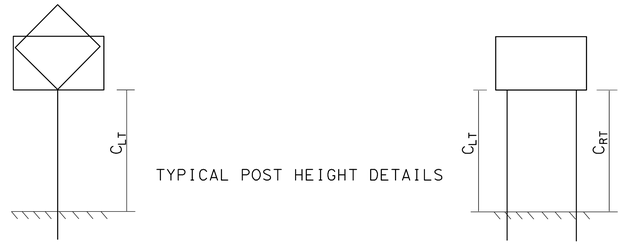


TYPICAL POST HEIGHT DETAILS

LEGEND:
B - BLACK
Y - YELLOW
R - RED
W - WHITE
G - GREEN
Blu - BLUE

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	401	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN ID	SIGN CODE	SIGN FACING MATERIAL: PANEL SIZE (m X m)	SIGN AREA (m2)	SINGLE FACED	BACKROUND: SHEETING COLOR	BACKROUND: RETRORE-FLECTIVE ASTM TYPE	LEGEND: SHEETING COLOR	LEGEND: RETRORE FLECTIVE ASTM TYPE	GRAFFITI FILM: PREMIUM	SIGN PANEL SUBSTRATE MATERIAL (m^2) ROADSIDE SIGN SINGLE-SHEET UNFRAMED ALUMINUM: 1.6 mm	2.0 mm	WOOD POST DATA: SIZE (mm) X (mm)	LENGTH (m) L+	LENGTH (m) R+	TOTAL LENGTH (m) L+	TOTAL LENGTH (m) R+	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	METAL (BARRIER MOUNTED SIGN)	ROADSIDE SIGN - ONE POST	INSTALL SIGN (STRAP & SADDLE BRACKET METHOD)	METAL (WALL MOUNTED SIGN)	REMARKS
																		EA	EA	kg	EA	EA	kg	
S-9	0901	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	0902	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
	0903	(REMOVE)																1						
	0904	(REMOVE)																1						
	0905	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
	0906	(REMOVE)																1						
	0907	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 150A
	0908	R89-1(CA)	1.219X0.508	0.62	X	W	III	B	III	X	0.62											1		
	0909	R89-1(CA)	1.219X0.508	0.62	X	W	III	B	III	X	0.62											1		
S-10	1001	R91-1(CA)	0.762X1.372	1.05	X	W	III	B	III	X		1.05	89X140		2.85		4.35				1			
	1002	G92(CA)	1.22X0.762	0.93	X	G	IV	W	IV	X		0.93	89X140		2.85		4.35				1			
		G27-2(CA)	0.533X0.457	0.24	X	Blu	IV	W/R	IV	X	0.24													ROUTE 5
		G48(CA)	1.32X0.914	1.21	X	G	IV	W	IV	X		1.21												
		G43(CA)	0.533X0.381	0.20	X	G	IV	W	IV	X	0.20													
	1003	G92(CA)	1.22X0.762	0.93	X	G	IV	W	IV	X		0.93	89X140		2.85		4.35				1			
		G27-2(CA)	0.533X0.457	0.24	X	Blu	IV	W/R	IV	X	0.24													ROUTE 5
		G48(CA)	1.32X0.914	1.21	X	G	IV	W	IV	X		1.21												
		G44(CA)	0.533X0.381	0.20	X	G	IV	W	IV	X	0.20													
	1004	(REMOVE)																1						
	1005	(REMOVE)																1						
	1006	G86-9(CA)	0.914X2.286	2.09	X	G	III	B/W	III	X	2.09									120	1			
	1007	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
	1008	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
S-11	1101	(REMOVE)																1						
	1102	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 150B
SHEET TOTAL											11.86	8.93						6		420	9	4		

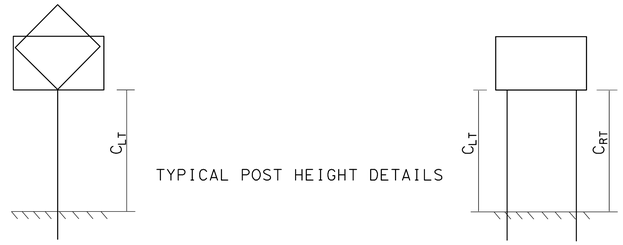
THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN QUANTITIES
SQ-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED: 11/07

LAST REVISION 07-02-08
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:59



TYPICAL POST HEIGHT DETAILS

LEGEND:
B - BLACK
Y - YELLOW
R - RED
W - WHITE
G - GREEN
Blu - BLUE

Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	402	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN ID	SIGN CODE	PANEL SIZE (m X m)	SIGN FACING MATERIAL: SIGN AREA (m2)	SINGLE FACED	BACKROUND: SHEETING COLOR	BACKROUND: RETRORE-FLECTIVE ASTM TYPE	LEGEND: SHEETING COLOR	LEGEND: RETRORE FLECTIVE ASTM TYPE	GRAFFITI FILM: PREMIUM	SIGN PANEL SUBSTRATE MATERIAL (m^2) ROADSIDE SIGN SINGLE-SHEET UNFRAMED ALUMINUM: 1.6 mm	2.0 mm	WOOD POST DATA: SIZE (mm) X (mm)	LENGTH (m) L+	LENGTH (m) R+	TOTAL LENGTH (m) L+	TOTAL LENGTH (m) R+	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	METAL (BARRIER MOUNTED SIGN)	ROADSIDE SIGN - ONE POST	INSTALL SIGN (STRAP & SADDLE BRACKET METHOD)	METAL (WALL MOUNTED SIGN)	REMARKS
																		EA	EA	kg	EA	EA	kg	
S-11	1103	G85-8(CA)	0.914X2.134	1.95	X	G	III	B/W	III	X	1.95											1		
	1104	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
S-12	1201	SR50-2(CA)	0.914X1.981	1.81	X	W	III	B	III	X	1.81									100	1			$341
	1202	SR50-2(CA)	0.914X1.981	1.81	X	W	III	B	III	X	1.81									100	1			$341
	1203	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	1204	G85-8(CA)	0.914X2.134	1.95	X	G	III	B/W	III	X	1.95											1		
	1205	(REMOVE)																1						
	1206	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 150
S-13	1301	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
	1302	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
S-14	1401	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11		89X140		2.85		4.35				1			
	1402	G86-9(CA)	0.914X2.286	2.09	X	G	III	B/W	III	X	2.09									120	1			
	1403	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 151
	1404	(REMOVE)																1						
S-15	1501	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	1502	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 151
	1503	(REMOVE)																1						
	1504	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
	1505	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
	1506	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
S-16	1601	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	1602	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
S-17	1701	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 152
	1702	(REMOVE)																1						
SHEET TOTAL											26.02	7.2						4		1020	15	5		

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN QUANTITIES
SQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED: 11/07

LAST REVISION 07-02-08
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	403	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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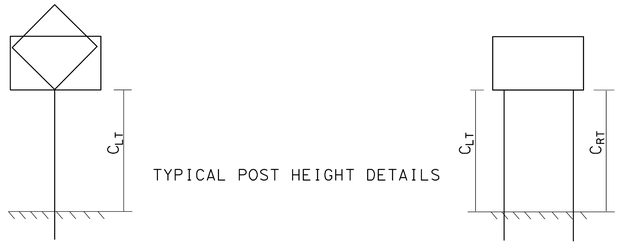
Caltrans Metric



TYPICAL POST HEIGHT DETAILS

LEGEND:

B - BLACK
Y - YELLOW
R - RED
W - WHITE
G - GREEN
Blu - BLUE

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN ID	SIGN CODE	PANEL SIZE (m X m)	SIGN FACING MATERIAL: SIGN AREA (m2)	SINGLE FACED	BACKROUND: SHEETING COLOR	BACKROUND: RETRORE-FLECTIVE ASTM TYPE	LEGEND: SHEETING COLOR	LEGEND: RETRORE FLECTIVE ASTM TYPE	GRAFFITI FILM: PREMIUM	SIGN PANEL SUBSTRATE MATERIAL (m^2) ROADSIDE SIGN SINGLE-SHEET UNFRAMED ALUMINUM: 1.6 mm	2.0 mm	POST DATA: SIZE (mm) X (mm)	LENGTH (m): L+	LENGTH (m): R+	TOTAL LENGTH (m): L+	TOTAL LENGTH (m): R+	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	METAL (BARRIER MOUNTED SIGN)	ROADSIDE SIGN - ONE POST	INSTALL SIGN (STRAP & SADDLE BRACKET METHOD)	METAL (WALL MOUNTED SIGN)	REMARKS
																		EA	EA	kg	EA	EA	kg	
S-18	1801	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	1802	R84-1(CA)	0.914X1.524	1.39	X	Y	III	B	III	X	1.39									100	1			
	1803	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
	1804	R93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
S-19	1901	(REMOVE)																1						
	1902	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 152
	1903	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	1904	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11											1		
S-20	2001	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
S-21	2101	G27-2(CA)	0.533X0.457	0.24	X	Blu	IV	W/R	IV	X	0.24											1		ROUTE 5
		G48(CA)	1.32X0.914	1.21	X	G	IV	W	IV	X		1.21										1		
	2102	G86-9(CA)	0.914X2.286	2.09	X	G	III	B/W	III	X	2.09									120	1			
	2103	G93-2(CA)	0.914X2.134	1.95	X	W	III	B	III	X	1.95									100	1			
S-22	2201	R86-2(CA)	0.914X1.676	1.53	X	W	III	B	III	X	1.53									100	1			
	2202	W13-3	0.914X1.219	1.11	X	Y	III	B	III	X	1.11		89X140		2.85		4.35				1			
	2203	R6-4(CA)	1.22X1.52	1.85	X	W	III	B	III	X		1.85										1		
	2204	G85-8(CA)	0.914X2.134	1.95	X	G	III	B/W	III	X	1.95											1		
	2205	SR50-2(CA)	0.914X1.981	1.81	X	W	III	B	III	X	1.81									100	1			$341
S-23	2301	(REMOVE)																1						
	2302	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 153A
	2303	W4-7L	1.219X1.219	1.49	X	Y	III	B	III	X		1.49	140X140		3.05		4.55				1			
	2304	W9-1R	1.219X1.219	1.49	X	Y	III	B	III	X		1.49	140X140		3.05		4.55				1			
	2305	R89-1(CA)	1.219X0.508	0.62	X	W	III	B	III	X	0.62											1		
	2306	(REMOVE)																1						
	2307	G84-3(CA)	1.219X1.524	1.8	X	G	III	W	III	X		1.8	140X140		2.85		4.35				1			EXIT 153A
SHEET TOTAL											22.29	11.44						3		1020	16	6		

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN QUANTITIES
SQ-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED: 11/07

LAST REVISION 07-02-08 DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:37

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	404	869

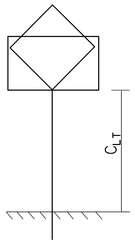
Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

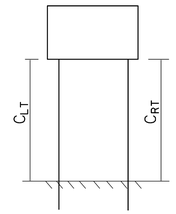
REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric



TYPICAL POST HEIGHT DETAILS



LEGEND:

B - BLACK
Y - YELLOW
R - RED
W - WHITE
G - GREEN
Blu - BLUE

ROADSIDE SIGN QUANTITIES

SHEET No.	SHEET ID	SIGN CODE	PANEL SIZE (m X m)	SIGN FACING MATERIAL: SIGN AREA (m2)	SIGN FACING MATERIAL: SINGLE FACED	BACKROUND: SHEETING COLOR	BACKROUND: RETRORE-FLECTIVE ASTM TYPE	LEGEND: SHEETING COLOR	LEGEND: RETRORE-FLECTIVE ASTM TYPE	GRAFFITI FILM: PREMIUM	SIGN SUBSTRATE MATERIAL (m^2) ROADSIDE SIGN SINGLE-SHEET UNFRAMED ALUMINUM: 1.6 mm	2.0 mm	POST DATA: SIZE (mm) X (mm)	LENGTH (m): LT	LENGTH (m): RT	TOTAL LENGTH (m): LT	TOTAL LENGTH (m): RT	REMOVE ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	METAL (BARRIER MOUNTED SIGN)	ROADSIDE SIGN - ONE POST	ROADSIDE SIGN - TWO POST	INSTALL SIGN (STRAP & SADDLE BRACKET METHOD)	METAL (WALL MOUNTED SIGN)	REMARKS
																		EA	EA	Kg	EA	EA	EA	Kg	
S-23	2308	SR50-2(CA)	0.914x1.981	1.81	X	W	III	B	III	X	1.81									100	1				
	2309	G58-8(CA)	0.914x2.134	1.95	X	G	III	B/W	III	X	1.95												1		
S-24	2401	R86-2(CA)	0.914x1.676	1.53	X	W	III	B	III	X	1.53									100	1				ROUTE 5
	2402	G27-2(CA)	0.533x0.457	0.24	X	Blu	IV	W/R	IV	X	0.24												1		
		G48(CA)	1.32x0.914	1.21	X	G	IV	W	IV	X		1.21											1		
		R2-1	0.914x1.219	1.11	X	W	III	B	III	X	1.11												1		
		R6-3(CA)	1.219x0.457	1.85	X	W	III	B	III	X		1.85											1		
		R48-1(CA)	0.914x0.457	0.42	X	W	III	B	III	X	0.42												1		
	2403	R82-1(CA)	0.914x1.676	1.53	X	W	III	B	III	X	1.53									100	1				
S-25	2501	G78(CA)	1.067x2.286	2.44	X	G	IV	W	IV	X		2.44	2-100 x 150	2.44	2.44	4.88	4.88					1			1.4m FROM CURB EDGE MIN
	2502	G78(CA)																1							
	2503	M3-3	0.600x0.300	0.18	X	G	IV	W	IV	X	0.18												1		INSTALL ON ELECTROLIER
	2504	G27-2(CA)	0.610x0.610	0.37	X	G	IV	W	IV	X	0.37												1		INSTALL ON ELECTROLIER
	2505	M6-1 (Lt)	0.525x0.375	0.20	X	G	IV	W	IV	X	0.20												1		INSTALL ON ELECTROLIER
	2506	G78(CA)	1.067x2.286	2.44	X	G	IV	W	IV	X		2.44	2-100 x 150	2.44	2.44	4.88	4.88					1			
	2507	G78(CA)																1							
SHEET TOTAL											9.34	7.94						2		300	3		9		
GRAND TOTAL											132.63	60.63						36		4700	80	2	38	1500	

QUANTITIES

MEDIAN MILEAGE PANEL		
ROUTE	KILO POST	INSTALL (EA)
5	50.8/58.0	48
TOTAL		48

MEDIAN MILEAGE PANEL

THIS PLAN ACCURATE FOR SIGN WORK ONLY

SIGN QUANTITIES
SQ-8

AHMED GABER	VINCENT NGUYEN	REVISED BY	11/07
		DATE REVISED	
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR	GRISH BIGLARIAN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **TRAFFIC DESIGN**

LAST REVISION 07-02-08 DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	405	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
AHMED GABER
No. C 67044
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. ALL OVERHEAD SIGN INSTALLATIONS SHALL MAINTAIN A MINIMUM CLEARANCE OF 5.65 m BETWEEN THE HIGH POINT OF FINISHED SURFACE OF THE ROADBED AND THE BOTTOM OF THE WALKWAY.

2. ALL OVERHEAD SIGN PANELS ARE FORMED PANELS, UNLESS OTHERWISE NOTED.

OVERHEAD SIGN QUANTITIES

SHEET No.	SIGN No.	DIRECTION AND STATION	CIDH CONCRETE PILE (SIGN FOUNDATION) 1372 mm L†	1372 mm R†	1524 mm L†	1524 mm R†	SIGN STRUCTURE (TRUSS) FURNISH	SIGN STRUCTURE (TRUSS) INSTALL	INSTALL SIGN PANEL ON EXISTING FRAME	REMOVE SIGN STRUCTURE	REMOVE BRIDGE MOUNTED SIGN	REMOVE SIGN PANEL (N)	REMARKS
			m	m	m	m	kg	kg	m^2	EA	EA	EA	
S-2	2A	FNBT STA 512+25				7.0	8810	8810					
S-2	2B	FNBT STA 512+35								1			
S-4	4A	FNBT STA 517+90				7.6	10120	10120					
S-4	4B	FNBT STA 518+23								1			
S-5	5A	FNBT STA 520+15	5.8				4050	4050					
S-5	5B	FSBT STA 520+90				7.6	9940	9940					
S-5	5C	FNBT STA 521+48								1			
S-5	5D	FSBT STA 521+70				7.6	9940	9940					
S-6	6A	FSBT STA 523+44								1			
S-6	6B	FSBT STA 523+85	5.8				4050	4050					
S-6	6C	FNBT STA 524+24								1			
S-6	6D	FSBT STA 524+43.5					10050	10050					
S-7	7A	FNBT STA 528+40				7.0	9000	9000					
S-8	8A	FSBT STA 530+74								1			
S-8	8B	FSBT STA 531+60				7.0	8820	8820					
S-9	9A	FNBT STA 532+70								1			
S-9	9B	FNBT STA 532+85				7.6	10030	10030					
S-10	10A	FNBT STA 535+40									1		
S-10	10B	FSBT STA 535+60									1		
S-10	10C	FSBT STA 535+80				7.6	9960	9960					
S-10	10D	FNBT STA 537+88								1			
S-10	10E	FSBT STA 537+95				7.6	10010	10010					
S-11	11A	FNBT STA 540+25	5.8				4050	4050					
S-12	12A	FNBT STA 541+40				7.6	9880	9880					
S-12	12B	FNBT STA 541+70									1		
S-12	12C	FSBT STA 542+10									1		
S-12	12D	FNBT STA 543+95	5.8				4060	4060					
S-13	13A	FSBT STA 545+30				7.6	10010	10010					
S-13	13B	FSBT STA 545+50								1			
S-13	13C	FNBT STA 546+60				7.6	10200	10200					
S-13	13D	FNBT STA 546+72									1		
S-14	14A	FSBT STA 549+80				7.0	8810	8810					
S-15	15A	FNBT STA 550+74								1			
S-15	15B	FNBT STA 551+20				7.6	9860	9860					
S-15	15C	FNBT STA 551+86								1			
S-15	15D	FSBT STA 552+04								1			
S-15	15E	FSBT STA 553+20				7.6	10200	10200					
SUB-TOTAL			23.2		111.6		171850	171850		12	5		

REVISED BY | DATE REVISED 11/07

AHMED GABER | VINCENT NGUYEN

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR GRISH BIGLARIAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

SIGN QUANTITIES
SQ-9

LAST REVISION 07-02-08 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:45

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	406	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. ALL OVERHEAD SIGN INSTALLATIONS SHALL MAINTAIN A MINIMUM CLEARANCE OF 5.65 m BETWEEN THE HIGH POINT OF FINISHED SURFACE OF THE ROADBED AND THE BOTTOM OF THE WALKWAY.

2. ALL OVERHEAD SIGN PANELS ARE FORMED PANELS, UNLESS OTHERWISE NOTED.

OVERHEAD SIGN QUANTITIES

SHEET No.	SIGN No.	DIRECTION AND STATION	CIDH CONCRETE PILE (SIGN FOUNDATION) 1372 mm Lt	1372 mm Rt	1524 mm Lt	1524 mm Rt	SIGN STRUCTURE (TRUSS) FURNISH	SIGN STRUCTURE (TRUSS) INSTALL	INSTALL SIGN PANEL ON EXISTING FRAME	REMOVE SIGN STRUCTURE	REMOVE BRIDGE MOUNTED SIGN	REMOVE SIGN PANEL (N)	REMARKS
			m	m	m	m	kg	kg	m^2	EA	EA	EA	
S-16	16A	FSBT STA 556+20				7.0	8120	8120					
S-16	16B	FNBT STA 556+55				7.6	10070	10070					
S-16	16C	FNBT STA 556+63								1			
S-17	17A	FNBT STA 559+60				7.0	8120	8120					
S-17	17B	FNBT STA 560+22									1		
S-18	18A	FNBT STA 562+70				7.0	8530	8530					
S-18	18B	FNBT STA 562+83									1		
S-18	18C	FSBT STA 563+13									1		
S-18	18D	FSBT STA 564+20				7.0	8690	8690					
S-19	19A	FSBT STA 566+82								1			
S-19	19B	FSBT STA 566+90				7.6	10050	10050					
S-20	20A	FNBT STA 568+62							10.85				
S-20	20B	FNBT STA 568+62										1	
S-20	20C	FSBT STA 568+85									1		
S-21	21A	FSBT STA 571+00				7.6	9570	9570					
S-21	21B	FSBT STA 571+47								1			
S-22	22A	FNBT STA 573+25				7.6	10050	10050					
S-22	22B	FNBT STA 574+01								1			
S-22	22C	FSBT STA 575+00				7.6	9850	9850					
S-22	22D	FNBT STA 575+15	5.8				4050	4050					
S-23	23A	FSBT STA 577+45	5.8				4050	4050					
S-24	24A	FNBT STA 578+35									1		
S-24	24B	FSBT STA 579+70								1			
S-24	24C	FSBT STA 579+80				7.6	10115	10115					
SUB-TOTAL			11.6		73.6		101265	101265	10.85	5	5	1	
SUB-TOTAL FROM SQ-9			23.2		111.6		171850	171850		12	5		
TOTAL			34.8		185.2		273115	23115	10.85	17	10	1	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED 11/07

SIGN QUANTITIES
SQ-10

LAST REVISION 07-02-08
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	407	869

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AHMED GABER No. C 67044 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

OVERHEAD SIGN QUANTITIES

MATERIAL SUMMARY

SHEET No.	SIGN CODE	SIGN No.	SIGN SIZE L X D (mm x mm)	SIGN AREA (m^2)	SINGLE FACED	BACKGROUND		LEGEND		GRAFFITI FILM	FURNISH FORMED SIGN PANEL(OVERHEAD)(M2)	DESCRIPTION (REMARKS)
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM		
S-2	G86-13(CA)	2A	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	HOLLYWOOD WAY
S-4	G83-5(CA)	4A(a)	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	Glenoaks Blvd
S-4	G85-11(CA)	4A(b)	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	Hollywood Way
S-5	R87-1(CA)	5A	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-5	G23-1(CA)	5B	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	BUENE VISTA ST 3/4
S-5	G23-1(CA)	5D	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	GLENOAKS BLVD 3/4
S-6	R87-1(CA)	6B	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-6	G83-5(CA)	6D(a)	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	BUENE VISTA ST
S-6	G85-11(CA)	6D(b)	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	HOLLYWOOD WAY
S-7	G86-13(CA)	7A	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	GLENOAKS BLVD
S-8	G83(CA)	8B	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	HOLLYWOOD WAY
S-9	G86-13(CA)	9B(a)	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	SUNLAND BLVD
S-9	G85-11(CA)	9B(b)	3660 X 2540	9.29	X	Green	IV	White	IV	X	9.29	GLENOAKS BLVD
S-10	G23-1(CA)	10C	6710 X 2540	17.04	X	Green	IV	White	IV	X	17.04	HOLLYWOOD WAY 3/4
S-10	G83-5(CA)	10E(a)	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	PENROSE ST
S-10	G85-11(CA)	10E(b)	3660 X 2540	9.29	X	Green	IV	White	IV	X	9.29	SUNLAND BLVD
S-11	R87-1(CA)	11A	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-12	G23-6(CA)	12A	6710 X 3048	20.45	X	Green	IV	White	IV	X	20.45	PENROSE ST 1/4
S-12	R87-1(CA)	12D	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-13	G83-5(CA)	13A(a)	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	HOLLYWOOD WAY
S-13	G85-11(CA)	13A(b)	3660 X 2540	9.29	X	Green	IV	White	IV	X	9.29	SUNLAND BLVD
S-13	G83(CA)	13C(a)	6710 X 3048	20.45	X	Green	IV	White	IV	X	20.45	LANKERSHIM BLVD
S-13	G85-11(CA)	13C(b)	3660 X 3048	11.16	X	Green	IV	White	IV	X	11.16	PENROSE ST
S-14	G23-1(CA)	14A	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	SUNLAND BLVD 1/4
S-15	G23-6(CA)	15B	6710 X 3048	20.45	X	Green	IV	White	IV	X	20.45	LANKERSHIM BLVD 1/4
S-15	G83-5(CA)	15E(a)	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	SUNLAND BLVD
S-15	G85(CA)	15E(b)	4880 X 2540	12.40	X	Green	IV	White	IV	X	12.40	PENROSE ST
S-16	G83(CA)	16A	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	PENROSE ST
S-16	G85-11(CA)	16B	7920 X 2540	20.12	X	Green	IV	White	IV	X	20.12	LANKERSHIM BLVD
SUB-TOTAL SIGN PANEL QUANTITY											408.69	

SIGN QUANTITIES
SQ-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED: 11/07

LAST REVISION 07-02-08 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	408	869

Caltrans Metric

Ahmed Gaber 10/29/08
REGISTERED CIVIL ENGINEER DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
AHMED GABER
No. C 67044
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

OVERHEAD SIGN QUANTITIES

MATERIAL SUMMARY

SHEET No.	SIGN CODE	SIGN No.	SIGN SIZE L X D (mm x mm)	SIGN AREA (m^2)	SINGLE FACED	BACKGROUND		LEGEND		GRAFFITI FILM	FURNISH FORMED SIGN PANEL(OVERHEAD)(M2)	DESCRIPTION (REMARKS)
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM		
S-17	G83-5(CA)	17A	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	SHELDON ST
S-18	G23-1(CA)	18A	5490 X 2540	13.94	X	Green	IV	White	IV	X	13.94	SHELDON ST 3/4
S-18	G23-1(CA)	18D	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	PENROSE ST 3/4
S-19	G83-5(CA)	19B(a)	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	PENROSE ST
S-19	G85-11(CA)	19B(b)	4880 X 2540	12.39	X	Green	IV	White	IV	X	12.39	LANKERSHIM BLVD
S-20	G86-13(CA)	20A	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	SHELDON ST
S-21	G86-13(CA)	21A	6710 X 2540	17.04	X	Green	IV	White	IV	X	17.04	LANKERSHIM BLVD
S-22	G83-5(CA)	22A(a)	4880 X 2540	12.39	X	Green	IV	White	IV	X	12.39	BRANFORD ST
S-22	G85-11(CA)	22A(b)	4270 X 2540	10.85	X	Green	IV	White	IV	X	10.85	SHELDON STREET
S-22	G23-1(CA)	22C	6710 X 2540	17.04	X	Green	IV	White	IV	X	17.04	LANKERSHIM BLVD 1/2
S-22	R87-1(CA)	22D	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-23	R87-1(CA)	23A	4877 X 2540	12.39	X	White	IV	Black		X	12.39	CARPOOLS ONLY
S-24	G83-5(CA)	24C	6100 X 2540	15.50	X	Green	IV	White	IV	X	15.50	LANKERSHIM BLVD
S-24	G85-11(CA)	24C	3660 X 2540	9.29	X	Green	IV	White	IV	X	9.29	SHELDON ST
							SUB-TOTAL				181.27	
							SUB-TOTAL FROM SQ-11				408.69	
							TOTAL SIGN PANEL QUANTITY				589.96	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: GRISH BIGLARIAN
CALCULATED-DESIGNED BY: AHMED GABER
CHECKED BY: VINCENT NGUYEN
REVISED BY
DATE REVISED: 11/07

SIGN QUANTITIES
SQ-12

LAST REVISION 07-02-08 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	409	869

REGISTERED CIVIL ENGINEER 7/02/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

CONCRETE BARRIER

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	TYPE 60G	TYPE 60	TYPE 60RS	TYPE 60W	TYPE 60C	TYPE 60R	TYPE 60VF	TYPE 736B	REMOVE Conc BARRIER
				M	M	M	M	M	M	M	M	M
L-1	509+13.000	510+40.000	MED					127.00				127.00
L-2	510+40.000	512+57.77	MED					217.77				217.77
L-2	512+84.41	512+96.100	MED					11.69				38.33
L-2	512+96.100	513+60.000	MED				63.90					63.90
L-3	513+60.000	513+87.000	MED				27.00					27.00
L-3	513+90.040	517+30.000	MED				339.96					343.00
L-4	517+30.000	518+88.900	MED				158.90					158.90
L-4	518+88.900	519+20.000	MED		31.10							31.10
L-4	519+20.000	519+98.900	MED					78.9				78.9
L-4	519+98.900	520+10.000	MED			11.1						11.1
L-5	520+10.000	520+31.100	MED			21.1						21.1
L-5	520+31.100	520+47.790	MED					16.69				16.69
L-5	520+92.520	523+30.000	MED					237.48				282.21
L-6	523+30.000	523+69.200	MED					39.20				39.20
L-6	523+69.200	524+00.800	MED			31.6						31.6
L-6	524.00.800	526+60.000	MED					259.20				259.20
L-7	526+60.000	526+65.900	MED					5.90				5.90
L-7	526+65.900	529+40.000	MED				274.10					274.10
L-8	529+40.000	529+54.01	MED		5.00		9.81					14.81
L-8	529+74.500	531+50.000	MED		175.5							195.20
L-8	531+50.000	532+50.000	MED				100.00					100.00
L-9	532+50.000	535+28.500	MED				278.5					278.50
L-9	535+28.500	535+30.000	MED						1.50			1.50
L-10	535+30.000	535+75.000	MED						45.00			45.00
L-10	535+75.000	537+85.000	MED				210.00					210.00
L-10	537+85.000	538+47.000	MED					62.00				62.00
L-10	538+47.000	538+70.000	MED		23.00							23.00
L-11	538+70.000	539+98.900	MED		128.90							128.90
L-11	539+98.900	540+31.100	MED			32.20						32.20
L-11	540+31.100	541+30.000	MED		98.90							98.90
L-12	541+30.000	541+60.000	MED		30.00							30.00
L-12	541+60.000	542+20.600	MED						60.60			60.60
L-12	542+20.600	543+68.900	MED				148.30					148.30
L-12	543+68.900	544+01.100	MED			32.20						32.20
L-12	544+01.100	544+40.000	MED				38.90					38.90
L-12	541+49.520	541+90.410	NB							40.89		00.00
L-12	541+79.520	542+20.410	SB							40.89		00.00
SUBTOTAL FROM THIS SHEET					492.40	128.20	1649.37	1055.83	107.10	81.78		3527.01

