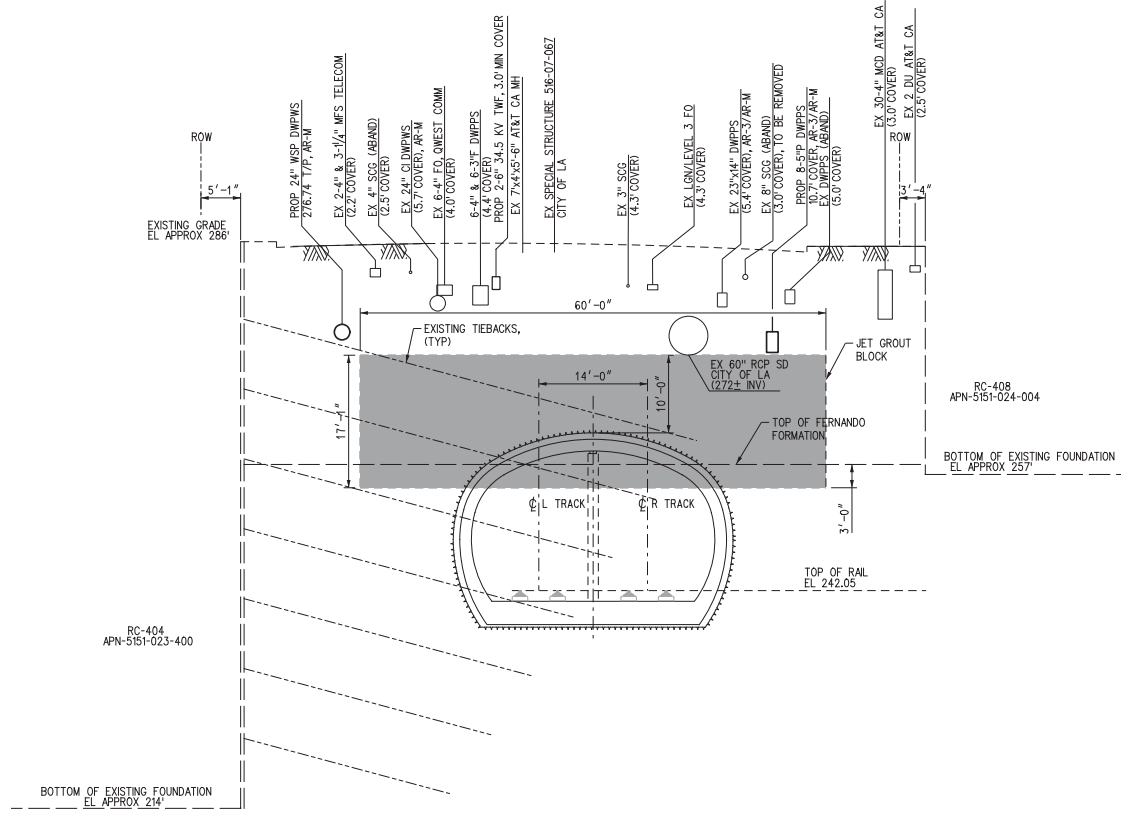
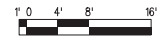


**APPENDIX G**  
**ENGINEERING DRAWINGS**

Alternative A



SECTION @ STA R 7+50



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

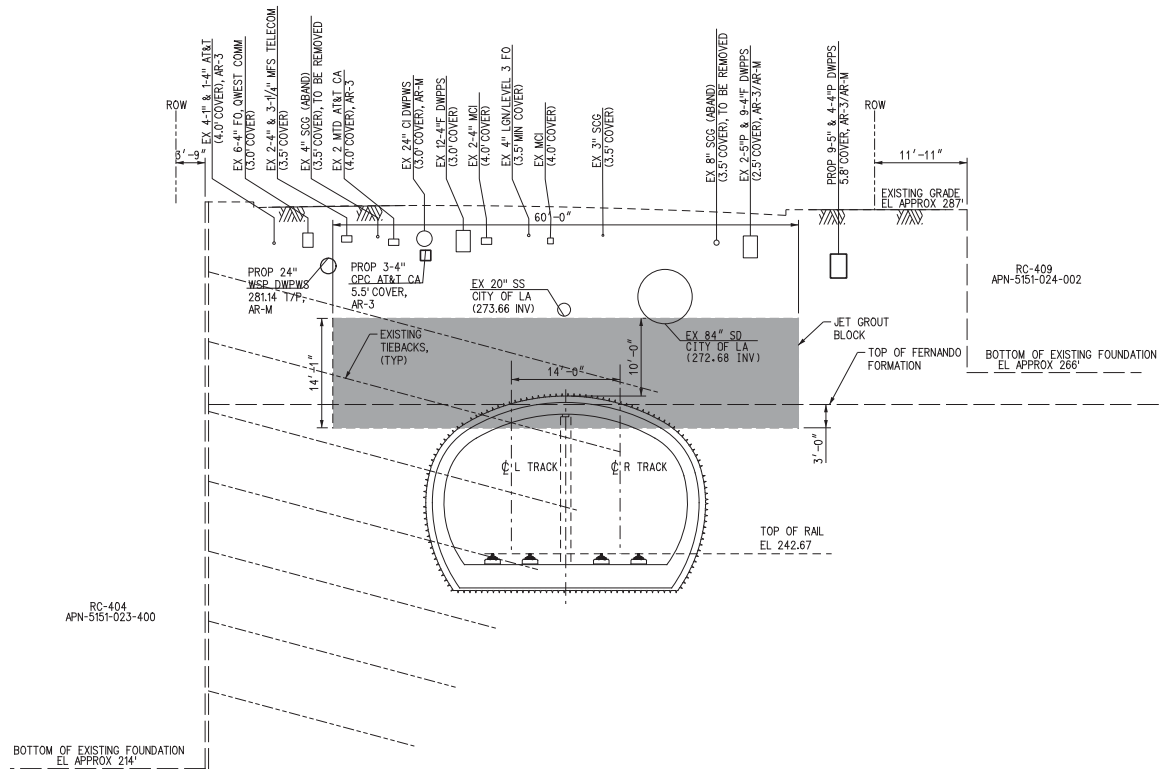
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/21/2013

