

### GAS SYMBOLS

**Methane (CH<sub>4</sub>) Encountered:**

4	< 5% by Volume
25	5 - 25% by Volume
100	26 - 100% by Volume

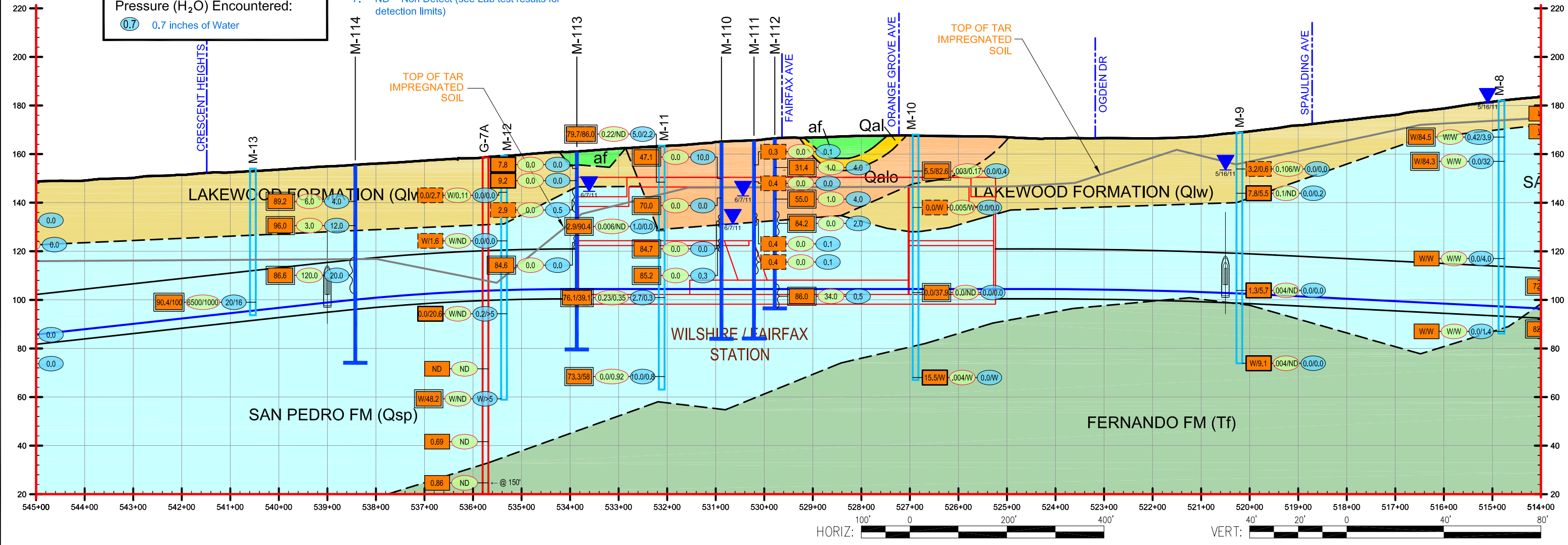
**Hydrogen Sulfide (H<sub>2</sub>S) Found:**

0.7	0.7 ppm (Parts Per Million by Volume)
-----	---------------------------------------

**Pressure (H<sub>2</sub>O) Encountered:**

0.7	0.7 inches of Water
-----	---------------------

- NOTES:**
1. Slash "/" indicates year taken (2011/2009) otherwise all data is 2011
  2. W = Water encountered negating Data
  3. H = High (off scale)
  4. NA = No Measured Data (not available)
  5. Ground-Water Level and Date Measured
  6. For clarity purposes Geotechnical Borings are not shown on Plan and Profile. Only Geologic Units and Contacts are shown on the Profile.
  7. ND = Non Detect (see Lab test results for detection limits)