CONCRETE BARRIER

SHEET NUMBER	STATION FROM	STATION TO	TYPE 60D
L-4	517+34.89	518+20.00	85.11

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR CELINA AVILES
CALCULATED-DESIGNED BY KATHY PHAM
CHECKED BY AMIR ELSHARIEF
REVISED BY A.E.
DATE REVISED 10/20/8

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	410	869

Caltrans Metric

REGISTERED CIVIL ENGINEER 7/02/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

CONCRETE BARRIER

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	TYPE 60G	TYPE 60	TYPE 60RS	TYPE 60W	TYPE 60C	TYPE 60R	TYPE 60VF	TYPE 736B	REMOVE Conc BARRIER
				M	M	M	M	M	M	M	M	M
L-13	544+40.000	546+58.000	MED				218.00					218.00
L-13	546+58.000	546+90.000	MED						32.00			32.00
L-13	546+90.000	547+60.000	MED				70.00					70.00
L-14	547+60.000	548+00.000	MED				40.00					40.00
L-14	548+00.000	548+30.220	MED					30.22				30.22
L-14	548+30.220	550+70.000	MED				239.78					239.78
L-15	550+70.000	551+40.000	MED				70.00					70.00
L-15	551+40.000	551+48.500	MED		8.50							8.50
L-15	551+76.630	551+85.000	MED		8.37							36.50
L-15	551+85.000	554+10.000	MED				225.00					225.00
L-16	554+10.000	554+60.000	MED				50.00					50.00
L-16	554+60.000	554+73.730	MED					13.73				13.73
L-16	556+31.410	557+40.000	MED		108.59							266.27
L-16	556+51.560	557+03.700	NB								52.14	52.14
L-17	557+40.000	557+56.100	MED		16.10							16.10
L-17	558+10.700	560+02.000	MED		191.30							245.90
L-17	560+02.000	560+49.000	MED						47.00			47.00
L-17	560+49.000	560+90.000	MED				41.00					41.00
L-17	560+14.350	560+24.300	NB							9.95		00.00
L-17	560+19.180	560+29.050	SB							9.87		00.00
L-18	560+90.000	562+72.000	MED				182.00					182.00
L-18	562+72.000	563+30.000	MED						58.00			58.00
L-18	563+30.000	564+50.000	MED				120.00					120.00
L-19	564+50.000	565+82.000	MED				132.00					132.00
L-19	565+82.000	567+20.000	MED		138.00							138.00
L-20	567+20.000	568+51.000	MED		131.00							131.00
L-20	568+51.000	569+00.000	MED						49.00			49.00
L-20	569+00.000	569+63.760	MED		63.76							63.76
L-20	569+63.760	569+90.000	MED				26.24					26.24
L-20	568+54.610	568+77.340	NB							22.73		
L-20	568+75.060	568+97.820	SB							22.76		
L-21	569+90.000	572+80.000	MED				290.00					290.00
L-22	572+80.000	573+18.500	MED				38.500					38.500
L-22	573+18.500	573+49.000	MED						30.50			30.50
L-22	573+49.000	574+98.800	MED		149.80							149.80
L-22	574+98.800	575+31.100	MED			32.30						32.30
L-22	575+31.100	575+66.000	MED		34.90							34.90
SUBTOTAL FROM THIS SHEET					850.32	32.30	1742.52	43.95	216.50	65.31	52.14	3178.14

SUMMARY OF QUANTITIES

Q-2

A.E. 10/20/8 — REVISED BY / DATE REVISED

KATHY PHAM — CALCULATED-DESIGNED BY

AMIR ELSHARIEF — CHECKED BY

CELINA AVILES — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	411	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

CONCRETE BARRIER

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	TYPE 60G	TYPE 60	TYPE 60RS	TYPE 60W	TYPE 60C	TYPE 60R	TYPE 60VF	TYPE 736B	REMOVE Conc BARRIER
				M	M	M	M	M	M	M	M	M
L-23	575+66.000	577+28.900	MED		162.90							162.90
L-23	577+28.900	577+61.100	MED			32.20						32.20
L-23	577+61.100	577+70.00	MED		8.90							8.90
L-23	577+61.63	577+70.00	SB							8.37		
L-24	577+70.00	577+91+00	MED		21.00							21.00
L-24	577+91.000	579+60.000	MED						169.00			169.00
L-24	579+60.000	580+00.000	MED	40.00								40.00
L-24	578+28.000	579+32.760	NB						104.76			
L-24	578+32.260	578+52.10	NB (RAMP)							19.84		
L-24	579+18.67	579+31.010	NB (RAMP)							12.34		
L-24	577+70.000	577+78.010	SB							8.01		
L-24	578+25.880	578+45.570	SB							19.69		
L-24	579+20.400	579+29.570	SB							9.17		
L-24	579+61.310	579+78.450	SB							17.14		
SUBTOTAL FROM THIS SHEET				40.00	192.80	32.20	00.00	00.00	273.76	94.56	00.00	434.00
SUBTOTAL FROM SHEET Q-1				00.00	487.40	128.20	1654.37	1055.83	107.10	81.78	00.00	3527.01
SUBTOTAL FROM SHEET Q-2				00.00	850.32	32.30	1742.52	43.95	216.50	65.31	52.14	3178.14
TOTAL				40.00	1530.52	192.70	3396.89	1099.78	597.36	241.65	52.14	7139.15

SUMMARY OF ROADWAY QUANTITIES

SHEET NUMBER	STATIONS LINE	STATIONS FROM	STATIONS TO	LOCATIONS	HMA DIKES PLACE TYPE C	HMA DIKES PLACE TYPE D	HMA DIKES PLACE TYPE F	REMOVE AC DIKE	INSTALL CRASH CUSHION (TYPE CAT)	INSTALL CRASH CUSHION (TYPE REACT 9SCBS)	INSTALL CRASH CUSHION (SAND FILLED)	REMOVE CRASH CUSHION	MBGR	ALTERNATIVE IN LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	TRANSITION RAILING (TYPE WB)	(N) CONNECT EXISTG MBGR	REMOVE MBGR
					M	M	M	M	EA	EA	EA	EA	M	EA	EA	EA	EA	EA	M
L-1	Rte 5	509+13.00	510+40.00	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	127
L-2	Rte 5	510+40.00	512+60.286	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	220.3
L-2	Rte 5	512+22.69	512+34.86	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.17
L-3	Rte 5	514+94.32	515+09.70	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.38
L-4	Rte 5	517+45.04	517+60.98	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.94
L-4	Rte 5	519+25.75	519+40.75	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-4	HOLDWY4	519+51.54	519+79.44	Lt	-	-	27.9	-	-	-	-	-	27.9	-	-	-	1	-	-
L-4	HOLDWY4	519+19.11	519+79.44	Rt	-	-	60.33	-	-	-	-	-	60.33	-	-	-	-	-	-
L-4	HOLDWY4	519+79.44	519+94.73	Rt	15.29	-	-	-	-	-	-	-	-	-	1	-	-	-	-
L-4	HOLDWY4	518+92.00	519+06.50	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.5
L-4	HOLDWY4	519+79.44	519+94.58	Lt	15.14	-	-	-	-	-	-	-	-	-	1	-	-	-	-
L-4	Rte 5	519+51.90	520+06.92	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-4	Rte 5	519+80.00		Rt	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
L-4	HOLDWY1	519+93.49	520+10.00	Rt	-	-	16.51	-		-	-	-	16.51	-	-	-	-	-	16.51
SUBTOTAL Q-3					30.43	0	104.74	0	1	0	0	0	104.74	0	2	0	1	0	421.8

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KATHY PHAM
REVISED BY: A.E.
DATE REVISED: 5/14/8 10-08
CTT

LAST REVISION DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	412	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF ROADWAY QUANTITIES

SHEET NUMBER	STATIONS LINE	STATIONS FROM	STATIONS TO	LOCATIONS	HMA DIKES PLACE TYPE C	HMA DIKES PLACE TYPE D	HMA DIKES PLACE TYPE F	REMOVE AC DIKE	INSTALL CRASH CUSHION (TYPE CAT)	INSTALL CRASH CUSHION (TYPE REACT 9SCBS)	INSTALL CRASH CUSHION (SAND FILLED)	REMOVE CRASH CUSHION	MBGR	ALTERNATIVE IN LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	TRANSITION RAILING (TYPE WB)	(N) CONNECT EXISTG MBGR	REMOVE MBGR
					M	M	M	M	EA	EA	EA	EA	M	EA	EA	EA	EA	EA	M
L-5	HOLDWY2	520+46.99	522+06.02	Lt	-	159.03	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	HOLDWY2	520+54.71	523+30.00	Rt	-	275.29	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	HOLDWY2	523+13.05	523+30.00	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.95
L-5	HOLDWY2	522+55.38	523+30.00	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	HOLDWY1	520+10.00	520+44.30	Rt	-	-	34.3	-	-	-	-	-	34.3	-	-	-	-	-	34.3
L-5	HOLDWY3	521+25.18	523+30.00	Lt	-	204.82	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	Rte 5	521+83.13	523+30.00	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-5	HOLDWY2	522+32.97	523+16.94	Lt	-	-	-	85.66	-	-	-	-	-	-	-	-	-	-	-
L-5	Rte 5	522+72.34	523+30.00	Rt	-	-	-	57.7	-	-	-	-	-	-	-	-	-	-	-
L-6	HOLDWY2	523+30.00	523+38.79	Lt	-	-	-	-	1	-	-	1	-	-	-	-	-	-	8.79
L-6	HOLDWY2	523+30.00	523+60.16	Rt	-	30.16	-	-	-	-	-	-	-	-	-	-	-	-	-
L-6	Rte 5	523+30.00	523+68.92	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-6	Rte 5	523+30.00	523+46.98	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
L-6	Rte 5	523+30.00	523+62.51	Rt	-	-	-	32.51	-	-	-	-	-	-	-	-	-	-	-
L-6	HOLDWY3	523+30.00	523+46.80	Lt	-	16.80	-	-	-	-	-	-	-	-	-	-	-	-	-
L-6	Rte 5	525+20.67	525+45.59	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.92
L-6	Rte 5	525+45.59	526+14.88	Rt	-	-	-	69.29	-	-	-	-	-	-	-	-	-	-	-
L-9	Rte 5	534+30.03	534+56.90	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.87
L-9	Rte 5	535+25.00	535+30.00	Lt	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
L-9	Rte 5	535+27.21	535+30.00	Rt	-	-	-	-	-	-	-	-	2.79	1	-	-	-	-	-
L-10	Rte 5	535+61.00	535+77.76	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.76
L-10	Rte 5	535+63.86	535+91.40	Lt	-	-	-	-	-	-	-	-	27.54	1	-	-	1	-	-
L-10	Rte 5	535+30.00	535+34.38	Rt	-	-	-	-	-	-	-	-	4.38	-	-	-	1	-	-
L-10	Rte 5	537+83.40	537+91.00	Rt	-	-	-	-	-	-	-	-	7.6	1	-	-	-	-	7.6
L-11	Rte 5	541+20.00		Lt	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
L-12	Rte 5	541+90.00		Lt	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
L-12	Rte 5	542+20.41	542+28.01	Lt	-	-	-	-	-	-	-	-	7.6	1	-	-	1	-	-
L-12	Rte 5	541+79.52	542+28.01	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48.49
L-12	Rte 5	541+41.92	541+90.41	Rt	-	-	-	-	-	-	-	-	-	-	-	-	1	-	48.49
L-12	Rte 5	541+41.92	541+49.52	Rt	-	-	-	-	-	-	-	-	7.6	1	-	-	-	-	-
L-13	Rte 5	545+47.10	545+66.88	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.78
L-13	Rte 5	545+27.10	546+66.99	Lt	-	-	-	-	-	-	-	-	139.89	-	-	1	-	1	-
L-13	Rte 5	547+08.05	547+33.42	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.37
L-13	Rte 5	547+08.05	547+60.00	Lt	-	-	-	-	-	-	-	-	51.95	-	-	-	-	1	-
SUBTOTAL Q-4					0	686.10	34.3	245.16	1	0	3	1	283.65	5	0	1	4	2	278.33

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-4

CTT	10-08		
A.E.	5/14/8		
REVISED BY	DATE REVISED		
KATHY PHAM	AMIR ELSHARIEF		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 10-11-08 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	413	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF ROADWAY QUANTITIES

SHEET NUMBER	STATIONS LINE	STATIONS FROM	STATIONS TO	LOCATIONS	HMA DIKES PLACE TYPE C	HMA DIKES PLACE TYPE D	HMA DIKES PLACE TYPE F	REMOVE AC DIKE	INSTALL CRASH CUSHION (TYPE CAT)	INSTALL CRASH CUSHION (TYPE REACT 9SCBS)	INSTALL CRASH CUSHION (SAND FILLED)	REMOVE CRASH CUSHION	MBGR	ALTERNATIVE IN LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	TRANSITION RAILING (TYPE WB)	(N) CONNECT EXISTG MBGR	REMOVE MBGR
					M	M	M	M	EA	EA	EA	EA	M	EA	EA	EA	EA	EA	M
L-13	Rte 5	546+56.10	546+73.20	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.1
L-13	Rte 5	546+54.20	546+73.20	Rt	-	-	-	-	-	-	-	-	19	1	-	-	-	1	-
L-13	Rte 5	547+21.00	547.60.00	Rt	-	-	-	-	-	-	-	-	39	-	-	-	-	1	-
L-14	Rte 5	547+60.00	549+68.88	Lt	-	-	-	-	-	-	-	-	208.88	1	-	-	-	-	-
L-14	Rte 5	549+77.10	549+88.50	Lt	-	-	-	-	-	-	-	-	11.4	-	1	-	-	-	-
L-14	Rte 5	547+60.00	547+96.90	Rt	-	-	-	-	-	-	-	-	36.9	-	-	1	-	-	-
L-15	RAMP H2	551+40.98	551+57.40	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.42
L-15	RAMP H2	551+29.01	551+57.40	Lt	-	-	-	-	-	-	-	-	28.39	-	-	-	-	-	-
L-15	PAMP H2	552+08.49	552+54.20	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45.71
L-15	Rte 5	552+05.04	554+10.00	Lt	-	-	-	-	-	-	-	-	204.96	-	-	-	1	-	-
L-15	Rte 5	551+86.80	552+07.59	Lt	-	-	-	-	-	1	-	1	20.79	-	-	-	1	-	20.79
L-15	Rte 5	551+91.32	552+07.59	Lt	-	-	-	-	-	-	-	-	16.27	-	-	-	1	-	16.27
L-15	Rte 5	551+19.01		Rt	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
L-15	Rte 5	551+83.57		Rt	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-
L-16	Rte 5	554+89.73		Rt	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
L-16	Rte 5	554+10.00	554+48.27	Lt	-	-	-	-	-	-	-	-	38.27	-	-	-	-	-	-
L-16	Rte 5	556+14.85	556+29.95	Lt	-	-	-	-	-	-	-	-	15.1	1	-	-	1	-	15.1
L-17	Rte 5	558+52.00	558+64.86	Lt	-	-	-	-	-	-	-	-	-	-	-	-	1	-	12.86
L-17	Rte 5	558+59.62	560+11.56	Lt	-	-	-	-	-	-	-	-	151.94	-	-	-	-	-	-
L-17	Rte 5	560+15.26	560+38.35	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.09
L-17	Rte 5	560+29.05	560+36.67	Lt	-	-	-	-	-	-	-	-	7.62	-	1	-	1	-	-
L-17	Rte 5	559+51.50	559+62.90	Rt	-	-	-	-	-	-	-	-	11.4	1	-	-	-	-	-
L-17	Rte 5(*)	558+31.30	558+50.48	Rt	-	-	-	-	-	-	-	-	19.08	-	1	-	1	-	19.55
L-17	Rte 5(*)	559+17.505	560+50.48	Rt	-	-	-	-	-	-	-	-	104.1	-	-	-	1	-	104.1
L-17	Rte 5	560+05.75	560+30.53	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.78
L-17	Rte 5(*)	560+06.00	560+14.35	Rt	-	-	-	-	-	-	-	-	8.90	1	-	-	1	-	-
L-17	Rte 5(*)	559+12.927	560+76.00	Rt	-	-	-	-	-	-	-	-	172.57	-	-	1	-	-	172.57
L-18	Rte 5	563+08.20	563+22.70	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.5
L-18	Rte 5(*)	563+17.056	563+24.389	Lt	-	-	-	-	-	-	-	-	7.6	1	-	-	1	-	-
L-18	Rte 5	564+17.10	564+32.30	Lt	-	-	-	-	-	-	-	-	15.2	-	1	-	-	-	-
L-18	Rte 5	562+71.76	562+87.79	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.03
L-18	Rte 5	562+59.50	562+74.75	Rt	-	-	-	-	-	-	-	-	15.2	1	-	-	1	-	-
L-20	Rte 5	568+97.82		Lt	-	-	-	-	-	-	-	-	7.52	1	-	-	1	-	-
L-20	Rte 5	568+46.30	568+63.50	Rt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.2
L-20	Rte 5	568+47.01	568+54.61	Rt	-	-	-	-	-	-	-	-	7.6	1	-	-	1	-	-
L-21	Rte 5	570+97.10	571+12.30	Lt	-	-	-	-	-	-	-	-	15.2	-	1	-	-	-	-
L-21	Rte 5	571+44.75	571+65.10	Lt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.35
L-22	Rte 5	573+30.20	573+43.40	Lt	-	-	-	-	-	-	-	-	13.2	1	-	1	-	-	13.2
SUBTOTAL Q-5					0	0	0	0	0	1	0	1	1196.09	10	5	3	16	4	569.62

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
(*) ACTUAL MEASUREMENT ON PLAN.

SUMMARY OF QUANTITIES

Q-5

CTT	10-08	REVISED BY	DATE REVISED
A.E.	5/14/8	KATHY PHAM	AMIR ELSHARIEF
CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 10-14-08 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	414	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF ROADWAY QUANTITIES

SHEET NUMBER	STATIONS LINE	STATIONS FROM	STATIONS TO	LOCATIONS	HMA DIKES PLACE TYPE C	HMA DIKES PLACE TYPE D	HMA DIKES PLACE TYPE F	REMOVE AC DIKE	INSTALL CRASH CUSHION (TYPE CAT)	INSTALL CRASH CUSHION (TYPE REACT 9SCBS)	INSTALL CRASH CUSHION (SAND FILLED)	REMOVE CRASH CUSHION	MBGR	ALTERNATIVE IN LINE TERMINAL SYSTEM	ALTERNATIVE FLARED TERMINAL SYSTEM	TERMINAL ANCHOR ASSEMBLY (TYPE SFT)	TRANSITION RAILING (TYPE WB)	(N) CONNECT EXISTG MBGR	REMOVE MBGR
					M	M	M	M	EA	EA	EA	EA	M	EA	EA	EA	EA	EA	M
L-22	Rte 5	574+97.10	575+12.30	L†	-	-	-	-	-	-	-	-	15.2	-	1	-	-	-	-
L-22	Rte 5	573+11.58	573+38.16	R†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.58
L-22	Rte 5	573+19.16	573+38.16	R†	-	-	-	-	-	-	-	-	19.0	1	-	1	-	-	-
L-22	Rte 5	573+80.27	574+03.356	R†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23.09
L-23	Rte 5	577+61.63	577+70.00	L†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.37
L-24	Rte 5	577+70.00	577+78.01	L†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.01
L-24	Rte 5	578+25.88	578+45.57	L†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.69
L-24	Rte 5	578+45.57	579+20.40	L†	-	-	-	-	-	-	-	-	74.83	-	-	-	1	-	-
L-24	Rte 5	579++20.40	579+29.57	L†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.17
L-24	Rte 5	579+78.45	579+89.87	L†	-	-	-	-	-	-	-	-	11.42	1	-	-	1	-	-
L-24	Rte 5	579+61.31	580+00.00	L†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.69
L-24	Rte 5	578+09.45	578+52.10	R†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42.65
L-24	Rte 5	579+18.67	579+31.01	R†	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.34
L-24	Rte 5	578+28.00		R†	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
L-24	Rte 5	578+09.45	578+32.26	R†	-	-	-	-	-	-	-	-	22.81	1	-	-	1	-	-
SUBTOTAL Q-6					0	0	0	0	0	1	0	0	143.26	3	1	1	3	0	188.59
SUBTOTAL Q-5					0	0	0	0	0	1	0	1	1196.09	10	5	3	16	4	569.62
SUBTOTAL Q-4					0	686.10	34.3	245.16	1	0	3	1	283.65	5	0	1	4	2	278.33
SUBTOTAL Q-3					30.43	0	104.74	0	1	0	0	0	104.74	0	2	0	1	0	421.80
TOTAL					30.43	686.10	139.04	245.16	2	2	3	2	1727.74	18	8	5	24	6	1458.34

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
(*) ACTUAL MEASUREMENT ON PLAN.

SUMMARY OF QUANTITIES

Q-6

KATHY PHAM	REVISED BY	A.E.	CTT
AMIR ELSHARIEF	DATE REVISED	5/14/8	10-08
CALCULATED-DESIGNED BY			
CHECKED BY			
FUNCTIONAL SUPERVISOR			
CELINA AVILES			

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 10-14-08 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	415	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

RETAINING WALL

SHEET NUMBER	STATION FROM	STATION TO	TYPE (N)	RETAINING WALL No. (N)	DESIGN HEIGHT (N)	LENGTH (N)	STRUCTURAL CONCRETE, RETAINING WALL	BAR REINFORCING STEEL (RETAINING WALL)	STRUCTURE EXCAVATION (RETAINING WALL)	STRUCTURE BACKFILL (RETAINING WALL)	PERVIOUS BACKFILL MATERIAL (RETAINING WALL)	CONCRETE BARRIER (TYPE 736A)	FRACTURED RIB TEXTURE
					M	M	M3	KG	M3	M3	M3	M	M2
R-1	509+05.000	510+40.000	TYPE 1	RW 509	4.800	135.000	442.8	27135.00	973.2	1738.5	128.0	135.000	2015.6
R-2	510+40.000	511+28.700	TYPE 1	RW 509	4.800	88.700	290.9	17828.70	788.3	1282.8	66.1	88.700	
R-2	511+28.700	511+52.700	TYPE 1	RW 509	4.200	24.000	68.7	3768.00	230.0	325.7	13.6	24.000	1907.1
R-2	511+52.700	511+80.000	TYPE 1	RW 509	3.600	27.300	64.7	3084.90	206.5	283.6	11.8	27.300	
R-3	511+80.000	512+61.648	TYPE 1	RW 509	3.600	81.648	193.5	9226.22	499.7	762.4	57.6	81.648	881.0
R-4	509+07.000	510+40.000	TYPE 1	RW 510	4.200	133.000	380.6	20881.00	1201.5	1479.5	106.8	133.000	1730.3
R-5	510+40.000	510+45.300	TYPE 1	RW 510	4.200	5.300	15.2	832.10	53.2	63.4	4.2	5.300	
R-5	510+45.300	510+57.300	TYPE 1	RW 510	5.500	12.000	45.2	3372.00	193.8	217.6	9.7	12.000	1728.3
R-5	510+57.300	511+80.000	TYPE 1	RW 510	4.200	122.700	351.1	19263.90	1074.9	1477.9	82.3	122.700	
R-6	511+80.000	512+35.000	TYPE 1	RW 510	4.200	55.000	157.4	8635.00	491.8	606.8	43.8	55.000	666.0
R-8	512+78.220	512+90.220	TYPE 1	RW 512	3.600	12.000	28.4	1356.00	80.6	129.9	4.6	12.000	
R-8	512+90.220	513+02.220	TYPE 1	RW 512	4.800	12.000	39.4	2412.00	184.9	214.1	4.4	12.000	
R-8	513+02.220	513+14.220	TYPE 1	RW 512	4.200	12.000	34.3	1884.00	108.4	151.3	5.2	12.000	921.1
R-8	513+14.220	513+62.220	TYPE 1	RW 512	3.600	48.000	113.8	5424.00	310.1	478.2	27.1	48.000	
R-8	513+62.220	513+80.000	TYPE 1	RW 512	4.200	17.780	50.9	2791.46	146.0	211.2	10.3	17.780	
R-9	513+80.000	514+09.920	TYPE 1	RW 512	4.200	29.920	85.6	4697.44	262.1	382.8	16.0	29.920	747.0
R-9	514+09.920	514+55.000	TYPE 1	RW 512	3.600	45.080	106.9	5094.04	337.2	477.8	20.8	45.080	
R-10	514+55.000	514+65.420	TYPE 1	RW 512	3.600	10.420	24.7	1177.46	82.4	115.8	4.8	10.420	
R-10	514+65.420	514+82.220	TYPE 1	RW 512	4.200	16.800	48.1	2637.60	150.2	208.0	6.7	16.800	
R-10	514+82.220	515+01.420	TYPE 1	RW 512	5.500	19.200	72.3	5395.20	297.8	387.0	6.5	19.200	571.0
R-10	515+01.420	515+22.259	TYPE 1	RW 512	4.200	11.219	32.1	1761.49	98.3	158.4	1.8	11.219	
R-10	515+12.64	515+27.352	TYPE1/SW	RW 512	4.200	14.712	54.3	2353.00	152.3	207.7	2.36	14.712	
R-12	518+92.000	519+06.275	TYPE 1	RW 519	4.800	14.275	46.8	2869.28	111.4	181.1	9.4	14.275	508.5
R-12	519+06.275	519+41.383	TYPE 5	RW 519	3.600	35.108	112.9	4458.72	279.2	486.5	7.0	35.108	
R-13	522+00.844	522+32.044	TYPE 5	RW 529	1.800	31.200	38.2	1560.00	137.3	135.6	4.5	31.200	
R-13	522+32.044	522+53.644	TYPE 5	RW 529	2.400	21.600	36.3	1598.40	117.5	142.9	6.7	21.600	504.7
R-13	522+53.644	522+77.944	TYPE 5	RW 529	3.000	24.300	53.3	2430.00	157.4	212.2	10.5	24.300	
R-13	522+77.944	523+05.439	TYPE 5	RW 529	3.600	27.495	88.4	3491.86	217.0	304.9	13.9	27.495	
R-14	519+40.152	519+61.750	TYPE 1	RW 533	7.300	21.598	126.8	12051.68	660.5	767.4	23.6	21.598	
R-14	519+61.750	519+85.750	TYPE 1	RW 533	6.700	24.000	117.2	11448.00	482.2	573.9	28.3	24.000	1338.0
R-14	519+85.750	520+20.007	TYPE 1	RW 533	6.100	34.257	144.3	12161.23	506.6	635.9	45.1	34.257	
TOTAL FROM THIS SHEET							3465.1	203079.68	10592.3	14800.8	783.46	1167.612	13518.6
TOTAL FROM STRUCTURE PLANS							3860.0	227000.00	5100.0	10470.0	500.0		3250.0
GRAND TOTAL						1167.612	7325.1	430079.68	15692.3	25270.8	1283.46	1167.612	16768.6

(N) ---- NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

Q-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: KATHY PHAM
CHECKED BY: AMIR ELSHARIEF
REVISED BY: A.E. DATE REVISED: 5/14/8
CTT 10/08

LAST REVISION 10-17-08 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	416	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF SOUND WALL QUANTITIES

PLAN SHEET	STATION FROM	STATION TO	LOCATION	SOUND WALL No.	TYPES	LENGTH (N)	WALL HEIGHT (N)	BARRIER HEIGHT (N)	MASONRY BLOCK HEIGHT (N)	SOUND WALL (MASONARY BLOCK)	CONCRETE BARRIER (TYPE 736SV)	400mm CIDH CONCRETE PILING	600mm CIDH CONCRETE PILING	MINOR CONCRETE (SOUND WALL)	CONCRETE BARRIER (TYPE 736S)
						M	M	M	M	M2	M	M	M	M3	M
SW-1	515+25.070	516+35.000	RT	516	BARRIER	109.93	4.37	0.91	3.46	380.4	109.93	592.9	-	-	-
SW-2	516+35.000	517+45.000	RT	516	BARRIER	110.00	4.37	0.91	3.46	380.6	110.00	524.3	13.2	2.0	-
SW-3	517+45.000	518+38.330	RT	516	BARRIER	93.33	4.37	0.91	3.46	322.9	93.33	480.2	13.2	1.9	-
SW-5	519+80.410	520+60.000	RT	520	BARRIER	79.59	4.37	0.91	3.46	275.4	79.59	254.8	-	-	-
SW-7	522+25.000	523+40.000	LT	521	BARRIER	115.00	4.37	0.91	3.46	397.9	115.00	377.3	-	-	-
SW-9	519+05.048	519+52.480	RT(RAMP)	522	BARRIER	47.43	4.37	0.91	3.46	164.1	47.43	245.0	-	-	-
SW-11	521+97.000	523+10.000	RT(RAMP)	524	BARRIER	113.00	4.37	0.91	3.46	391.0	113.00	294.0	-	-	-
SW-12	523+10.000	524+20.000	RT(RAMP)	524	BARRIER	110.00	4.37	0.91	3.46	380.6	110.00	289.1	-	-	-
SW-13	524+20.000	525+30.990	RT(RAMP)	524	BARRIER	110.99	4.37	0.91	3.46	384.0	110.99	303.8	-	-	-
SW-15	521+29.730	522+25.370	RT	528	BARRIER	95.64	4.37	0.91	3.46	330.9	95.64	416.5	13.2	1.9	-
SW-16	534+19.980	535+16.137	LT	535	TRENCH	96.16	4.27	-	4.27	410.6	-	-	-	110.0	-
SW-18	535+74.808	539+01.590	LT	537	TRENCH	326.78	4.27	-	4.27	1395.4	-	-	-	373.5	-
SW-19	539+01.590	541+13.586	LT	537	TRENCH	212.00	4.27	-	4.27	905.2	-	-	-	242.3	-
SW-21	540+80.000	541+25.000	LT(RAMP)	541	BARRIER	45.00	4.37	0.91	3.46	155.7	45.00	147.0	-	-	-
SW-21	541+25.000	541+94.700	LT(RAMP)	541	BARRIER	69.70	4.37	0.91	3.46	241.2	-	112.7	-	-	69.7
SW-23	543+15.540	544+06.485	LT	543	PILE CAP	90.95	4.27	-	4.27	388.4	-	187.2	-	22.2	-
SW-24	544+06.485	544+74.809	LT	543	PILE CAP	68.32	4.27	-	4.27	291.7	-	119.6	-	16.7	-
SW-26	563+77.905	566+00.000	LT	565	TRENCH	222.10	4.88	-	4.88	1083.9	-	-	-	270.8	-
SW-27	566+00.000	568+79.745	LT	565	TRENCH	279.75	4.88	-	4.88	1365.2	-	-	-	341.1	-
SW-29	569+56.000	571+20.000	RT	568	TRENCH	164.00	4.88	-	4.88	800.3	-	-	-	199.9	-
SW-30	571+20.000	573+45.098	RT	568	TRENCH	225.10	4.88	-	4.88	1098.5	-	-	-	274.4	-
SUB-TOTAL (Q-8)										11543.9	1029.91	4344.4	39.6	1856.7	69.7