**M Metro**  
 The Connector Partnership  
 777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

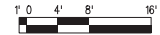
LOS ANGELES COUNTY  
 METROPOLITAN TRANSPORTATION AUTHORITY

REGIONAL CONNECTOR TRANSIT CORRIDOR  
 FLOWER STREET  
 RE EVALUATION  
 OPTION 4  
 SECTION AT STATION R 7+50

CONTRACT NO	C0980
DRAWING NO	AS-401
SCALE	1" = 8'
SHEET NO	



SECTION @ STA R 9+05



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

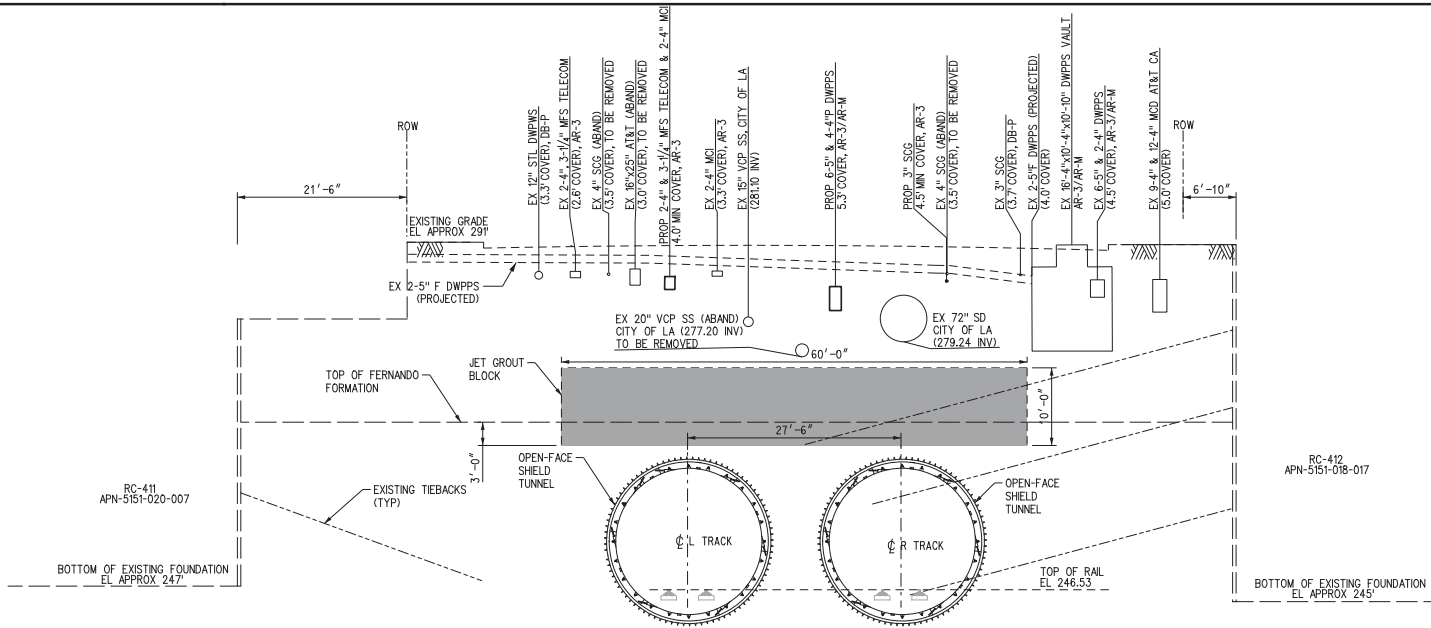
**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

**The Connector Partnership**

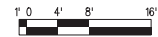
777 S. FIGUEROA STREET  
10TH FLOOR  
LOS ANGELES, CA 90017  
T 213-312-3100  
F 213-312-3114

**REGIONAL CONNECTOR TRANSIT CORRIDOR  
FLOWER STREET  
RE EVALUATION  
OPTION 4  
SECTION AT STATION 9+05**

CONTRACT NO	C0980
DRAWING NO	AS-402
SCALE	1" = 8'
SHEET NO	



SECTION @ STA R 14+96



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	DRAWN BY							
	CHECKED BY							
	IN CHARGE							
	DATE	8/23/2013						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION

