

NOTE:  
FOR NOTES SEE DWG. C-001.  
BASE PROJECT

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 Plot Driver=pdf\_11x17\_rev1.plt

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

FOR REVIEW  
ONLY NOT FOR  
CONSTRUCTION  
LEE W ABRAMSON  
C44285

LOS ANGELES COUNTY METROPOLITAN  
TRANSPORTATION AUTHORITY  

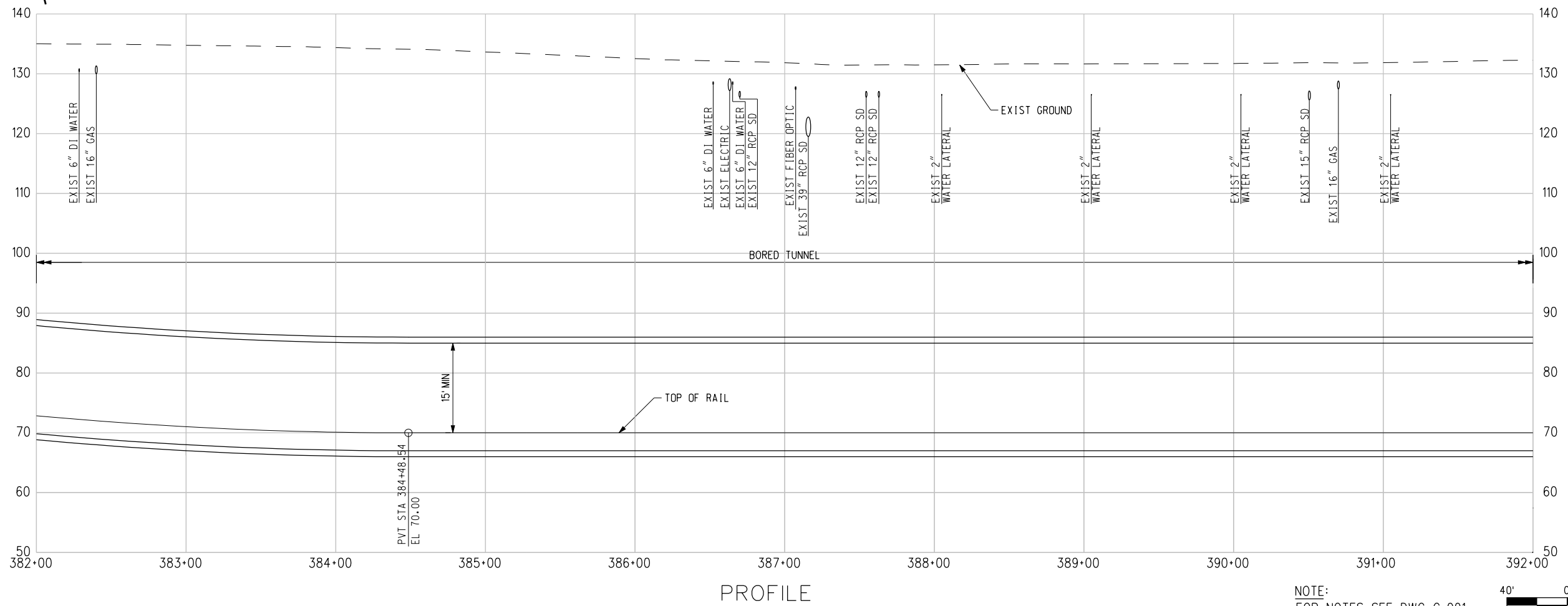
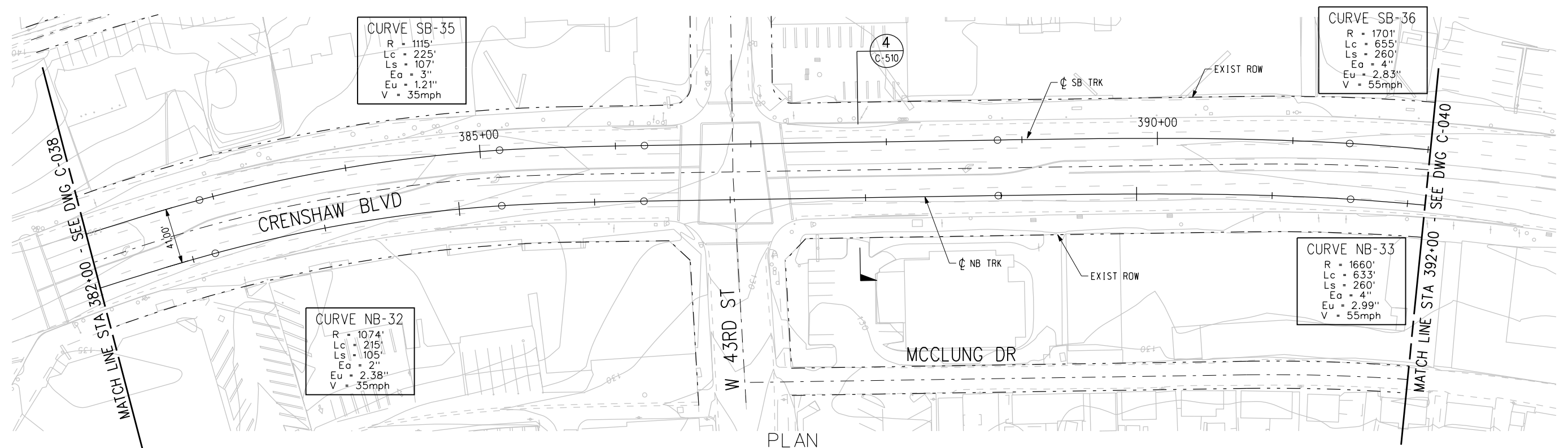
 6151 W. Century Blvd.  
Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

CONTRACT NO  
E0117  
 DRAWING NO  
C-038  
 SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 10'  
 SHEET NO  
169

THE PREPARATION OF THIS  
DRAWING HAS BEEN FINANCED IN  
PART THROUGH A GRANT FROM  
THE U.S. DEPARTMENT OF  
TRANSPORTATION, FEDERAL TRANSIT  
ADMINISTRATION (FTA), UNDER THE  
FEDERAL TRANSIT ACT OF 1964, AS  
AMENDED, AND IN PART BY THE  
TAXES OF THE CITIZENS OF  
LOS ANGELES COUNTY AND OF  
THE STATE OF CALIFORNIA.

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 Plot Driver=pdf\_11x17\_rev1.plt



NOTE:  
 FOR NOTES SEE DWG. C-001.  
 BASE PROJECT

40' 0 40' 80'

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART 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

DESIGNED BY  
 T. TAPPAN  
 DRAWN BY  
 A. GIBBONS  
 CHECKED BY  
 D. DALI  
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 G. HEAD  
 DATE  
 12-10-10

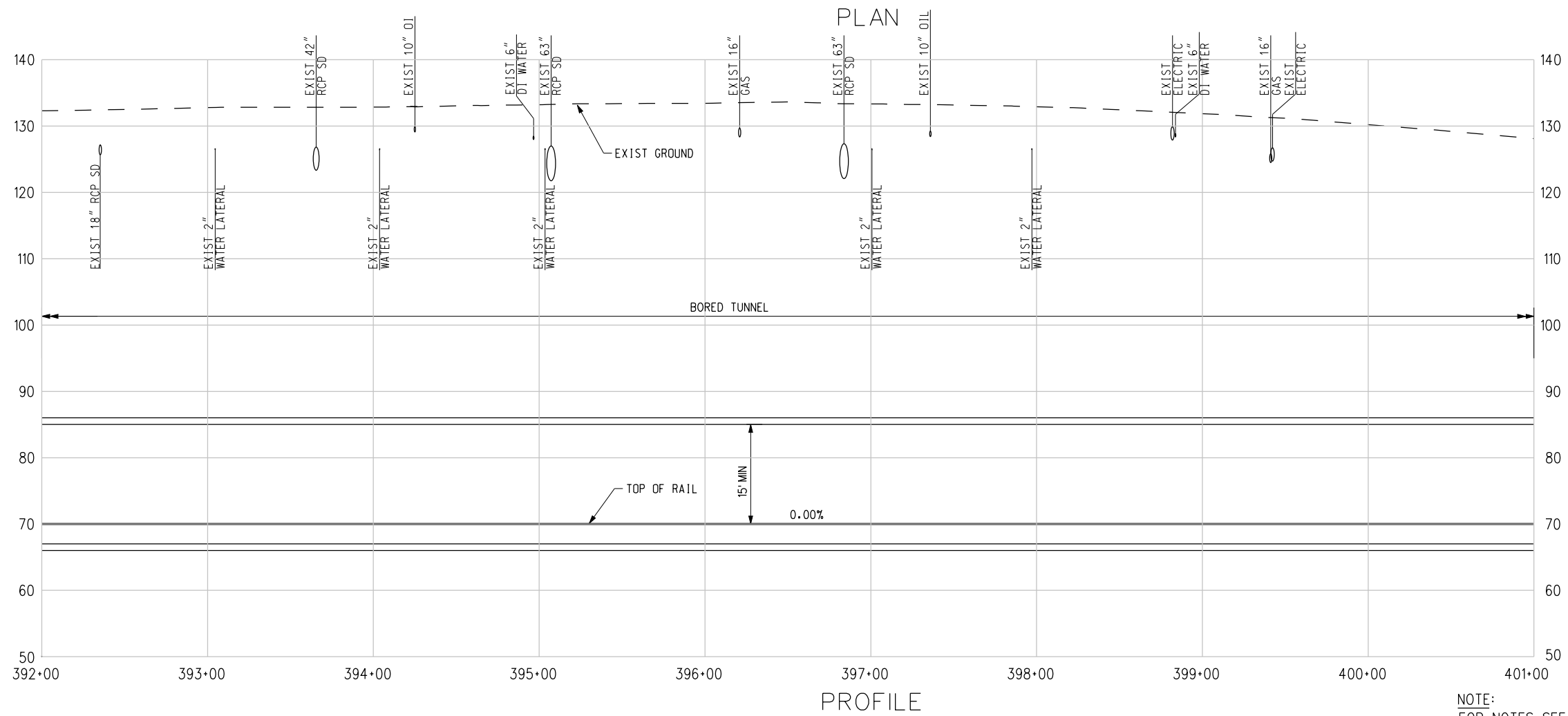
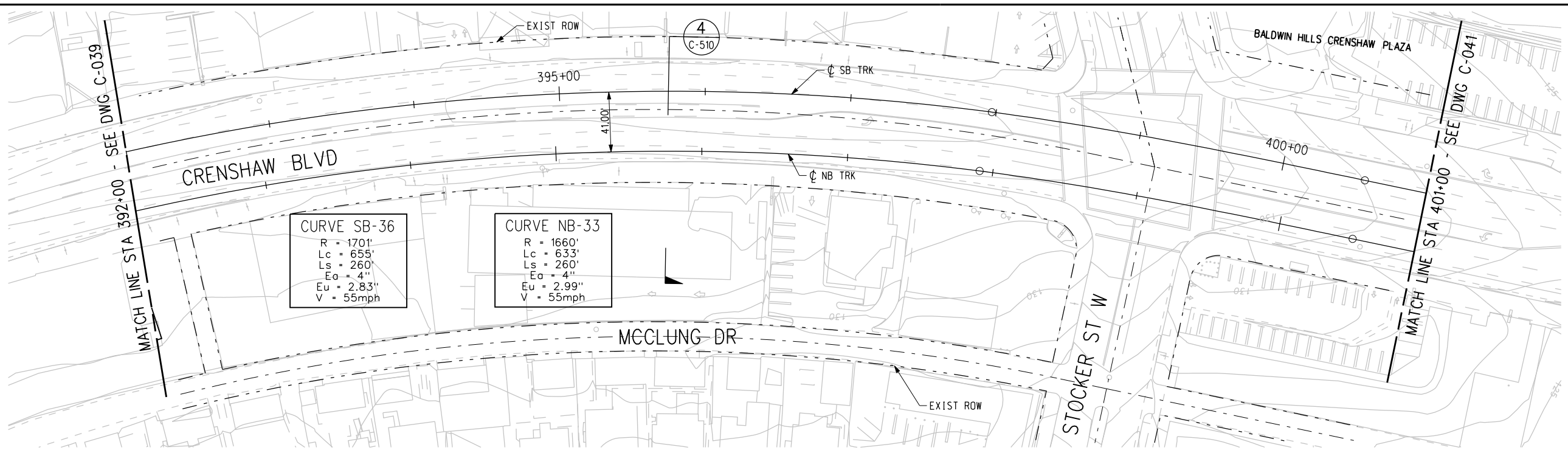
FOR REVIEW ONLY NOT FOR CONSTRUCTION  
 LEE W ABRAMSON  
 C44285

**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
**Hatch Mott MacDonald**  
 6151 W. Century Blvd. Suite 800  
 Los Angeles, CA 90045  
 Phone: 310-337-0500  
 Fax: 310-337-0042  
**PATTERSON & ASSOCIATES, INC.**  
 CIVIL-TRANSPORTATION ENGINEERING  
 725 TOWN & COUNTRY RD SUITE 300  
 ORANGE, CA 92868