NOTES:

1. ACTUAL MEASUREMENT BASED ON SOUND WALL ALIGNMENT
2. (N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR CELINA AVILES
CALCULATED-DESIGNED BY AMIR ELSHARIEF
CHECKED BY CUONG T. TRAN
REVISED BY
DATE REVISED

LAST REVISION 6-03-09
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:53

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	417	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF SOUND WALL QUANTITIES

PLAN SHEET	STATION		LOCATION	SOUND WALL No.	TYPES	LENGTH (N)	WALL HEIGHT (N)	BARRIER HEIGHT (N)	MASONRY BLOCK HEIGHT (N)	SOUND WALL (MASONARY BLOCK)	CONCRETE BARRIER (TYPE 736SV)	400mm CIDH CONCRETE PILING	600mm CIDH CONCRETE PILING	MINOR CONCRETE (SOUND WALL)	CONCRETE BARRIER (TYPE 736S)
	FROM	TO				M	M	M	M	M2	M	M	M	M3	M
SW-32	568+99.544	570+00.000	LT	569	PILE CAP	100.46	4.88	-	4.88	490.2	-	200.9	-	24.5	-
SW-33	570+00.000	571+20.000	LT	569	PILE CAP	120.00	4.88	-	4.88	585.6	-	245.0	-	29.2	-
SW-34	571+20.000	572+20.000	LT	569	PILE CAP	100.00	4.88	-	4.88	488.0	-	196.0	-	24.4	-
SW-35	572+20.000	573+17.562	LT	569	PILE CAP	97.56	4.88	-	4.88	476.1	-	200.9	-	23.8	-
SW-35	573+25.819	573+35.000	LT	569	PILE CAP	9.18	4.88	-	4.88	44.8	-	19.6	-	2.2	-
SW-36	573+35.000	574+45.000	LT	569	PILE CAP	110.00	4.88	-	4.88	536.8	-	230.3	-	26.8	-
SW-37	574+45.000	575+49.688	LT	569	PILE CAP	104.69	4.88	-	4.88	510.9	-	210.7	-	25.5	-
SW-39	568+73.927	569+65.193	RT	566	PILE CAP	91.27	5.18	-	4.27	389.7	-	201.6	-	37.2	-
SW-41	575+72.200	576+59.313	LT(RAMP)	576	PILE CAP	87.11	3.66	-	3.66	318.8	-	131.6	-	21.2	-
SW-42	576+59.313	577+47.125	LT(RAMP)	576	PILE CAP	87.81	3.66	-	3.66	321.4	-	136.3	-	21.4	-
R-10	515+12.640	515+27.352	RT	-	-	14.712	4.37	0.910	3.46	50.9	-	-	-	-	-
SUB-TOTAL FROM THIS SHEET										4213.2	-	1772.9	-	236.2	-
SUB-TOTAL (Q-8)										11543.9	1029.91	4344.4	39.6	1856.7	69.7
TOTAL										15757.1	1029.91	6117.3	39.6	2092.9	69.7
TOTAL FROM STRUCTURE PLANS										5248.0	-	-	-	-	-
GRAND-TOTAL										21005.1	1029.91	6117.3	39.6	2092.9	69.7

NOTES:

ACTUAL MEASUREMENT BASED ON SOUND WALL ALIGNMENT
(N) -- NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: CUONG T. TRAN
CHECKED BY: AMIR ELSHARIEF
REVISED BY
DATE REVISED

LAST REVISION 6-03-09
DATE PLOTTED => 06-MAY-2010
TIME PLOTTED => 10:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	418	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

REMOVE SOUND WALL

SHEET No.	STATION FROM	STATION TO	DIRECTION	LENGTH (N) m	WALL HEIGHT (N) m	REMOVE SOUND WALL m2
L-2	513+12.42	513+60.00	SB	47.58	3.66	174
L-3	513+60.00	517+30.00	SB	370.0	3.66	1354
L-3	515+10.68	517+30.00	NB	219.32	4.27	937
L-4	517+30.00	519+47.38	NB(RAMP)*	219.5	4.27	937
L-4	519+81.20	520+10.00	NB	28.8	3.66	105
L-4	517+30.00	518+92.00	SB	162.0	3.66	593
L-5	520+10.00	520+60.00	NB	50.0	3.66	183
L-5	521+29.73	522+72.34	NB	142.61	3.66	522
L-5	521+96.54	523+30.00	NB	133.46	3.66	489
L-5	520+84.72	523+30.00	SB	245.28	4.27	1047
L-6	523+30.00	523+40.00	SB	10.00	4.27	43
L-6	523+30.00	525+42.56	NB	212.56	3.66	778
L-18	564+10.00	564+50.00	SB(RAMP)*	50.15	2.44	122
L-19	564+50.00	567+20.00	SB(RAMP)*	290.53	2.44	709
L-20	567+20.00	568+80.00	SB	160.0	2.44	390
L-20	568+99.60	569+90.00	SB	90.4	2.44	221
L-20	568+72.50	569+90.00	NB	117.5	2.44	287
L-21	569+90.00	572+80.00	SB	290.0	2.44	708
L-21	569+90.00	572+80.00	NB	290.0	2.44	708
L-22	572+80.00	573+32.50	SB	52.5	2.44	128
L-22	573+35.44	575+66.00	SB*	234.45	2.44	572
L-22	572+80.00	573+30.00	NB	50.0	2.44	122
			TOTAL	3467		11129

REMOVE CHAIN LINK FENCE

SHEET No.	STATION FROM	STATION TO	DIRECTION	LENGTH m
L-5	522+71.43	523+30.00	SB	58.57
L-6	523+30.00	526+60.00	SB	330.00
L-7	526+60.00	527+14.57	SB	54.57
L-9	534+20.70	535+25.00	SB	104.30
L-10	535+74.31	538+70.00	SB	295.69
L-11	538+70.00	541+20.00	SB	250.00
L-11	541+26.07	541+30.00	SB	3.93
L-12	541+30.00	541+99.76	SB	69.76
L-12	543+20.00	544+40.00	SB	120.00
L-13	544+40.00	544+78.26	SB	38.26
			TOTAL	1325.08

MINOR CONCRETE (STAMPED CONCRETE)

SHEET No.	STATION FROM	STATION TO	DIRECTION	MINOR CONCRETE (STAMPED CONCRETE) m2
L-4	518+40.37	519+17.05	NB	273.44
L-4	519+51.90	520+10.00	NB	230.68
L-4	519+25.75	519+48.55	SB	129.62
L-4	519+61.66	519+83.47	SB	181.69
L-4	519+40.260	519+50.370	SB ON-RAMP	30.00
L-5	520+10.00	523+29.30	NB	165.30
L-5	521+56.11	523+30.00	NB	1092.90
L-5	522+55.95	523+30.00	SB	1290.66
L-6	523+30.00	523+46.98	NB	64.01
L-6	523+30.00	523+68.92	SB	147.51
			TOTAL	3605.81

CHAIN LINK GATE

SHEET No.	STATION	DIRECTION	REMOVE GATE	CHAIN LINK GATE
L-6	525+42.56	NB	1	
L-20	568+98.40	SB		1
L-20	568+72.75	NB		1
		TOTAL	1	2

TEMPORARY FENCE (TYPE CL-2.4, SLATTED)

SHEET No.	STATION FROM	STATION TO	DIRECTION	LENGTH m
L-3	517+15.05	517+30.00	SB	14.95
L-4	517+30.00	519+52.78	SB	222.78
L-5	522+57.43	523+30.00	SB	72.57
L-6	523+30.00	526+60.00	SB	330.00
L-7	526+60.00	527+43.44	SB	83.44
L-9	534+20.00	535+30.00	SB	110.00
L-10	535+30.00	535+47.30	SB	17.30
L-10	535+68.95	538+70.00	SB	301.05
L-11	538+70.00	541+19.78	SB	249.78
L-12	543+19.84	544+40.00	SB	120.16
L-13	544+40.00	544+78.26	SB	38.26
L-18	564+10.00	564+50.00	SB	40.00
L-19	564+50.00	567+20.00	SB	270.00
L-20	567+20.00	568+80.92	SB	160.92
L-20	569+00.00	569+90.00	SB	90.00
L-21	569+90.00	572+80.00	SB	290.00
L-22	572+80.00	575+60.00	SB	280.00
L-20	569+48.61	569+90.00	NB	41.39
L-21	569+90.00	572+80.00	NB	290.00
L-22	572+80.00	573+29.70	NB	49.70
L-23	575+72.20	577+11.30	NB	139.10
			TOTAL	3211.40

REMOVE RETAINING WALL

SHEET No.	STATION FROM	STATION TO	DIRECTION	LENGTH m
L-4	519+86.37	520+10.00	SB	23.63
L-5	520+10.00	520+19.87	SB	9.87
			TOTAL	33.50

RECONSTRUCT CHAIN LINK FENCE

SHEET No.	STATION FROM	STATION TO	DIRECTION	LENGTH m
L-4	518+20.55	519+51.54	SB	130.99
			TOTAL	130.99

NOTES:

(N) ---- NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.
(*) ---- ACTUAL MESUREMENT ON PLAN.

SUMMARY OF QUANTITIES

Q-10

O.B.	10/20/8		
A.E.	5/14/8		
REVISED BY	DATE REVISED		
KATHY PHAM	AMIR ELSHARIEF		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 06-03-09 | DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	419	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

EXCAVATION (AERIALLY DEPOSITED LEAD)

SHEET NUMBER	STATION FROM	STATION TO	LOCATION	EXCAVATION TYPE	ROADWAY EXCAVATION DEPTH M	ROADWAY EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD) M3	ROADWAY EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD) M3	STRUCTURE EXCAVATION DEPTH M	STRUCTURE EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD) M3	STRUCTURE EXCAVATION (TYPE Y2) (AERIALLY DEPOSITED LEAD) M3	STRUCTURE EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD) M3
C-13	509+13.00	510+40.00	RW 510	Y2, Z3 SOIL	-	-	-	0 TO 0.75		304.6	76.1
	509+13.00	510+40.00	W/RT	Y2-SOIL	0 TO 0.75	163.4	-	-		-	-
	509+13.00	510+40.00	G/RT	Z3-SOIL	0 TO 0.15	-	266.0	-		-	-
	509+13.00	510+40.00	RW 509	Y1-SOIL	-	-	-	0 TO 0.90	468.3	-	-
	509+13.00	510+40.00	W/LT	Y2-SOIL	0 TO 0.75	198.7	-	-		-	-
	509+13.00	510+40.00	G/LT	Y2-SOIL	0 TO 0.15	132.3	-	-		-	-
C-14	510+40.00	512+35.00	RW 510	Y2-SOIL	-	-	-	0 TO 0.75		601.0	36.1
	512+88.00	513+60.00	RW 512	Y2-SOIL	-	-	-	0 TO 0.45		181.4	-
	510+40.00	510+96.50	G/RT	Z3-SOIL	0 TO 0.15	-	72.4	-		-	-
	510+96.50	512+37.00	G/RT	Y2-SOIL	0 TO 0.15	178.3	-	-		-	-
	510+40.00	512+37.00	W/RT	Y2-SOIL	0 TO 0.75	274.6	-	-		-	-
	512+88.00	513+60.00	W/RT	Y2-SOIL	0 TO 0.75	104.7	-	-		-	-
	510+40.00	512+81.38	RW 509	Y1-SOIL	-	-	-	0 TO 0.90	947.7	-	-
	510+40.00	512+81.38	W/LT	Y2-SOIL	0 TO 0.75	385.3	-	-	-	-	-
	510+40.00	512+81.38	G/LT	Y2-SOIL	0 TO 0.15	235.2	-	-	-	-	-
	513+06.45	513+60.00	W/LT	Y2-SOIL	0 TO 0.75	58.6	-	-	-	-	-
C-15	513+60.00	515+10.00	RW 512	Y2-SOIL	-	-	-	0 TO 0.45	-	303.8	-
	513+60.00	517+30.00	W/RT	Y2-SOIL	0 TO 0.45	292.3	-	-	-	-	-
	513+60.00	517+30.00	W/LT	Y2-SOIL	0 TO 0.45	363.1	-	-	-	-	-
											-
											-
C-16	517+30.00	520+10.00	W/RT	Y2-SOIL	0 TO 0.75	23.6	-	-	-		
	517+30.00	520+10.00	RW 519	Y1-SOIL	-	-	-	0 TO 0.90	216.0	-	-
	517+30.00	520+10.00	W/LT	Y2-SOIL	0 TO 0.75	240.5	-	-	-	-	-
	519+25.75	520+10.00	RW 533	Y1-SOIL	-	-	-	0 TO 0.75	252.6	-	-
C-17	520+74.20	523+30.00	W/LT	Y2-SOIL	0 TO 0.75	400.0	-	-	-	-	-
C-18	523+30.00	526+60.00	W/LT	Y2-SOIL	0 TO 0.75	79.1	-	-	-	-	-
	523+30.00	525+29.91	SW 524	Y2-SOIL				0 TO 0.45	-	17.7	
C-19	526+60.00	529+40.00	W/LT	Y2-SOIL	0 TO 0.75	21.1	-	-	-	-	-
				SUB TOTAL (Q-11)		3150.8	338.4		1884.6	1408.5	112.2

NOTES:

(W/LT)---- WIDENING LEFT SIDE.
(W/RT)---- WIDENING RIGHT SIDE.
(RW & SW)---- SW516, RW518, SW522.
(G)---- GRUBBING.

TEMPORARY WATER POLLUTION PREVENTION

TEMPORARY MULCH (m^3)	2400
TEMPORARY FIBER ROLL (m)	4000
TEMPORARY SILT FENCE (m)	2000
TEMPORARY GRAVEL BAG BERM (m)	1000
TEMPORARY CONCRETE WASHOUT FACILITY (EA)	12
TEMPORARY CONSTRUCTION ENTERANCE (EA)	13
TEMPORARY COVER (m^2)	10000
MOVE IN/MOVE OUT (EA) (TEMPORARY EROSION CONTROL)	6
TEMPORARY DRAINAGE INLET PROTECTION (EA)	50

SUMMARY OF QUANTITIES

Q-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR CELINA AVILES
CALCULATED-DESIGNED BY AMIR ELSHARIEF
CHECKED BY KYLE KUNITAKE
REVISED BY A.E.
DATE REVISED 5/14/8

LAST REVISION 07-24-07
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 0554

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	420	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SOUNDWALL EXCAVATION (AERIALLY DEPOSITED LEAD)

SHEET NUMBER	STATION FROM	STATION TO	LOCATION	EXCAVATION TYPE	ROADWAY EXCAVATION DEPTH	ROADWAY EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	ROADWAY EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION DEPTH	STRUCTURE EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Y2) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)
					M	M3	M3	M	M3	M3	M3
C-20	534+20.70	535+30.00	SW 535	Y2-SOIL	-	-	-	0 TO 0.15		6.28	-
C-21	535+66.20	538+70.00	SW 537	Y2-SOIL	-	-	-	0 TO 0.15		17.00	-
C-22	538+70.00	541+30.00	SW 537	Y2-SOIL	-	-	-	0 TO 0.15		14.89	-
C-22	540+80.00	541+30.00	SW 541	Y1-SOIL	-	-	-	0 TO 0.45	9.11	-	-
C-23	541+30.00	541+90.00	SW 541	Y1-SOIL	-	-	-	0 TO 0.45	13.36	-	-
C-23	543+20.00	544+40.00	SW 543	Y1-SOIL	-	-	-	0 TO 0.45	20.68	-	-
C-24	544+40.00	544+65.00	SW 543	Y1-SOIL	-	-	-	0 TO 0.45	4.29	-	-
C-25	568+72.30	569+90.00	SW 568	Y1-SOIL	-	-	-	0 TO 0.75	33.00	-	-
C-26	569+90.00	572+80.00	SW 568	Y1-SOIL	-	-	-	0 TO 0.75	82.00	-	-
C-27	572+80.00	573+30.00	SW 568	Y1-SOIL	-	-	-	0 TO 0.75	14.00	-	-
				SUB TOTAL		0.00	0.0		176.44	38.17	0.0

HOLLYWOOD SB OFF-RAMP EXCAVATION (AERIALLY DEPOSITED LEAD)

SHEET NUMBER	STATION FROM	STATION TO	LOCATION	EXCAVATION TYPE	ROADWAY EXCAVATION DEPTH	ROADWAY EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	ROADWAY EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION DEPTH	STRUCTURE EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Y2) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)
					M	M3	M3	M	M3	M3	M3
C-17	520+47.00	523+30.00	W/LT	Y2-SOIL	0 TO 0.75	611.7	-	-	-	-	-
C-17	520+47.00	523+30.00	RW 529	Y1-SOIL	-	-	-	0 TO 0.45	212.4	-	-
C-18	523+30.00	524+52.00	W/LT	Y2-SOIL	0 TO 0.75	16.5	-	-	-	-	-
					SUB TOTAL	628.2	0.00		212.4	0.0	0.0
					SUB TOTAL (Q-12)	628.2	0.00		388.84	38.17	0.0

NOTES:

(W/LT)---- WIDENING LEFT SIDE.
(W/RT)---- WIDENING RIGHT SIDE.
(RW & SW)---- SW516, RW518, SW522.
(G)---- GRUBBING.

SUMMARY OF QUANTITIES

Q-12

A.E.	5/14/8	AMIR ELSHARIEF	KYLE KUNITAKE
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 07-24-07 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	421	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

HOLLYWOOD NB ON-RAMP EXCAVATION (AERIALLY DEPOSITED LEAD)

SHEET NUMBER	STATION FROM	STATION TO	LOCATION	EXCAVATION TYPE	ROADWAY EXCAVATION DEPTH	ROADWAY EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	ROADWAY EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION DEPTH	STRUCTURE EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Y2) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)
					M	M3	M3	M	M3	M3	M3
C-17	520+40.00	523+30.00	W/RT	Y2-SOIL	0 TO 0.75	545.6	-	-		-	-
	521+96.00	523+30.00	SW 524	Y2-SOIL		-	-	0 TO 0.45	-	11.9	-
C-18	523+30.00	525+35.00	W/RT	Y2-SOIL	0 TO 0.75	567.2	-	-		-	-
SUB TOTAL (Q-13)						1112.8	0.0			71.3	0.0
SUB TOTAL (Q-12)						628.2	0.0		388.84	38.2	0.0
SUB TOTAL (Q-11)						3150.8	338.4		1884.6	1408.5	112.2
SUB TOTAL FROM STRUCTURE PLANS						0.0	0.0		3706.0	56.0	0.0
GRAND TOTAL						4891.8	338.4		5979.5	1574.0	112.2

GROSS SOLID REMOVAL DEVICES (GSRD)

SHEET NUMBER	STATION	STRUCTURE EXCAVATION	STRUCTURE BACKFILL	STRUCTURE EXCAVATION (TYPE Y1) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Y2) (AERIALLY DEPOSITED LEAD)	STRUCTURE EXCAVATION (TYPE Z3) (AERIALLY DEPOSITED LEAD)
		M3	M3	M3	M3	M3
L-5	517+20.00	71	49		19.5	
L-5	517+20.00	283	188		16.4	
L-6	517+20.00	408	108		23.5	
TOTAL		762	345		59.4	

NOTES:

(W/LT)---- WIDENING LEFT SIDE.
(W/RT)---- WIDENING RIGHT SIDE.
(RW & SW)---- SW516, RW518, SW522.
(G)---- GRUBBING.

SUMMARY OF QUANTITIES

Q-13

O.B.	10/22/8		
A.E.	5/14/8	REVISED BY	DATE REVISED
AMIR ELSHARIEF	KYLE M KUNITAKE	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 07-24-07 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	422	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF ROADWAY QUANTITIES (MAIN LINE)

SHEET NUMBER	STATION FROM	STATION TO	LOCATION	ROADWAY EXCAVATION	IMPORTED BORROW	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE	JOINTED PLAIN CONCRETE PAVEMENT (JPCP)	SEAL LONGITUDINAL ISOLATION JOINT	SEAL PAVEMENT JOINT
				M3	M3	M3	M3	M3	M	M
L-1	509+10.00	510+40.00	RT	295	249	258	184	369	130	526
L-1	509+10.00	510+40.00	LT	276	1611	328	234	468	130	609
L-1	509+10.00	510+40.00	MED	566	-	193	138	276	260	186
L-2	510+40.00	513+60.00	RT	721	293	508	363	723	293	1213
L-2	510+40.00	513+60.00	LT	727	2668	573	410	820	293	1273
L-2	510+40.00	513+60.00	MED	1400	-	393	281	562	587	430
L-3	513+60.00	517+30.00	RT	811	1250	597	426	846	370	1442
L-3	513+60.00	517+30.00	LT	1217	1280	903	646	1280	370	1920
L-3	513+60.00	517+30.00	MED	2060	-	650	463	927	740	740
L-4	517+30.00	520+10.00	RT	714	1328	400	285	562	280	377
L-4	517+30.00	520+10.00	LT	1277	800	765	546	1092	280	1572
L-4	517+30.00	520+10.00	MED	1554	-	573	409	819	560	532
L-5	520+10.00	523+30.00	RT	926	-	289	207	414	275	288
L-5	520+10.00	523+30.00	LT	1063	734	550	392	779	275	1185
L-5	520+10.00	523+30.00	MED	1376	-	444	318	636	550	480
L-6	523+30.00	526+60.00	RT	1327	-	446	319	638	330	1379
L-6	523+30.00	526+60.00	LT	1758	344	785	561	1116	330	1686
L-6	523+30.00	526+60.00	MED	1433	-	468	334	669	660	508
L-7	526+60.00	529+40.00	RT	1050	-	426	305	609	280	724
L-7	526+60.00	529+40.00	LT	1487	418	607	434	868	280	1271
L-7	526+60.00	529+40.00	MED	1274	-	393	281	562	560	411
L-8	529+40.00	532+50.00	RT	517	-	154	107	215	202	158
L-8	529+40.00	532+50.00	LT	53	5	21	15	30	15	45
L-8	529+40.00	532+50.00	MED	1386	-	417	292	583	574	421
L-9	532+50.00	535+30.00	MED	1260	-	403	281	563	560	411
L-10	535+30.00	538+70.00	MED	1530	-	490	342	683	680	499
L-11	538+70.00	541+30.00	MED	1151	-	392	273	544	520	381
L-12	541+30.00	544+40.00	MED	1390	-	457	314	628	620	455
L-13	544+40.00	547+60.00	MED	1454	-	461	322	644	640	469
L-14	547+60.00	550+70.00	MED	1426	-	447	312	623	620	455
L-15	550+70.00	554+10.00	MED	1579	-	490	342	683	610	447
L-16	554+10.00	557+40.00	MED	1111	-	341	238	476	345	253
L-17	557+40.00	560+90.00	MED	1588	-	504	351	704	591	433
L-18	560+90.00	564+50.00	MED	1626	-	519	362	724	720	528
L-19	564+50.00	567+20.00	MED	1179	-	389	271	542	540	396
L-20	567+20.00	569+90.00	MED	1136	-	388	277	542	540	396
L-21	569+90.00	572+80.00	MED	1243	-	417	291	382	580	425
L-22	572+80.00	575+66.00	MED	1215	-	410	286	572	572	419
L-23	575+66.00	577+70.00	MED	887	-	288	201	402	408	299
L-24	577+70.00	580+00.00	MED	1002	-	331	231	462	460	337
SUBTOTAL				46045	10980	17868	12644	25037	17630	25977
TOTAL FROM Q-16				-	-	-	-	-	16740	13410
TOTAL				46045	10980	17868	12644	25037	34370	39387

MINOR CONCRETE (CURB AND SIDEWALK)

SHEET NUMBER	LOCATION		LENGTH	WIDTH	MINOR CONCRETE (CURB AND SIDEWALK)
			M	M	M3
L-2	COHASSET St UC	ABUT 1	7.9	1.9	1.5
		ABUT 1	7.9	1.9	1.5
		ABUT 2	7.9	1.9	1.5
		ABUT 2	7.9	2.4	1.9
L-5	HOLLYWOOD WAY UC	ABUT 1	4.8	1.0	0.5
		ABUT 1	8.3	1.0	0.8
		ABUT 2	11.1	1.0	1.1
		ABUT 2	4.7	1.0	0.5
L-16	SUN VALLEY OH	BENT 2	9.8	1.5	1.5
				TOTAL	10.8

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

SUMMARY OF QUANTITIES ROADWAY

Q-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
REVISED BY: AE
DATE REVISED: 6/26/08

LAST REVISION 07-24-07
DATE PLOTTED => 06-MAY-2010
TIME PLOTTED => 12:52

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	423	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

SUMMARY OF ROADWAY QUANTITIES (RAMP)

SHEET NUMBER	STATION FROM	STATION TO	ROADWAY EXCAVATION	IMPORTED BORROW	CLASS 3 AGGREGATE BASE	LEAN CONCRETE BASE (RAPID SETTING)	CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	HOT MIX ASPHALT TYPE B	LEAN CONCRETE BASE	JOINTED PLANE CONCRETE PAVEMENT (JPCP)	GEOSYNTHETIC PAVEMENT INTERLAYER
			M3	M3	M3	M3	M3	TONN	M3	M3	M2
	HOLLYWOOD WAY NB OFF RAMP (HOLDWY1)										
L-4	519+38.00	520+10.58	763	242	205	95	-	252	17	33	527
L-5	519+10.58	520+44.30	204	75	98	51	-	130	-	-	283
	HOLLYWOOD WAY SB ON RAMP (HOLDWY4)										
L-4	518+10.00	519+95.00	53	1957	567	146	-	372	205	411	811
	HOLLYWOOD WAY SB OFF RAMP (HOLDWAY2)										
L-5	520+10.00	523+30.00	1279	1766	1029	560	154	1207	-	-	2634
L-6	523+30.00	526+60.00	236	257	314	69	-	174	130	261	381
	HOLLYWOOD WAY NB ON RAMP (HOLDWY3)										
L-5	521+40.00	523+30.00	1411	618	941	491	-	1250	-	-	2728
L-6	523+30.00	525+35.00	1146	-	491	34	-	88	303	607	191
		TOTAL	5092	4915	3645	1446	154	3473	655	1312	7555

ANCHOR BLOCK FOR TRANSITION RAILING CONNECTION

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	MINOR CONCRETE (MINOR STRUCTURE) (m3)
L-10	535+61.00	535+63.86	SB	1.55
L-10	535+34.38	535+37.24	NB	1.55
			TOTAL	3.10

REMOVE CONCRETE (STAMPED CONCRETE)

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	REMOVE CONCRETE (STAMPED CONCRETE) (m3)
L-4	518+85.200	519+25.750	SB	12.8
			TOTAL	12.8

REMOVE CONCRETE (CURB AND GUTTER)

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	REMOVE Conc (CURB & Gtr) (m)
L-4	518+65.000	518+85.200	SB	20.20
L-4	518+64.270	519+94.731	SB ON-RAMP	129.46
L-4	519+93.940	520+10.480	NB OFF-RAMP	33.98
L-5	520+10.480	520+44.300	NB OFF-RAMP	67.64
L-5	523+00.000	523+30.000	NB	30.00
L-5	521+25.180	523+29.760	NB ON-RAMP	204.58
L-5	520+49.300	522+32.970	SB OFF-RAMP	183.67
L-5	520+54.710	523+29.500	SB OFF-RAMP	247.79
L-6	523+29.500	523+38.790	SB OFF-RAMP	9.29
L-6	523+29.760	523+62.170	NB ON-RAMP	32.41
L-6	523+30.000	523+62.510	NB	32.51
			TOTAL	991.53

REMOVE CONCRETE CURB

SHEET NUMBER	STATION FROM	STATION TO	DIRECTION	REMOVE CONCRETE CURB (m)
L-1	509+13.000	510+40.000	NB	127.00
L-1	509+13.000	510+40.000	SB	127.00
L-2	510+40.000	512+46.600	NB	206.60
L-2	510+40.000	512+69.480	SB	229.48
L-2	512+74.670	513+60.000	NB	85.33
L-2	512+96.660	513+60.000	SB	63.34
L-3	513+60.000	517+30.000	NB	370.00
L-3	513+60.000	517+30.000	SB	370.00
L-4	517+30.000	520+10.000	NB	280.00
L-4	517+30.000	519+82.700	SB	252.70
L-4	518+85.200	520+10.000	SB	124.80
L-5	520+10.000	520+60.000	NB	50.00
L-5	521+20.000	522+75.000	NB	155.00
L-5	520+10.000	521+31.070	SB	121.07
L-5	520+82.180	523+30.000	SB	247.82
L-6	526+14.880	526+60.000	NB	45.12
L-6	523+30.000	523+40.020	SB	10.02
L-7	526+60.000	529+40.000	NB	280.00
L-7	529+40.000	529+48.900	NB	8.90
L-7	529+77.980	531+65.000	NB	187.02
			TOTAL	3341.20

SUMMARY OF QUANTITIES

Q-15

A.E.	5/14/8	A.E.	5/14/8
REVISED BY	DATE REVISED		
AMIR ELSHARIEF	KYLE KUNITAKE		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 06-03-09 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:54

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	424	869

REGISTERED CIVIL ENGINEER 5-5-09 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER PETER VAN DINH No. C62666 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:

1. WEAKENED PLANE JOINT TO WEAKENED PLANE JOINT CONSTITUTES ONE SLAB.
2. SLAB LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