RC-411 APN-5151-020-007
RC-412 APN-5151-018-017

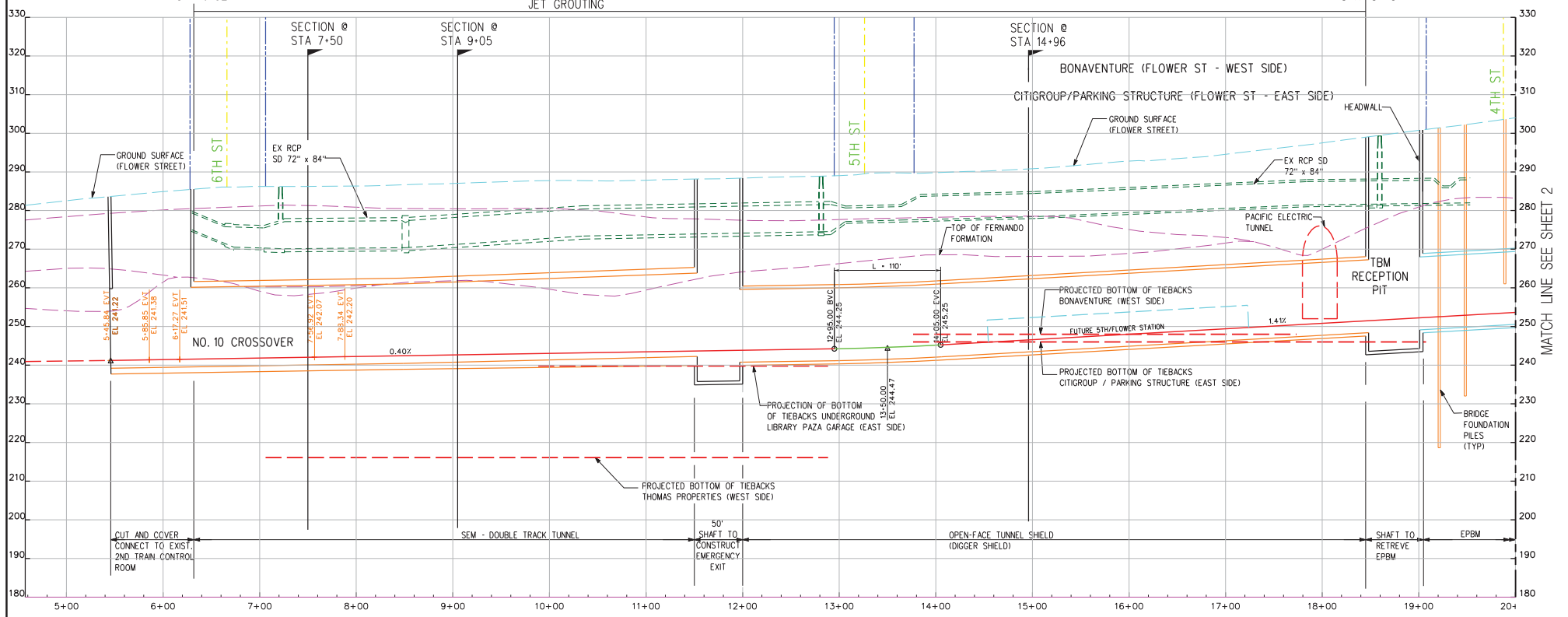
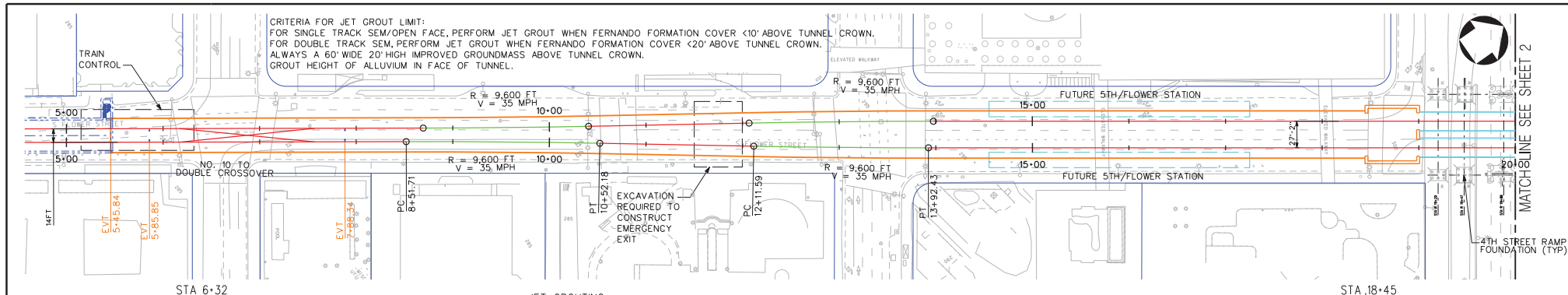
**M Metro**  
The Connector Partnership

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET  
10TH FLOOR  
LOS ANGELES, CA 90017  
T 213-312-3100  
F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR  
FLOWER STREET  
RE EVALUATION  
OPTION 4  
SECTION AT STATION 14+96

CONTRACT NO	C0980
DRAWING NO	AS-403
SCALE	1" = 8'
SHEET NO	



CRITERIA FOR JET GROUT LIMIT:  
 FOR SINGLE TRACK SEM/OPEN FACE, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <10' ABOVE TUNNEL CROWN.  
 FOR DOUBLE TRACK SEM, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <20' ABOVE TUNNEL CROWN.  
 ALWAYS A 60' WIDE 20' HIGH IMPROVED GROUNDMASS ABOVE TUNNEL CROWN.  
 GROUT HEIGHT OF ALLUVIUM IN FACE OF TUNNEL.