**CRENSHAW/LAX TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
 STA 382+00 TO STA 392+00

CONTRACT NO	E0117
DRAWING NO	C-039
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	170

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NOTE:  
FOR NOTES SEE DWG. C-001.  
BASE PROJECT



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART 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

DESIGNED BY  
T. TAPPAN  
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A. GIBBONS  
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D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

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C44285

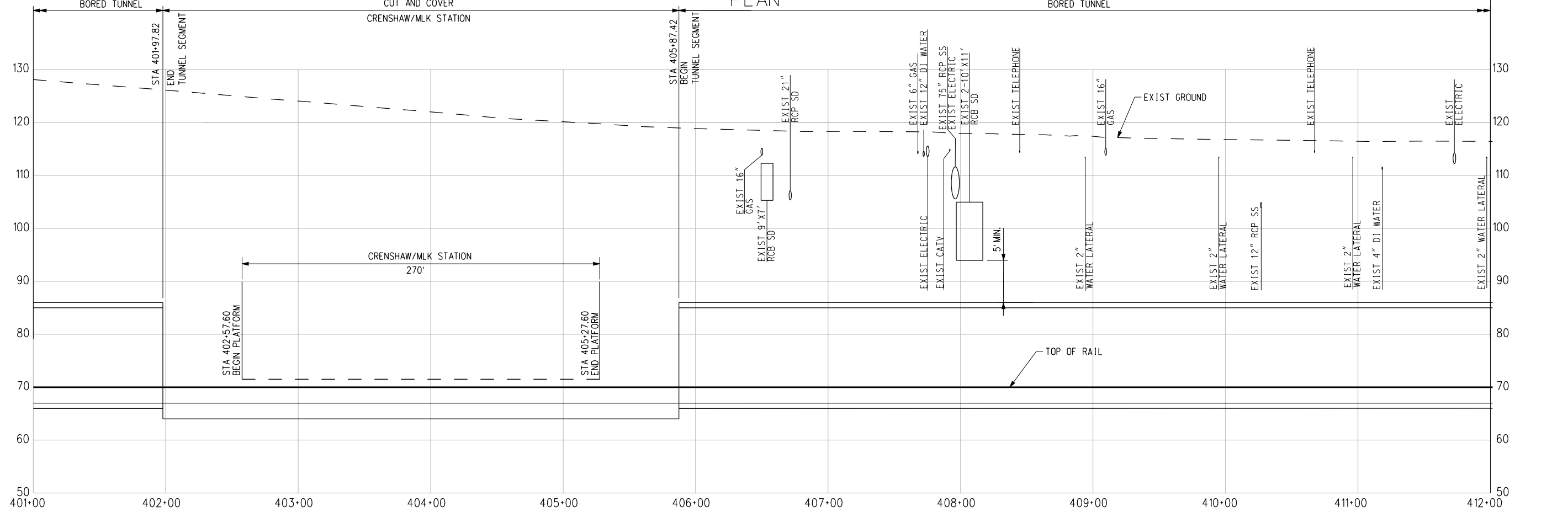
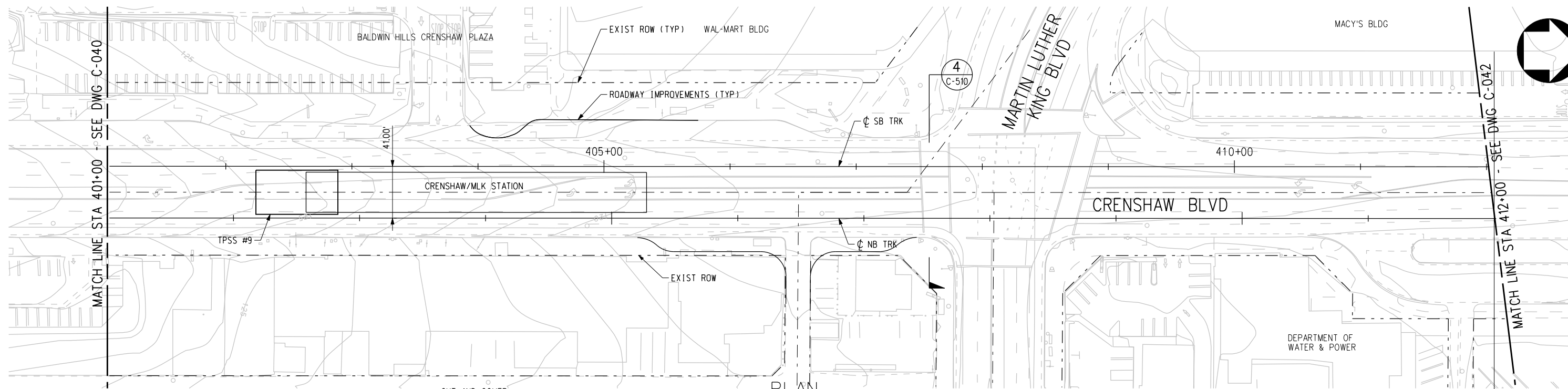
LOS ANGELES COUNTY METROPOLITAN  
TRANSPORTATION AUTHORITY

6151 W. Century Blvd.  
Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

CONTRACT NO  
**E0117**  
 DRAWING NO  
**C-040** REV  
**0**  
 SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 10'  
 SHEET NO  
**171**

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PROFILE

NOTE: FOR NOTES SEE DWG. C-001.  
BASE PROJECT

40' 0 40' 80'

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
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12-10-10

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LEE W ABRAMSON  
C44285

**LOS ANGELES COUNTY METROPOLITAN  
TRANSPORTATION AUTHORITY**

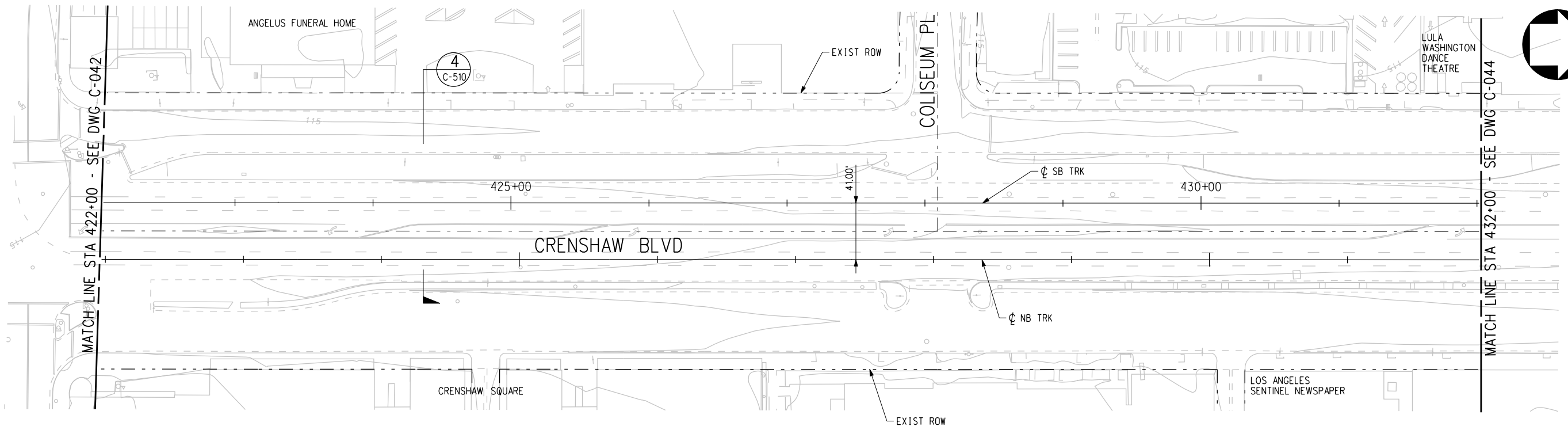
6151 W. Century Blvd.  
Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

**PATTERSON  
& ASSOCIATES, INC.**  
 CIVIL-TRANSPORTATION ENGINEERING  
 725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

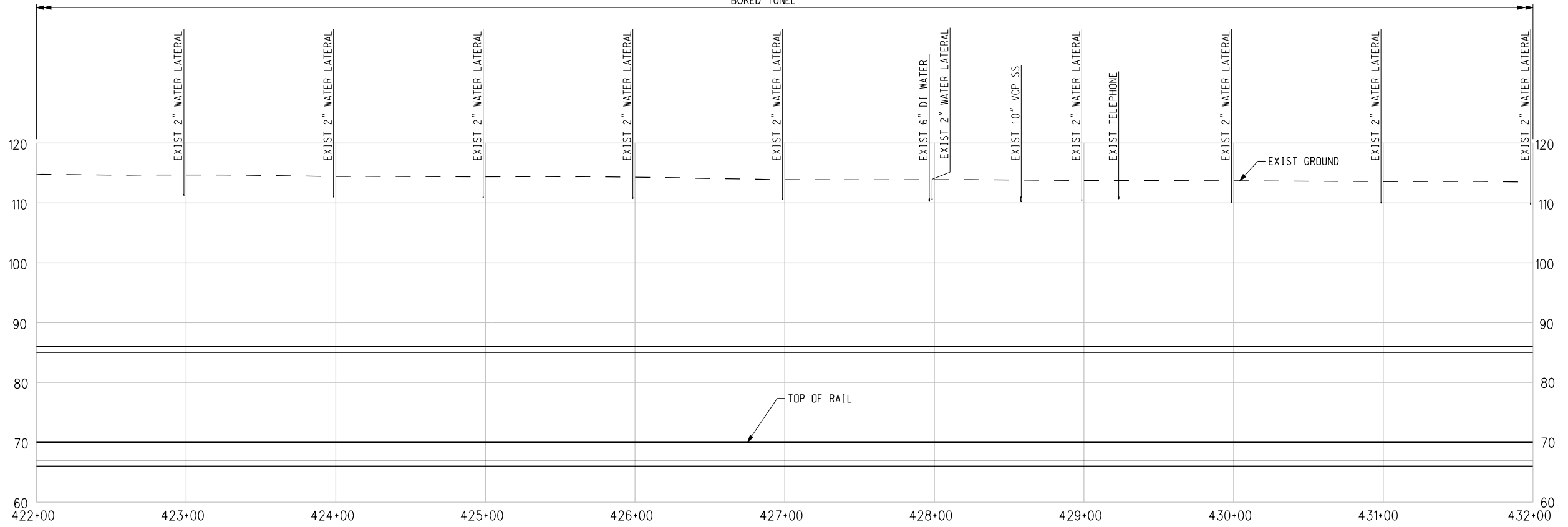
**CRENSHAW/LAX  
TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
 STA 401+00 TO STA 412+00

CONTRACT NO <b>E0117</b>	
DRAWING NO <b>C-041</b>	REV <b>0</b>
SCALE HORIZ: 1" = 40' VERT: 1" = 10'	
SHEET NO <b>172</b>	





PLAN  
BORED TUNNEL



PROFILE

NOTE:  
FOR NOTES SEE DWG. C-001.  
BASE PROJECT

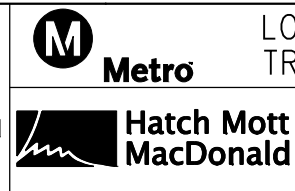


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THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.						
REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY T. TAPPEN
DRAWN BY A. GIBBONS
CHECKED BY D. DALI
IN CHARGE G. HEAD
DATE 12-10-10

FOR REVIEW  
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C44285



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TRANSPORTATION AUTHORITY

6151 W. Century Blvd.  
Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

PATTERSON & ASSOCIATES, INC.  
725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

CONTRACT NO  
**E0117**

DRAWING NO  
**C-043**

SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 10'