MAINLINE SUMMARY OF QUANTITIES

LOCATION	DIRECTION		NUMBER OF SLABS (N) SLAB NUMBER				REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	DOWEL BAR (DRILL AND BOND)	GRIND EXISTING CONCRETE PAVEMENT	SEAL JOINT (EXISTING CONCRETE PAVEMENT)	SEAL LONGITUDINAL ISOLATION JOINT	SEAL PAVEMENT JOINT	LEAN CONCRETE BASE (RAPID SETTING)	REPAIR SPALLED JOINTS
	NB	SB	1	2	3	4	M3	EA	M2	M	M	M	M3	M2
MAINLINE STA 520+10 TO STA 580+00	X													630
		X												630
L-5 & L-6	X		2	13	135	87	910	2860	9520	4683	1090	870	5	
		X	5	37	94	54	720	2300	9520	4683	870	700	4	
L-7 & L-8	X		2	12	125	60	760	2400	8640	4249	910	730	4	
		X	3	18	85	33	530	1680	8640	4249	640	510	3	
L-9 & L-10	X		15	22	22	16	380	920	9080	4465	350	280	62	
		X	14	33	21	13	300	990	9080	4465	380	300	2	
L-11 & L-12	X		2	6	122	121	960	3030	8350	4105	1150	920	5	
		X	4	27	93	27	570	1830	8350	4105	700	560	3	
L-13 & L-14	X		6	107	118	120	1300	4230	9230	4537	1610	1290	7	
		X	11	54	128	119	1170	3760	9230	4537	1430	1150	6	
L-15 & L-16	X		4	35	136	126	1250	3630	9810	4825	1380	1110	64	
		X	9	48	74	53	800	2220	9810	4825	850	680	69	
L-17 & L-18	X		4	23	62	28	540	1420	10,400	5113	540	430	55	
		X	3	16	37	24	300	980	10,400	5113	370	300	2	
L-19 & L-20	X		23	31	43	12	400	1320	7910	3889	500	400	2	
		X	12	37	89	65	760	2450	7910	3889	930	750	4	
L-21 & L-22	X		35	20	39	11	380	1280	8440	4148	490	390	2	
		X	15	35	77	75	760	2440	8440	4148	930	740	4	
L-23 & L-24	X		24	45	65	8	520	1720	6360	3126	650	520	3	
		X	19	44	68	80	900	2550	6360	3126	970	780	69	
SUBTOTAL											16,740	13,410		
TOTAL			3640				14,210	44,010	175,480	86,280			375	1260

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

RAMPS SUMMARY OF QUANTITIES

LOCATION	DIRECTION		COLD PLANE ASPHALT CONCRETE PAVEMENT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	REPLACE CONCRETE PAVEMENT(RAPID STRENGTH CONCRETE)	LEAN CONCRETE BASE (RAPID SETTING)	CLASS 3 AGGREGATE BASE	TACK COAT	CRACK TREATMENT
	NB	SB	M2	TONN	M3	M3	M3	TONN	LNKM
NB OUTSIDE SHOULDER FROM PM 32.4 TO PM 36.4	X		19,625	2,875				20.0	
SB OUTSIDE SHOULDER FROM PM 32.4 TO PM 36.4		X	19,625	2,875				20.0	
ALL LANES STA 520+10 TO STA 580+00		X							10
ALL LANES STA 520+10 TO STA 580+00	X								10
SB ON-RAMP FROM ROSCOE BOULEVARD		X	1,815	275				1.8	
NB OFF-RAMP TO ROSCOE BOULEVARD	X		1,415	210	115	60	90	1.5	
SB ON-RAMP FROM SUNLAND BOULEVARD		X	1,815	270				1.8	
NB OFF-RAMP TO SUNLAND BOULEVARD	X		2,795	415				2.8	
SB OFF-RAMP TO SUNLAND BOULEVARD		X	1,940	290				2.0	
NB ON-RAMP FROM SUNLAND BOULEVARD	X		1,825	275				1.8	
SB ON-RAMP FROM PENROSE STREET		X	2,845	415				2.9	
NB OFF-RAMP TO PENROSE STREET	X		3,050	455	110	60	85	3.1	
SB OFF-RAMP TO PENROSE STREET		X	1,640	245	125	70	90	1.6	
SB ON-RAMP FROM TUXFORD STREET		X	2,860	425				2.9	
NB ON-RAMP FROM TUXFORD STREET	X		3,500	520				3.5	
NB OFF-RAMP TO LANKERSHIM BOULEVARD	X		3,245	480				3.3	
NB OFF-RAMP TO TUXFORD STREET	X		485	75	100	55	75	0.5	
SB ON-RAMP FROM LANKERSHIM BOULEVARD		X	4,190	615				4.2	
SB OFF-RAMP TO LANKERSHIM BOULEVARD		X	3,300	490				3.4	
NB ON-RAMP FROM LANKERSHIM BOULEVARD	X		3,070	455				3.1	
SB ON-RAMP FROM LAUREL CANYON BOULEVARD		X	2,425	365				2.4	
SB OFF-RAMP TO LAUREL CANYON BOULEVARD		X	2,895	425	115	65	90	2.9	
NB ON-RAMP FROM SHELDON STREET	X		6,705	990				6.7	
TOTAL			91,065	13,440	565	310	430	92.2	20

SUMMARY OF QUANTITIES

Q-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR PAUL CRISPI

CALCULATED-DESIGNED BY PETER DINH
CHECKED BY PAUL CRISPI

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 06-MAY-2010
TIME PLOTTED => 13:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	425	869

REGISTERED CIVIL ENGINEER 4-17-09 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER AMIR AWN ELSHARIEF No. 72560 Exp. 6-30-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

CURB RAMP SUMMARY

SHEET No.	RAMP	Loc	CASE	X_L	A	REMOVE CONCRETE (MISCELLANEOUS)	MINOR Conc (CURB RAMP)	CURB RAMP DETECTABLE WARNING SURFACE	REMARKS
				M	M	M3	M3	M2	
L-4	SB ON-RAMP HOLLYWOOD WAY	1	CM	-	-	-	1.21	1.21 (N)	
L-4	SB ON-RAMP HOLLYWOOD WAY	2	CM (MOD) SEE C-5	-	-	-	1.21	1.21 (N)	
L-5	SB OFF-RAMP HOLLYWOOD WAY	3	C (MOD) SEE C-6	-	-	-	1.21	1.21 (N)	
L-5	SB OFF-RAMP HOLLYWOOD WAY	4	G (MOD) SEE C-7	-	-	-	1.21	1.21 (N)	
L-5	NB ON-RAMP HOLLYWOOD WAY	5	CM	-	-	-	1.21	1.21 (N)	
L-5	NB ON-RAMP HOLLYWOOD WAY	6	C (MOD) SEE C-8	-	-	-	1.21	1.21 (N)	
L-15	NB OFF-RAMP PENROSE STREET	7	G (MOD) SEE C-41	2.29	2.47	1.04	1.19	1.21 (N)	
L-15	NB OFF-RAMP PENROSE STREET	8	G (MOD) SEE C-41	2.29	2.47	0.80	0.87	1.21 (N)	
L-15	SB OFF AND ON-RAMP PENROSE STREET	9	G (MOD) SEE C-41	2.29	2.47	0.93	1.08	1.21 (N)	
L-15	SB OFF AND ON-RAMP PENROSE STREET	10	G (MOD) SEE C-41	2.29	2.47	0.90	1.04	1.21 (N)	
L-17	NB ON-RAMP TUXFORD STREET	11	-	-	-	-	-	1.21	ADD DETECTABLE WARNING SURFACE TO Exist CURB RAMP
L-18	SB OFF AND ON-RAMP LANKERSHIM Blvd	12	-	-	-	-	-	1.21	ADD DETECTABLE WARNING SURFACE TO Exist CURB RAMP
L-23	SB OFF AND ON-RAMP LAUREL CANYON Blvd	13	G (MOD) SEE C-41	2.29	2.47	0.80	0.94	1.21 (N)	
					TOTAL	4.47	12.38	2.42	

(N) NOT A SEPERATE PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-17

REVISED BY | DATE REVISED
KATHY PHAM | AMIR ELSHARIEF
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	426	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

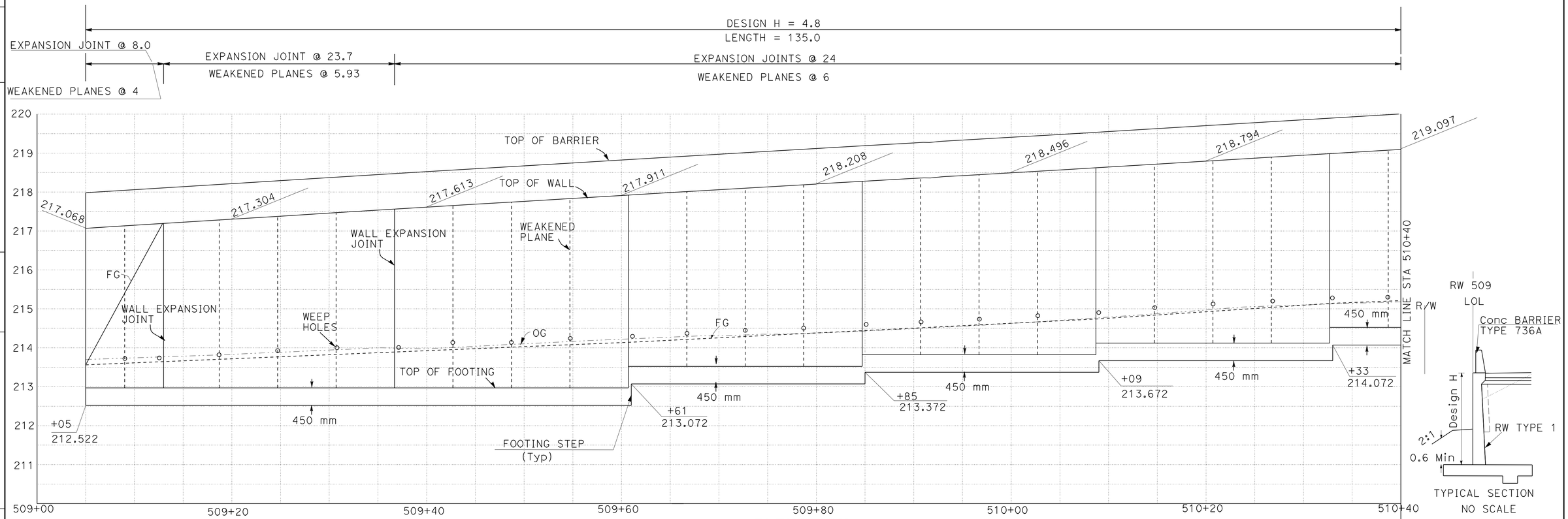
5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

NOTES:
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE STRUCTURE PLANS FOR ARCHITECHTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.



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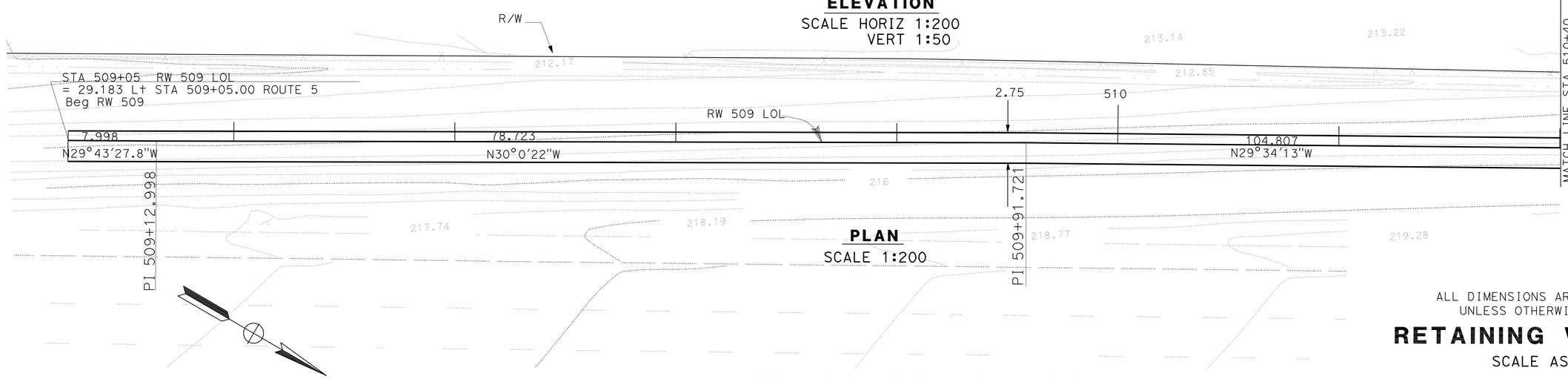
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 509

SCALE AS SHOWN

R-1

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

A.E. 07-07-08
REVISED BY DATE REVISED
AMIR ELSHARIEF
KYLE KUNITAKE
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
CELINA AVILES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	427	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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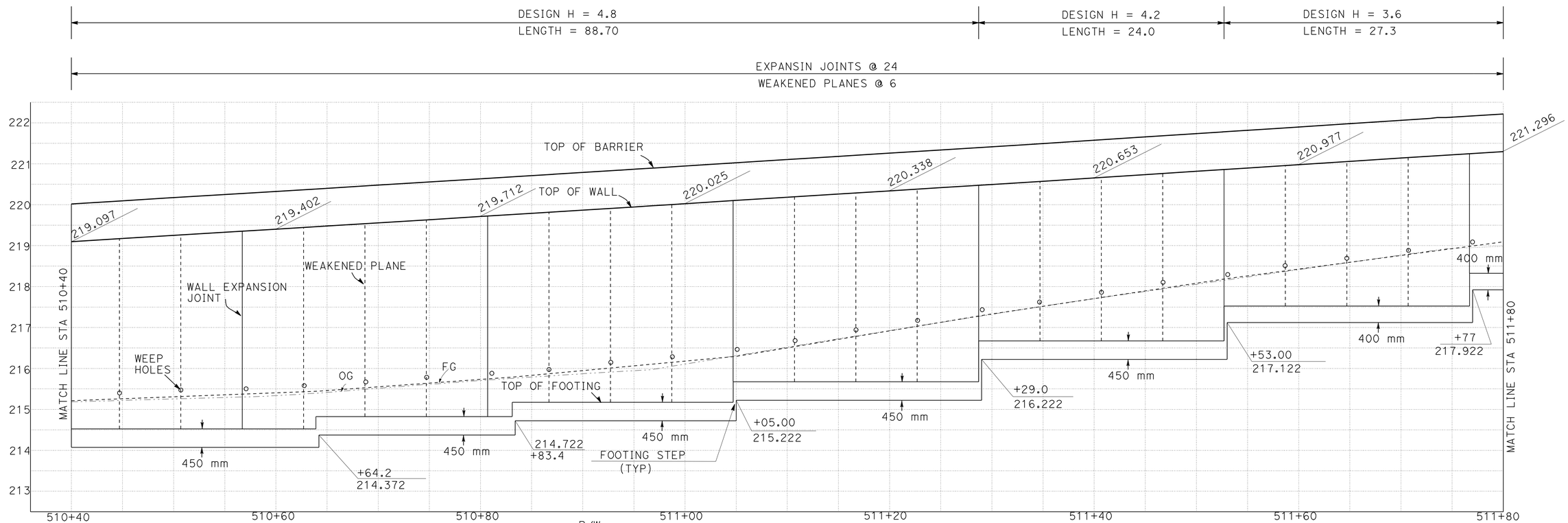
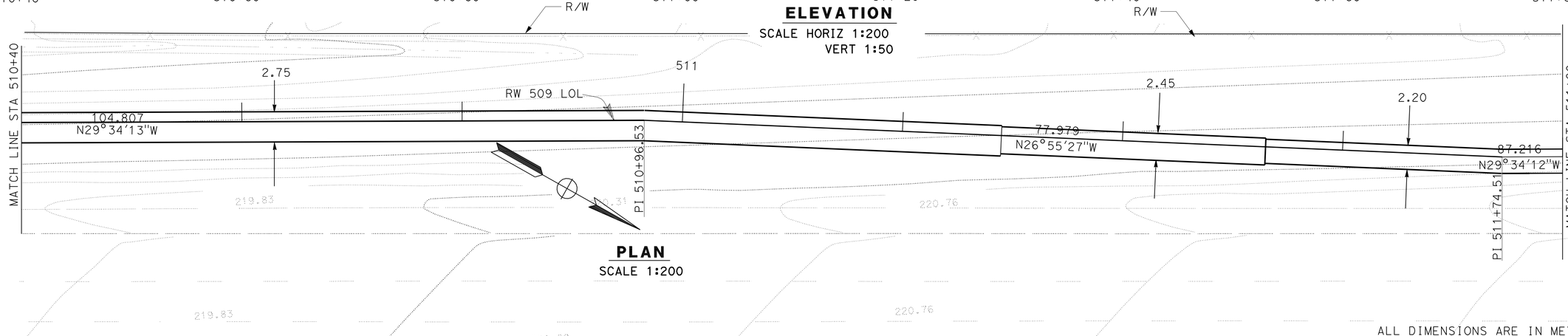
2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 509

SCALE AS SHOWN

R-2

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

A.E	07-07-08	REVISED BY	DATE REVISED
AMIR ELSHARIEF	KYLE KUNITAKE	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00 DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	428	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/08 CIVIL STATE OF CALIFORNIA

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NOTES:
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2. SEE STRUCTRE PLANS FOR ARCHITECTURAL DETAILS.
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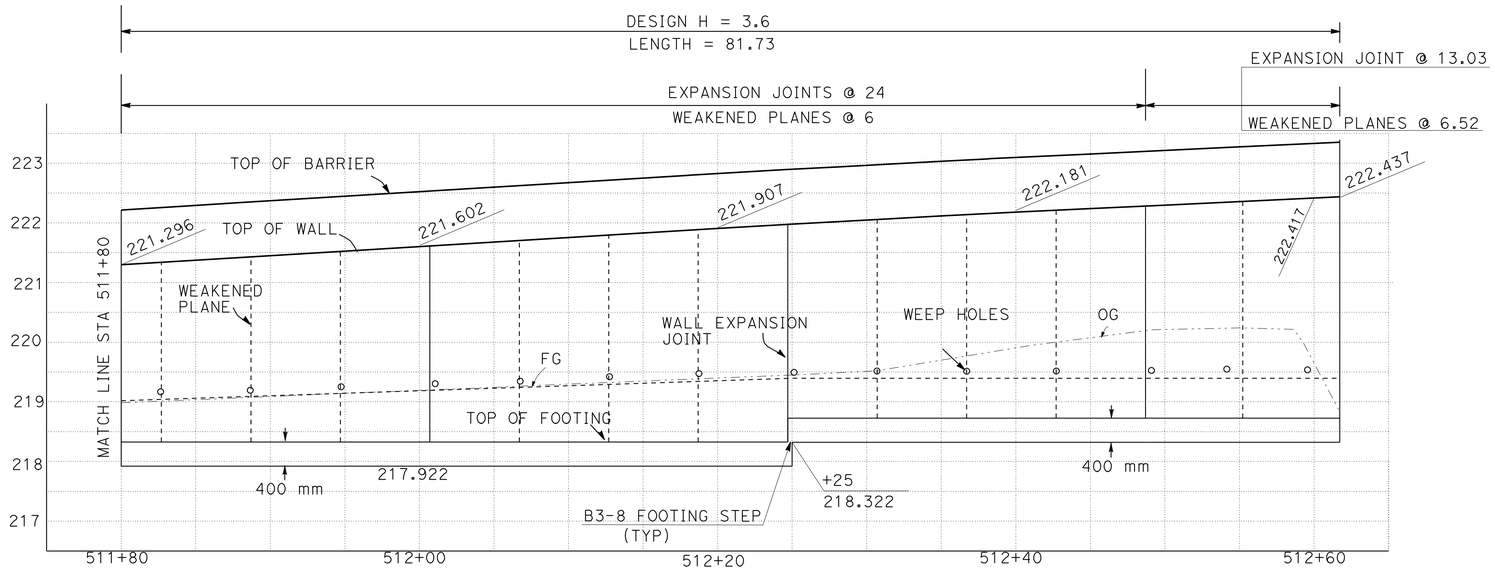

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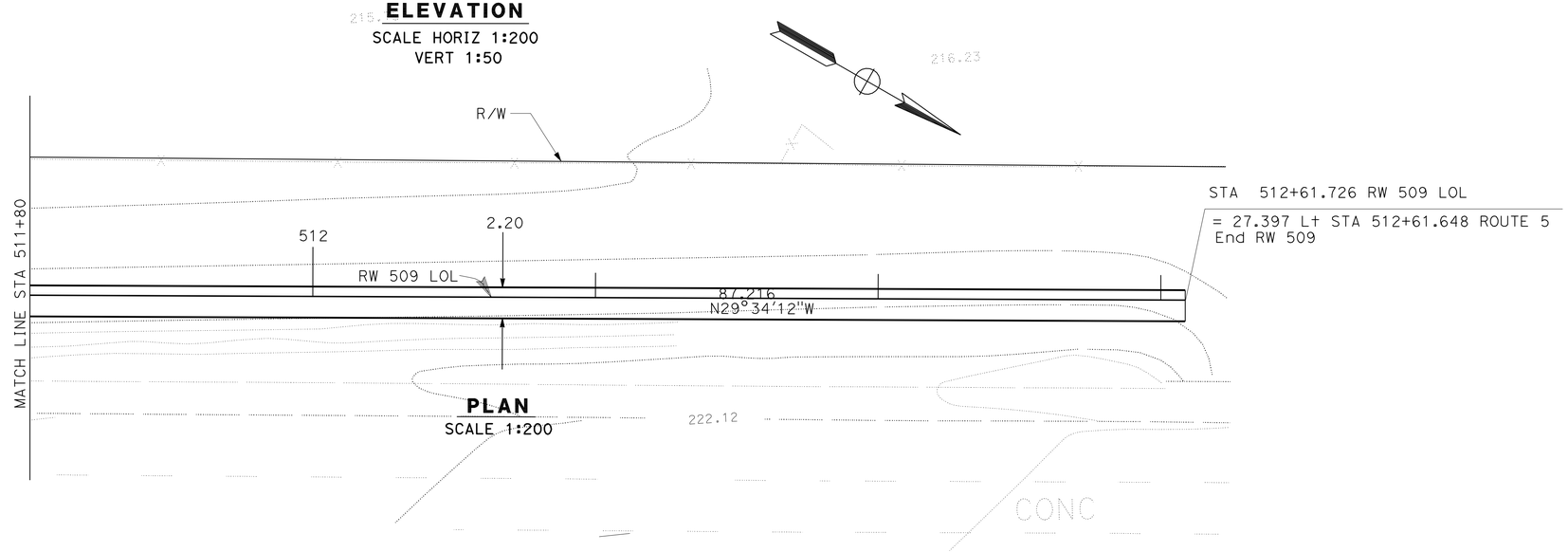
VERT 1:50



PLAN
SCALE 1:200

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

RETAINING WALL 509

SCALE AS SHOWN

R-3

REVISED BY	DATE REVISED
A.E.	07-07-08

CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	429	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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NOTES:
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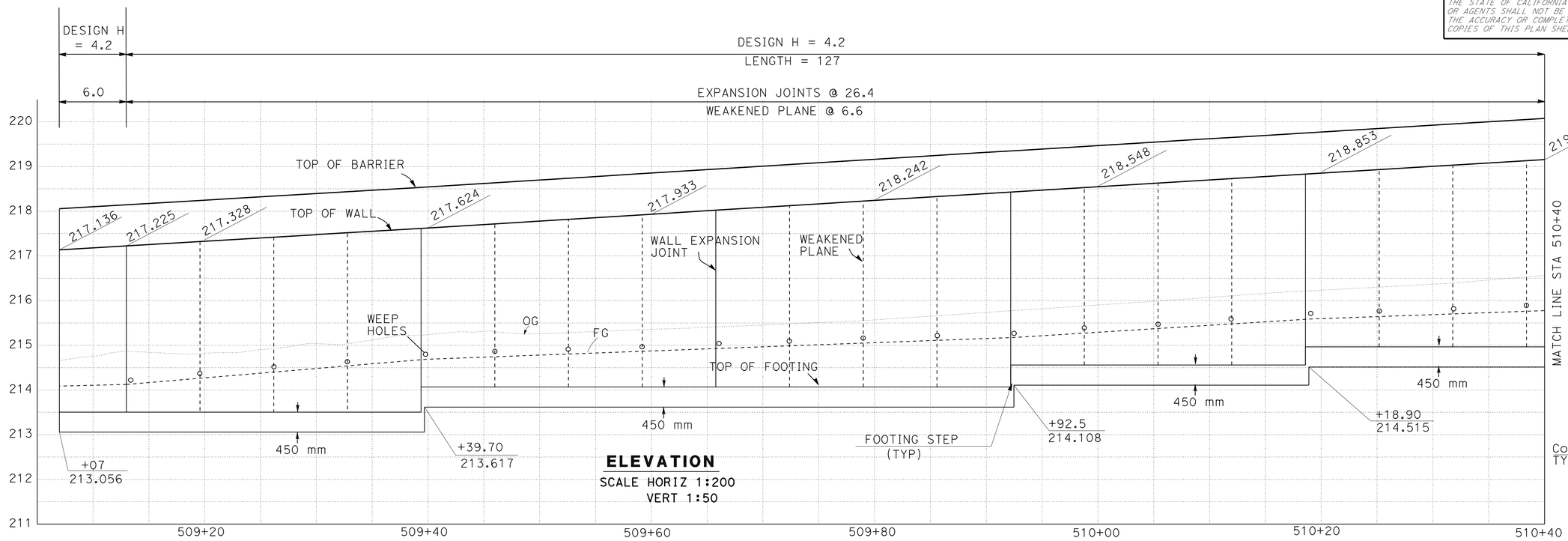
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.