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

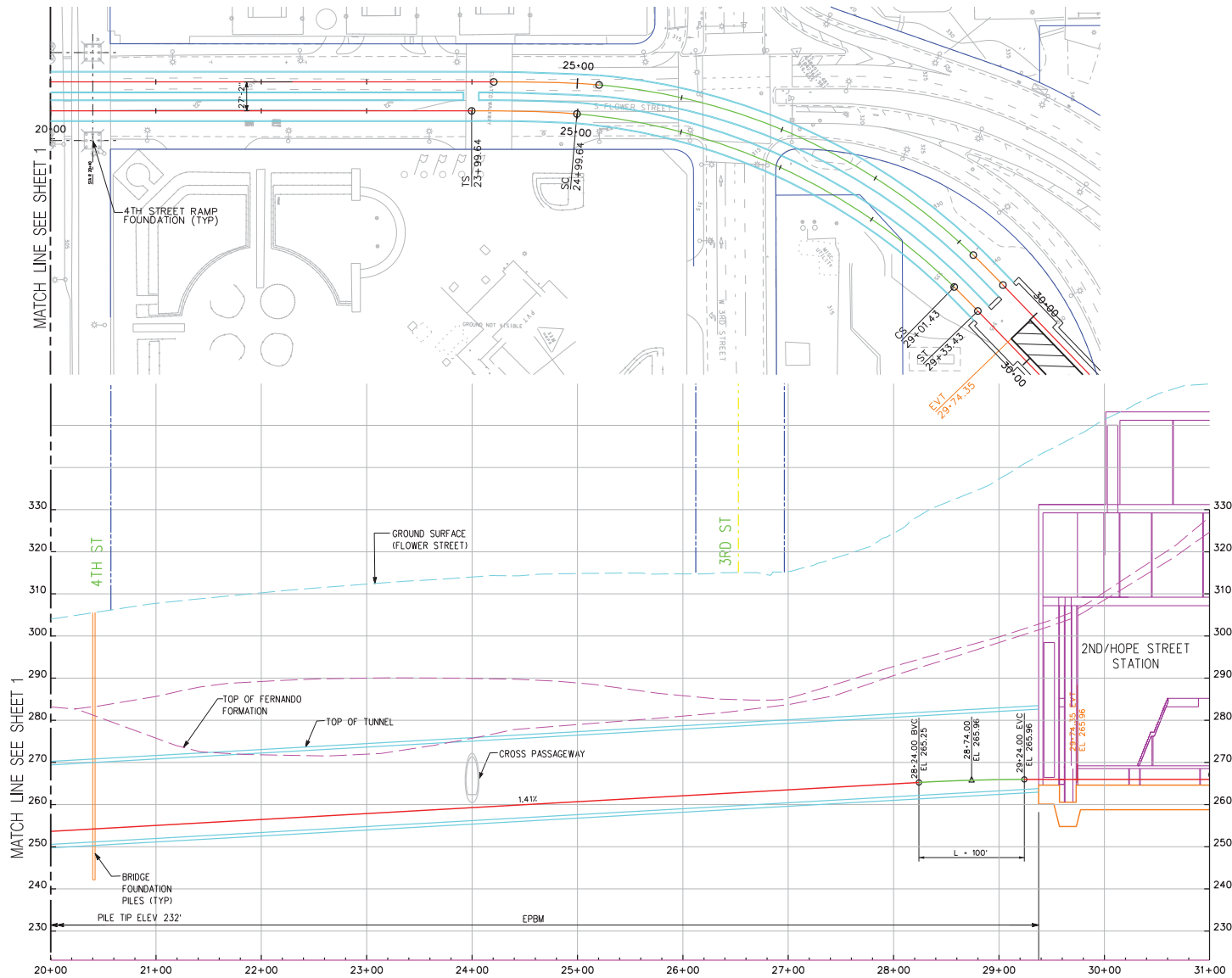
**M Metro** LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR  
 FLOWER STREET  
 RE EVALUATION  
 OPTION 4  
 OPEN FACE TBM/SEM ALTERNATIVE

CONTRACT NO.    
 DRAWING NO.  REV    
 SCALE    
 SHEET NO. 1 OF 2

4-30-14 PM 8/23/2013 ...N:\evaluation\Open Face SCA\MPT...  
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET  
10TH FLOOR  
LOS ANGELES, CA 90017  
T 213-312-3100  
F 213-312-3114

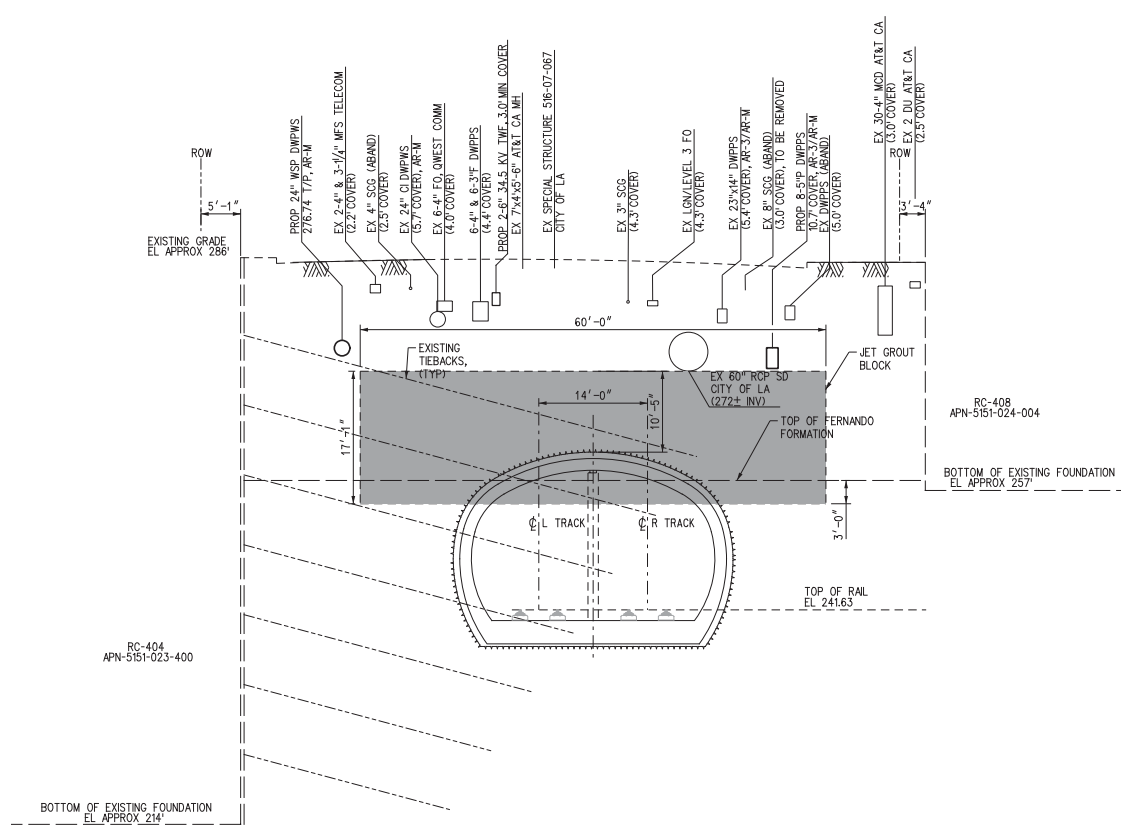
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FLOWER STREET  
RE EVALUATION  
OPTION 4  
OPEN FACE TBM/SEM ALTERNATIVE