SHEET NO  
**174**

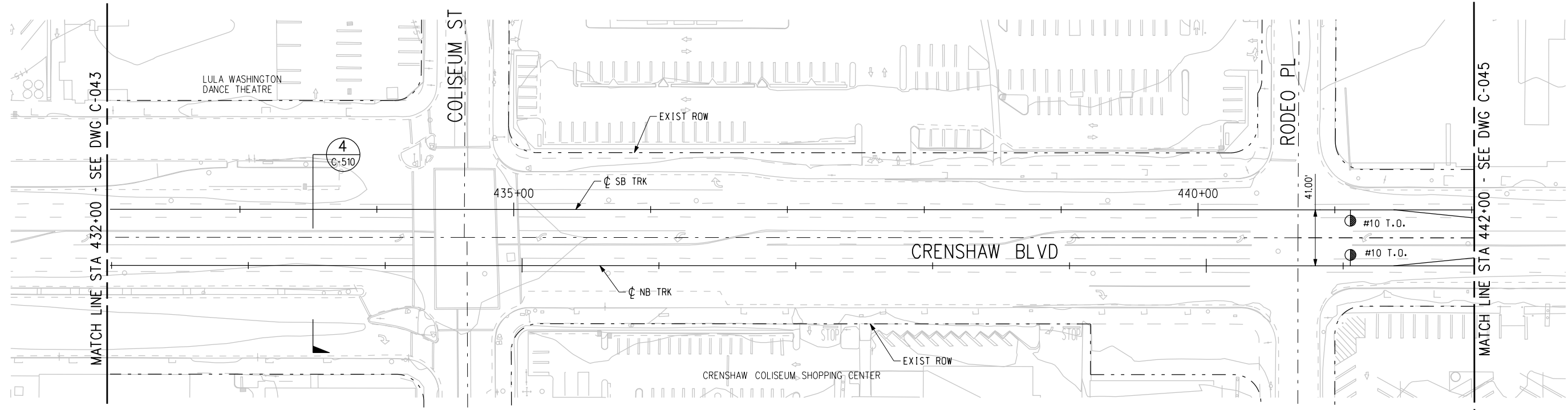
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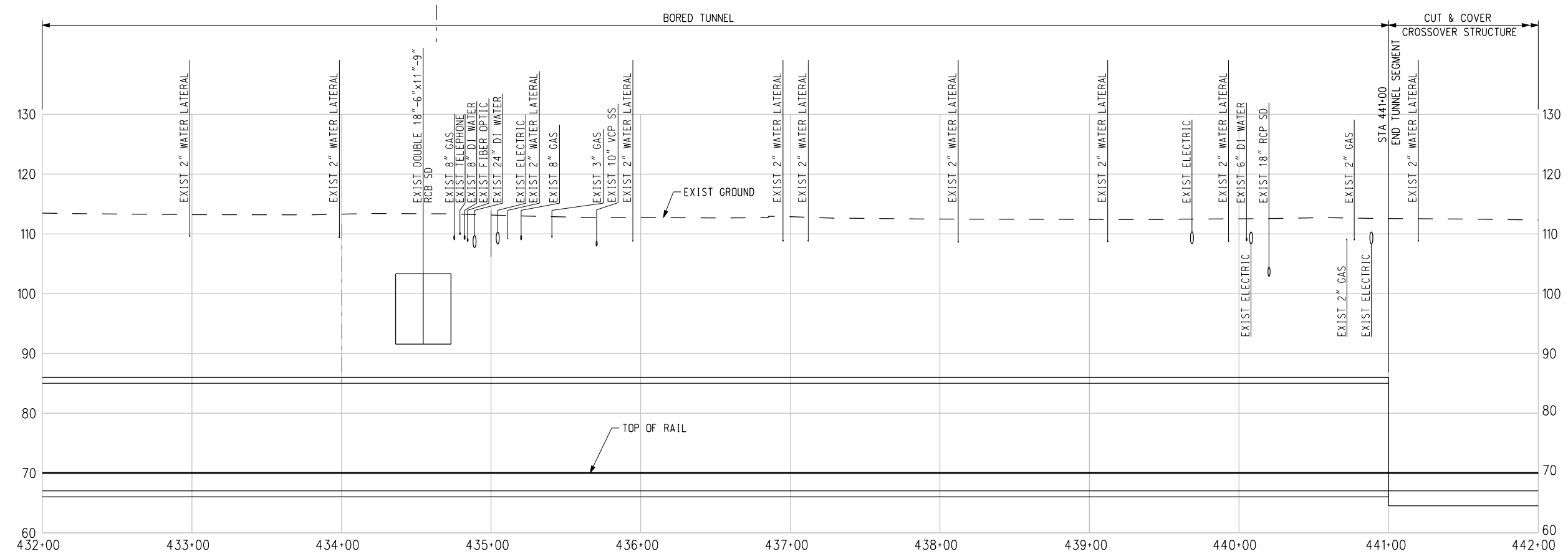
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PLAN



PROFILE

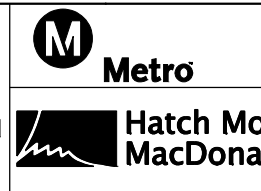
NOTE:  
FOR NOTES SEE DWG. C-001.  
BASE PROJECT



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
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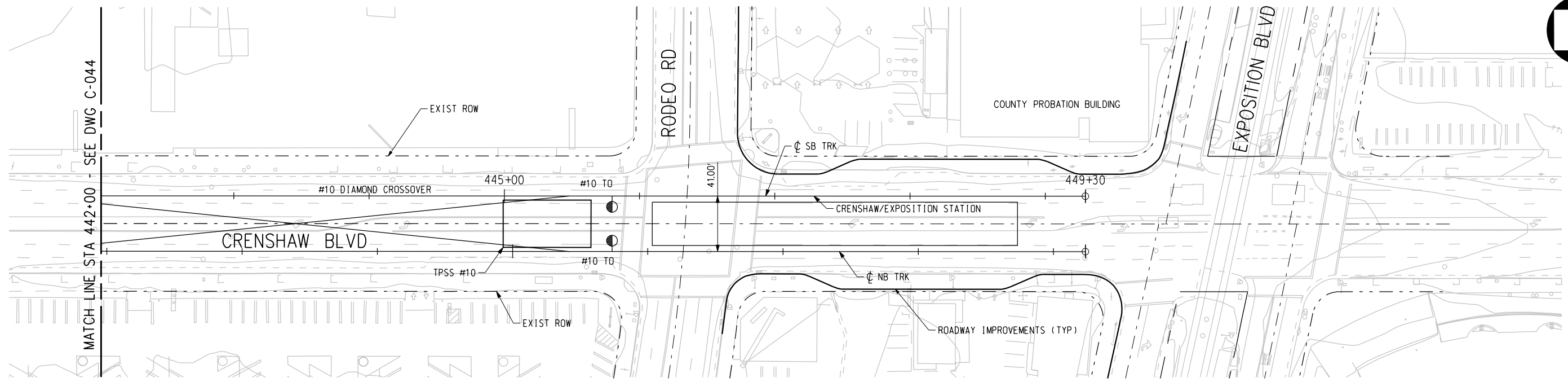
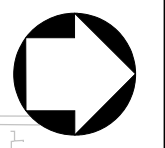


LOS ANGELES COUNTY METROPOLITAN  
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6151 W. Century Blvd.  
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Fax: 310-337-0042  
PATTERSON & ASSOCIATES, INC.  
725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

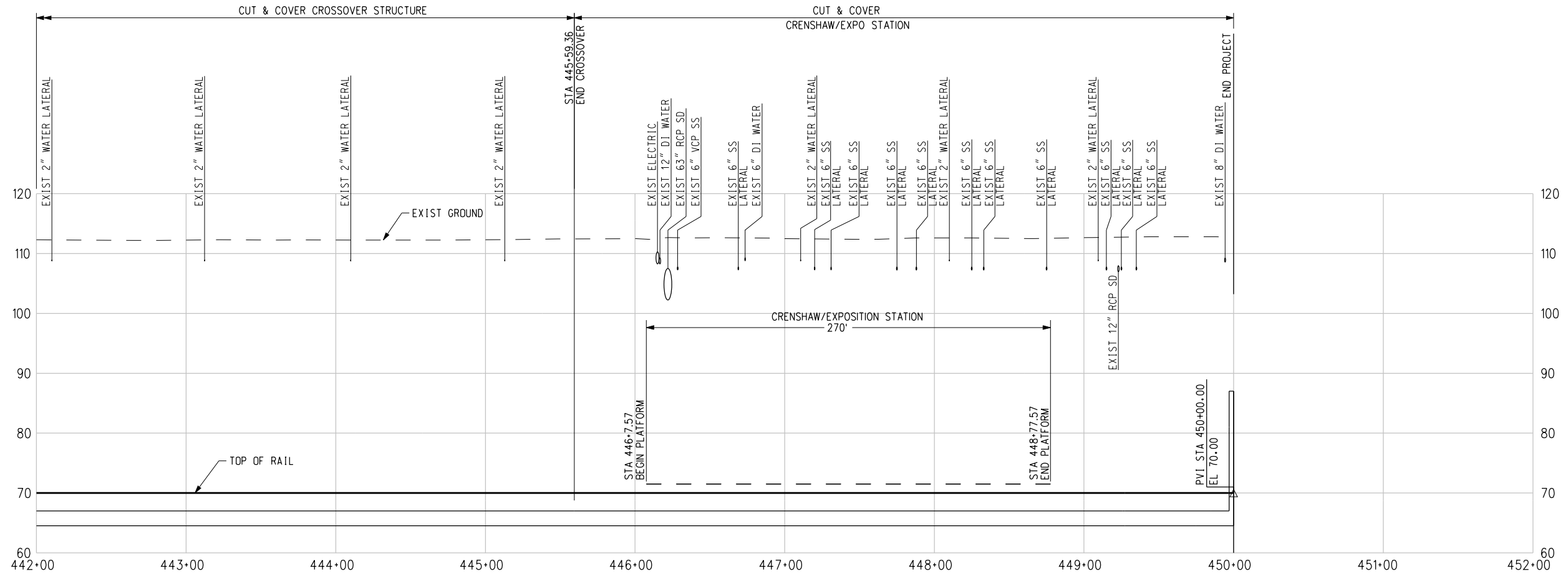
CRENSHAW/LAX  
TRANSIT CORRIDOR PROJECT  
PLAN & PROFILE  
STA 432+00 TO STA 442+00

CONTRACT NO	E0117
DRAWING NO	C-044
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	175

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PLAN



PROFILE

NOTE:  
FOR NOTES SEE DWG. C-001.  
BASE PROJECT



REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

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**LOS ANGELES COUNTY METROPOLITAN  
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ORANGE, CA 92868

**CRENSHAW/LAX  
TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
 STA 442+00 TO STA 450+00

CONTRACT NO	E0117
DRAWING NO	C-045
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	176

Plot Driver = pdf\_11x17\_rev1.plt  
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SB SECTION 1												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
#8 RHTO	PS	N88°53'06"W	31.60	7+55.00	1796970.436	6447103.559						
	PITO	N81°44'06"W	58.46	7+86.60	1796971.050	6447071.966						
	PC			8+45.06	1796979.454	6447014.116						
2300	PI			1797016.629	6446758.190	19°19'05"	298.00	81°54'16"	423.98	258.61		Ea= 0" Eu= 2.89"
	PT	N00°10'10"E	310.94	12+69.03	1797275.239	6446758.955						V= 15 MPH
	PS	N00°10'10"E	31.60	15+79.97	1797586.176	6446759.873						
#8 RHTO	PS	N00°10'10"E	1990.47	16+11.57	1797617.775	6446759.966						
	PITO	N00°10'10"E	31.50	36+02.04	1799608.236	6446765.893						
	PC			36+33.54	1799639.739	6446765.943						
#10 RHTO	PS	N00°10'10"E	172.47	38+06.01	1799812.205	6446766.453						
	PITO	N00°10'10"E	31.50	38+37.51	1799843.705	6446766.546						
	PC			55+41.57	1801547.759	6446771.583						
SB-01	TS	N00°10'10"E	1704.06	56+41.57	1801647.758	6446771.665						Ea= 1/2" Eu= 0.10"
	SC		100.00		1801698.025	6446771.492	0°43'57"	7822.03	0°44'11"	100.53	50.27	V= 35 MPH
	PI			57+42.10	1801748.285	6446770.674						
SB-02	CS		100.00	58+42.10	1801848.264	6446768.619						
	ST	N01°17'58"W	120.00	59+62.10	1801968.234	6446765.897						
	SC		100.00	60+62.10	1802068.213	6446763.842						
SB-03	PI			61+62.66	1802168.769	6446762.823						Ea= 1/2" Eu= 0.10"
	PT	N00°10'10"E	8.15	62+62.66	1802268.769	6446762.934						V= 35 MPH
	PS	N00°10'10"E	31.42	62+70.81	1802276.914	6446762.957						
#10 LHTO	PITO	N00°10'10"E	432.69	63+02.23	1802308.334	6446763.050						
	PS	N00°10'10"E	31.50	67+34.92	1802741.018	6446764.331						
	PC			67+66.42	1802772.518	6446764.424						
SB-04	TS	N00°10'10"E	456.49	72+22.91	1803229.008	6446765.775						Ea= 1/2" Eu= 0.60"
	SC		100.00	73+22.91	1803329.005	6446766.464						V= 35 MPH
	PI			74+22.64	1803428.697	6446769.102	1°20'53"	4249.99	1°20'40"	99.73	49.87	
#10 RHTO	PS	N02°51'44"E	62.58	75+22.63	1803528.591	6446773.703						
	PITO	N02°51'44"E	31.42	75+85.21	1803591.092	6446776.828						
	PC			76+16.63	1803622.473	6446778.397						
SB-05	TS	N02°51'44"E	10.00	76+26.63	1803632.459	6446778.897						Ea= 1/2" Eu= 0.60"
	SC		100.00	77+26.63	1803732.352	6446783.498						V= 35 MPH
	PI			78+26.36	1803832.048	6446786.136	1°20'53"	4249.99	1°20'40"	99.73	49.87	
#10 RHTO	PS	N00°10'10"E	122.00	79+26.36	1803932.045	6446786.824						
	PITO	N00°10'10"E	31.50	80+48.36	1804054.043	6446787.185						
	PC			80+79.86	1804085.543	6446787.279						
SB-06	TS	N00°10'10"E	300.40	83+36.59	1804342.273	6446788.038						Ea= 1/2" Eu= 0.39"
	SC		100.00	84+36.59	1804442.270	6446788.652						V= 35 MPH
	PI			85+37.19	1804542.840	6446790.871	1°05'29"	5249.95	1°05'52"	100.59	50.30	
SB-07	CS		100.00	86+37.19	1804642.768	6446794.669						
	ST	N02°21'31"E	100.00	87+37.19	1804742.681	6446798.785						
	SC		100.00	88+37.19	1804842.608	6446802.583						
SB-08	PI			88+37.19	1804892.880	6446804.175	1°05'29"	5249.95	1°05'52"	100.59	50.30	
	PT	N00°10'10"E	647.98	89+37.78	1804943.174	6446804.802						
	PS	N00°10'10"E	31.50	90+37.77	1805043.171	6446805.416						
SB-09	PITO	N00°10'10"E	1126.83	96+85.75	1805691.140	6446807.335						
	PS	N00°10'10"E	31.50	97+17.25	1805722.639	6446807.428						
	PC			108+44.08	1806849.470	6446810.763						
SB-10	TS	N00°10'10"E	300.40	108+75.58	1806880.970	6446810.856						Ea= 1/2" Eu= 2.08"
	SC		100.00	111+75.98	1807181.367	6446811.744						V= 35 MPH
	PI			112+75.98	1807281.343	6446813.488	4°58'42"	1151.28	25°14'03"	506.88	257.70	
SB-11	CS		100.00	117+82.86	1807766.532	6446945.992						
	ST	N30°22'49"E	370.01	118+82.86	1807853.516	6446995.308						
	SC		100.00	122+52.87	1808172.714	6447182.433						
SB-12	PI			123+52.87	1808257.908	6447234.764						Ea= 2-1/2" Eu= 0.47"
	PT	N64°44'28"E	646.57	127+37.81	1808515.386	6447516.352	7°05'11"	809.03	27°16'44"	384.94	196.32	V= 25 MPH
	PS			128+37.81	1808559.903	6447605.877						
POE			134+84.38	1808835.798	6448190.625							