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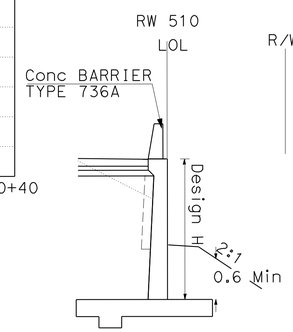
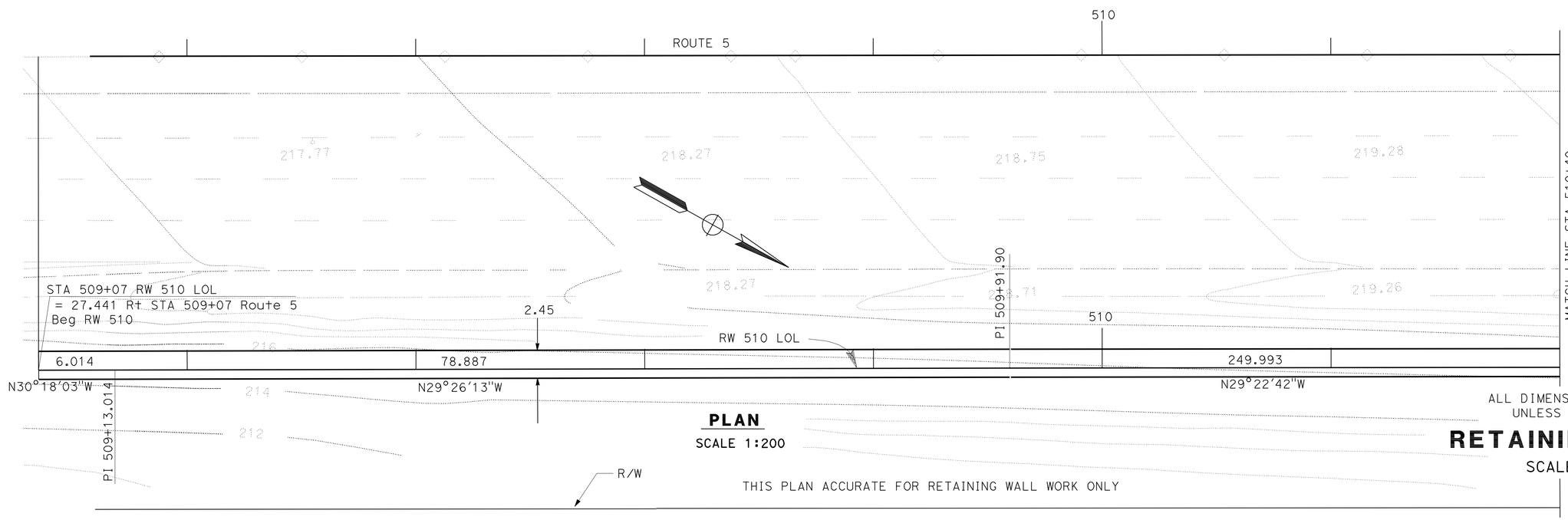
SCALE HORIZ 1:200
VERT 1:50



TYPICAL SECTION
NO SCALE



PLAN
SCALE 1:200

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 510

SCALE AS SHOWN

R-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
REVISED BY: D.W
DATE REVISED: A.E 07-06-08

LAST REVISION 00-00-00
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:55

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	430	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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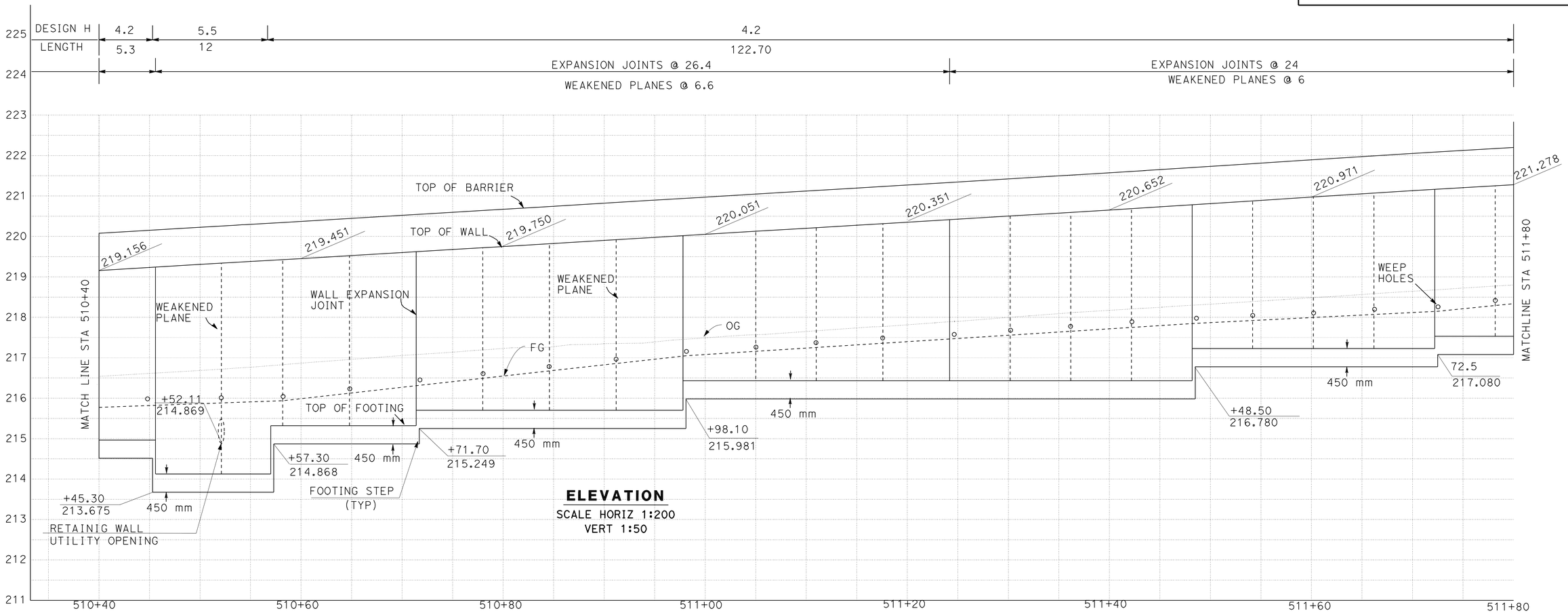
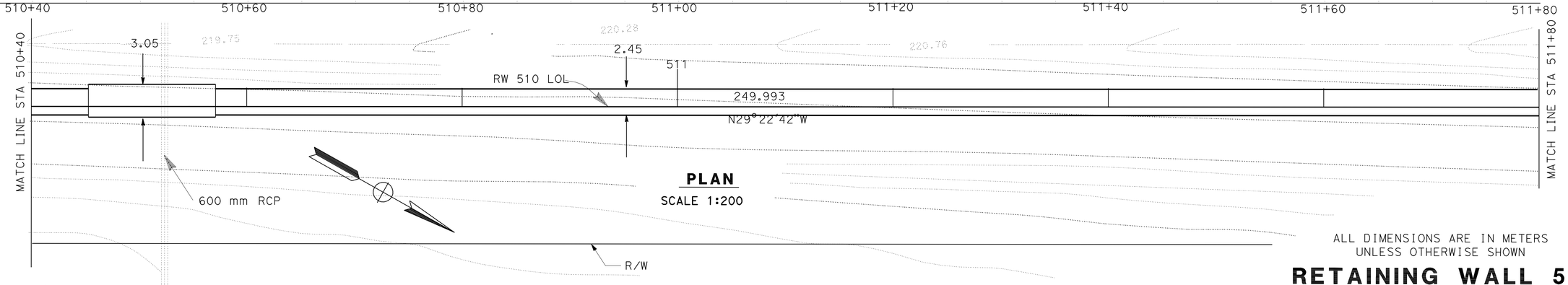
Caltrans Metric

NOTES:
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 510

SCALE AS SHOWN

R-5

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

A.E	07-06-08	CALCULATED-DESIGNED BY	AMIR ELSHARIEF
D.W		CHECKED BY	KYLE KUNITAKE
REVISED BY	DATE REVISED	FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	431	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/08 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

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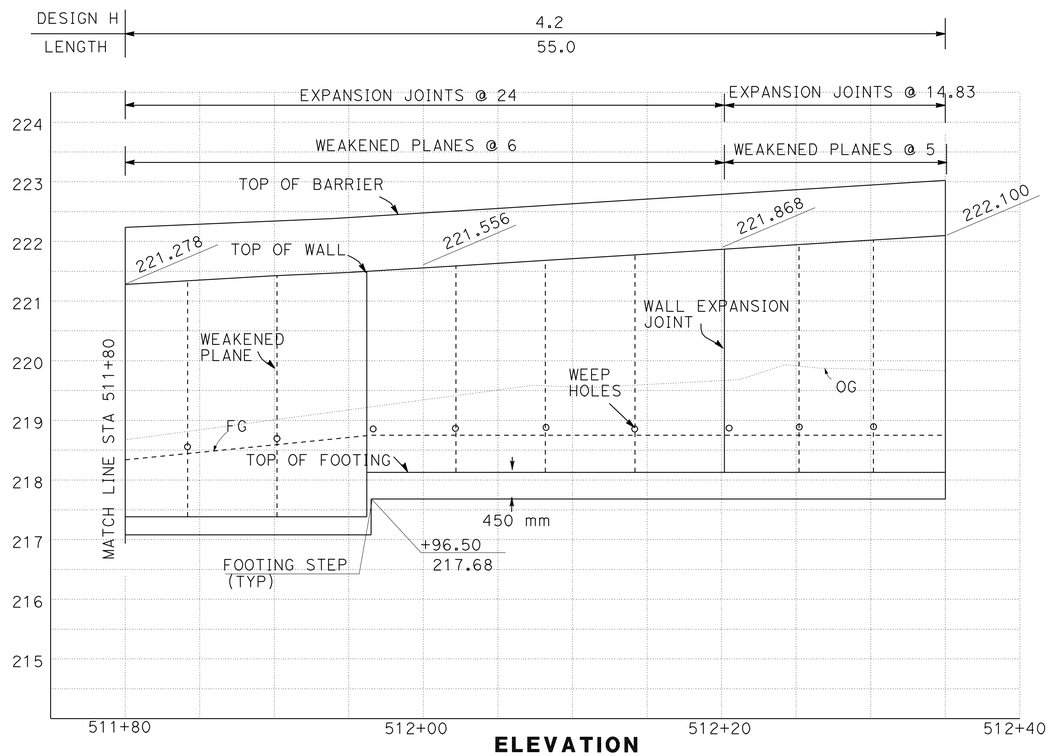
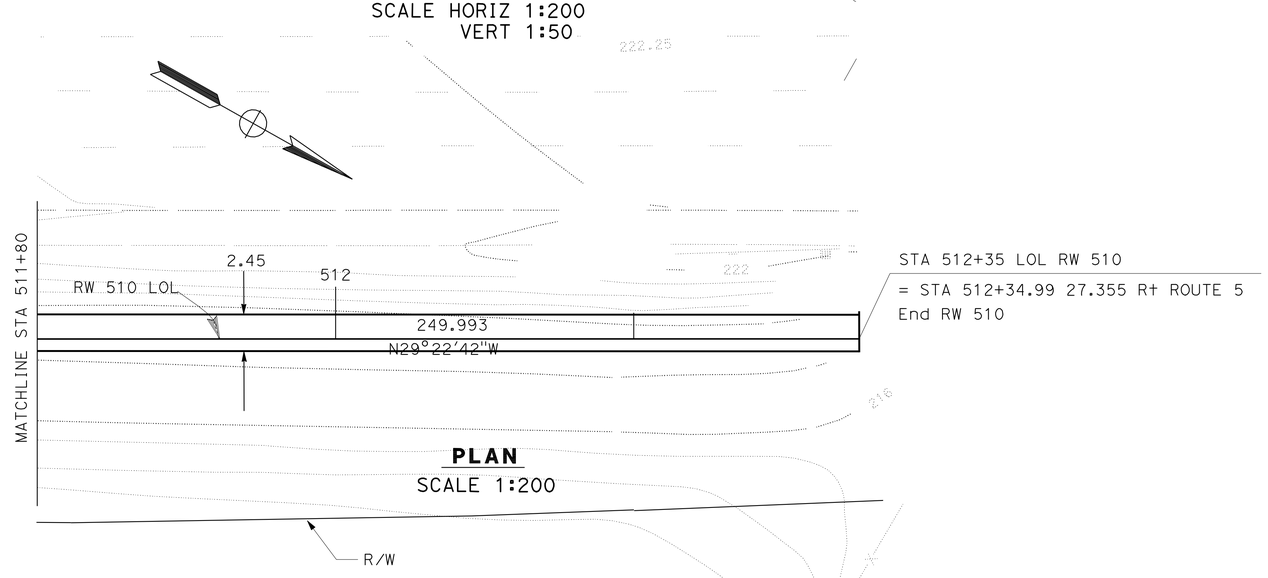
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

RETAINING WALL 510

SCALE AS SHOWN

R-6

A.E	07-06-08	
D.W		
REVISED BY	DATE REVISED	
AMIR ELSHARIEF		
KYLE KUNITAKE		
CALCULATED-DESIGNED BY		
CHECKED BY		
FUNCTIONAL SUPERVISOR		
CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

LAST REVISION 00-00-00
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:55

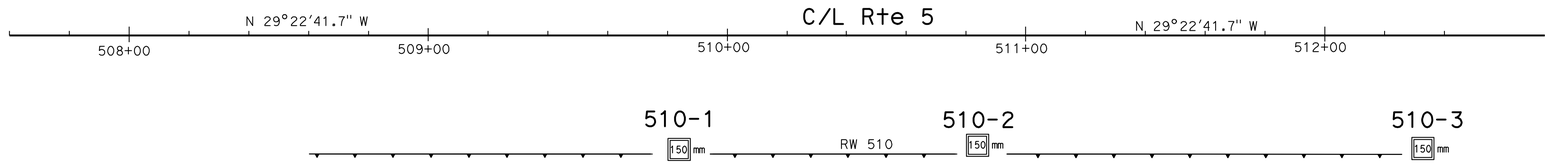
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	432	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

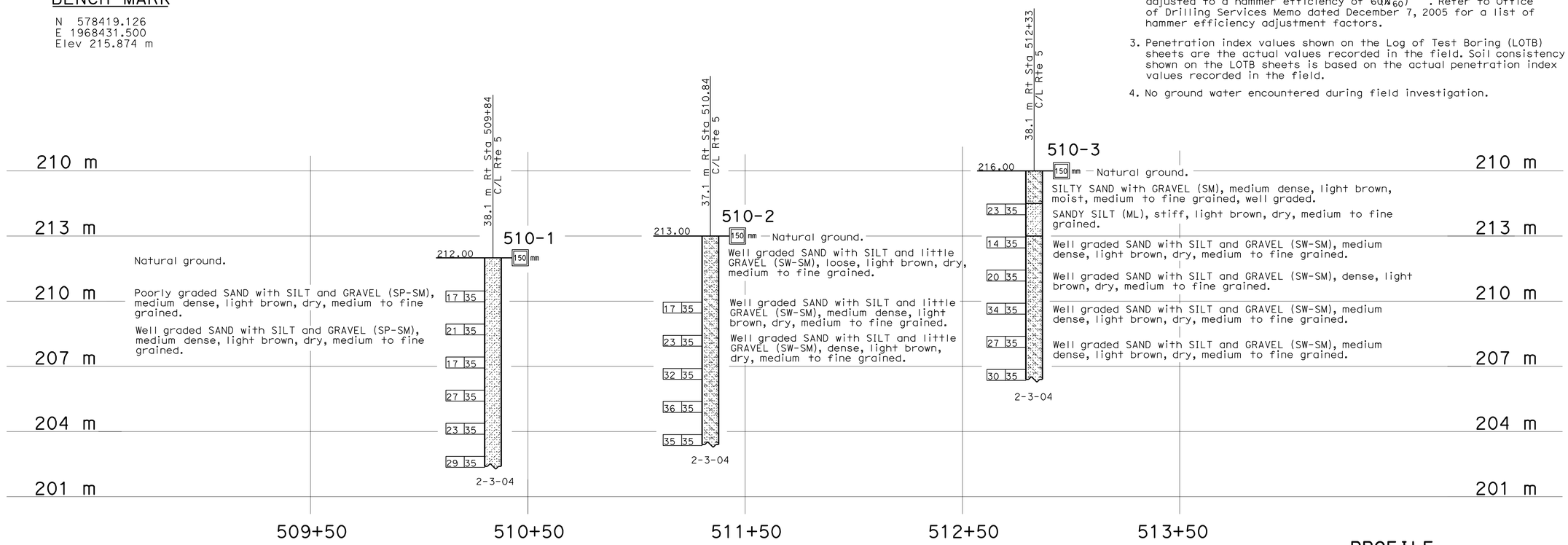
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



PLAN
1:1000

BENCH MARK

N 578419.126
E 1968431.500
Elev 215.874 m



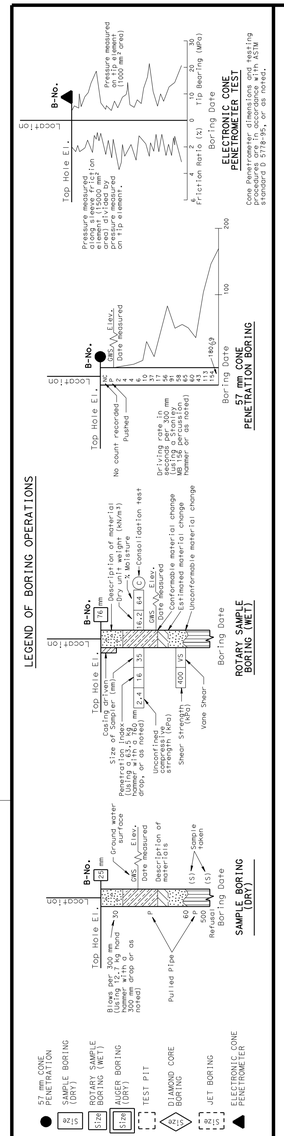
NOTES:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.
4. No ground water encountered during field investigation.

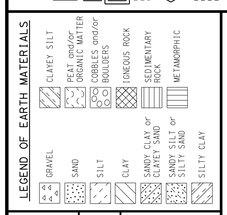
PROFILE
HOR. 1:1000
VER. 1:100

R-7

LEGEND OF BORING OPERATIONS



LEGEND OF EARTH MATERIALS



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/ 0.3m)	Granular	SPT N-Value (Blows/ 0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	W. Tang 10/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

RETAINING WALL No. 510
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-24-06 1-3-06

SHEET OF

FILE => 71218vqb004.dgn

USERNAME => trphilis DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:55

NOTES: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.

3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.

Caltrans Metric

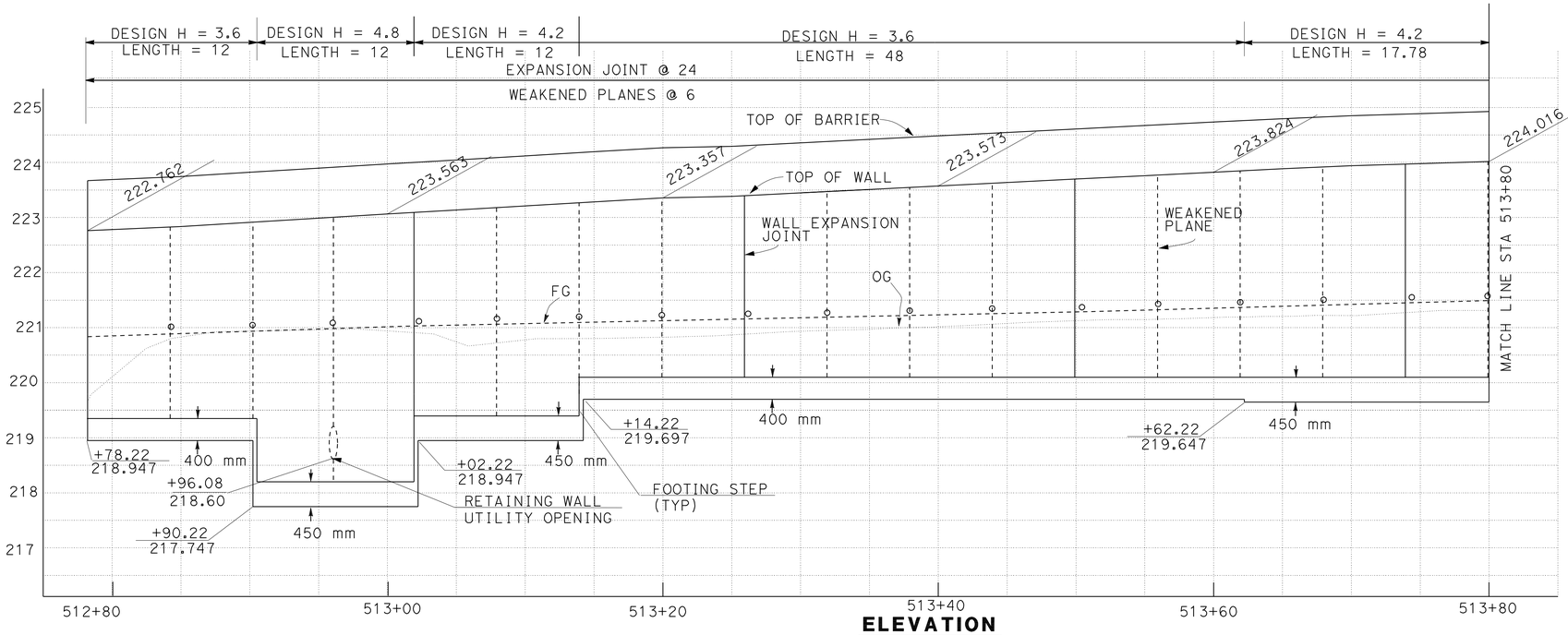
Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	433	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

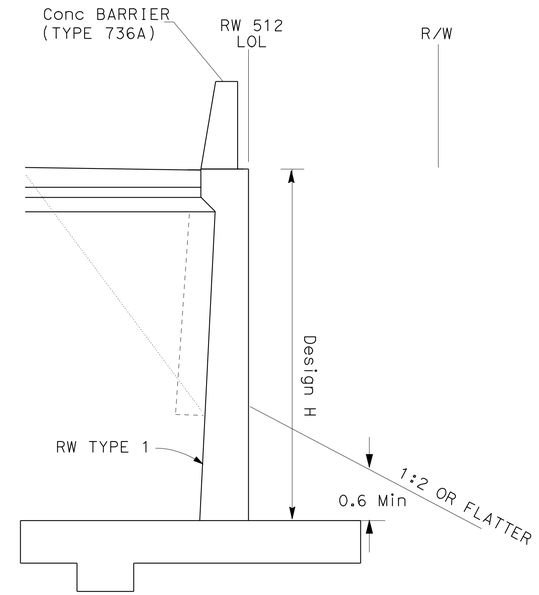
5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

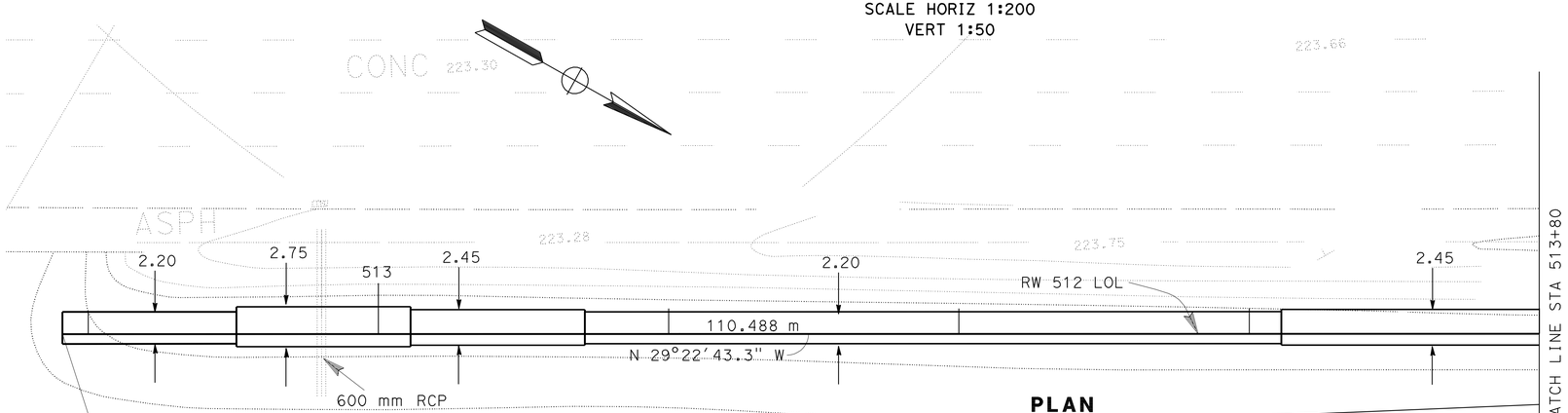
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



TYPICAL SECTION
RW512 STA 512+78.220 TO STA 512.640
NO SCALE



PLAN
SCALE 1:200

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 512

SCALE AS SHOWN

R-8

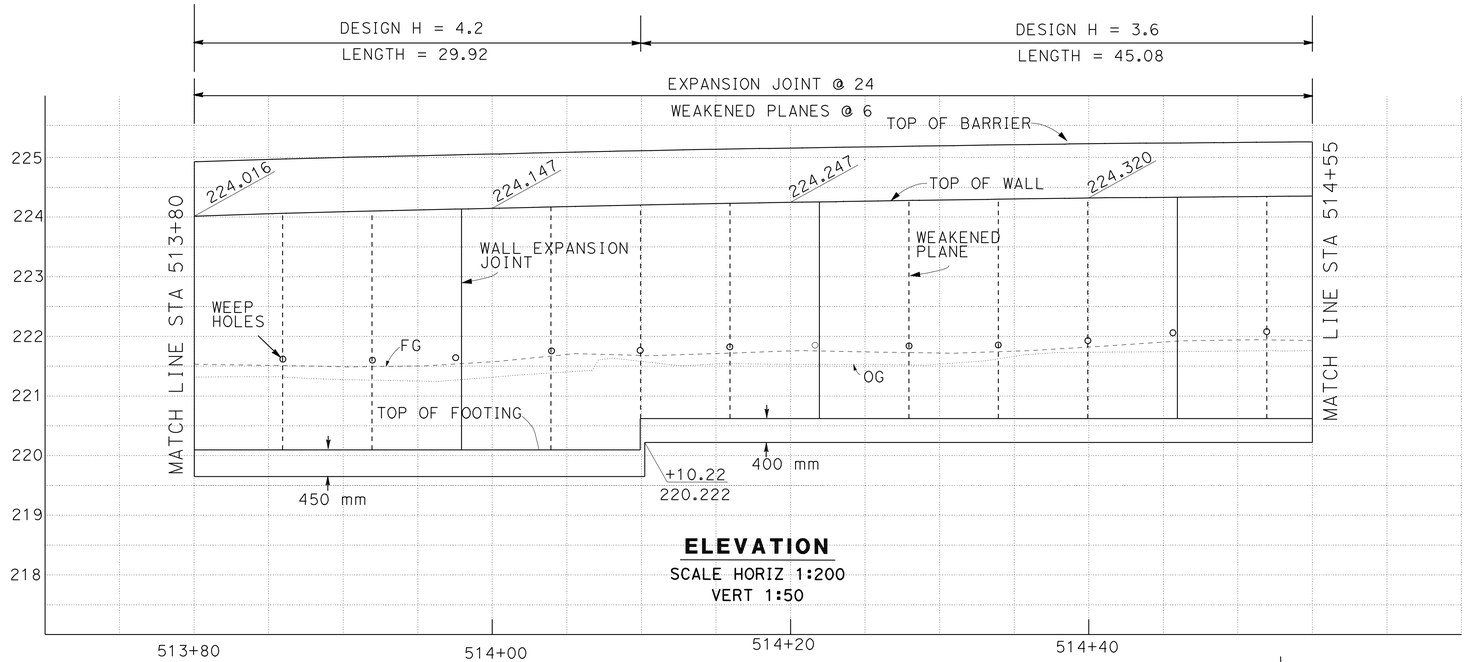
REVISED BY	DATE REVISED
KK	9/03/08
AE	7/09/08

CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
FUNCTIONAL SUPERVISOR: CELINA AVILES

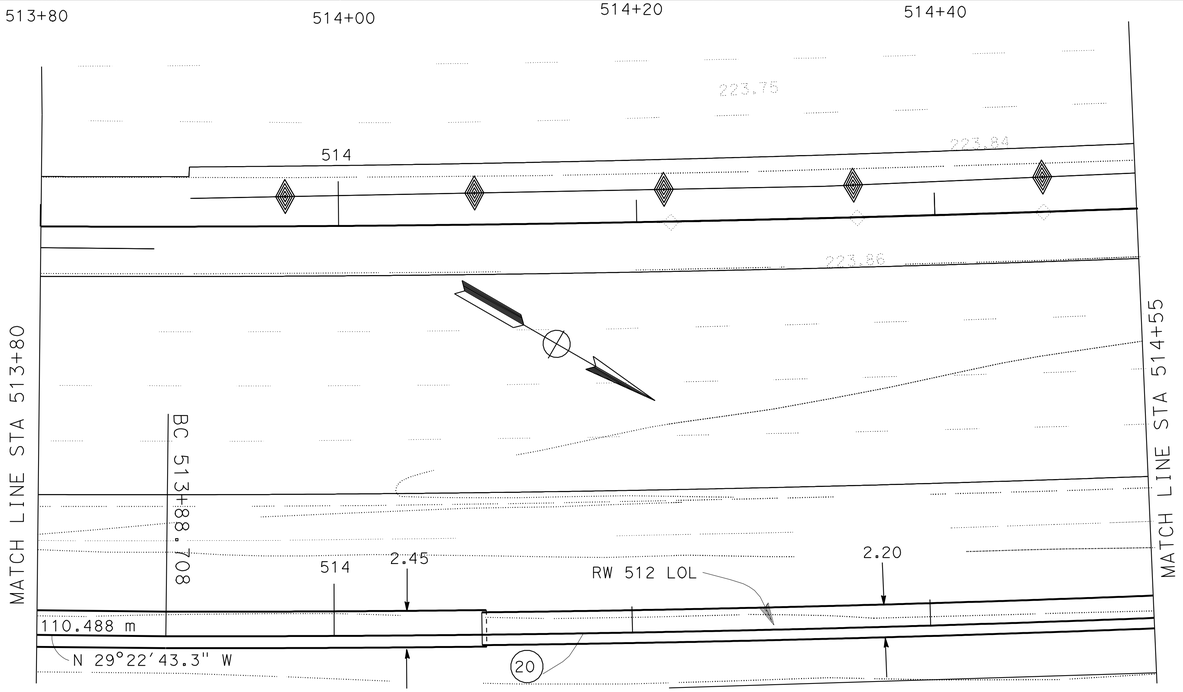
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 09-03-08 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:55

NOTES:
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200
THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

CURVE DATA

No.	R	Δ	T	L
20	1645.934	4°49'35.0"	69.365	138.648

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 512

SCALE AS SHOWN

R-9

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	434	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

REVISED BY	DATE REVISED
AE	7/09/08
KK	8/28/08

CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 09-04-08 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 0555

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	435	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:
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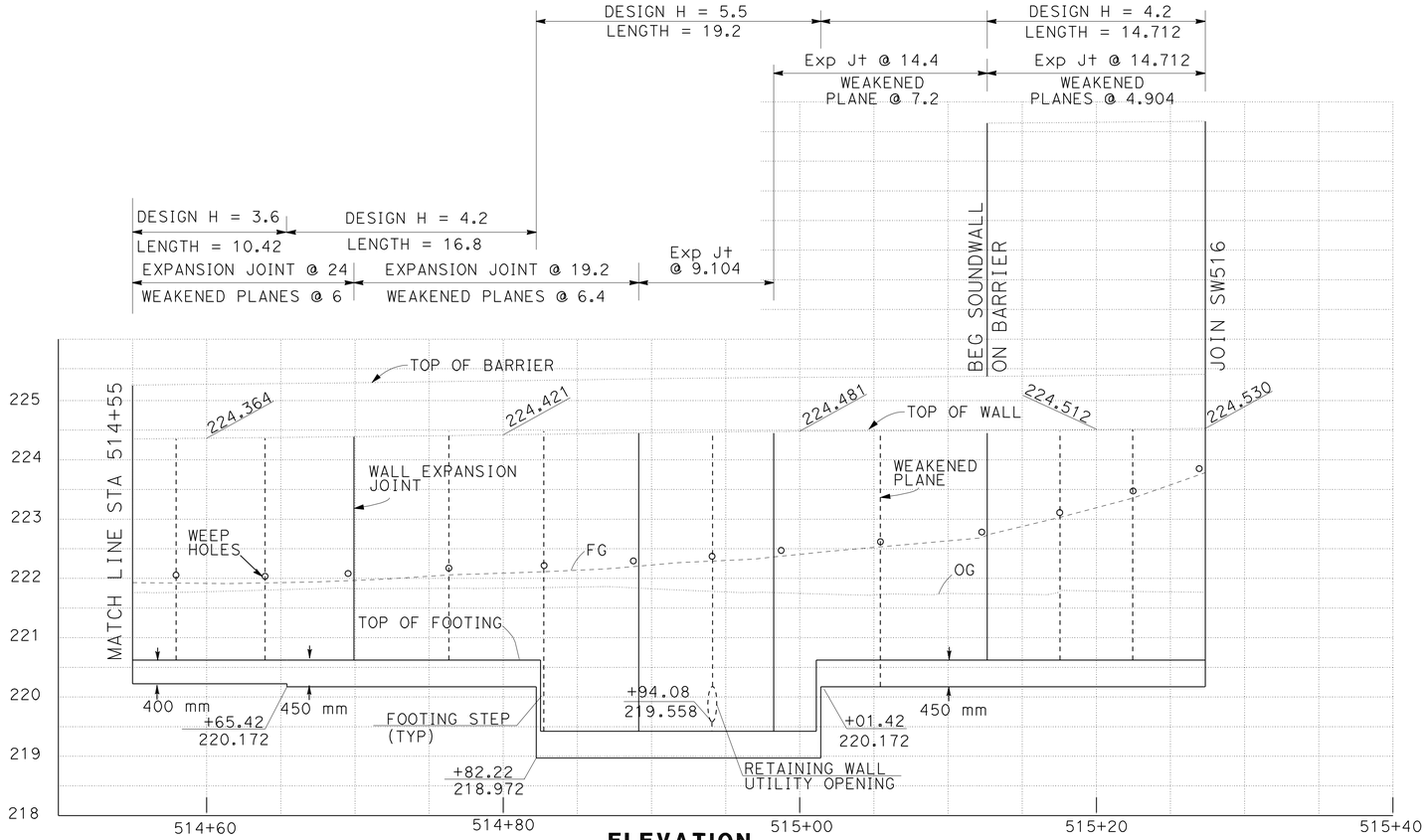
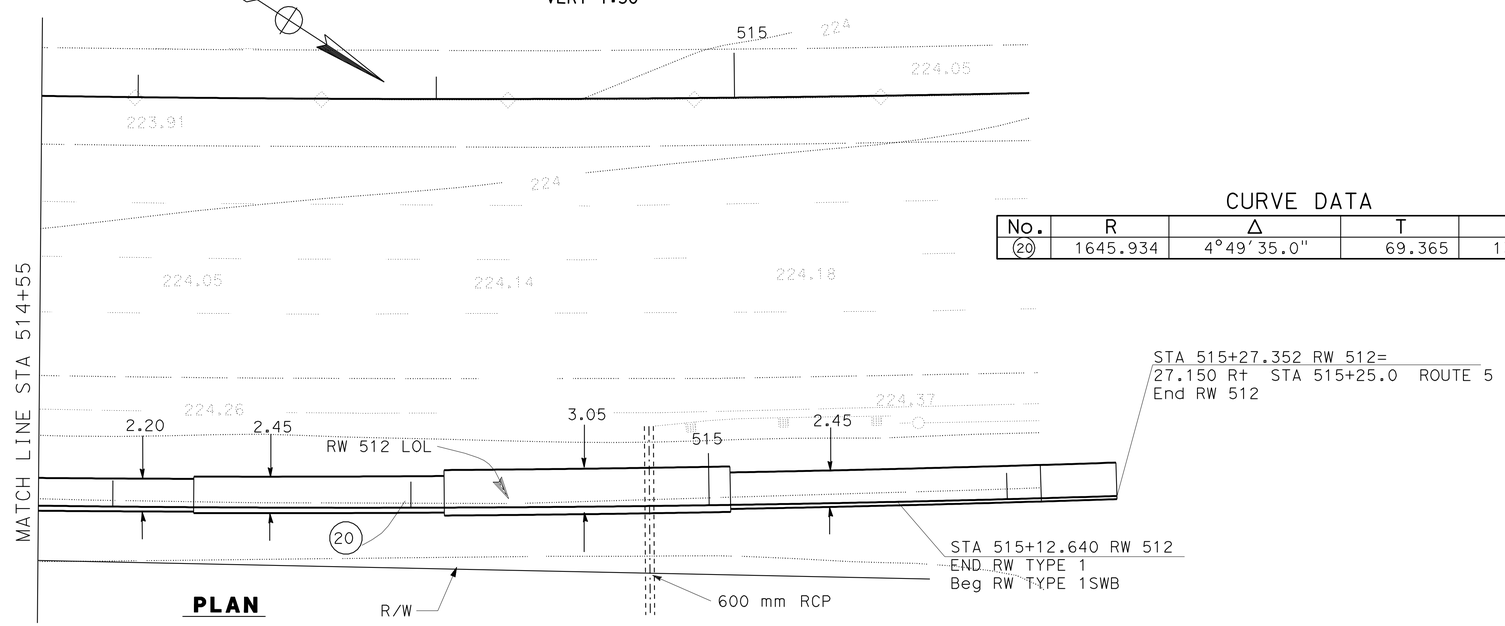
2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150 mm INTO CONCRETE BARRIER.
4. SEE CONSTRUCTION DETAIL SHEET C-36 FOR SOUND WALL ON RETAINING WALL DETAILS.