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION


DESIGNED BY  
**ELLIOTT / MUNRO**

DRAWN BY  
**L. MORLEY**

CHECKED BY  
**JAG / HP**

IN CHARGE  
**MBH / PM**

DATE  
**12/02/2011**



**LOS ANGELES COUNTY  
METROPOLITAN TRANSPORTATION AUTHORITY**

**Metro**

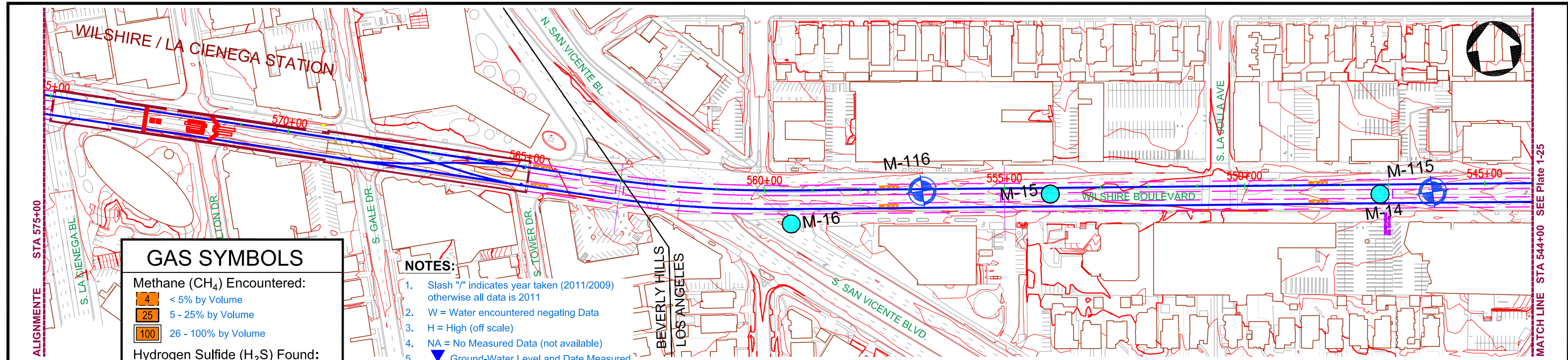
PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION  
PRELIMINARY ENGINEERING  
SUBSURFACE GAS DATA**

STATION 514+00 to 545+00

CONTRACT NO	REV
DRAWING NO	Plate 1-25
SCALE	AS NOTED
SHEET NO	

FILE NAME: G:\4953\_Geotech\2011111421\_MetroWestside\CA\4953-1\1421\_Gas-Data.dwg [25] DATE: December 04, 2011 TIME: 2:51 PM