SB2 SECTION 2												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
SB-09	PDB			135+00.00	1808835.798	6448190.625						
	TS	N64°44'30"E	838.11	143+38.11	1809193.420	6448948.603						
	SC		100.00	144+38.11	1809237.029	6449038.588						Ea= 2-1/2" Eu= 0.44"
SB-10	PI			1809260.913	6449085.362	3°35'04"	1598.70	3°45'47"	104.98	52.52		V= 35 MPH
	CS		100.00	145+43.09	1809287.815	6449130.467						
	ST	N57°23'41"E	108.53	146+43.09	1809340.814	6449215.257						
SB-11	TS		100.47	147+51.62	1809399.300	6449306.690						Ea= 2-1/2" Eu= 0.60"
	SC		100.47	148+52.09	1809452.494	6449391.912						V= 35 MPH
	PI			151+38.74	1809525.910	6449515.538	3°47'06"	1514.00	10°51'00"	286.65	143.78	
SB-12	CS		100.47	152+39.21	1809606.764	6449745.993						
	ST	N72°02'48"E	111.24	153+50.45	1809641.055	6449851.823						
	SC		100.01	154+50.46	1809672.865	6449946.635						Ea= 2-1/2" Eu= 0.42"
SB-13	PI			1809690.599	6449996.069	3°33'50"	1607.91	3°44'30"	104.98	52.52		V= 35 MPH
	CS		100.01	155+55.45	1809711.522	6450044.240						
	ST	N64°44'29"E	708.31	156+55.46	1809753.255	6450135.123						
#10 LHTO	PS	N64°44'29"E	31.50	163+63.77	1810055.492	6450775.716						
	PITO	N64°44'29"E	10.00	163+95.27	1810068.933	6450804.205						
	PC			164+05.27	1810073.200	6450813.249						
SB-14	TS	N64°44'29"E	218.60	164+36.77	1810086.642	6450841.737						
	SC		210.00	166+55.37	1810179.921	6451039.433						Ea= 4" Eu= 1.6"
	PI			168+65.37	1810264.644	6451231.525	4°10'04"	1375.00	21°49'22"	523.59	265.07	V= 45 MPH
SB-15	CS		210.00	173+88.96	1810359.131	6451479.178						
	ST	S84°41'07"E	465.60	175+98.96	1810340.665	6451953.679						
	SC		210.00	180+64.56	1810297.536	6452417.280						
SB-16	PS	S84°41'07"E	10.00	180+96.06	1810294.618	6452448.645						
	PITO	S84°41'07"E	31.50	181+06.06	1810293.692	6452458.602						
	PC			181+37.56	1810290.775	6452489.967						
SB-17	TS	S84°41'07"E	293.76	181+37.56	1810290.775	6452489.967						Ea= 3" Eu= 2.36"
	SC		190.00	184+31.32	1810263.565	6452782.460						V= 35 MPH
	PI			186+21.32	1810239.169	6452970.787						
SB-18	CS		190.00	187+27.39	1810228.565	6453022.844	6°31'45"	878.00	6°55'31"	106.07	53.13	
	ST		190.00	189+17.39	1810138.866	6453248.596						
	SC	S65°21'40"E	137.05	190+54.44	1810081.730	6453373.169						
SB-19	PI			191+54.45	1810041.335	6453464.648						Ea= 3" Eu= 1.01"
	PT		100.00	197+52.39	1809925.836	6453747.703	4°53'01"	1173.57	29°12'06"	597.95	305.71	V= 35 MPH
	PS		100.00	198+52.39	1809980.710	6454149.510						
SB-20	TS		100.00	199+52.39	1809995.802	6454210.167						Ea= 3" Eu= 0.79"
	SC		100.00	199+76.87								

SB SECTION 2 (CONT.)

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
SB-20	TS		100.00	244+81.21	1812522.428	6457923.682						Ea= 1" Eu= 0.74" V= 55 MPH
	SC			245+81.21	1812571.420	6458010.858						
	PI				1812598.620	6458058.699	0°51'24"	6688.00	0°56'34"	110.06	55.03	
	CS		100.00	246+91.28	1812626.605	6458106.086						
	ST	N59°00'28"E	299.46	247+91.28	1812677.883	6458191.938						
SB-21	TS		100.00	250+90.74	1812832.085	6458448.651						Ea= 1" Eu= 0.81" V= 55 MPH
	SC			251+90.74	1812883.354	6458534.508						
	PI				1812909.020	6458578.003	0°53'43"	6399.58	0°54'16"	101.00	50.50	
	CS		100.00	252+91.74	1812933.997	6458621.898						
	ST	N60°48'26"E	336.00	253+91.74	1812982.999	6458709.069						
SB-22	PC			257+27.74	1813146.882	6459002.391						Ea= 0" Eu= 0.38" V= 55 MPH
	PI				1813195.658	6459089.690	0°11'16"	30516.95	0°22'32"	200.00	100.00	
	PT			259+27.74	1813245.004	6459176.667						
SB-23	PC		105.00	260+32.74	1813296.817	6459267.993						Ea= 0" Eu= 0.38" V= 55 MPH
	PI				1813346.163	6459354.970	0°11'15"	30541.69	0°22'31"	200.00	100.00	
	PT	N60°48'25"E	80.10	262+32.74	1813394.939	6459442.269						
#10 RHTO	PITO	N60°48'25"E	31.50	263+12.84	1813434.003	6459512.186						Ea= 1" Eu= 0.32" V= 55 MPH
	PS	N60°48'25"E	522.07	263+44.34	1813449.367	6459539.685						
	TS		105.00	268+66.41	1813704.013	6459995.451						
	SC			269+71.41	1813755.027	6460087.225						
	PI				1813780.334	6460133.224	0°42'53"	8017.52	0°45'01"	105.00	52.50	
SB-24	TS		105.00	270+76.41	1813805.036	6460179.551						Ea= 1" Eu= 0.32" V= 55 MPH
	SC			271+81.41	1813854.035	6460272.417						
	PI			272+86.41	1813902.831	6460365.390						
	CS	N62°18'28"E	105.00	273+91.41	1813951.829	6460458.256						
	ST			274+96.41	1814001.838	6460550.581						
SB-25	TS		105.00	276+01.41	1814052.852	6460642.355						Ea= 1" Eu= 0.32" V= 55 MPH
	SC			277+06.41	1814101.838	6460735.330						
	PI				1814151.801	6460828.305	0°42'53"	8017.52	0°45'01"	105.00	52.50	
	CS		105.00	278+45.01	1814171.669	6460855.013						
	ST	N60°48'25"E	243.60	278+76.51	1814187.033	6460882.512						
#10 RHTO	PITO	N60°48'25"E	167.73	280+44.24	1814268.844	6461028.938						Ea= 2" Eu= 2.85" V= 25 MPH
	PS	N60°48'25"E	145.00	281+89.24	1814345.587	6461151.801						
	TS			285+65.93	1814662.638	6461339.135						
	SC			287+10.93	1814807.281	6461347.082						
	PI				1814466.577	6461308.995	11°35'41"	495.00	43°40'32"	376.69	198.36	
SB-26	CS		145.00	300+02.67	1816099.000	6461354.922						Ea= 2" Eu= 2.85" V= 25 MPH
	ST											
	POE	N00°20'52"E	1291.74									

SB SECTION 3

CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
SB-27	POB			300+00.00	1816099.000	6461354.922						Ea= 0" Eu= 0.55" V= 55 MPH
	PC		1384.13	313+84.13	1817483.103	6461363.322						
	PI	N00°20'52"E			1817539.943	6461363.667	0°16'22"	21000.96	0°18'37"	113.68	56.84	
	PT			314+97.81	1817596.784	6461363.705						
	PS	N00°02'15"E	135.00	316+32.81	1817731.784	6461363.793						
SB-28	PC			317+47.35	1817846.325	6461364.230						Ea= 0" Eu= 0.64" V= 55 MPH
	PI				1817789.055	6461363.831	0°18'56"	18149.96	0°21'42"	114.54	57.27	
	PT			317+47.35	1817846.325	6461364.230						
	PS	N00°23'57"E	776.60	325+23.95	1818622.906	6461369.640						
	PITO	N00°23'57"E	31.50	325+55.45	1818654.406	6461369.860						
#10 RHTO	PITO	N00°23'57"E	247.17	328+02.62	1818901.563	6461371.582						Ea= 0" Eu= 0.97" V= 55 MPH
	PS	N00°23'57"E	31.50	328+34.12	1818933.062	6461371.801						
	TS			328+47.35	1818946.296	6461371.894						
	SC			330+57.07	1819051.155	6461372.624	0°28'39"	11999.98	1°00'05"	209.72	104.86	
	PI				1819155.986	6461375.187						
SB-29	PC		105.00	331+62.07	1819260.954	6461377.753						Ea= 0" Eu= 0.97" V= 55 MPH
	PI				1819365.785	6461380.316	0°28'39"	11999.98	1°00'05"	209.72	104.86	
	PT			333+71.78	1819470.644	6461381.047						
	PS	N00°23'57"E	2693.54	360+65.32	1822164.118	6461399.813						
	PITO	N00°23'57"E	31.50	361+70.32	1822269.117	6461400.232						
SB-30	PC			362+75.32	1822374.117	6461400.339						Ea= 0" Eu= 0.66" V= 55 MPH
	PI				1822426.617	6461400.392	0°19'29"	17639.92	0°20'28"	105.00	52.50	
	PT			363+80.32	1822479.116	6461400.758						
	PS	N00°03'29"E	105.00	366+20.32	1822719.110	6461402.430						
	PITO	N00°03'29"E	105.00	367+25.32	1822824.106	6461402.182						
SB-31	TS		240.00	373+40.55	1823134.477	6461395.659	3°03'15"	1876.24	18°47'24"	615.23	310.44	Ea= 2" Eu= 0.50" V= 35 MPH
	SC				1823426.205	6461289.513						
	PI											
	CS			184.48								
	POE											

SB SECTION 3 (CONT.)