CONTRACT NO	
DRAWING NO	
SCALE	
SHEET NO	2 OF 2

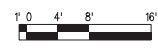
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Alternative B





SECTION @ STA R 7+50



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION

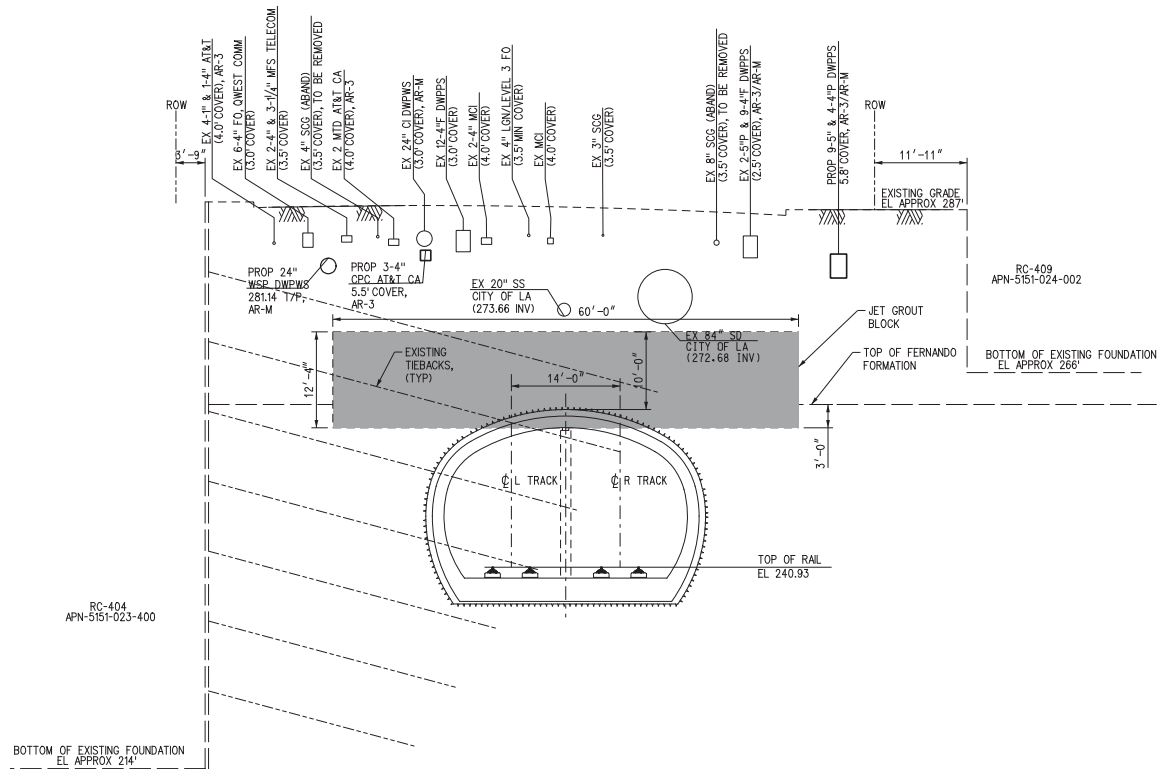
DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