### GAS SYMBOLS

**Methane (CH<sub>4</sub>) Encountered:**

4	< 5% by Volume
25	5 - 25% by Volume
100	26 - 100% by Volume

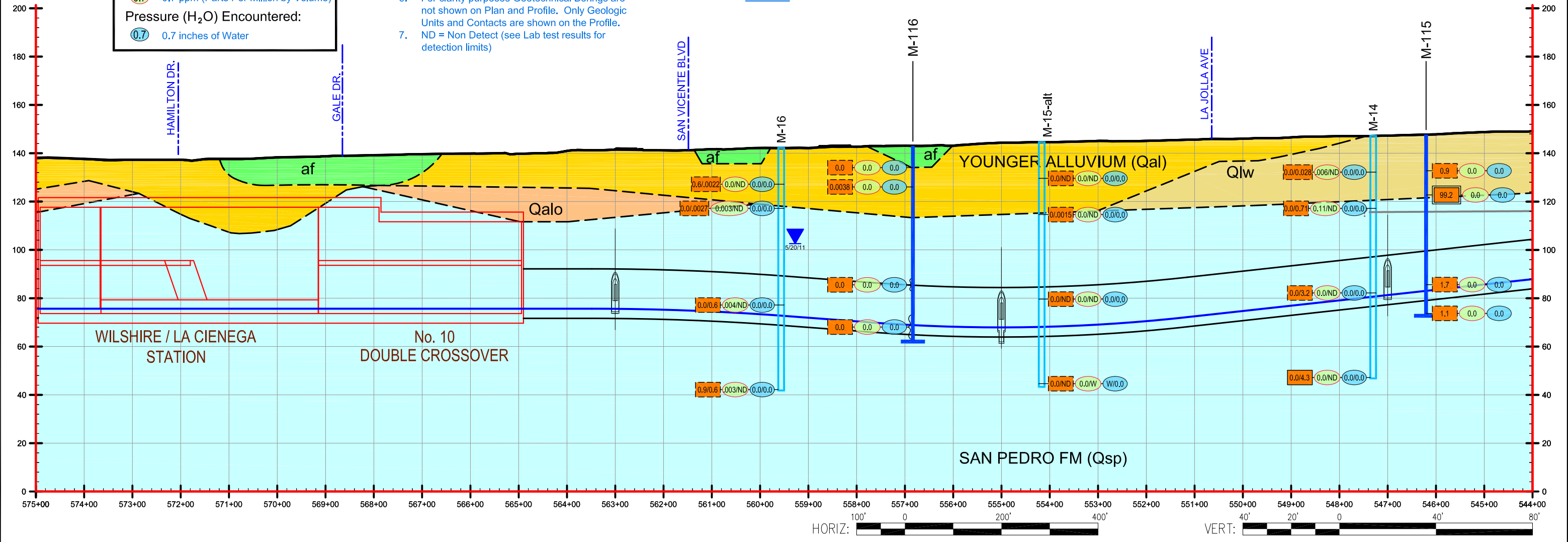
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	ELLIOTT / MUNRO
DRAWN BY	L. MORLEY
CHECKED BY	JAG / HP
IN CHARGE	MBH / PM
DATE	12/02/2011



**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**Metro**

PROJECT MANAGER \_\_\_\_\_

**WESTSIDE SUBWAY EXTENSION  
PRELIMINARY ENGINEERING  
SUBSURFACE GAS DATA**

STATION 544+00 to 575+00

CONTRACT NO	
DRAWING NO	Plate 1-26
SCALE	AS NOTED
SHEET NO	

FILE NAME: G:\4953\_Geotech\2011111421\_MetroWestside\CA\4953-1\1421\_Gas-Data.dwg [26] DATE: December 04, 2011 TIME: 2:50 PM

# GAS SYMBOLS

Methane (CH<sub>4</sub>) Encountered:

- 4 < 5% by Volume
- 25 5 - 25% by Volume
- 100 26 - 100% by Volume

Hydrogen Sulfide (H<sub>2</sub>S) Found:

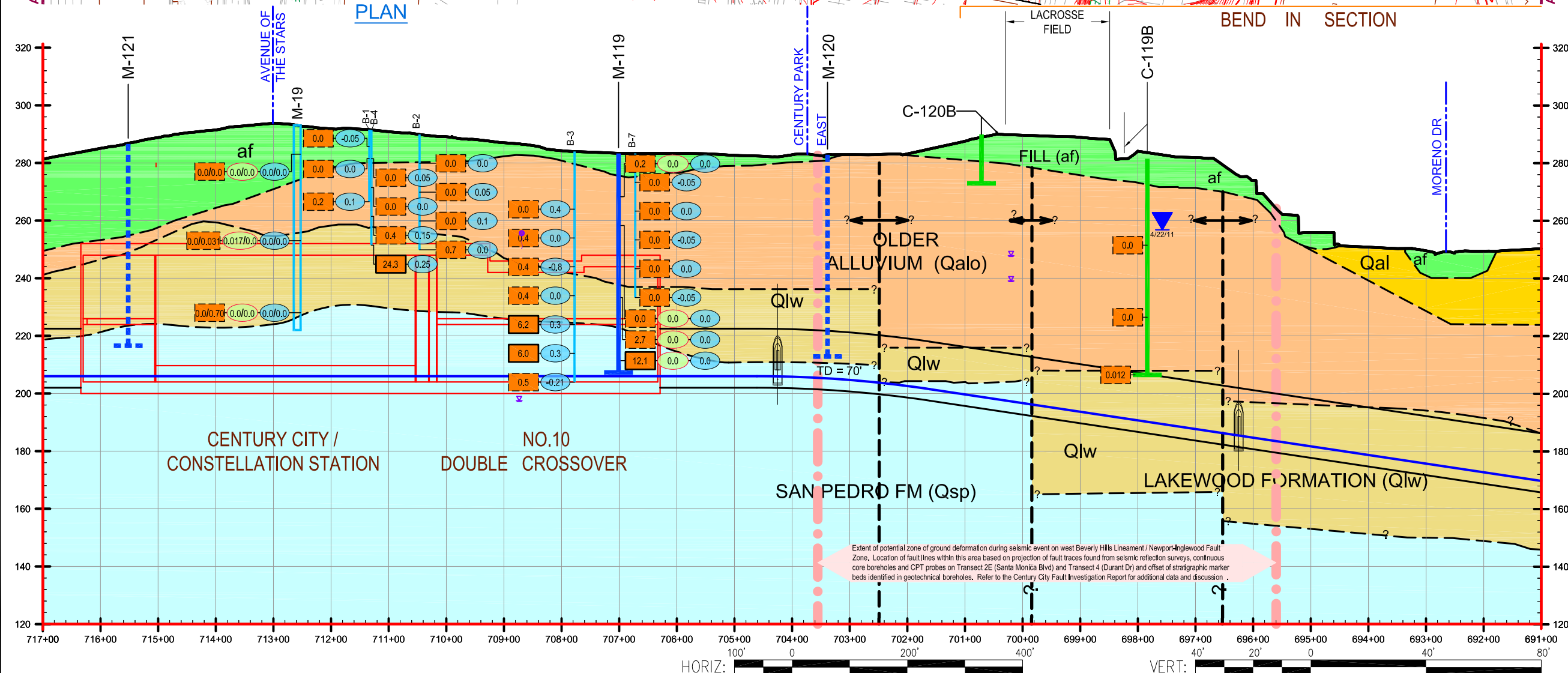
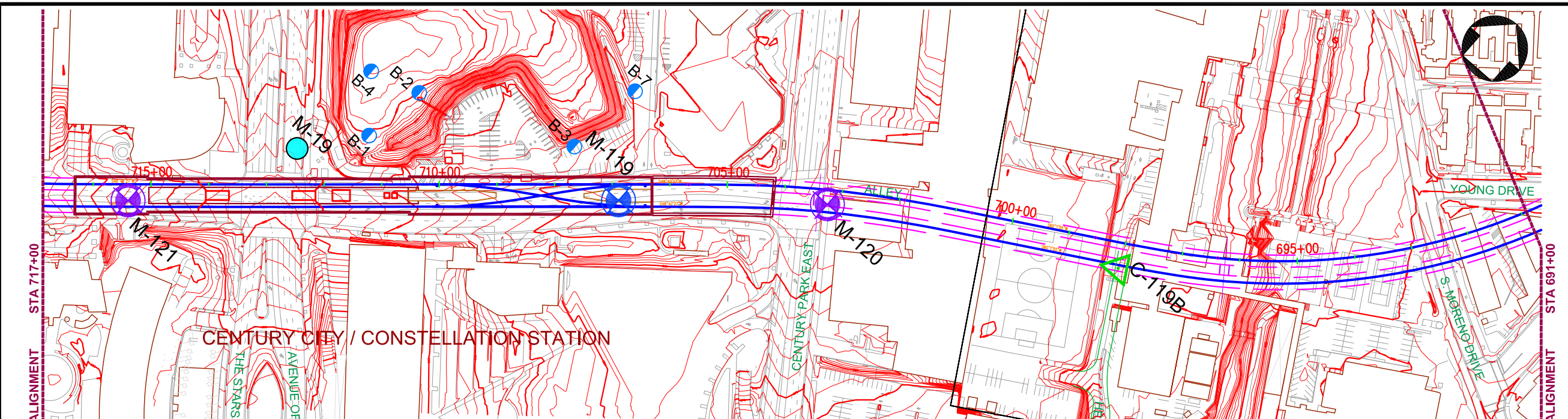
- 0.7 0.7 ppm (Parts Per Million by Volume)