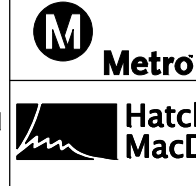
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
SB-34	SC			375+25.03	1823595.707	6461216.975						Ea= 2" Eu= 1.46" V= 35 MPH
	PI				1823794.180	6461117.152	4°13'05"	1358.67	18°34'23"	440.33	222.16	
	CS		115.00	379+65.36	1823950.521	6460959.312						
	ST			380+80.35	1824029.103	6460875.367						
	TS	N47°41'53"W	102.39	381+82.74	1824098.012	6460799.641						
SB-35	SC		106.99	382+89.73	1824171.266	6460721.684						Ea= 3" Eu= 1.21" V= 35 MPH
	PI				1824251.094	6460641.997	5°08'28"	1114.84	11°33'16"	224.75	112.79	
	CS		106.99	385+14.47	1824345.266	6460579.916						
	ST			386+21.46	1824436.417	6460523.924						
	TS	N30°38'43"W	260.53	388+81.99	1824660.566	6460391.123						
SB-36	SC		260.00	391+41.99	1824887.499	6460264.369						Ea= 4" Eu= 2.83" V= 55 MPH
	PI				1825184.949	6460117.577	3°22'08"	1701.00	22°04'07"	655.08	331.70	
	CS			397+97.08	1825515.759	6460093.297						
	ST		260.00	400+57.08	1825775.626	6460087.498						
	PS	N00°10'52"E	4054.28	441+11.36	1829829.891	6460100.318						
#10 RHTO	PITO	N00°10'52"E	31.50	441+42.86	1829861.390	6460100.418						Ea= 4" Eu= 2.83" V= 55 MPH
	PS	N00°10'52"E	405.35	445+48.21	1830266.737	6460101.700						
	TS			445+79.71	1830298.237	6460101.799						
	SC			449+54.71	1830673.235	6460102.985						
	POE											

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART 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  
T. TAPAN  
DRAWN BY  
M. WHITE  
CHECKED BY  
D. DALI  
IN CHARGE  
G. HEAD  
DATE  
12-10-10

FOR REVIEW ONLY NOT FOR CONSTRUCTION  
LEE W ABRAMSON  
C44285



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY  
6151 W. Century Blvd. Suite 800 Los Angeles, CA 90045 Phone: 310-337-0500 Fax: 310-337-0042  
PATTERSON & ASSOCIATES, INC. CIVIL/TRANSPORTATION ENGINEERING 725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868

BASE PROJECT  
CRENSHAW/LAX TRANSIT CORRIDOR PROJECT  
GEOMETRY TABLES  
SHEET 2 OF 5  
SOUTHBOUND LRT & TR3  
CONTRACT NO E0117  
DRAWING NO C-048 REV 0  
SCALE HORIZ: 1"= 40' VERT: 1"= 10'  
SHEET NO 179

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NB SECTION 1

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for NB SECTION 1 curves #8 to NB-06.

NB SECTION 2

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for NB SECTION 2 curves NB-07 to NB-18.

BASE PROJECT

CRENSHAW/LAX TRANSIT CORRIDOR PROJECT GEOMETRY TABLES SHEET 3 OF 5 NORTHBOUND LRT

CONTRACT NO E0117 DRAWING NO C-049 REV 0 SCALE HORIZ: 1"= 40' VERT: 1"= 10' SHEET NO 180

THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART BY THE TAXES OF THE CITIZENS OF LOS ANGELES COUNTY AND OF THE STATE OF CALIFORNIA.

DESIGNED BY T. TAPAN DRAWN BY M. WHITE CHECKED BY D. DALI IN CHARGE G. HEAD DATE 12-10-10

FOR REVIEW ONLY NOT FOR CONSTRUCTION LEE W ABRAMSON C44285



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

6151 W. Century Blvd. Suite 800 Los Angeles, CA 90045 Phone: 310-337-0500 Fax: 310-337-0042



725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868



725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868

Table with 7 columns: REV, DATE, BY, APP, REG NO, EXPIRES, SEAL HOLDER, DESCRIPTION

NB SECTION 2 (CONT.)												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
NB-19	TS		100.00	250+99.68	1812820.084	6458455.859						Ea= 1" Eu= 0.82" V= 55 MPH
	SC			251+99.68	1812871.352	6458541.717						
	PI				1812896.906	6458585.023	0°53'50"	6385.58	0°54'08"	100.56	50.28	
	CS		100.00	253+00.25	1812921.775	6458628.727						
	ST			254+00.25	1812970.777	6458715.897						
NB-20	TS	N60°48'26"E	357.99	257+58.24	1813145.390	6459028.423						Ea= 1" Eu= 0.24" V= 55 MPH
	SC		100.00	258+58.24	1813194.009	6459115.807						
	PI				1813218.226	6459159.698	0°36'35"	9395.67	0°36'41"	100.26	50.13	
	CS		100.00	259+58.50	1813241.974	6459203.845						
	ST			260+58.50	1813289.033	6459292.080						
#10 LHTO	PS	N62°01'42"E	10.00	260+68.50	1813293.656	6459300.948						
	PITO	N62°01'42"E	31.79	261+00.29	1813308.633	6459328.986						
	TS	N62°01'42"E	80.21	261+80.50	1813346.256	6459399.828						
NB-21	SC		100.00	262+80.50	1813393.315	6459488.063						Ea= 1" Eu= 0.24" V= 55 MPH
	PI				1813417.080	6459532.242	0°36'35"	9396.76	0°36'42"	100.33	50.17	
	CS		100.00	263+80.83	1813441.315	6459576.164						
	ST			264+80.83	1813489.935	6459663.549						
	PITO	N60°48'25"E	1542.55	280+23.38	1814242.322	6461010.171						
#10 RHTO	PS	N60°48'25"E	31.50	280+54.88	1814257.686	6461037.670						
	TS	N60°48'25"E	10.00	280+64.88	1814262.564	6461046.400						
	SC		145.00	282+09.88	1814339.307	6461169.263						
NB-22	PI				1814460.296	6461326.457	11°35'41"	495.00	43°40'32"	376.69	198.36	Ea= 2" Eu= 2.85" V= 25 MPH
	CS		145.00	285+86.57	1814656.357	6461356.598						
	ST			287+31.57	1814801.001	6461364.544						
	POE	N00°20'52"E	1297.92	300+29.49	1816098.893	6461372.421						

NB SECTION 3												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
NB-23	PDB			300+00.00	1816098.893	6461372.421						Ea= 0" Eu= 1.01" V= 55 MPH
	PC	N00°20'52"E	1385.00	313+85.00	1817483.868	6461380.827						
	PI				1817595.451	6461381.505	0°29'54"	11500.00	1°06'43"	223.16	111.59	
NB-24	PT			316+08.16	1817707.000	6461384.347						Ea= 0" Eu= 1.01" V= 55 MPH
	PC	N01°27'35"E	105.00	317+13.16	1817811.966	6461387.021						
	PI				1817918.354	6461389.732	0°29'54"	11500.00	1°03'37"	212.84	106.42	
#10 LHTO	PS	N00°23'57"E	597.99	319+26.00	1818024.774	6461390.474						Ea= 0" Eu= 0.97" V= 55 MPH
	PITO	N00°23'57"E	31.50	325+23.99	1818622.744	6461394.640						
	TS	N00°23'57"E	247.16	325+55.49	1818654.243	6461394.859						
#10 RHTO	PS	N00°23'57"E	31.50	328+02.65	1818901.401	6461396.581						Ea= 0" Eu= 0.97" V= 55 MPH
	PC	N00°23'57"E	9.99	328+34.15	1818932.900	6461396.801						
	PI			328+44.14	1818942.888	6461396.870						
NB-25	PT				1819047.747	6461397.601	0°28'39"	12000.00	1°00'05"	209.72	104.86	Ea= 0" Eu= 0.66" V= 55 MPH
	PC	N00°36'08"W	105.00	330+53.85	1819152.603	6461396.499						
	PI			331+58.85	1819257.597	6461395.396	0°28'39"	12000.00	1°00'05"	209.72	104.86	
NB-26	PT				1819362.453	6461394.294						Ea= 0" Eu= 0.66" V= 55 MPH
	PC	N00°23'57"E	2696.63	333+68.57	1819467.312	6461395.024						
	PI			360+65.20	1822163.877	6461413.812						
NB-27	PT				1822216.376	6461414.177	0°19'29"	17639.92	0°20'28"	105.00	52.50	Ea= 0" Eu= 0.66" V= 55 MPH
	PC	N00°44'25"E	105.00	361+70.20	1822268.872	6461414.856						
	PI			362+75.20	1822373.863	6461416.212						
NB-28	PT				1822426.359	6461416.890	0°19'29"	17639.92	0°20'28"	105.00	52.50	Ea= 0" Eu= 0.66" V= 55 MPH
	PC	N00°23'57"E	300.00	363+80.20	1822478.858	6461417.256						
	PI			366+80.20	1822778.851	6461419.346						
NB-29	TS		105.00	367+85.20	1822883.845	6461418.909						Ea= 2" Eu= 0.98" V= 35 MPH
	SC				1823021.685	6461415.267	3°38'38"	1572.68	10°01'17"	275.03	137.89	
	PI				1823156.789	6461387.694						
NB-30	CS		105.00	370+60.23	1823156.789	6461387.694						Ea= 2" Eu= 2.95" V= 35 MPH
	ST			371+65.23	1823259.170	6461364.415						
	TS	N13°26'52"W	105.00	372+70.23	1823361.291	6461339.996						
NB-31	SC		105.00	373+75.23	1823462.932	6461313.705						Ea= 2" Eu= 1.30" V= 35 MPH
	PI				1823527.729	6461294.370	6°02'02"	950.00	8°08'34"	134.95	67.62	
	CS		105.00	375+10.18	1823589.135	6461266.053						
NB-31	ST			376+15.18	1823682.177	6461217.468						Ea= 2" Eu= 1.30" V= 35 MPH
	PI				1823849.847	6461120.513	4°01'48"	1422.00	15°30'45"	384.92	193.68	
	CS		105.00	380+00.10	1823985.479	6460982.246						
NB-31	ST			381+06.67	1824058.180	6460904.331						V= 35 MPH

NB SECTION 3 (CONT.)												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
NB-32	TS		105.00	382+11.90	1824129.005	6460826.501						Ea= 2" Eu= 2.38" V= 35 MPH
	SC			383+16.90	1824200.922	6460750.013						
	PI				1824277.186	6460674.022	5°20'15"	1073.84	11°27'02"	214.53	107.66	
	CS		105.00	385+31.43	1824367.019	6460614.683						
	ST			386+36.43	1824456.461	6460559.704						
NB-33	TS	N30°38'43"W	261.52	388+97.95	1824681.456	6460426.402						Ea= 4" Eu= 2.99" V= 55 MPH
	SC		260.00	391+57.95	1824908.466	6460299.792						
	PI				1825196.098	6460158.520	3°27'07"	1660.00	21°51'09"	633.02	320.45	
	CS		260.00	397+90.97	1825515.646	6460134.460						
	ST			400+50.97	1825775.507	6460128.498						
#10 LHTO	PS	N00°10'52"E	4054.28	441+05.25	1829829.761	6460141.318						
	PITO	N00°10'52"E	31.50	441+36.75	1829861.261	6460141.418						
	TS	N00°10'52"E	405.35	445+42.10	1830266.608	6460142.700						
#10 RHTO	PS	N00°10'52"E	31.50	445+73.60	1830298.108	6460142.799						
	POE	N00°10'52"E	375.00	449+48.60	1830673.106	6460143.985						

TR3												
CURVE NO.	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	Δ	L	T	Ea/Eu SPEED
#10 LHTO	PS			62+35.67	1802276.914	6446762.957						
	PITO	N00°10'10"E	31.42	62+67.09	1802308.334	6446763.050						
	PC	N05°36'23"W	227.01	64+94.10	1802534.256	6446740.873						
TR3-01	PI				1802634.668	6446731.016	2°51'54"	2000.00	5°46'33"	201.60	100.89	Ea= 1" Eu= 1.35" V= 35 MPH
	PT			66+95.69	1802735.561	6446731.315						
	PC	N00°10'11"E	418.91	71+14.60	1803154.468	6446732.555						
TR3-02	PI				1803302.536	6446732.993	2°51'54"	2000.00	8°28'06"	295.57	148.07	Ea= 1" Eu= 1.35" V= 35 MPH
	PT			74+10.17	1803448.925	6446755.231						
	PS	N08°38'16"E	143.80	75+53.97	1803591.092	6446776.828						
#10 RHTO	PI	N02°51'44"E	31.42	75+85.39	1803622.473	6446778.397						

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THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART 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

DESIGNED BY  
T. TAPAN  
 DRAWN BY  
M. WHITE  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

FOR REVIEW ONLY NOT FOR CONSTRUCTION  
 LEE W ABRAMSON  
 C44285

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

6151 W. Century Blvd. Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

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12/3/2010 3:20:58 PM USER=st09999

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P-BNSF SECTION 1

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for curves BNSF-01, BNSF-02, and BNSF-03.

P-BNSF SECTION 2

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for curves BNSF-04 through BNSF-11.

P-BNSF SECTION 2 (CONT.)

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for curves BNSF-12, BNSF-13, and BNSF-14.

SB-01 Wye

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for SB-01 Wye curves.

NB-01 Wye

Table with 12 columns: CURVE NO., DESC, BEARING, DISTANCE, STATION, NORTHING, EASTING, Dc, RADIUS, Δ, L, T, Ea/Eu SPEED. Contains data for NB-01 Wye curves.

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Table with 7 columns: REV, DATE, BY, APP, REG NO, EXPIRES, SEAL HOLDER, DESCRIPTION.