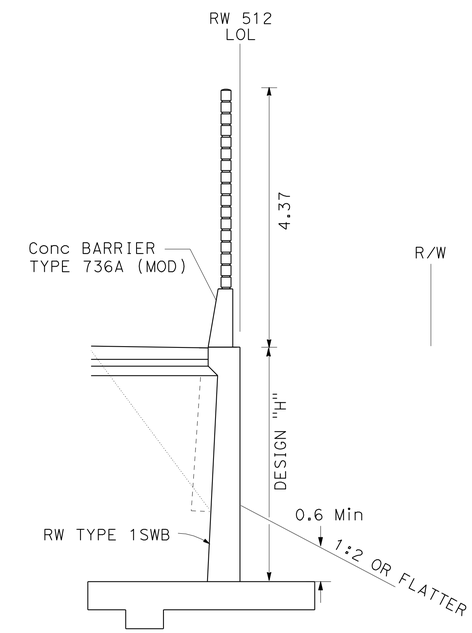
ELEVATION
SCALE HORIZ 1:200
VERT 1:50



PLAN
SCALE 1:200

CURVE DATA

No.	R	Δ	T	L
20	1645.934	4°49'35.0"	69.365	138.648



TYPICAL SECTION
RW512 STA 515+12.640 TO 515+27.352
NO SCALE

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

RETAINING WALL 512

SCALE AS SHOWN

R-10

REVISED BY	AE
DATE REVISED	7/09/08
CALCULATED-DESIGNED BY	AMIR ELSHARIEF
CHECKED BY	KYLE KUNITAKE
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 06-MAY-2010 | TIME PLOTTED => 10:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	436	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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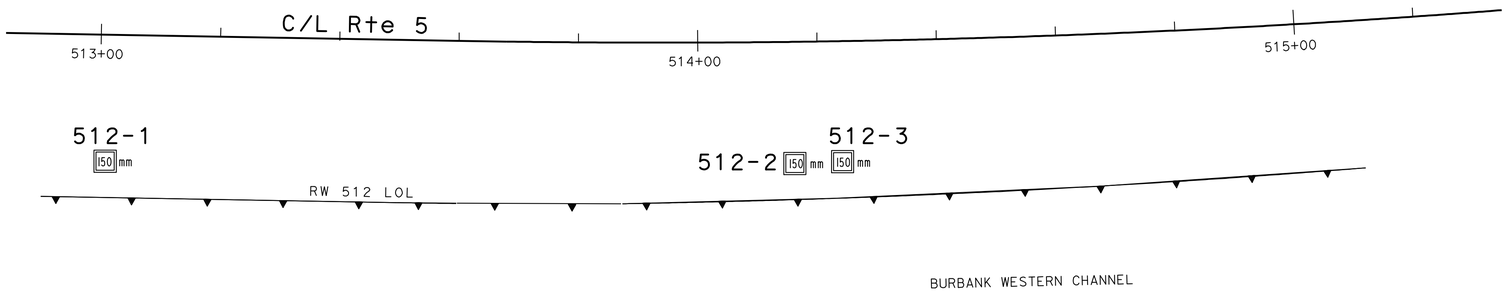
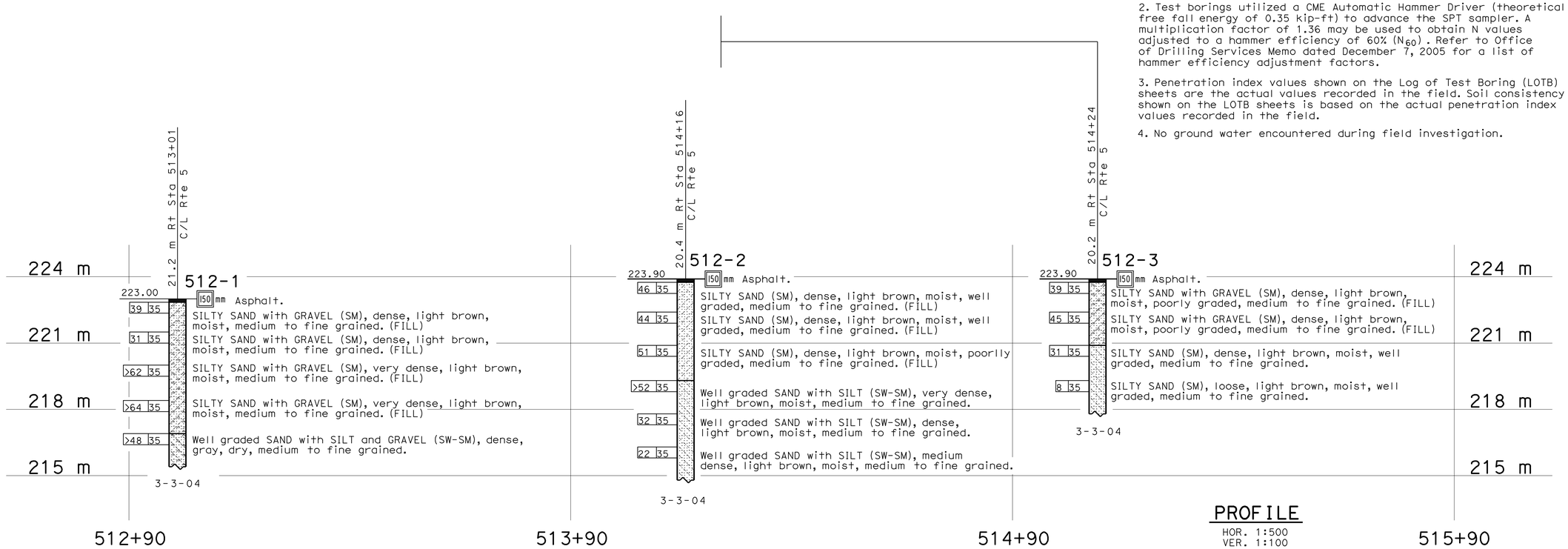


PLAN
1:500

BENCH MARK
N 578996.73
E 1967898.053
Elev 226.694 m



PROFILE
HOR. 1:500
VER. 1:100

Notes:

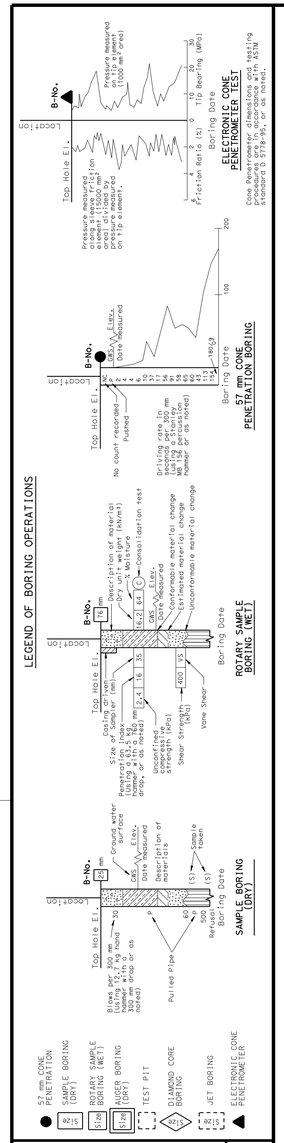
1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

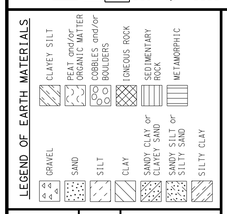
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.

R-11





CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/0.3m)	Granular	SPT N-Value (Blows/0.3m)	Cohesive
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>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 9/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

RETAINING WALL NO. 512
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 7-10-06 7-3-06 SHEET OF

FILE => 71218vqc004.dgn

USERNAME => trphilis DATE PLOTTED => 04-MAY-2010 TIME PLOTTED => 05:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	437	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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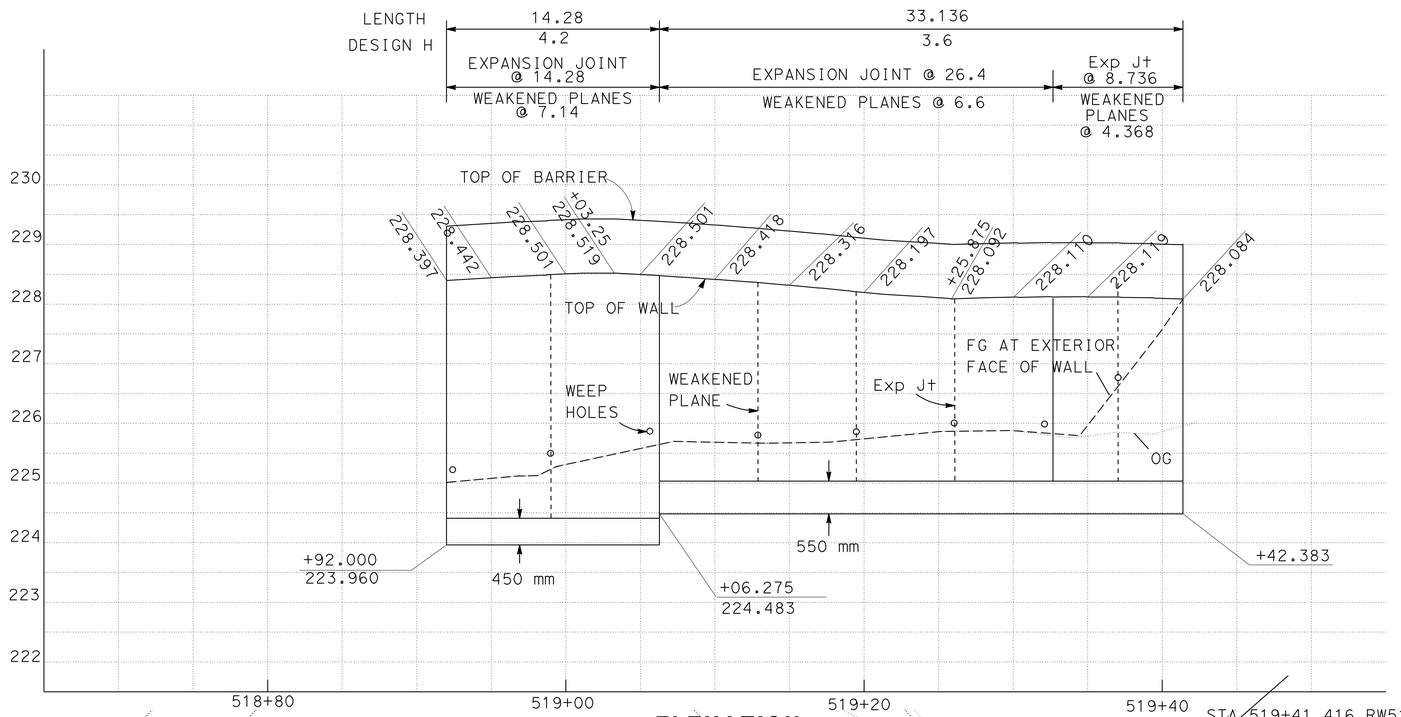
Caltrans Metric

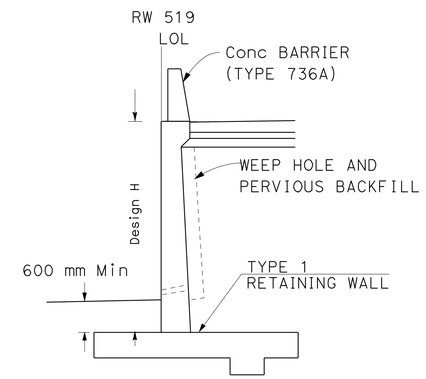
NOTE: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS.

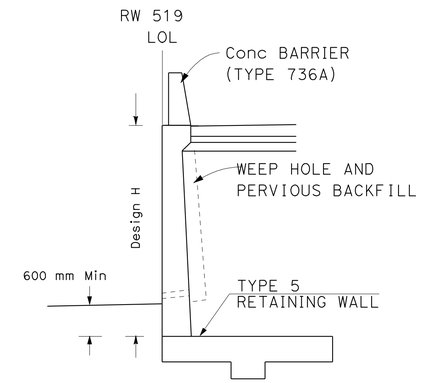
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150mm INTO CONCRETE BARRIER.



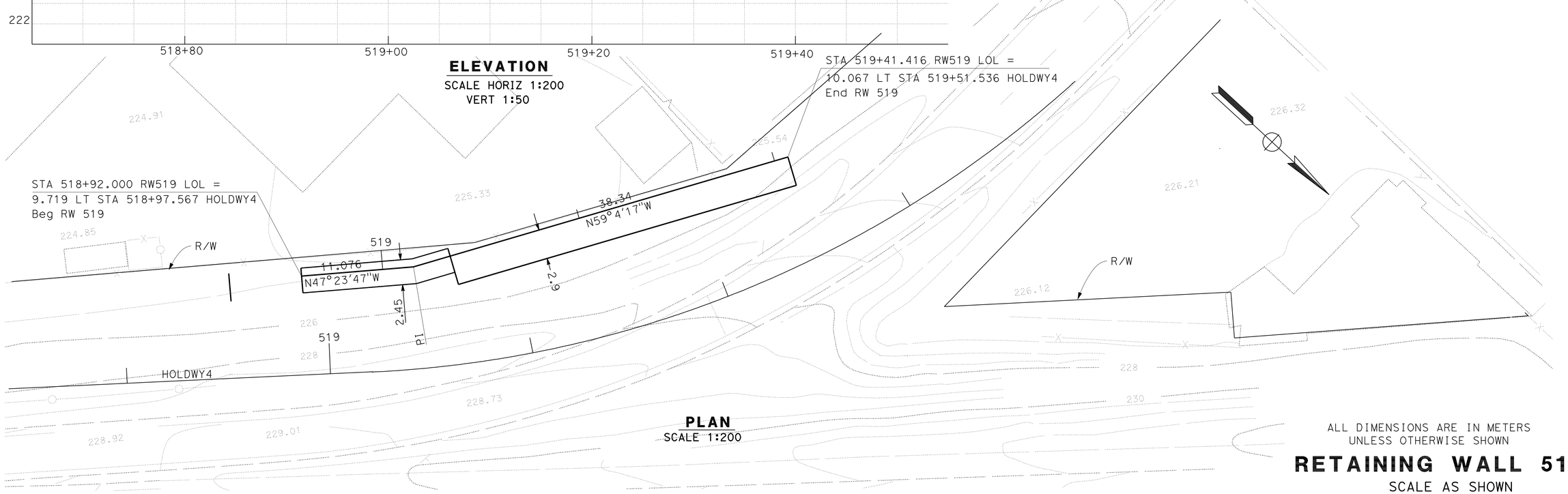
ELEVATION
SCALE HORIZ 1:200
VERT 1:50



TYPICAL SECTION
STA 518+92.000 RW519 ℄
TO 519+06.275 RW519 ℄
NO SCALE



TYPICAL SECTION
STA 519+06.275 RW519 ℄
TO 519+41.383 RW519 ℄
NO SCALE



PLAN
SCALE 1:200

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

RETAINING WALL 519

SCALE AS SHOWN

R-12

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

KK	KK	KK	REVISED BY
07-08-08	06-02-08	05-10-08	DATE REVISED

AMIR ELSHARIEF — CALCULATED-DESIGNED BY
KYLE KUNITAKE — CHECKED BY
CELINA AVILES — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	438	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

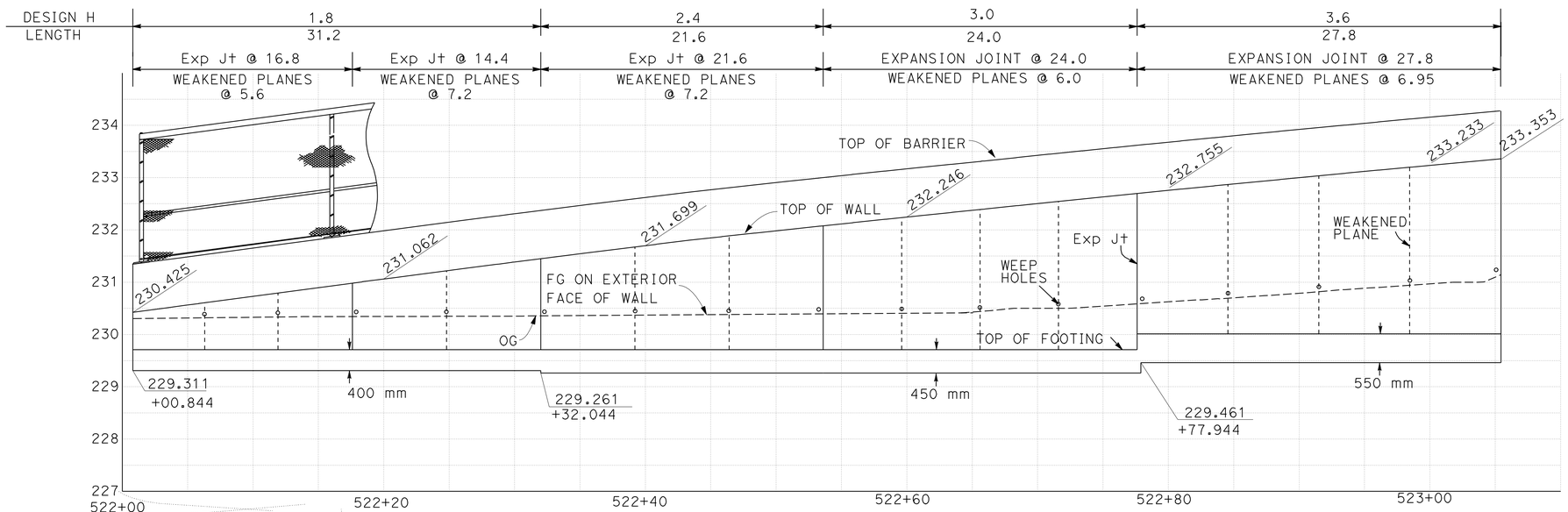
5-3-10
PLANS APPROVAL DATE

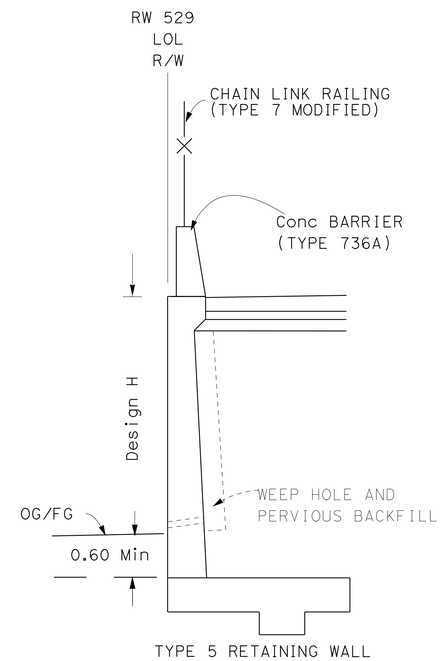
REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

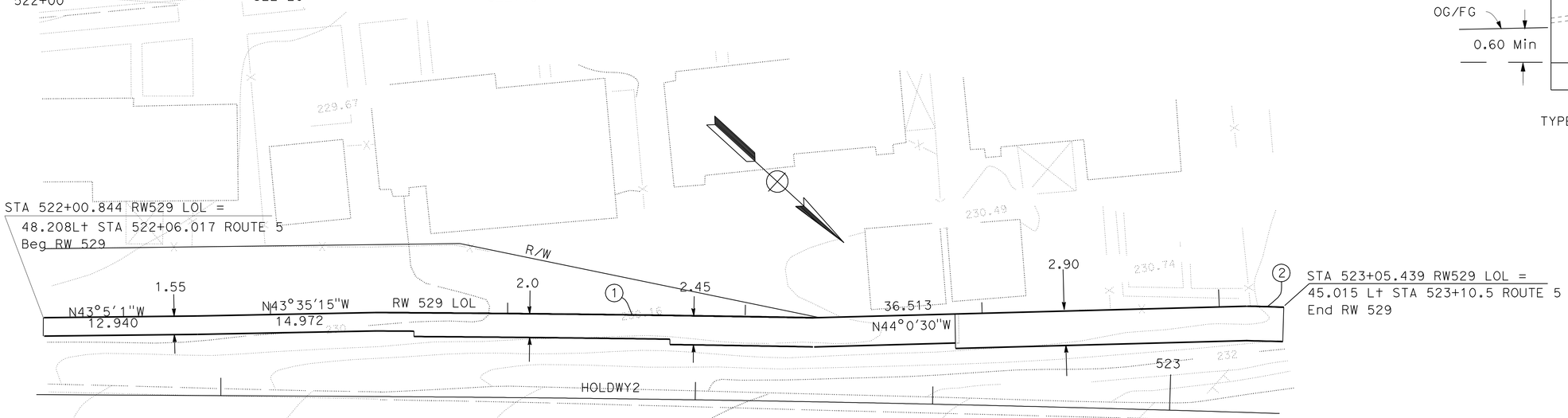
Caltrans Metric

NOTE:
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. SEE STRUCTURE PLANS FOR ARCHITECHTURAL DETAILS.
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150mm INTO CONCRETE BARRIER
4. SEE STRUCTURE PLANS FOR CHAIN LINK RAILING (TYPE 7 MODIFIED) DETAILS.





TYPE 5 RETAINING WALL



CURVE DATA

No.	R	Δ	T	L
1	2907.71	0°43'41"	18.48	36.95
2	921.15	0°11'33"	1.55	3.10

PLAN
SCALE 1:200

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 529

SCALE AS SHOWN

R-13

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

KK	7/7/08	REVISED BY / DATE REVISED
AMIR ELSHARIEF	KYLE KUNITAKE	CALCULATED-DESIGNED BY / CHECKED BY
CELINA AVILES		FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 04-MAY-2010 | TIME PLOTTED => 05:56

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	439	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

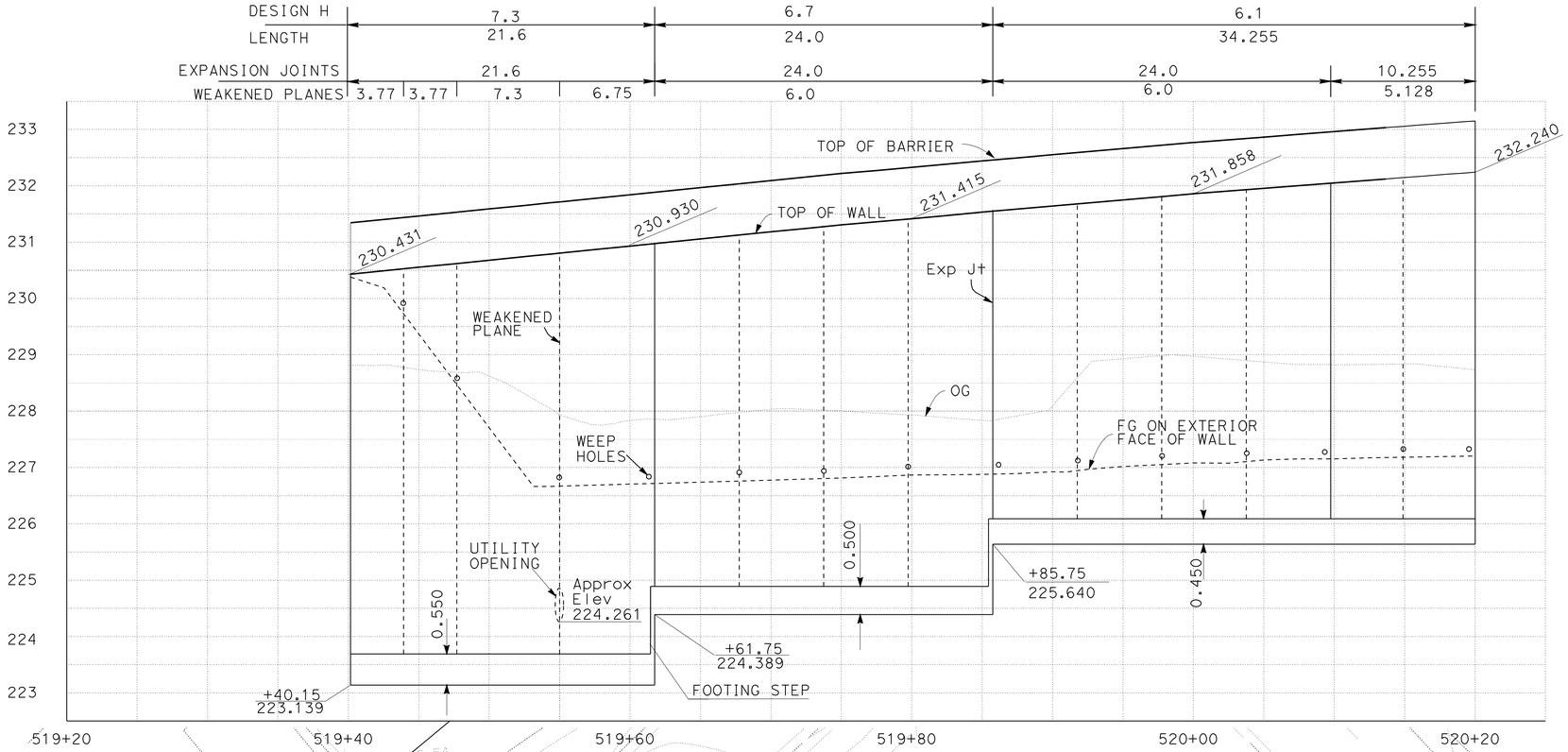
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric

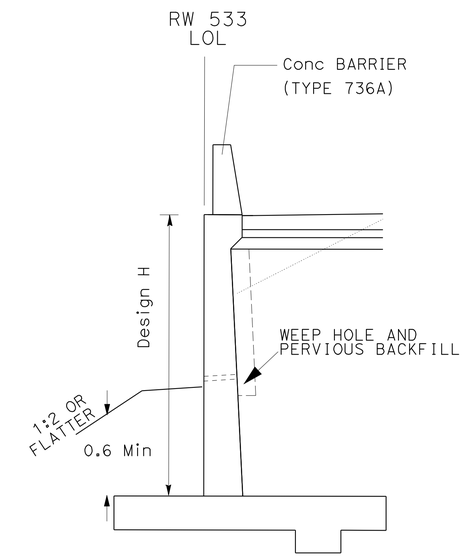
NOTE: 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