**M Metro**  
 The Connector Partnership  
 777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

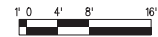
LOS ANGELES COUNTY  
 METROPOLITAN TRANSPORTATION AUTHORITY

REGIONAL CONNECTOR TRANSIT CORRIDOR  
 FLOWER STREET  
 RE EVALUATION  
 OPTION 5  
 SECTION AT STATION 7+50

CONTRACT NO	C0980
DRAWING NO	AS-501
SCALE	1" = 8'
SHEET NO	



SECTION @ STA R 9+05



DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

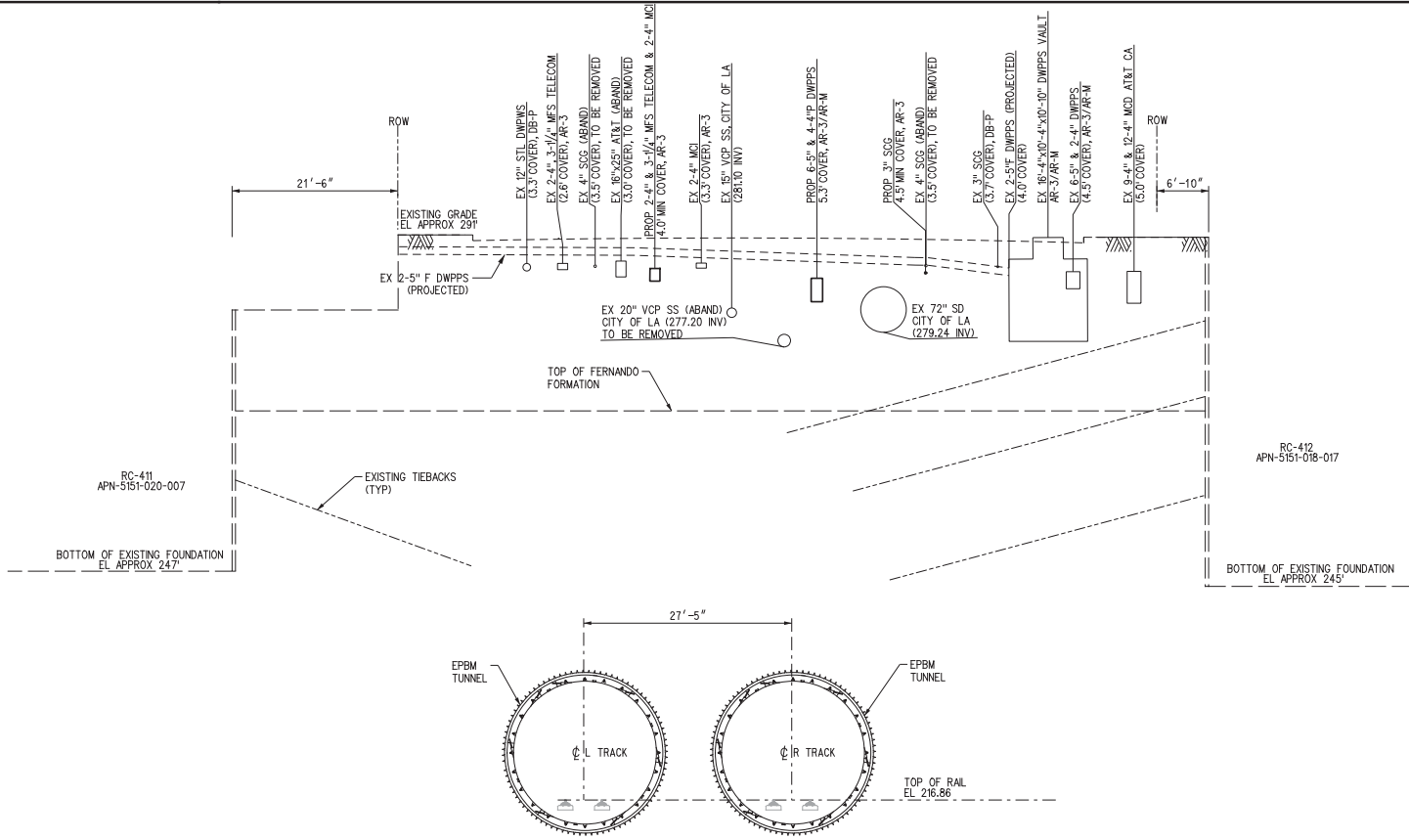
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION

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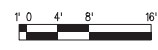
**M Metro**  
 LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
 The Connector Partnership  
 777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR  
 FLOWER STREET  
 RE EVALUATION  
 OPTION 5  
 SECTION AT STATION 9+05

CONTRACT NO	C0980
DRAWING NO	AS-502
SCALE	1" = 8'
SHEET NO	



SECTION @ STA R 14+96



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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

**M Metro**  
The Connector Partnership

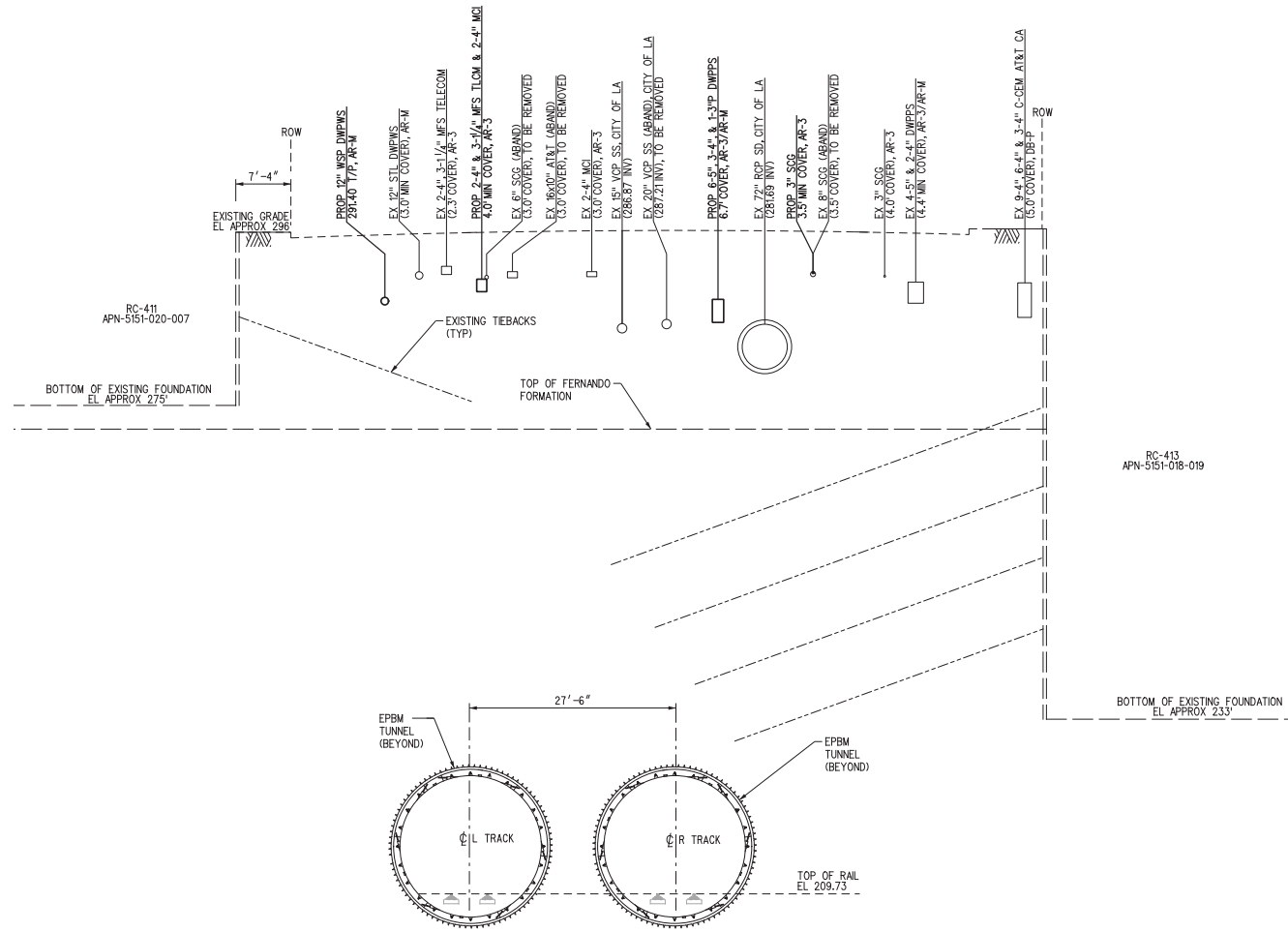
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET  
10TH FLOOR  
LOS ANGELES, CA 90017  
T 213-312-3100  
F 213-312-3114