DESIGNED BY T. TAPAN, DRAWN BY M. WHITE, CHECKED BY D. DALI, IN CHARGE G. HEAD, DATE 12-10-10

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LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

6151 W. Century Blvd. Suite 800 Los Angeles, CA 90045 Phone: 310-337-0500 Fax: 310-337-0042



725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868

BASE PROJECT CRENSHAW/LAX TRANSIT CORRIDOR PROJECT GEOMETRY TABLES SHEET 5 OF 5 BNSF & WYE

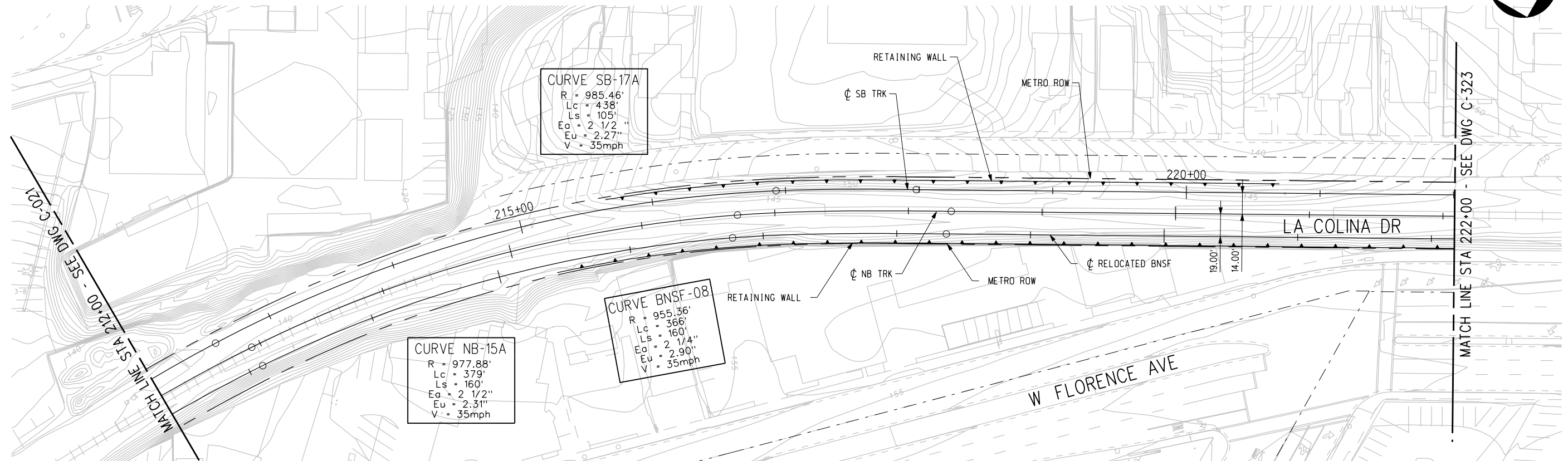
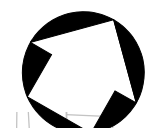
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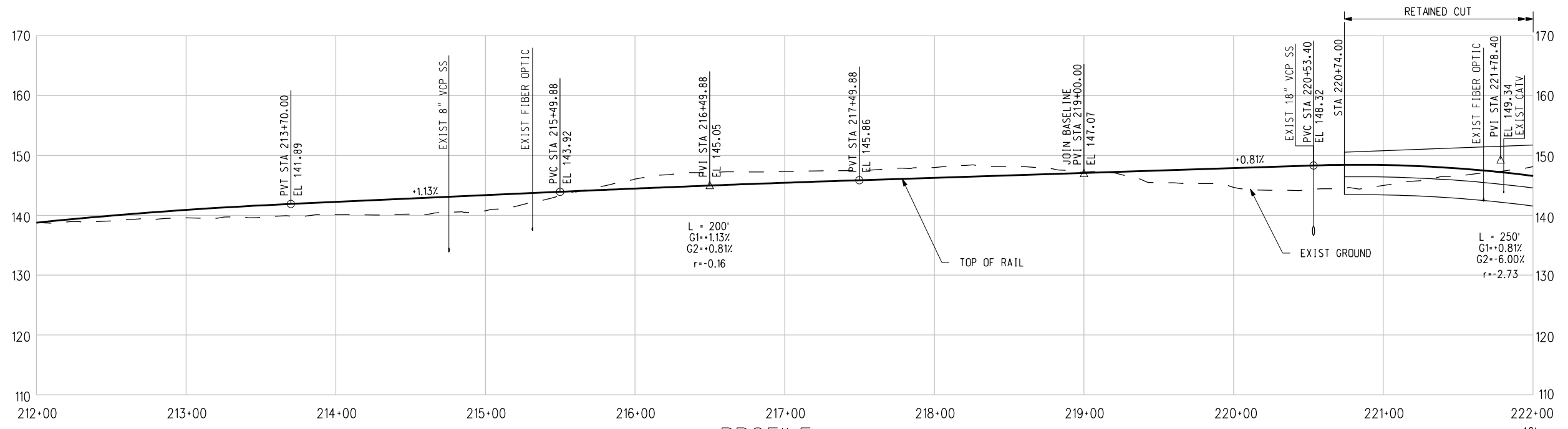


**CURVE SB-17A**  
 R = 985.46'  
 Lc = 438'  
 Ls = 105'  
 Ea = 2 1/2"  
 Eu = 2.27"  
 V = 35mph

**CURVE BNSF-08**  
 R = 955.36'  
 Lc = 366'  
 Ls = 160'  
 Ea = 2 1/4"  
 Eu = 2.90"  
 V = 35mph

**CURVE NB-15A**  
 R = 977.88'  
 Lc = 379'  
 Ls = 160'  
 Ea = 2 1/2"  
 Eu = 2.31"  
 V = 35mph

PLAN



PROFILE



BASE PROJECT

REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

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C44285



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TRANSPORTATION AUTHORITY

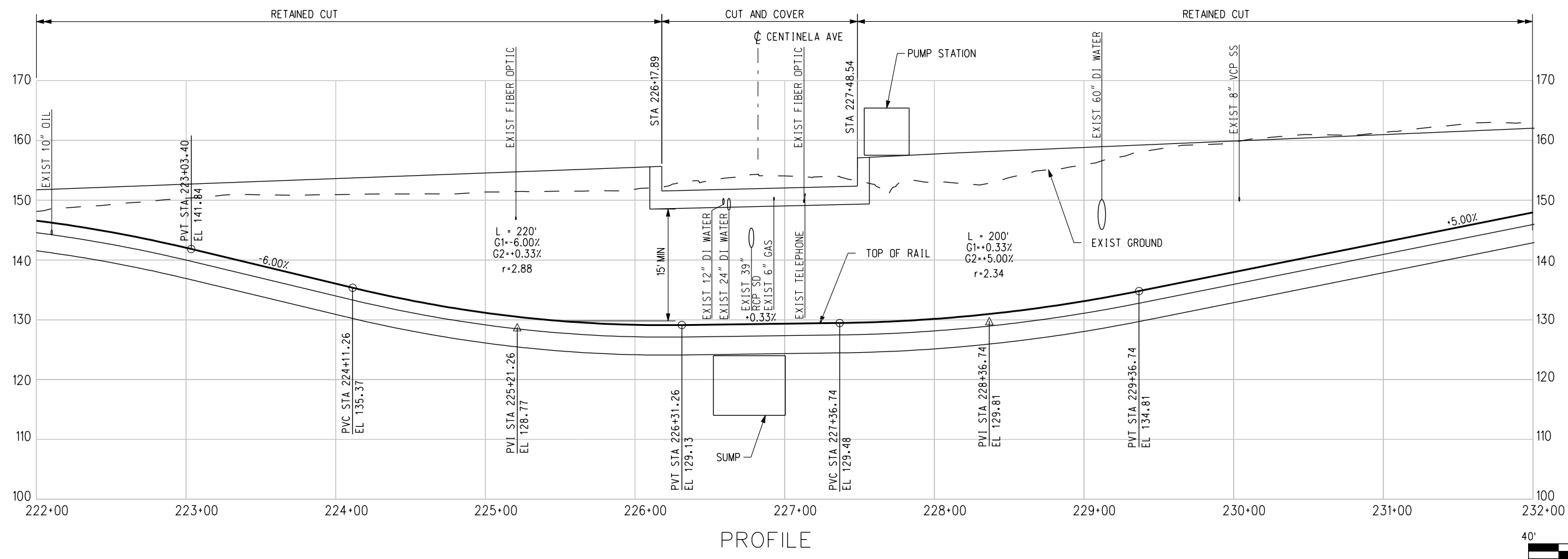
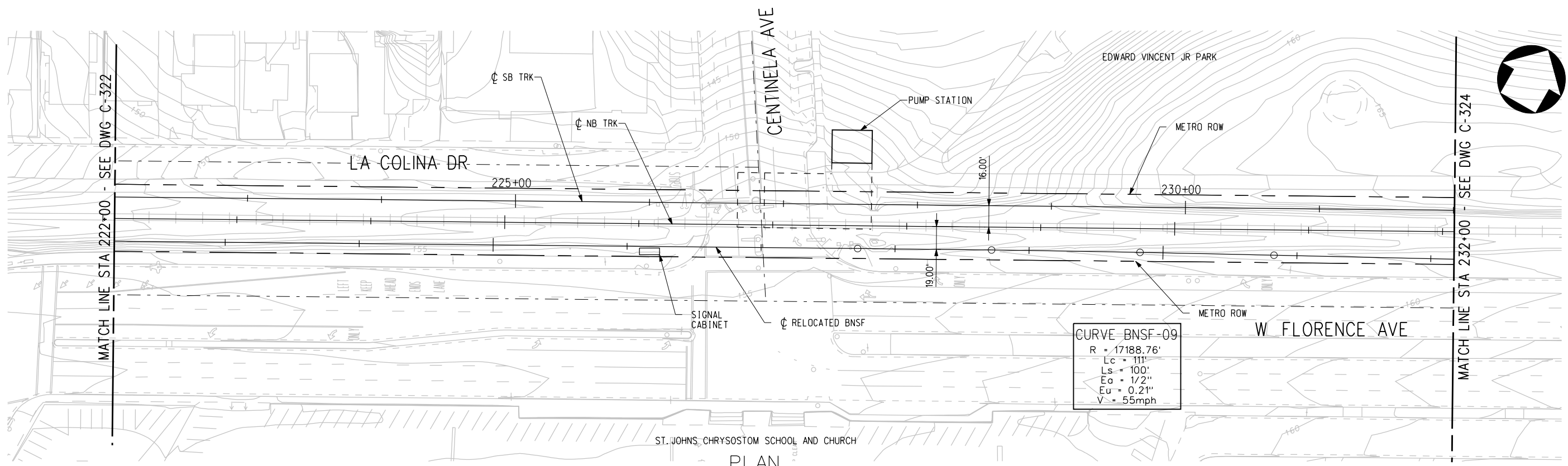
6151 W. Century Blvd.  
Suite 800  
Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

PATTERSON & ASSOCIATES, INC.  
725 TOWN & COUNTRY RD  
SUITE 300  
ORANGE, CA 92868

CRENSHAW/LAX  
TRANSIT CORRIDOR PROJECT  
PLAN & PROFILE  
**CENTINELA OPTION 3**  
STA 212+00 TO STA 222+00

CONTRACT NO	E0117
DRAWING NO	C-322
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	183

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

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LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

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Los Angeles, CA 90045  
Phone: 310-337-0500  
Fax: 310-337-0042

**Hatch Mott MacDonald**

725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868

BASE PROJECT

**CRENSHAW/LAX TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
**CENTINELA OPTION 3**  
 STA 222+00 TO STA 232+00

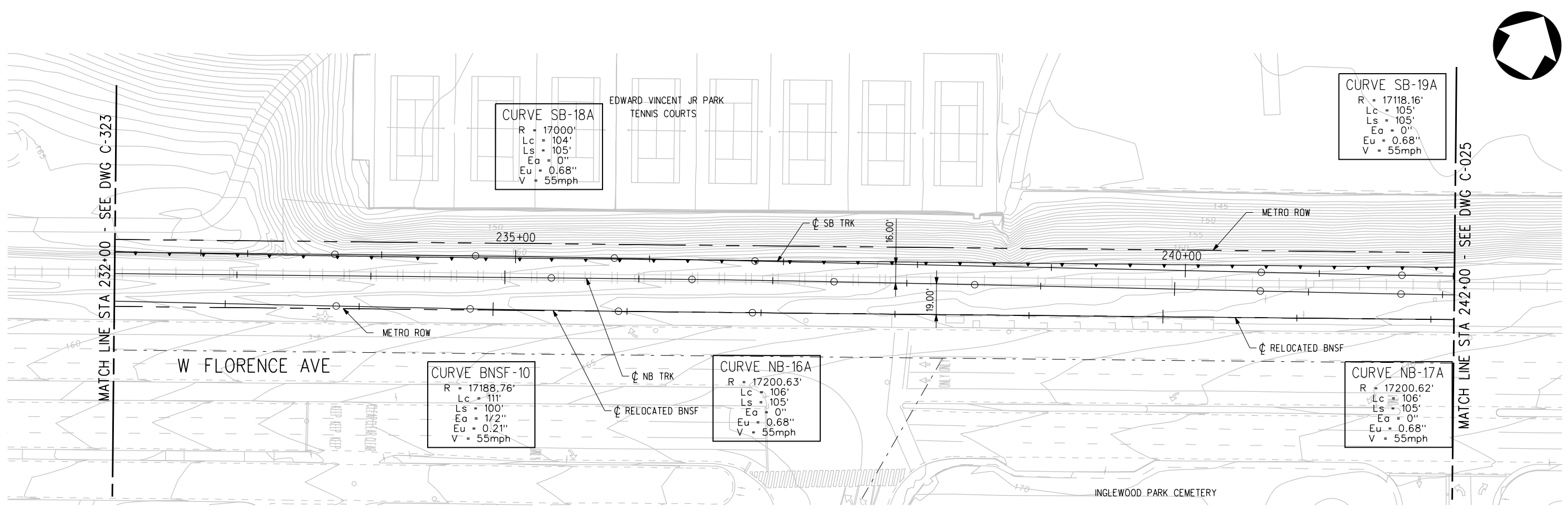
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DRAWING NO <b>C-323</b>	REV <b>0</b>
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SHEET NO <b>184</b>	