2. SEE STRUCTURE PLANS FOR ARCHITECTURAL DETAILS

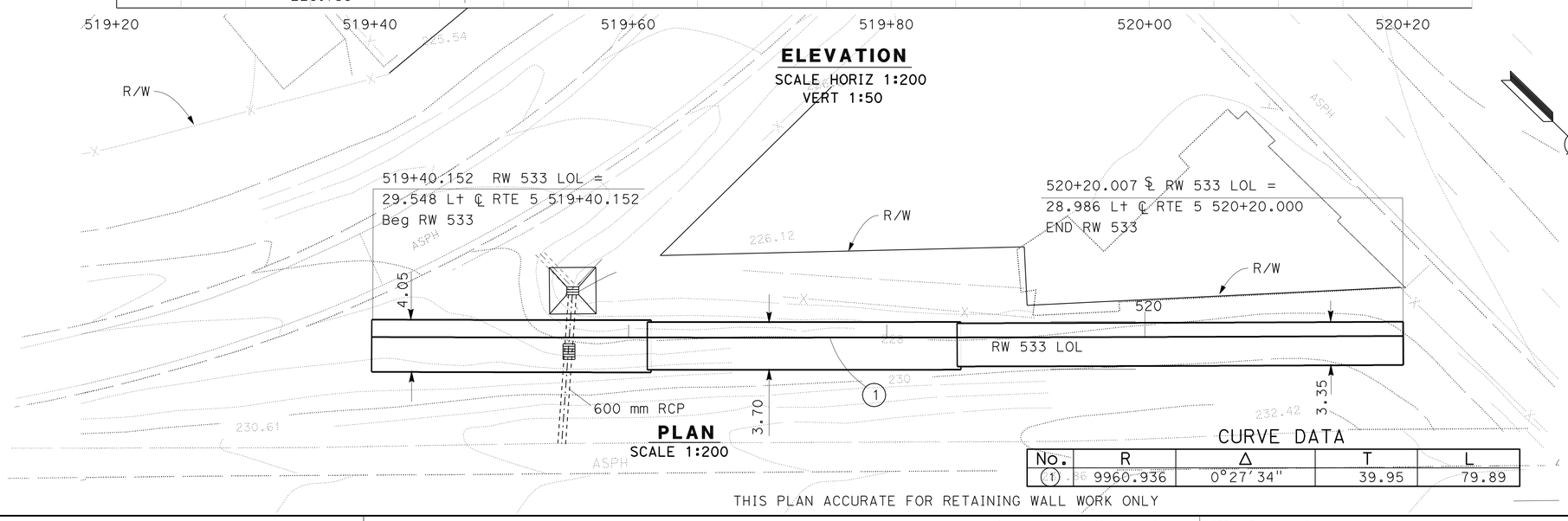
3. WATERSTOP IN THE EXPANSION JOINT SHALL BE EXTENDED 150mm INTO CONCRETE BARRIER.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50



TYPE 1 RW



PLAN
SCALE 1:200

CURVE DATA

No.	R	Δ	T	L
1	9960.936	0°27'34"	39.95	79.89

THIS PLAN ACCURATE FOR RETAINING WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

RETAINING WALL 533

SCALE AS SHOWN

R-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY: KYLE KUNITAKE
REVISED BY: KK
DATE REVISED: 7/07/08

LAST REVISION 00-00-00
DATE PLOTTED => 04-MAY-2010
TIME PLOTTED => 05:56

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	440	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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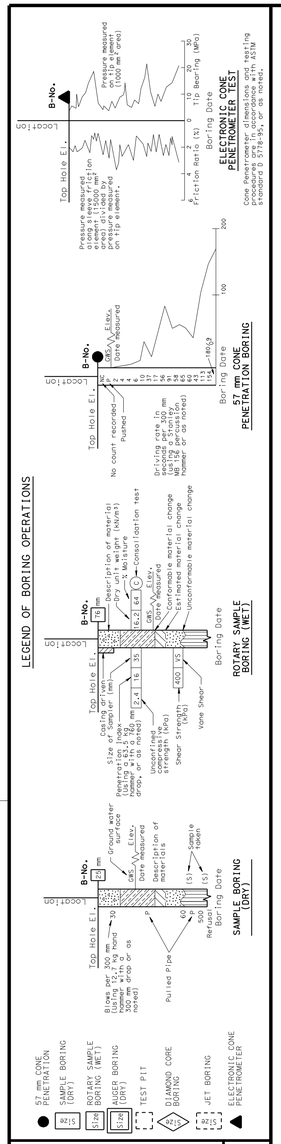
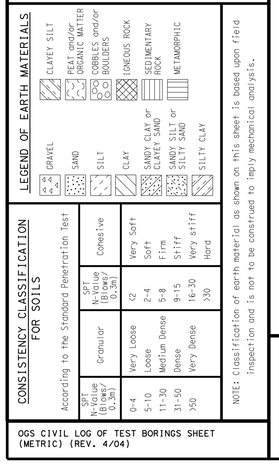




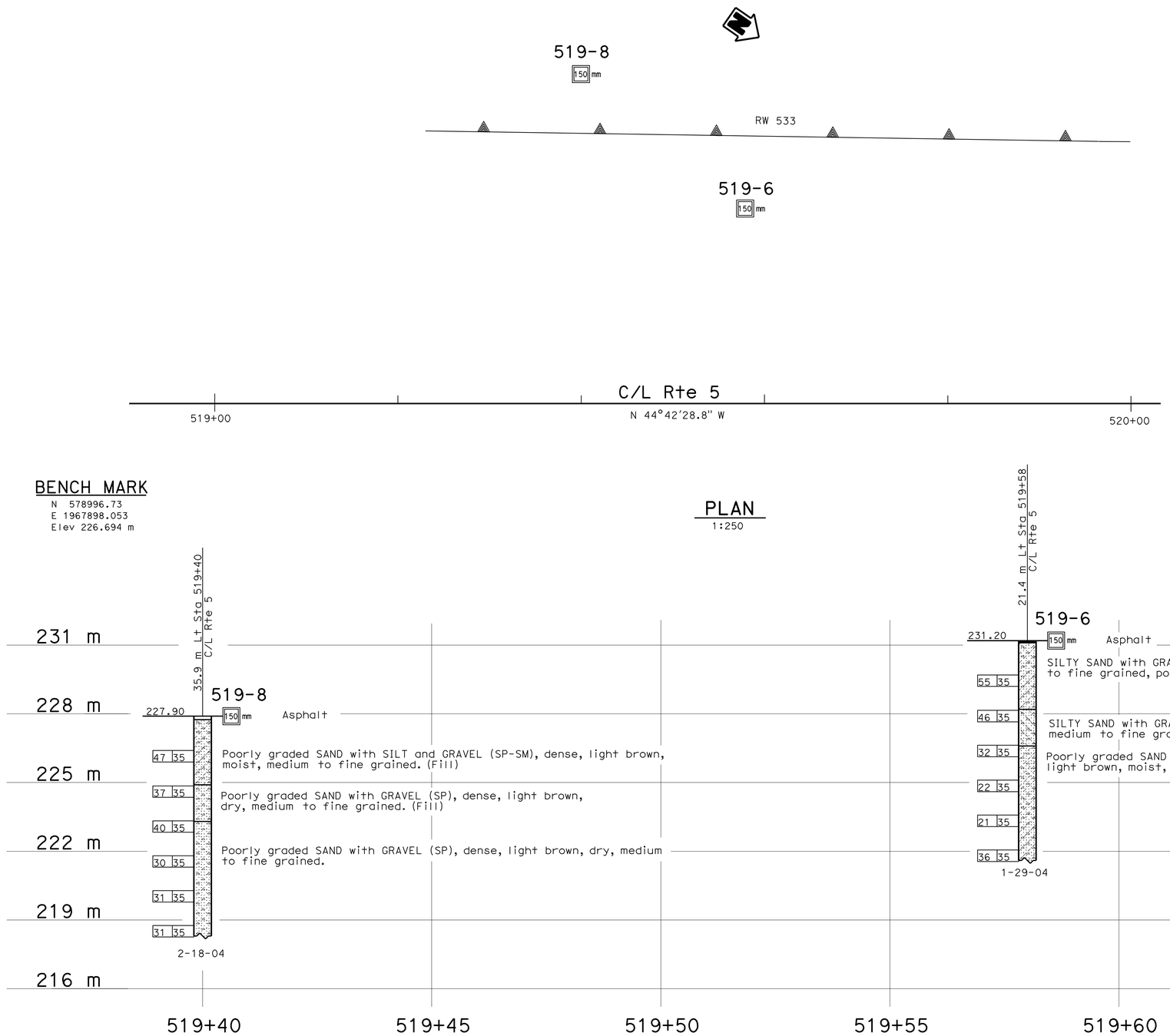
CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/ 0.3m)	Granular	SPT N-Value (Blows/ 0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)



BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

PLAN

1:250

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.

PROFILE

HOR. 1:50
VER. 1:100

R-15

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	W. Tang 10/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

RETAINING WALL NO. 533
LOG OF TEST BORINGS 1 OF 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 7-26-06 7-6-06

SHEET OF

FILE => 71218vqf002.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:45

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	441	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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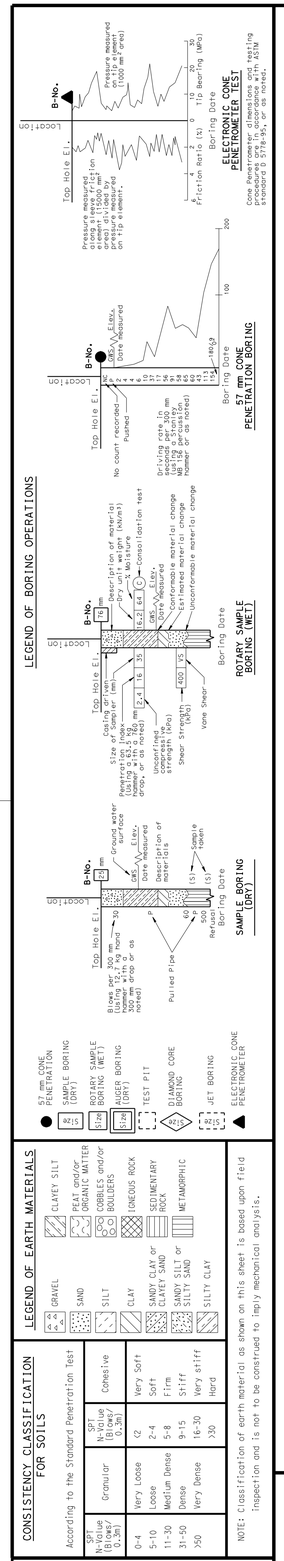
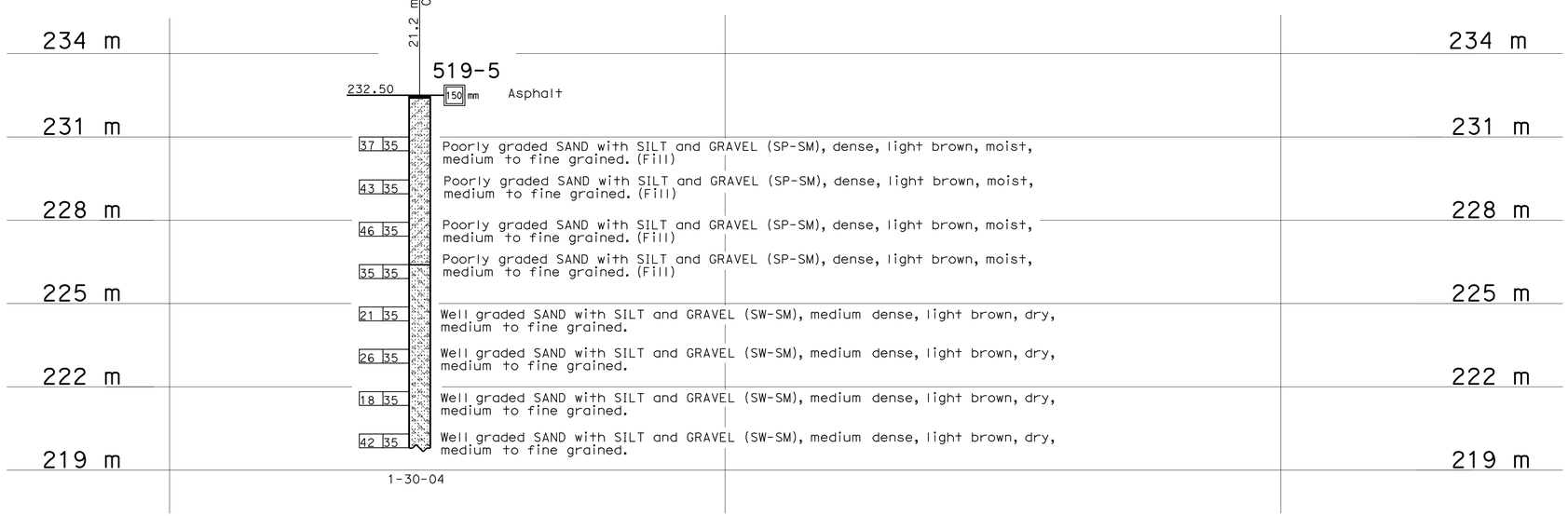


OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

FOR PLAN VIEW, SEE "LOG OF TEST BORINGS" 1 OF 2

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.
4. No ground water encountered during field investigation.



PROFILE
HOR. 1:100
VER. 1:100

R-16

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	W. Tang 10/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

RETAINING WALL NO. 533
LOG OF TEST BORINGS 2 OF 2

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-26-06 7-6-06 5-4-07

SHEET OF

FILE => 71218vqf003.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	442	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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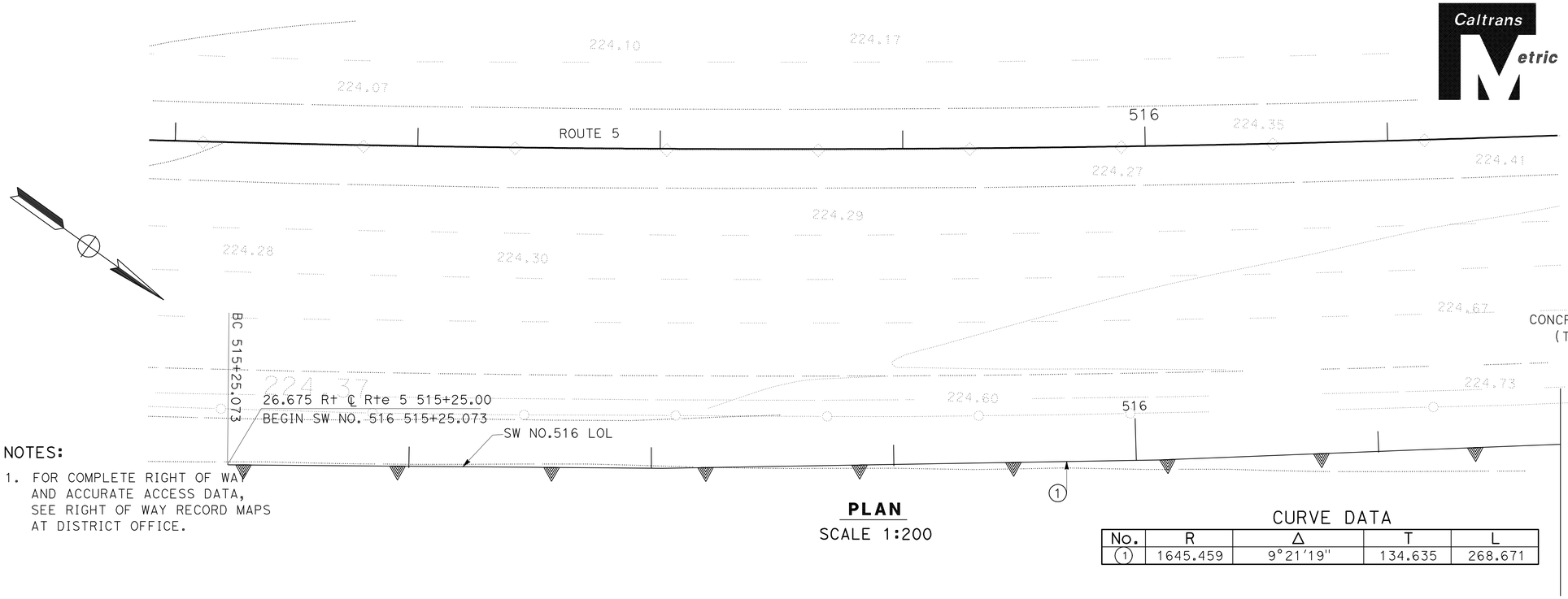
Caltrans Metric



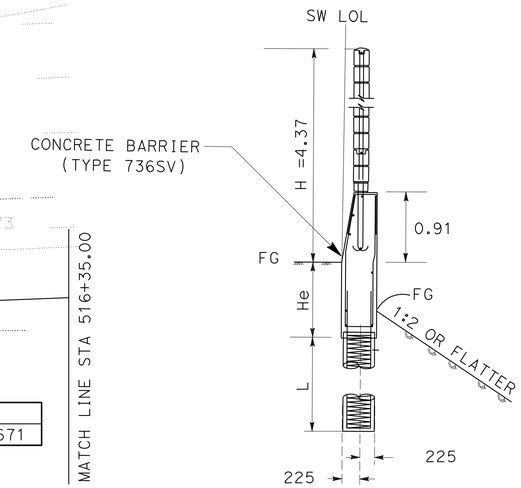
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

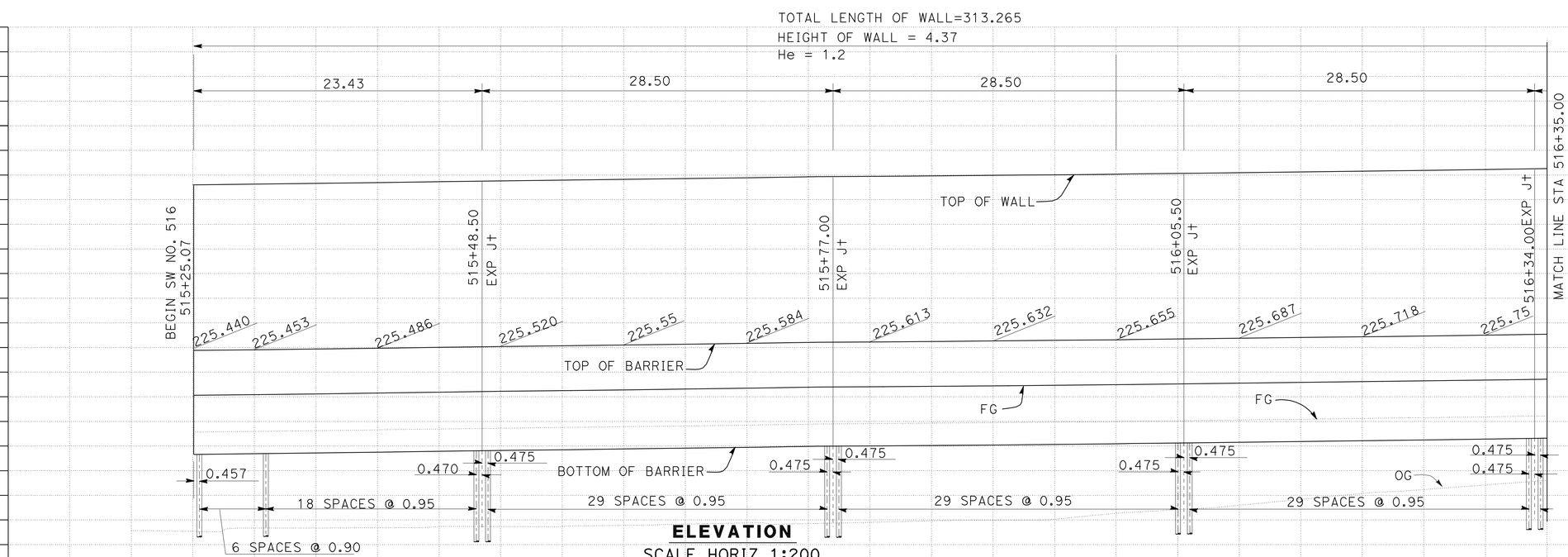
PLAN
SCALE 1:200

CURVE DATA

No.	R	Δ	T	L
1	1645.459	9°21'19"	134.635	268.671



TYPICAL SECTION



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 516
SCALE AS SHOWN

SW-1

A.E.	8-27-08		
REVISED BY	DATE REVISED		
SAMIA SOUEIDAN	AMIR ELSHARIEF		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	443	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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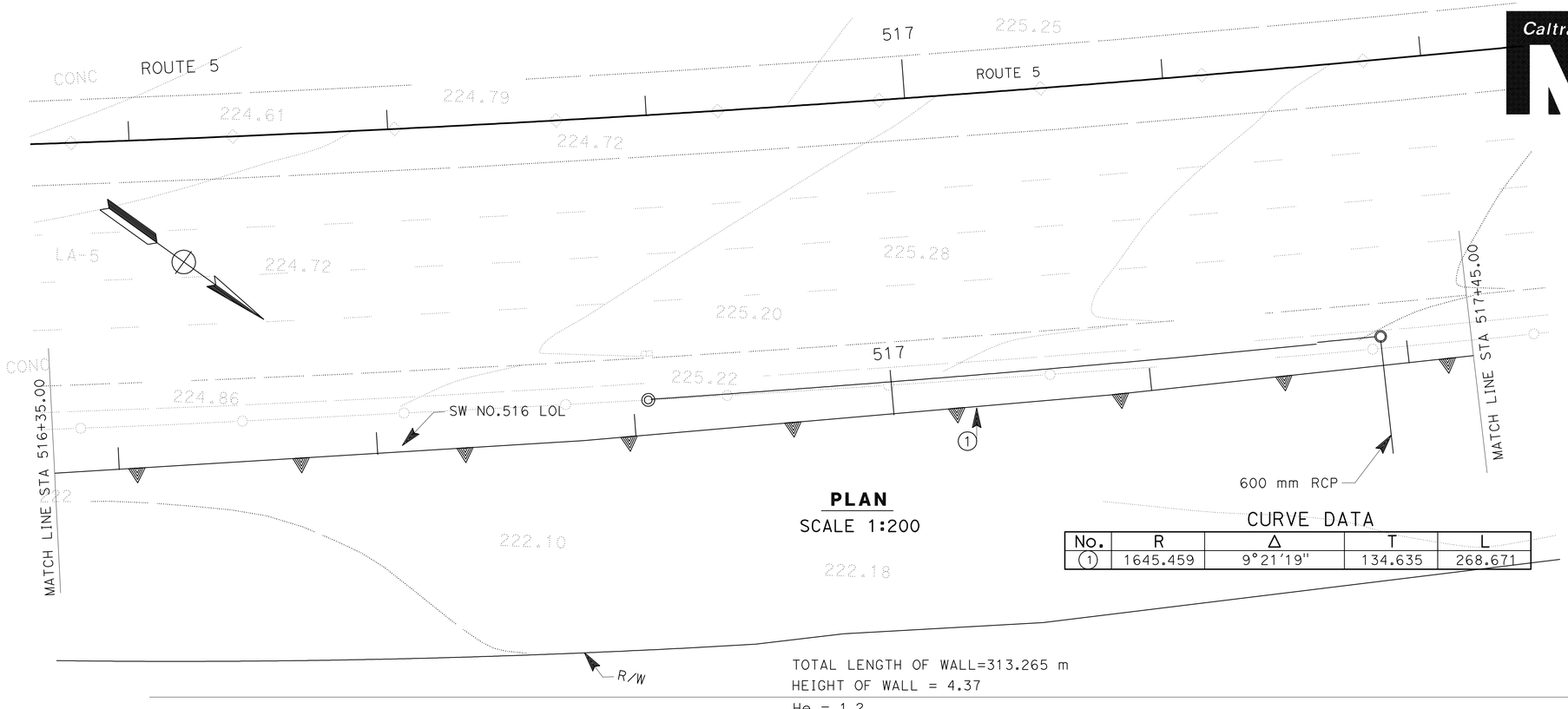
Caltrans Metric



PLAN
SCALE 1:200

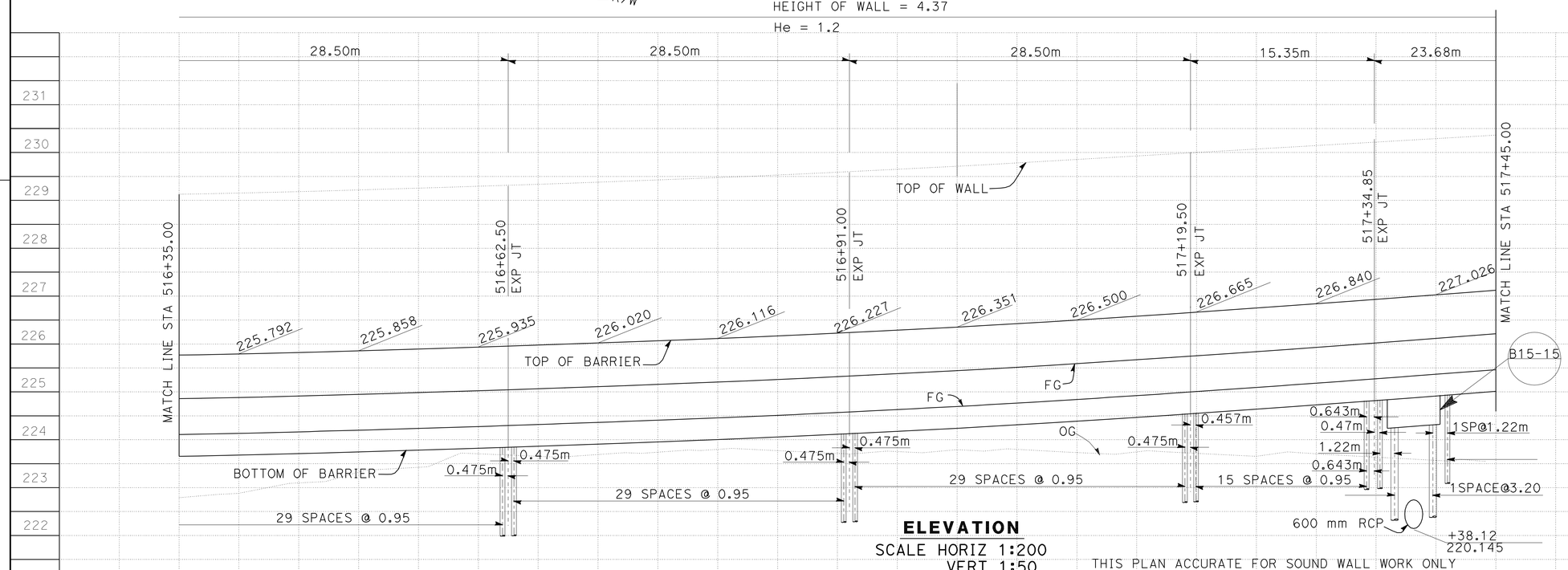
CURVE DATA

No.	R	Δ	T	L
1	1645.459	9°21'19"	134.635	268.671

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

TOTAL LENGTH OF WALL=313.265 m
HEIGHT OF WALL = 4.37
He = 1.2



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 516
SCALE AS SHOWN

SW-2

A.E.	8-27-08	REVISED BY	DATE REVISED
SAMIA SOUEIDAN		CALCULATED-DESIGNED BY	
AMIR ELSHARIEF		CHECKED BY	
FUNCTIONAL SUPERVISOR	CELINA AVILES		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	444	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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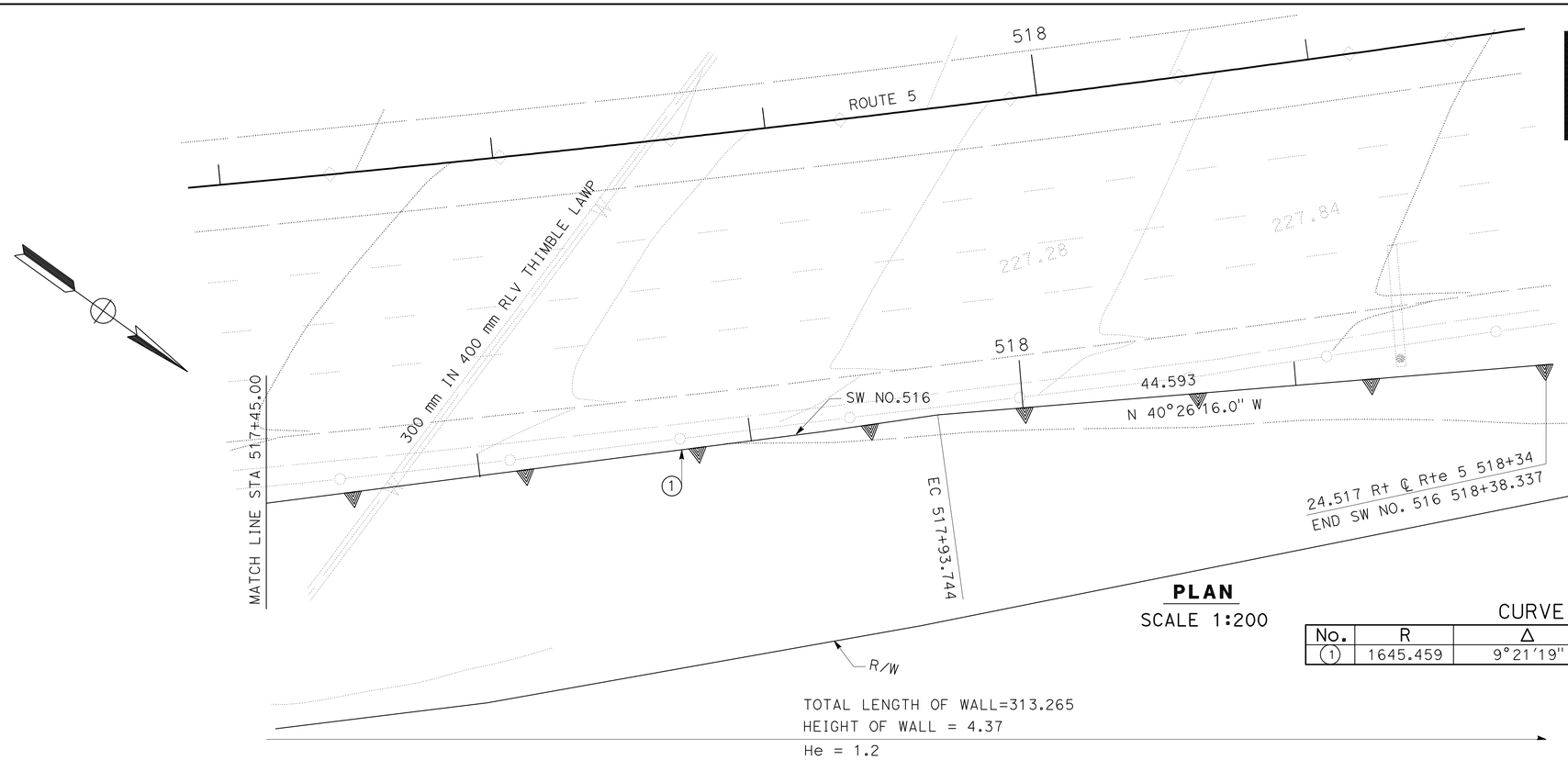
Caltrans Metric