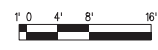
REGIONAL CONNECTOR TRANSIT CORRIDOR  
FLOWER STREET  
RE EVALUATION  
OPTION 5  
SECTION AT STATION 14+96

CONTRACT NO	C0980
DRAWING NO	AS-503
SCALE	1" = 8'
SHEET NO	

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SECTION @ STA R 17+00



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

The Connector Partnership

777 S. FLORENZA STREET  
10TH FLOOR  
LOS ANGELES, CA 90017  
T 213-312-3100  
F 213-312-3114

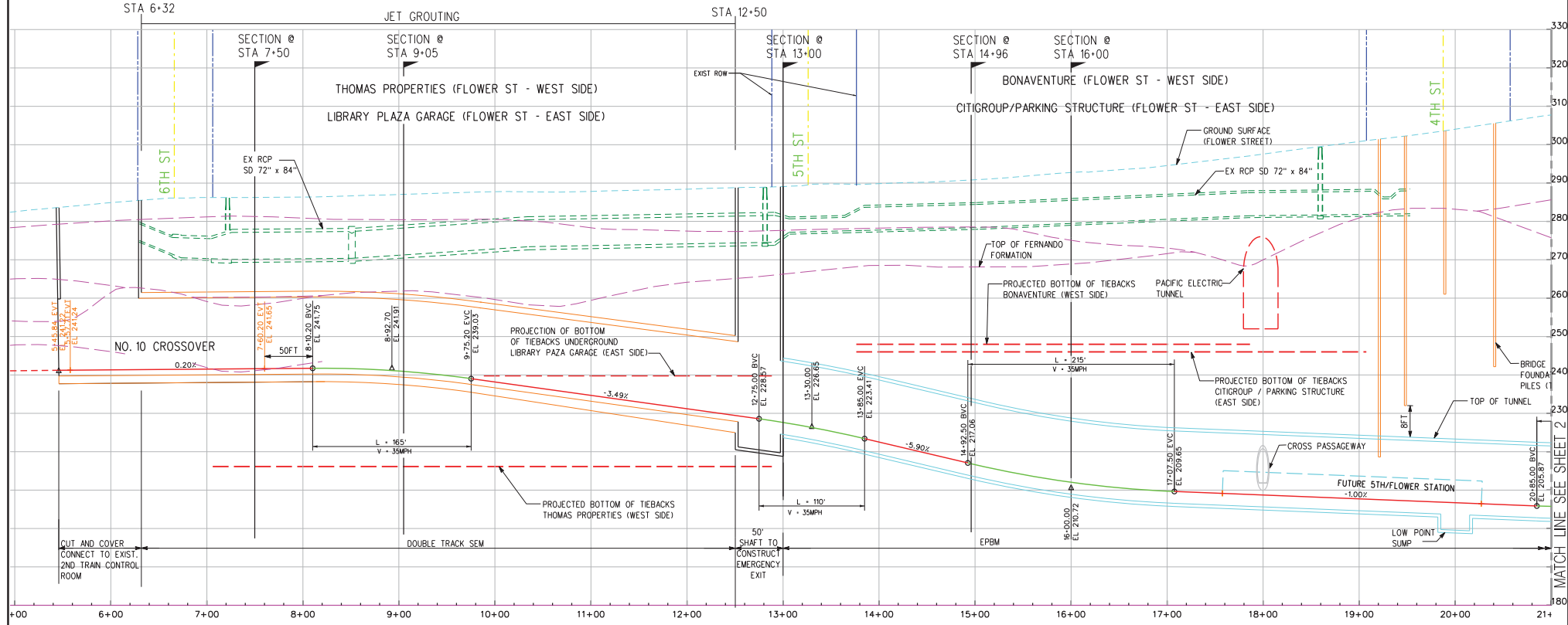
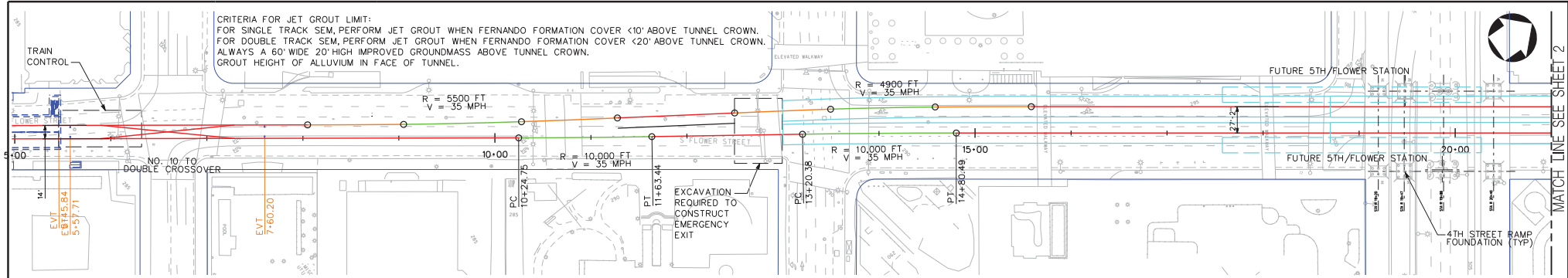
REGIONAL CONNECTOR TRANSIT CORRIDOR  
FLOWER STREET  
RE EVALUATION  
OPTION 5  
SECTION AT STA 17+00