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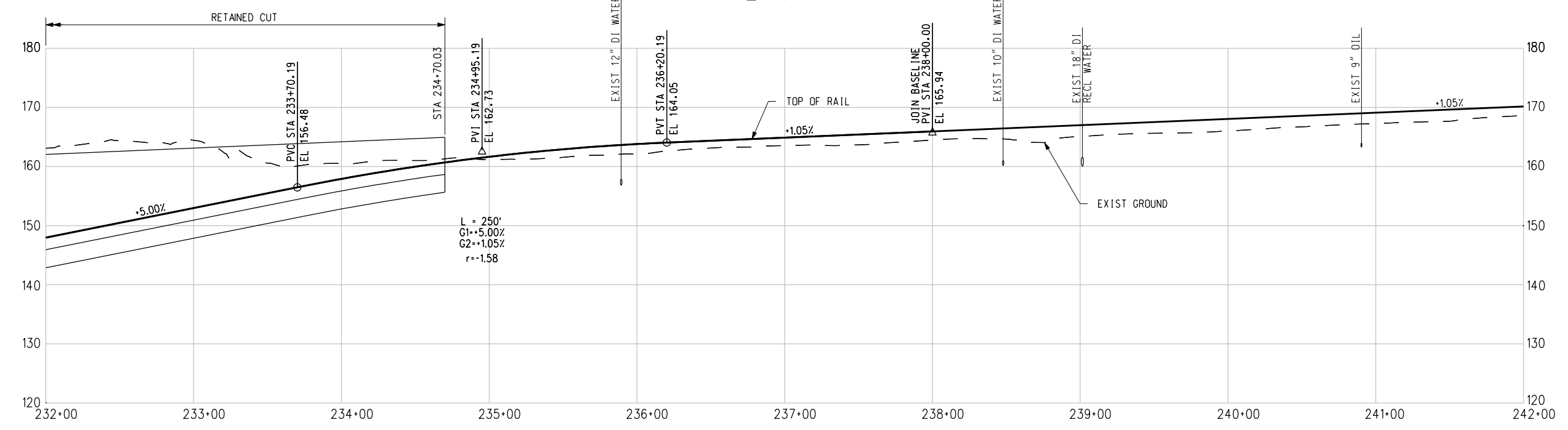
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PLAN



PROFILE



THE PREPARATION OF THIS DRAWING HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA), UNDER THE FEDERAL TRANSIT ACT OF 1964, AS AMENDED, AND IN PART 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  
T. TAPPAN

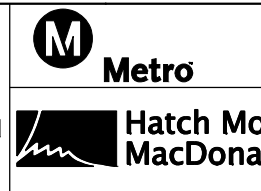
DRAWN BY  
A. GIBBONS

CHECKED BY  
D. DALI

IN CHARGE  
G. HEAD

DATE  
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 Los Angeles, CA 90045  
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 Fax: 310-337-0042

725 TOWN & COUNTRY RD SUITE 300  
 ORANGE, CA 92868

BASE PROJECT  
**CRENSHAW/LAX TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
**CENTINELA OPTION 3**  
 STA 232+00 TO STA 242+00

CONTRACT NO	E0117
DRAWING NO	C-324
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	185

OPT3 Centinela SB												
	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	△	L	T	Ea/Eu SPEED
SB-17A	POB			208+66.37	1810522.458	6454986.916						
	TS	N29°13'26"E	283.52	211+49.89	1810769.888	6455125.335						
	SC		105.00	212+54.89	1810860.587	6455178.211						
	PI				1811048.953	6455297.182	5°49'00"	985.46	25°28'42"	438.03	222.79	Ea= 2 1/2" Eu= 2.27"
	CS		105.00	216+92.91	1811167.822	6455485.612						V= 35 MPH
SB-18A	ST	N60°48'25"E	1567.20	217+97.91	1811220.649	6455576.339						
	TS		105.00	233+65.12	1811985.058	6456944.479						
	SC		105.00	234+70.12	1812036.178	6457036.195						
	PI				1812061.302	6457081.490	0°20'13"	17000.00	0°20'57"	103.59	51.80	Ea= 0" Eu= 0.68"
	CS		105.00	235+73.71	1812086.149	6457126.937						V= 55 MPH
SB-19A	ST	N61°30'36"E	378.01	236+78.71	1812136.330	6457219.170						
	TS		105.00	240+56.72	1812316.644	6457551.406						
	SC		105.00	241+61.72	1812366.824	6457643.639						
	PI				1812391.996	6457689.683	0°20'05"	17118.16	0°21'05"	104.95	52.48	Ea= 0" Eu= 0.68"
	CS		105.00	242+66.67	1812417.450	6457735.571						V= 55 MPH
PDE	N60°48'26"E	110.42	243+71.67	1812468.570	6457827.287							
				244+82.09	1812522.428	6457923.682						

OPT3 Centinela NB												
	DESC	BEARING	DISTANCE	STATION	NORTHING	EASTING	Dc	RADIUS	△	L	T	Ea/Eu SPEED
NB-15A	PDB			208+46.86	1810484.164	6454981.535						
	TS	N29°13'26"E	286.27	211+33.12	1810733.994	6455121.297						
	SC		160.00	212+93.12	1810871.406	6455203.167						
	PI				1811030.686	6455310.244	5°51'42"	977.88	22°12'30"	378.87	191.93	Ea= 2 1/2" Eu= 2.31"
	CS		160.00	216+71.99	1811137.677	6455469.581						V= 35 MPH
NB-16A	ST	N60°48'25"E	1702.65	218+31.99	1811219.472	6455607.037						
	TS		105.00	235+34.64	1812049.947	6457093.421						
	SC		105.00	236+39.64	1812101.067	6457185.136						
	PI				1812126.790	6457231.506	0°19'59"	17200.63	0°21'12"	106.05	53.03	Ea= 0" Eu= 0.68"
	CS		105.00	237+45.70	1812152.226	6457278.034						V= 55 MPH
NB-17A	ST	N61°30'36"E	213.27	238+50.70	1812202.406	6457370.268						
	TS		105.00	240+63.97	1812304.139	6457557.715						
	SC		105.00	241+68.97	1812354.318	6457649.948						
	PI				1812379.733	6457696.436	0°19'59"	17200.62	0°21'11"	105.96	52.98	Ea= 0" Eu= 0.68"
	CS		105.00	242+74.93	1812405.433	6457742.767						V= 55 MPH
PDE	N60°48'26"E	110.00	243+79.93	1812456.553	6457834.482							
				244+89.93	1812510.206	6457930.510						

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY T. TAPPAN
DRAWN BY M. WHITE
CHECKED BY D. DALI
IN CHARGE G. HEAD
DATE 12-10-10

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LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

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Fax: 310-337-0042

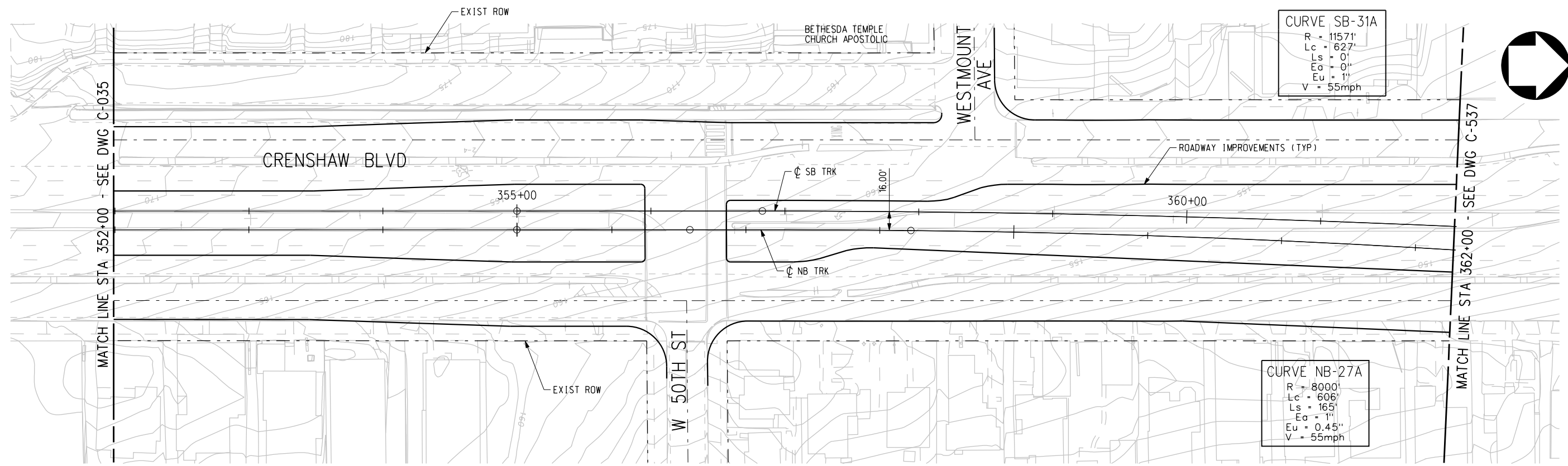
**PATTERSON & ASSOCIATES, INC.**  
 CIVIL, STRUCTURAL, GEOTECHNICAL ENGINEERING

725 TOWN & COUNTRY RD SUITE 300 ORANGE, CA 92868

BASE PROJECT  
 CRENSHAW/LAX  
 TRANSIT CORRIDOR PROJECT  
 GEOMETRY TABLES  
**CENTINELA (OPTION 3)**

CONTRACT NO	E0117
DRAWING NO	C-325
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	186

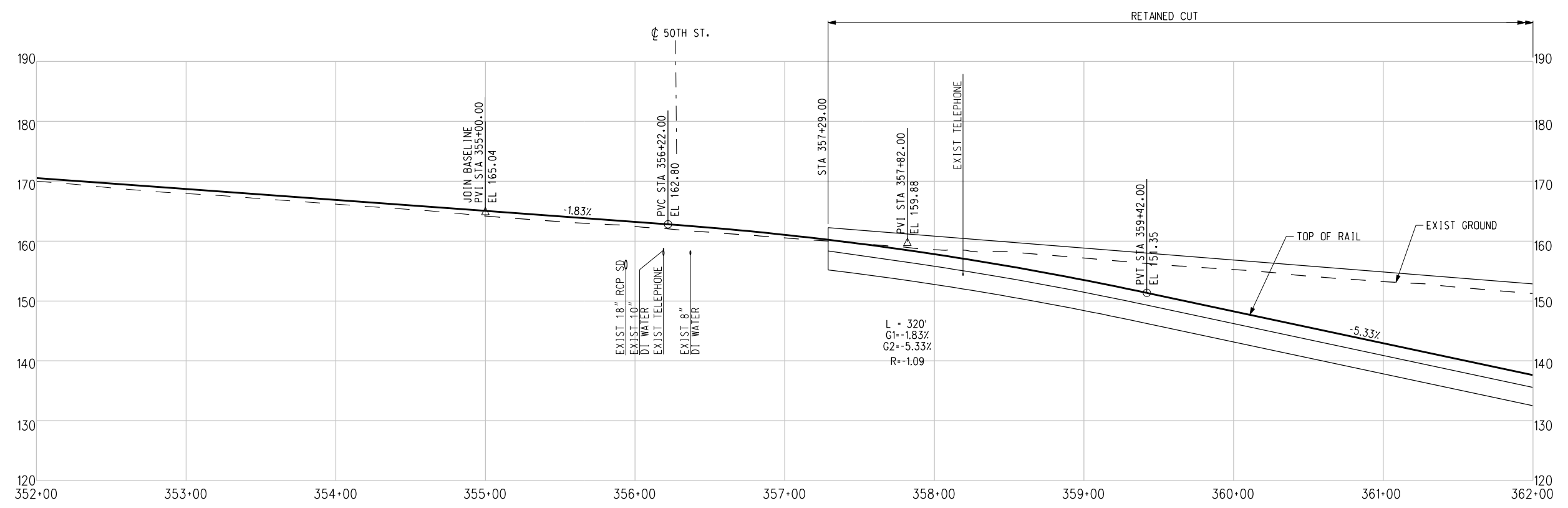
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**CURVE SB-31A**  
 R = 11571'  
 Lc = 627'  
 Ls = 0'  
 Ea = 0'  
 Eu = 1'  
 V = 55mph

