NO. 4**

**BARNARD CONSTRUCTION  
COMPANY, INC.**  
701 GOLD AVE.  
BOZEMAN, MT 59715  
PHONE: (406) 586-1995  
www.barnard-inc.com



PLAN SHEET TITLE

SHEET  
**PH-4**



04 03 2013 14:32





04.03.2013 14:32



04.03.2013 14:32



04.03.2013 14:33



04.16.2013 08:21



04.16.2019 08:21



04.16.2013 09:22

2" conduit empty

4-4" abandoned PG&E conduits  
with wire and tar still inside,  
Verified by Tom Riemier(PG&E)

03/08/2013



03/08/2013





03/11/2013



03/12/2013



03/12/2013



03/12/2013



Duct bank under PG&E lines removed

03/12/2013



248-04-0071

03/13/2013



03/14/2013