CONTRACT NO	C0980
DRAWING NO	AS-505
SCALE	1" = 8'
SHEET NO	-

Model Name- Default



CRITERIA FOR JET GROUT LIMIT:  
 FOR SINGLE TRACK SEM, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <10' ABOVE TUNNEL CROWN.  
 FOR DOUBLE TRACK SEM, PERFORM JET GROUT WHEN FERNANDO FORMATION COVER <20' ABOVE TUNNEL CROWN.  
 ALWAYS A 60' WIDE 20' HIGH IMPROVED GROUNDMASS ABOVE TUNNEL CROWN.  
 GROUT HEIGHT OF ALLUVIUM IN FACE OF TUNNEL.



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/23/2013

**M** Metro

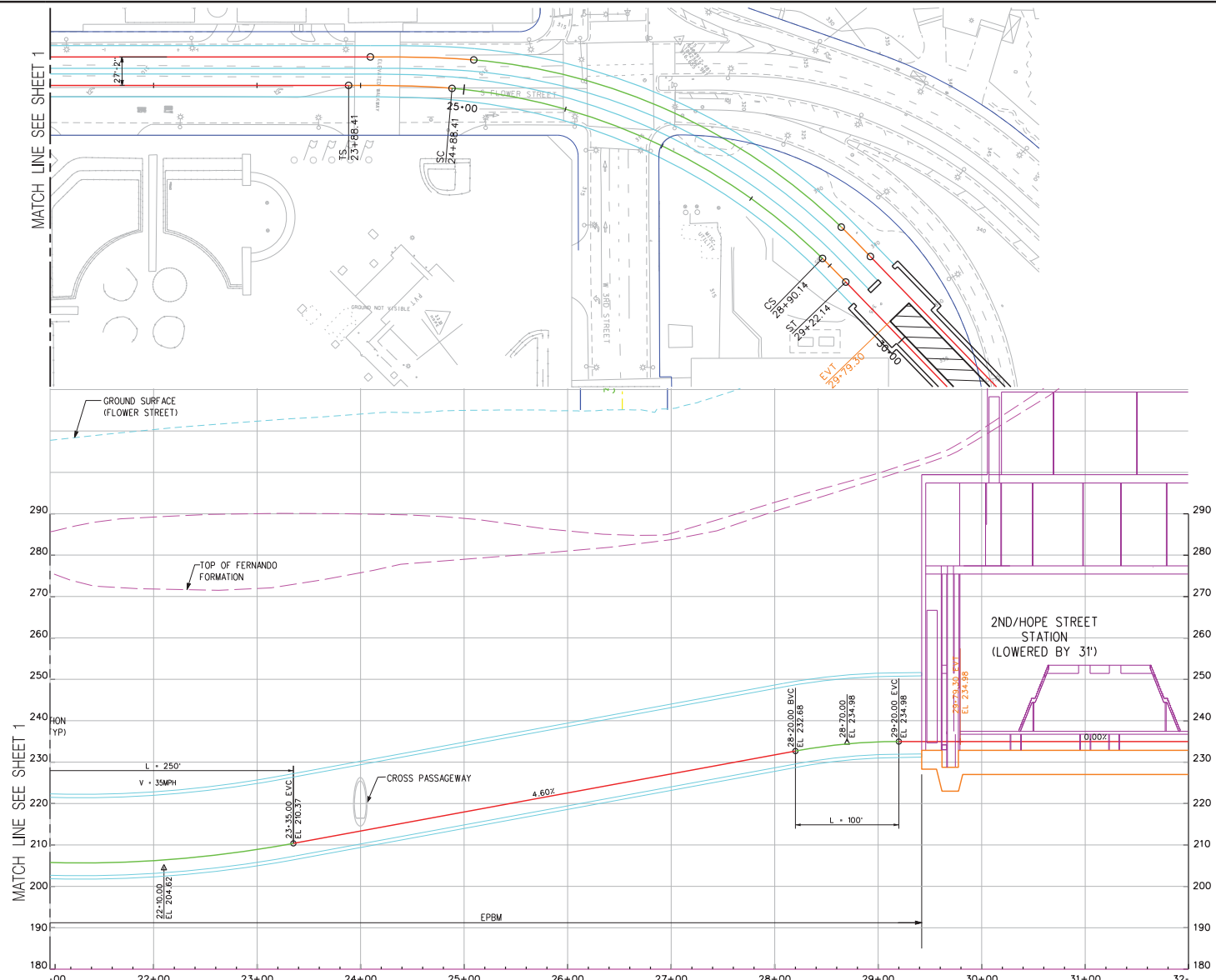
LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

REGIONAL CONNECTOR TRANSIT CORRIDOR  
 FLOWER STREET  
 RE EVALUATION  
 OPTION 5  
 SEM LOW ALIGNMENT ALTERNATIVE

CONTRACT NO	
DRAWING NO	
SCALE	
SHEET NO	1 OF 2

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 MATCH LINE SEE SHEET 2  
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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL	HOLDER	DESCRIPTION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
IN CHARGE	
DATE	8/22/2013


**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**

777 S. FIGUEROA STREET  
 10TH FLOOR  
 LOS ANGELES, CA 90017  
 T 213-312-3100  
 F 213-312-3114

**REGIONAL CONNECTOR TRANSIT CORRIDOR**  
**FLOWER STREET**  
**RE EVALUATION**  
**OPTION 5**  
**SEM LOW ALIGNMENT ALTERNATIVE**

CONTRACT NO	
DRAWING NO	
SCALE	
SHEET NO	2 OF 2

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