**CURVE NB-27A**  
 R = 8000'  
 Lc = 606'  
 Ls = 165'  
 Ea = 1'  
 Eu = 0.45'  
 V = 55mph

PLAN



PROFILE



BASE PROJECT

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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

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 C44285



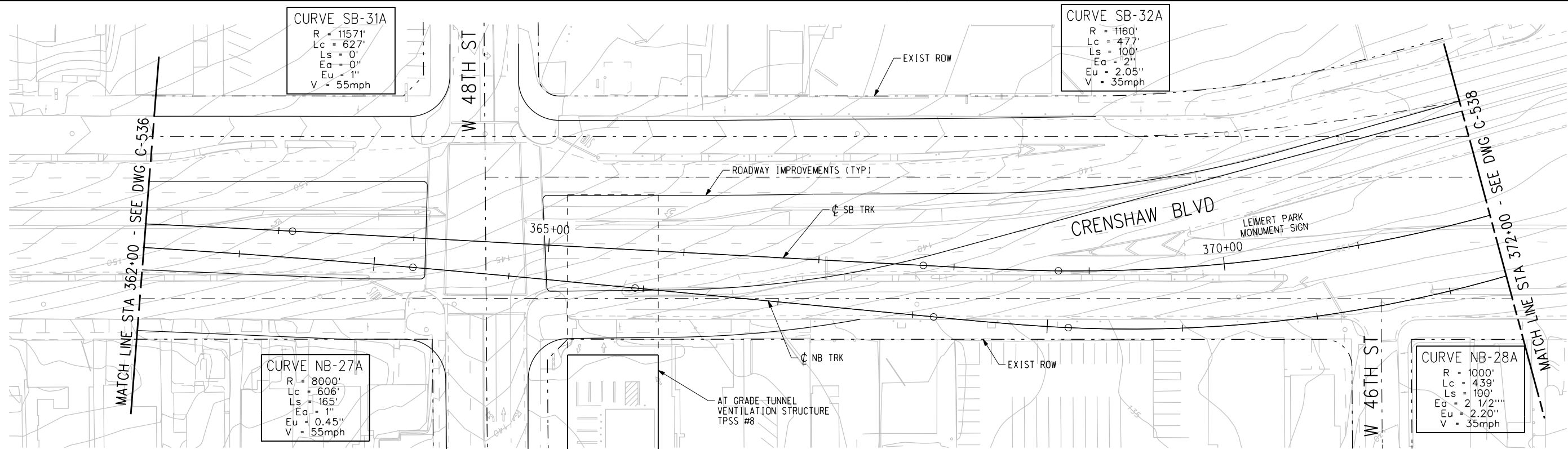
**LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY**  
 6151 W. Century Blvd. Suite 800  
 Los Angeles, CA 90045  
 Phone: 310-337-0500  
 Fax: 310-337-0042

**PATTERSON & ASSOCIATES, INC.**  
 CIVIL-TRANSPORTATION ENGINEERING  
 725 TOWN & COUNTRY RD  
 SUITE 300  
 ORANGE, CA 92868

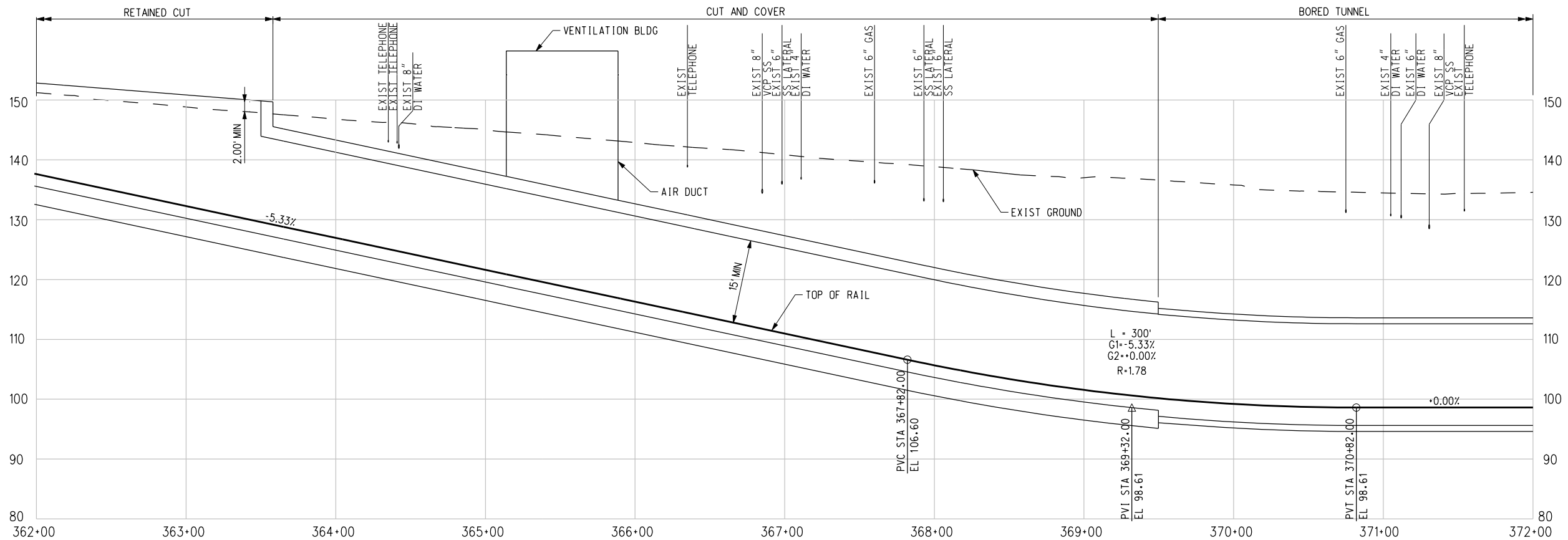
**CRENSHAW/LAX TRANSIT CORRIDOR PROJECT**  
**PLAN & PROFILE**  
**VERNON OPTION 5**  
 STA 352+00 TO STA 362+00

CONTRACT NO	E0117
DRAWING NO	C-536
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	187

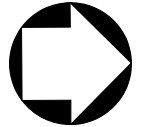
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PLAN



PROFILE



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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER

DESIGNED BY  
T. TAPPAN  
 DRAWN BY  
A. GIBBONS  
 CHECKED BY  
D. DALI  
 IN CHARGE  
G. HEAD  
 DATE  
12-10-10

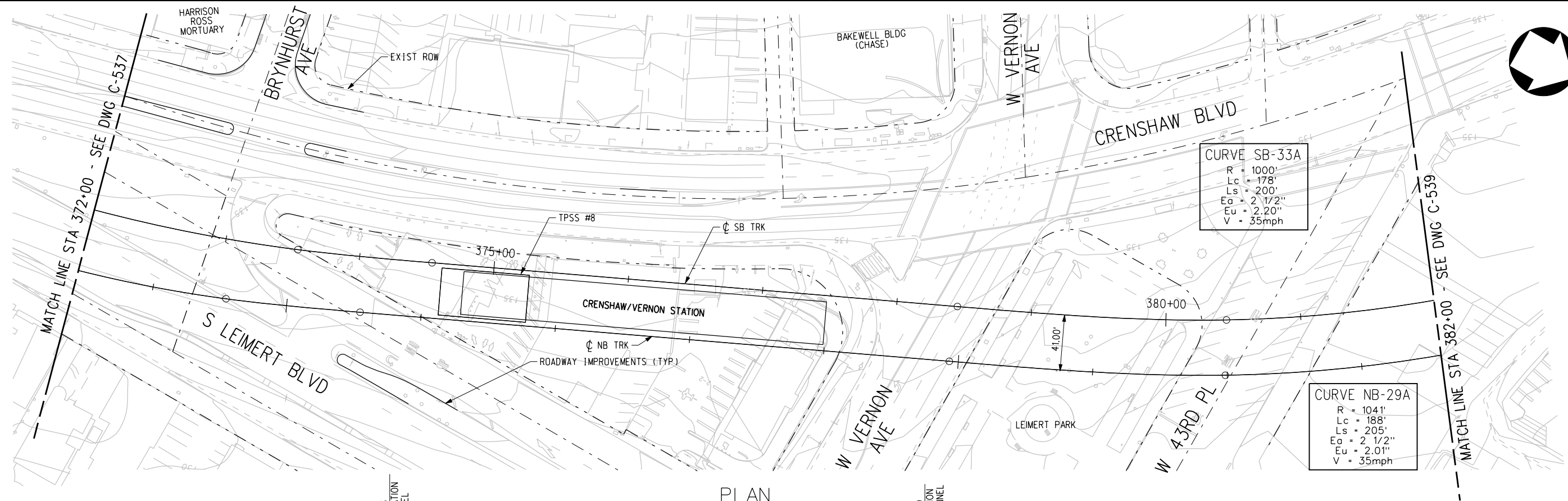
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**Metro**  
**Hatch Mott MacDonald**  
 6151 W. Century Blvd. Suite 900  
 Los Angeles, CA 90045  
 Phone: 310-337-0500  
 Fax: 310-337-0042

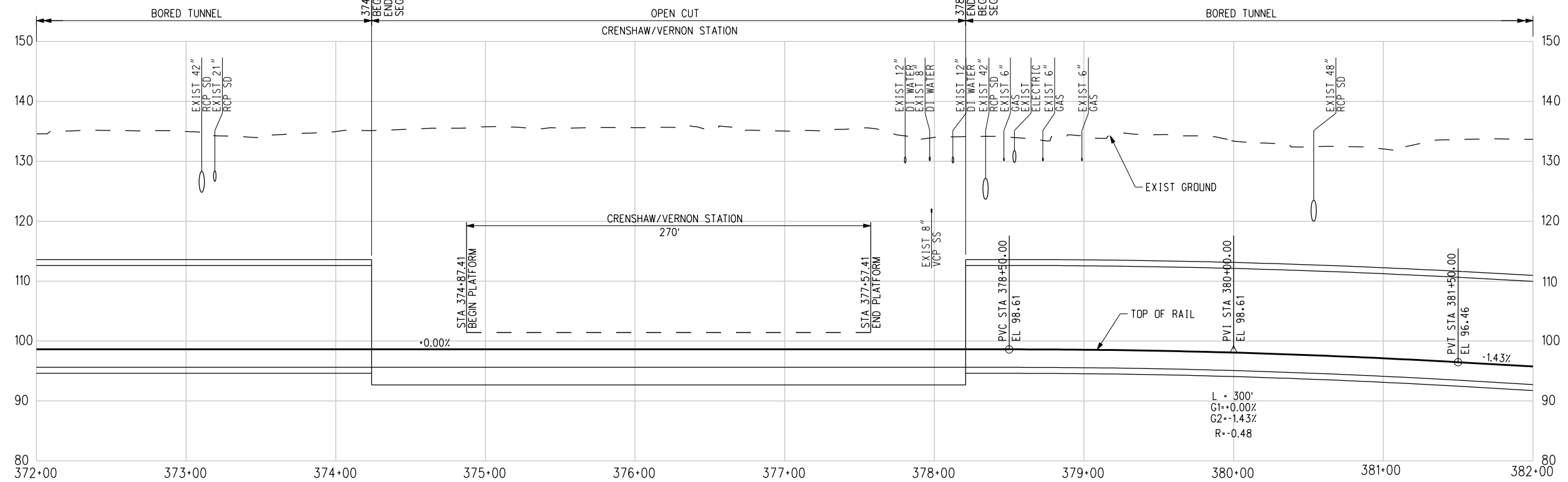
**PATTERSON & ASSOCIATES, INC.**  
 CIVIL/TRANSPORTATION ENGINEERING  
 725 TOWN & COUNTRY RD  
 SUITE 300  
 ORANGE, CA 92868

BASE PROJECT  
 CRENSHAW/LAX  
 TRANSIT CORRIDOR PROJECT  
 PLAN & PROFILE  
**VERNON OPTION 5**  
 STA 362+00 TO STA 372+00

CONTRACT NO	E0117
DRAWING NO	C-537
SCALE	HORIZ: 1" = 40' VERT: 1" = 10'
SHEET NO	188



PLAN



PROFILE



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REV	DATE	BY	APP	REG NO	EXPIRES	SEAL HOLDER	DESCRIPTION

DESIGNED BY  
T. TAPPAN  
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**Hatch Mott MacDonald**  
 725 TOWN & COUNTRY RD SUITE 300  
 ORANGE, CA 92868

**PATTERSON & ASSOCIATES, INC.**  
 CIVIL/TRANSPORTATION ENGINEERING

BASE PROJECT  
**CRENSHAW/LAX TRANSIT CORRIDOR PROJECT**  
 PLAN & PROFILE  
**VERNON OPTION 5**  
 STA 372+00 TO STA 382+00

CONTRACT NO  
**E0117**  
 DRAWING NO  
**C-538** REV  
**0**  
 SCALE  
HORIZ: 1" = 40'  
VERT: 1" = 10'  
 SHEET NO  
**189**