Pressure (H<sub>2</sub>O) Encountered:

- 0.7 0.7 inches of Water

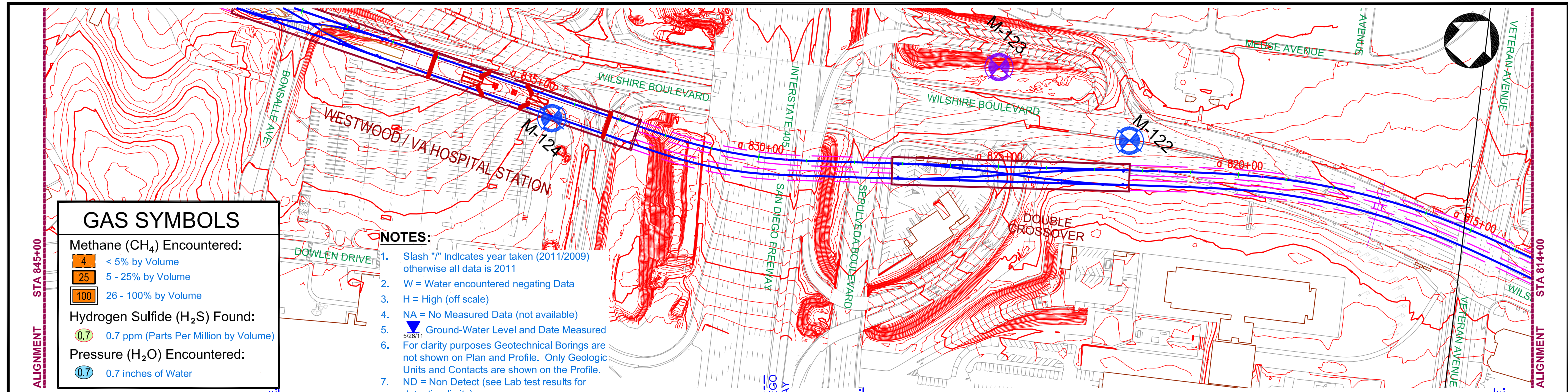
## NOTES:

1. Slash "/" indicates year taken (2011/2009) otherwise all data is 2011.
2. W = Water encountered negating Data
3. H = High (off scale)
4. NA = No Measured Data (not available)
5. ▼ Ground-Water Level and Date Measured
6. M-19 is prior ACE MACTEC gas well.
7. M-119 is current PE Phase MACTEC gas well.
8. C-119B is PE Phase MACTEC CPT BAT exploration.
9. B-1 to B-7 are 2004 gas data of drill site 2 (10131 Constellation Blvd) by others.
10. For clarity purposes Geotechnical Borings are not shown on the Plan and Profile. Only Geologic Units and Contacts are shown on the Profile.
11. ND = Non Detect (see Lab test results for detection limits)



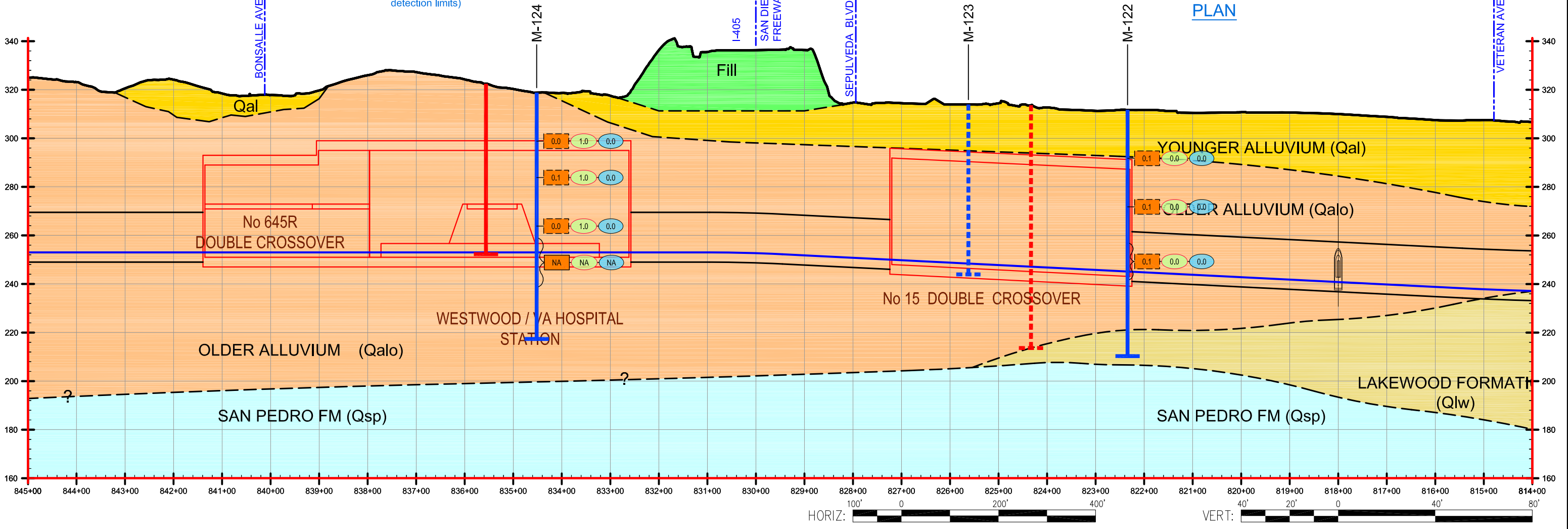
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>DESIGNED BY</td><td>ELLIOTT / MUNRO</td></tr> <tr><td>DRAWN BY</td><td>L. MORLEY</td></tr> <tr><td>CHECKED BY</td><td>JAG / HP</td></tr> <tr><td>IN CHARGE</td><td>MBH / PM</td></tr> <tr><td>DATE</td><td>12/02/2011</td></tr> </table>	DESIGNED BY	ELLIOTT / MUNRO	DRAWN BY	L. MORLEY	CHECKED BY	JAG / HP	IN CHARGE	MBH / PM	DATE	12/02/2011	<p>LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY</p>	<p><b>WESTSIDE SUBWAY EXTENSION PRELIMINARY ENGINEERING SUBSURFACE GAS DATA</b></p> <p>STATION 691+00 to 717+00</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>CONTRACT NO</td><td></td></tr> <tr><td>DRAWING NO</td><td>Plate 1-27</td></tr> <tr><td>SCALE</td><td>AS NOTED</td></tr> <tr><td>SHEET NO</td><td></td></tr> </table>	CONTRACT NO		DRAWING NO	Plate 1-27	SCALE	AS NOTED	SHEET NO	
DESIGNED BY	ELLIOTT / MUNRO																				
DRAWN BY	L. MORLEY																				
CHECKED BY	JAG / HP																				
IN CHARGE	MBH / PM																				
DATE	12/02/2011																				
CONTRACT NO																					
DRAWING NO	Plate 1-27																				
SCALE	AS NOTED																				
SHEET NO																					

FILE NAME: G:\963\_Geotech\2011111421\_MetroWestside\CA\4653-1\1421\_GasData.dwg [27] DATE: December 04, 2011 TIME: 2:50 PM



GAS SYMBOLS	
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	ELLIOTT / MUNRO
DRAWN BY	L. MORLEY
CHECKED BY	JAG / HP
IN CHARGE	MBH / PM
DATE	12/02/2011

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**PROJECT MANAGER**

**WESTSIDE SUBWAY EXTENSION  
PRELIMINARY ENGINEERING  
SUBSURFACE GAS DATA**

STATION 814+00 to 845+00

CONTRACT NO	
DRAWING NO	Plate 1-28
SCALE	AS NOTED
SHEET NO	

FILE NAME: c:\Users\l\morley\Documents\CAD\4953-11-1421\_VSE\4953-11-1421\_Gas-Data-Log-PR.dwg [28] DATE: December 20, 2011 TIME: 4:37 PM