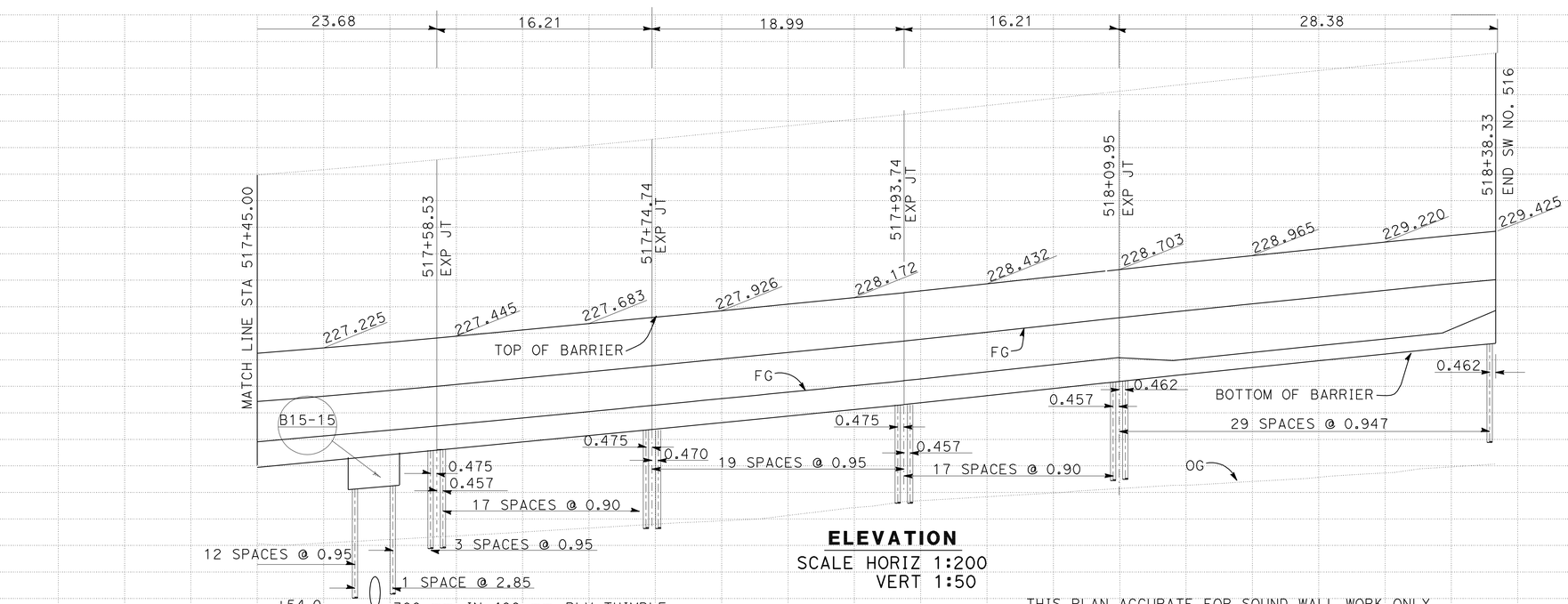
PLAN
SCALE 1:200

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
1	1645.459	9°21'19"	134.635	268.671



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 516
SCALE AS SHOWN

SW-3

A.E.	8-27-08
REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	SAMIA SOUEIDAN
CHECKED BY	AMIR ELSHARIEF
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:46

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	445	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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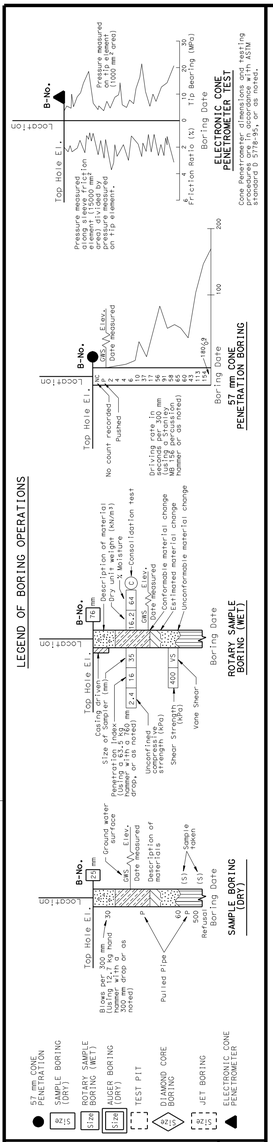
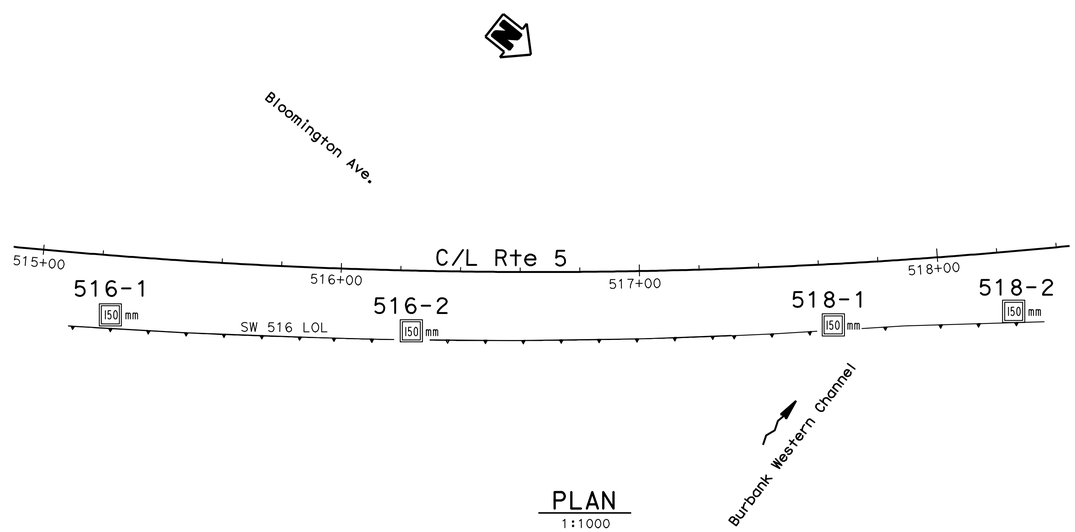


OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)



BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

PLAN

1:1000

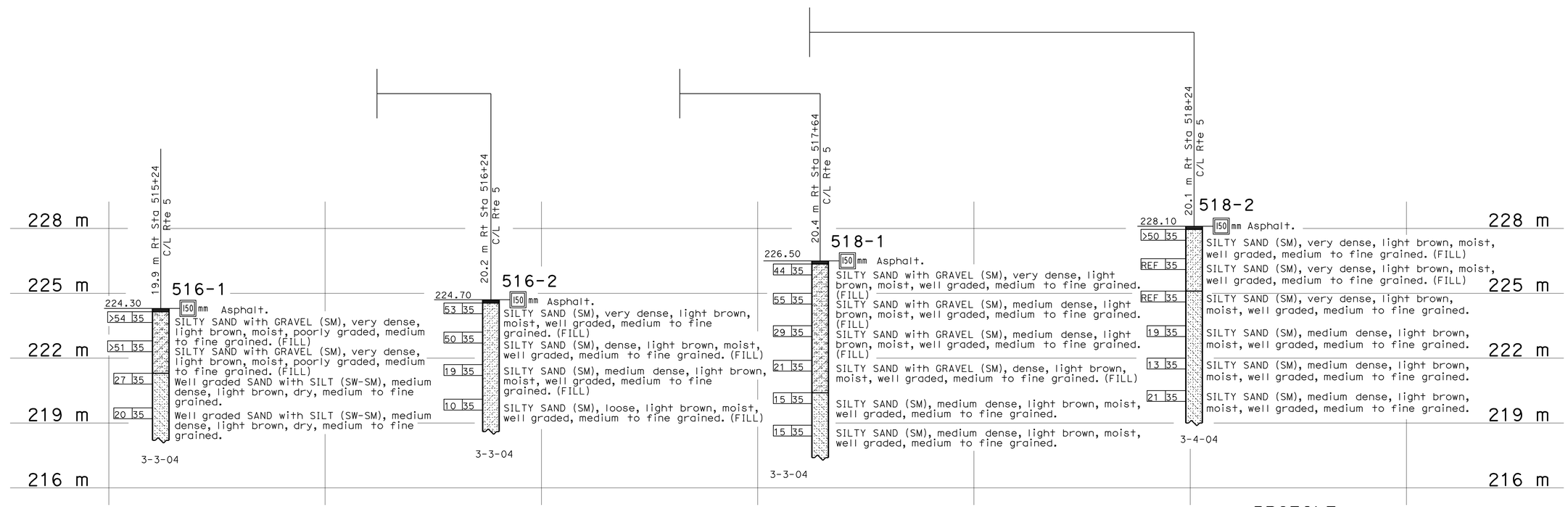
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.



PROFILE

HOR. 1:1000
VER. 1:100

SW-4

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 516
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-10-06 1-3-06

SHEET OF

FILE => 71218vra004.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:46

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	446	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

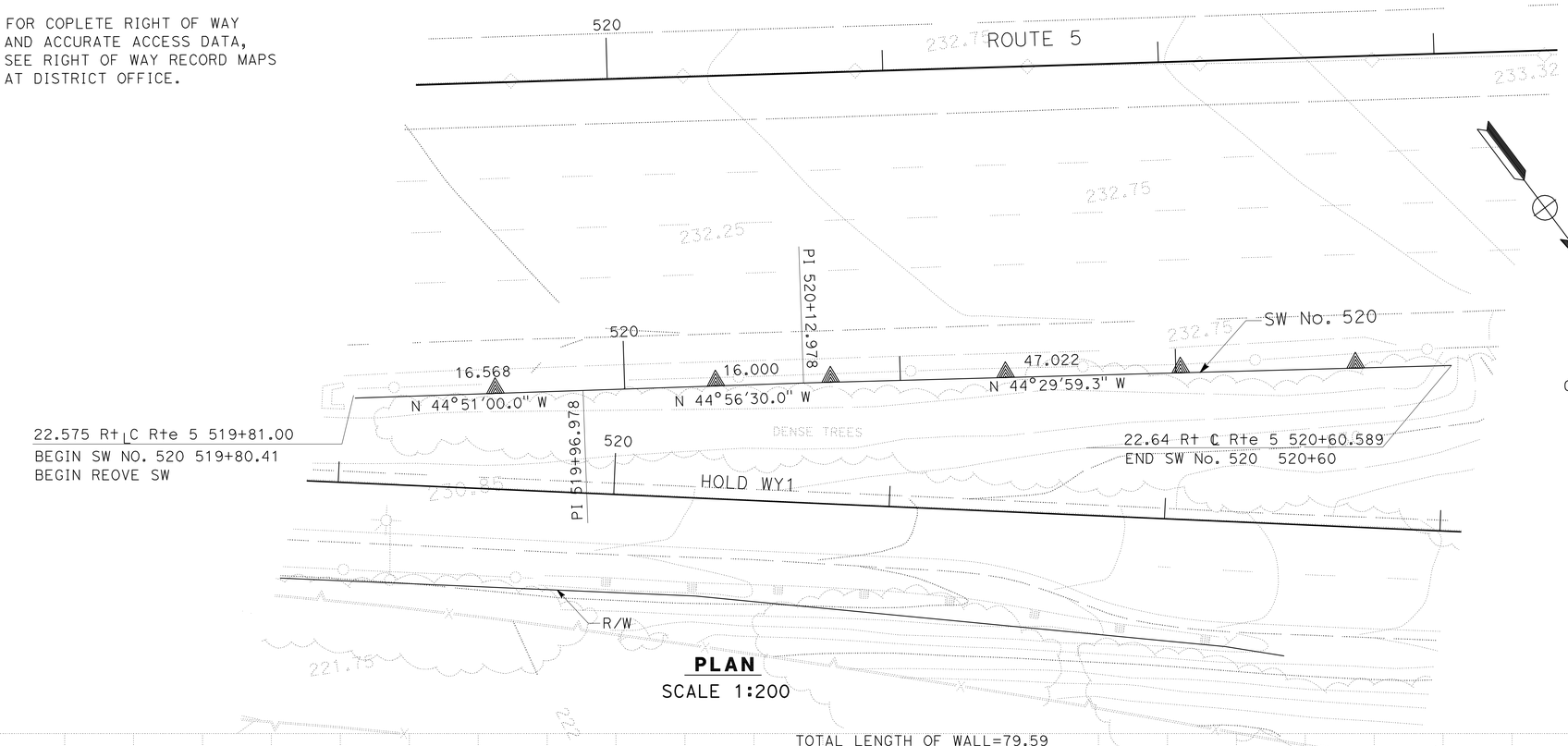
REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

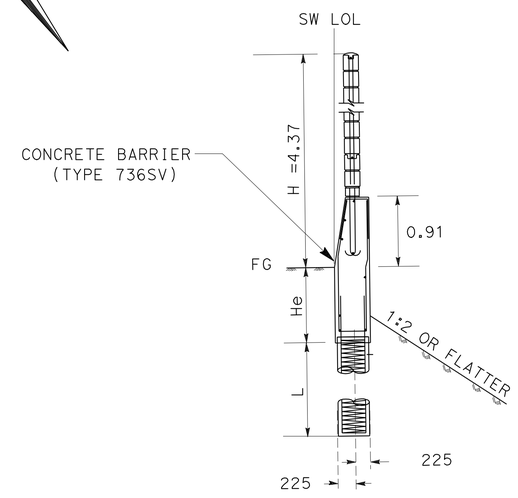
Caltrans Metric

NOTES:

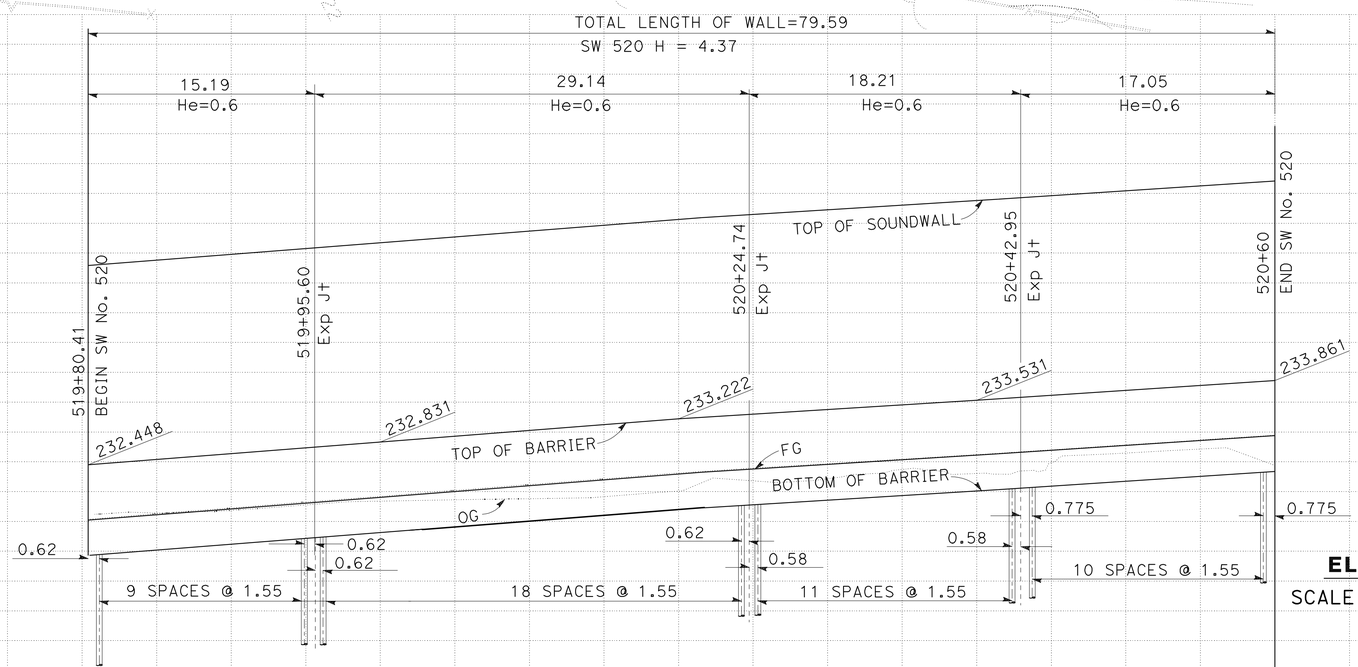
1. FOR COPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:200



TYPICAL SECTION



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 520
SCALE AS SHOWN

SW-5

Station		+80	520+00	+20	+40	+60	+80
3	Exc						
	Eb						

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: SAMIA SOUEIDAN
CHECKED BY: AMIR ELSHARIEF
REVISED BY / DATE REVISED

LAST REVISION DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:46
07-20-07

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	447	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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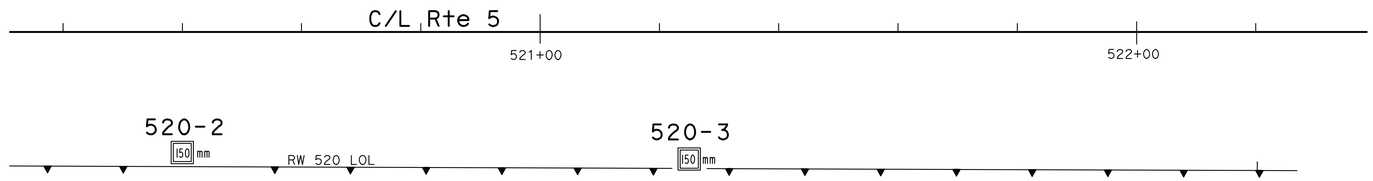


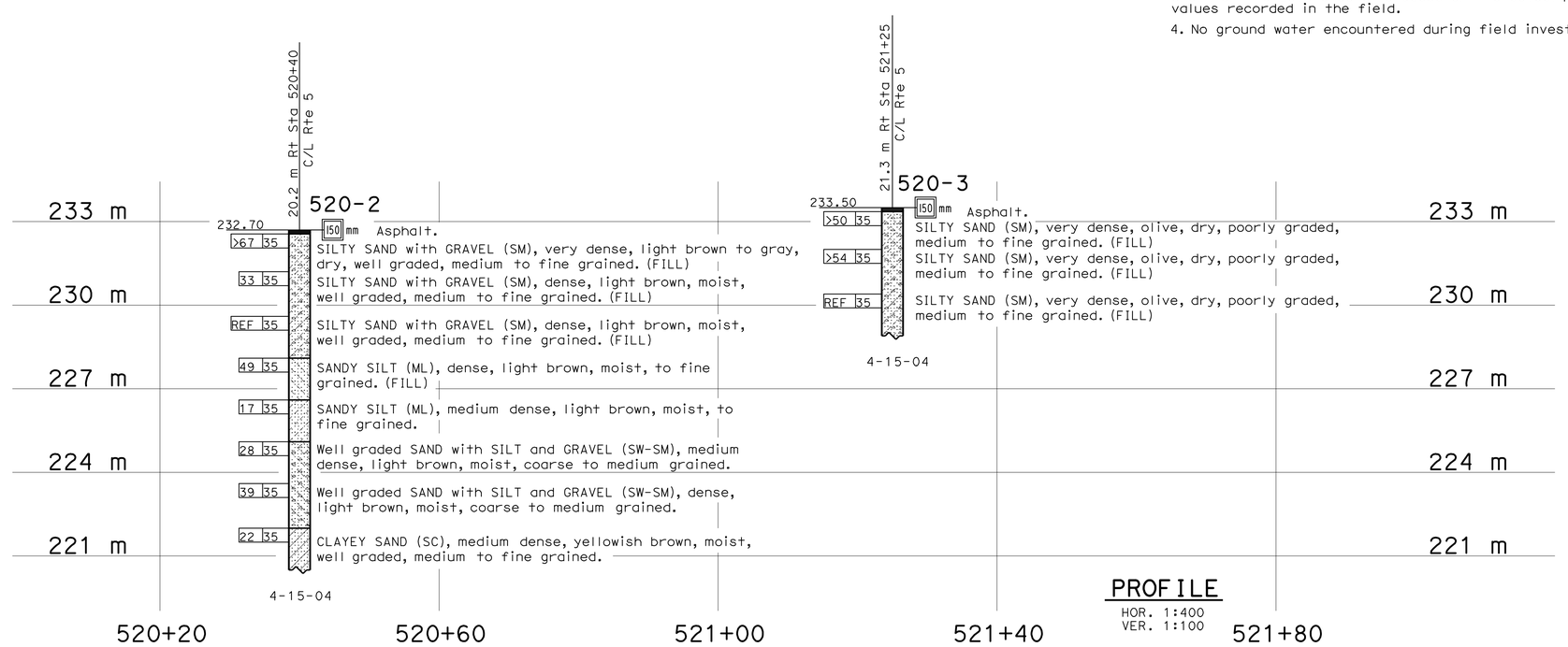
PLAN
1:500

BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

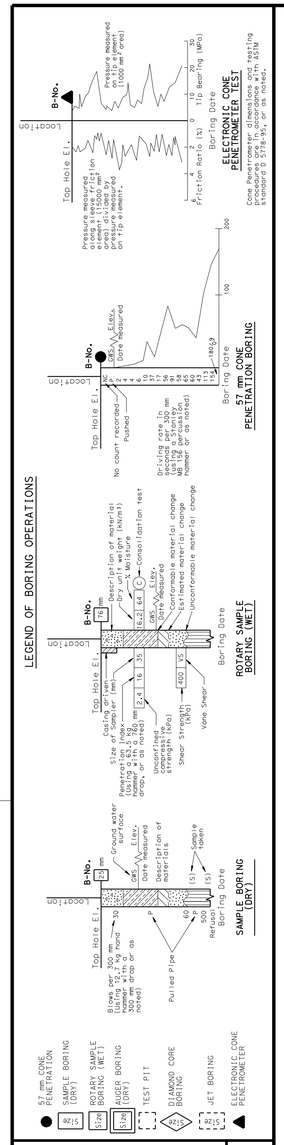
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a Mobil B-47 Safety Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.17 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.
4. No ground water encountered during field investigation.



PROFILE
HOR. 1:400
VER. 1:100

SW-6



OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 8/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

RETAINING WALL NO. 520
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 11-16-06 6-28-06

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FILE => 71218vrb002.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:47

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	448	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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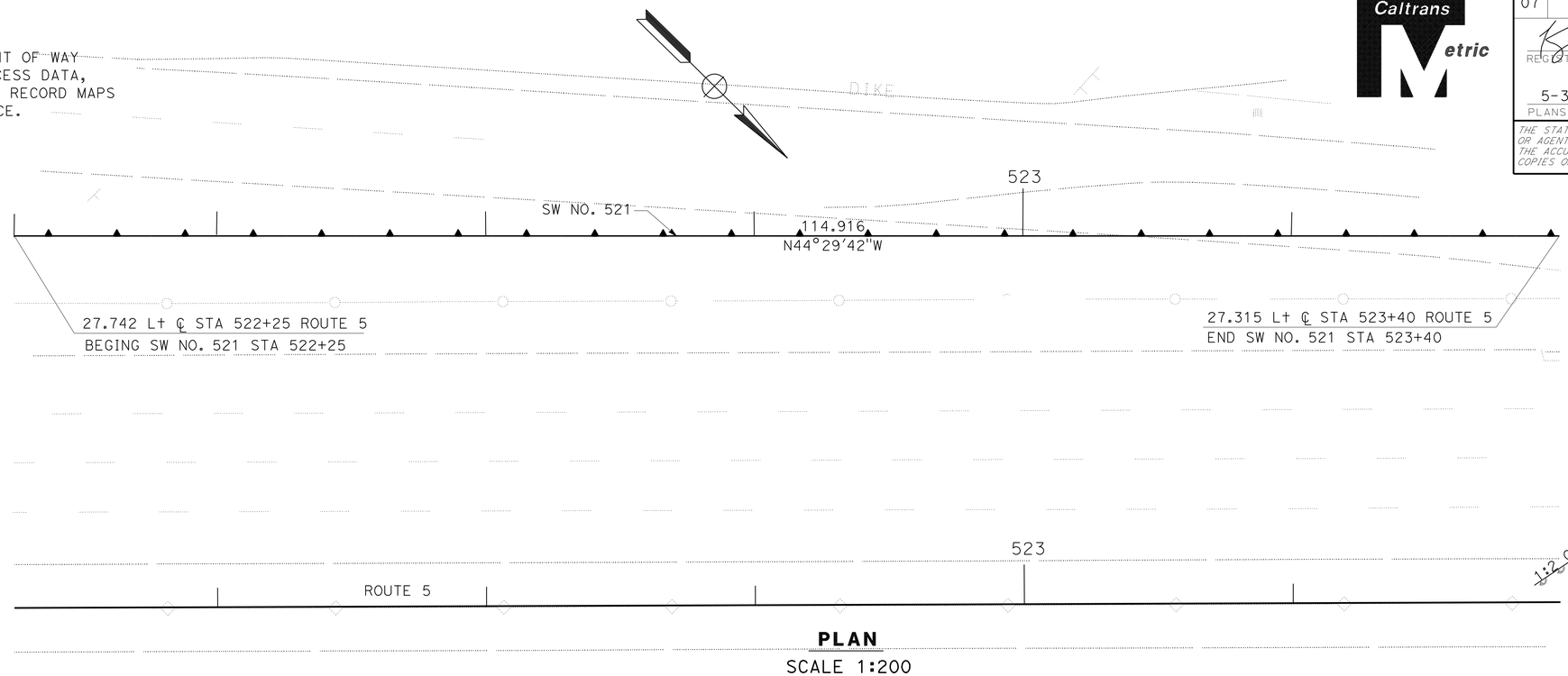
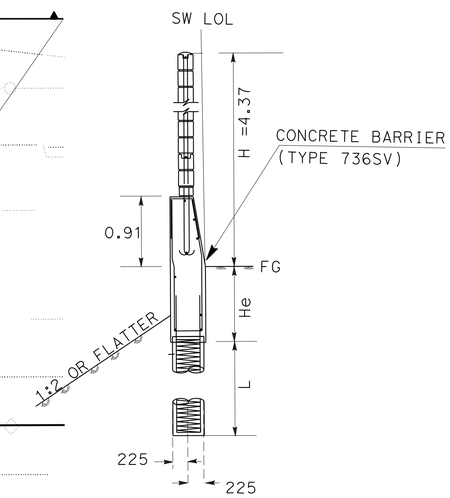
Caltrans Metric

NOTES:

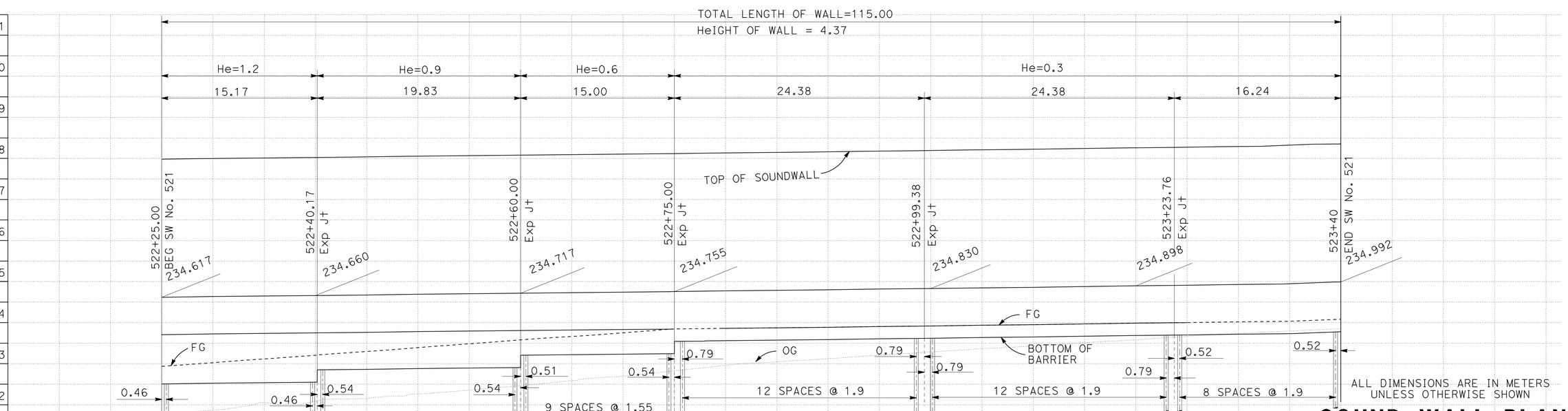
1. FOR COPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:200



TYPICAL SECTION



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 521
SCALE AS SHOWN

SW-7

REVISED BY	DATE REVISED
SAMIA SOUEIDAN	AMIR ELSHARIEF
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION DATE PLOTTED => 03-MAY-2010
12-18-06 TIME PLOTTED => 13:47

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	449	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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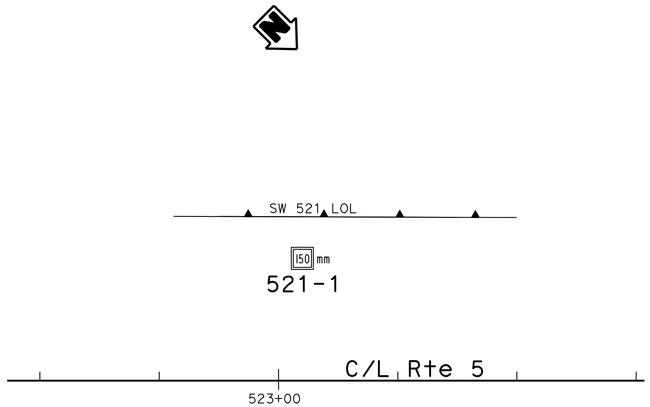


BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

PLAN

1:500

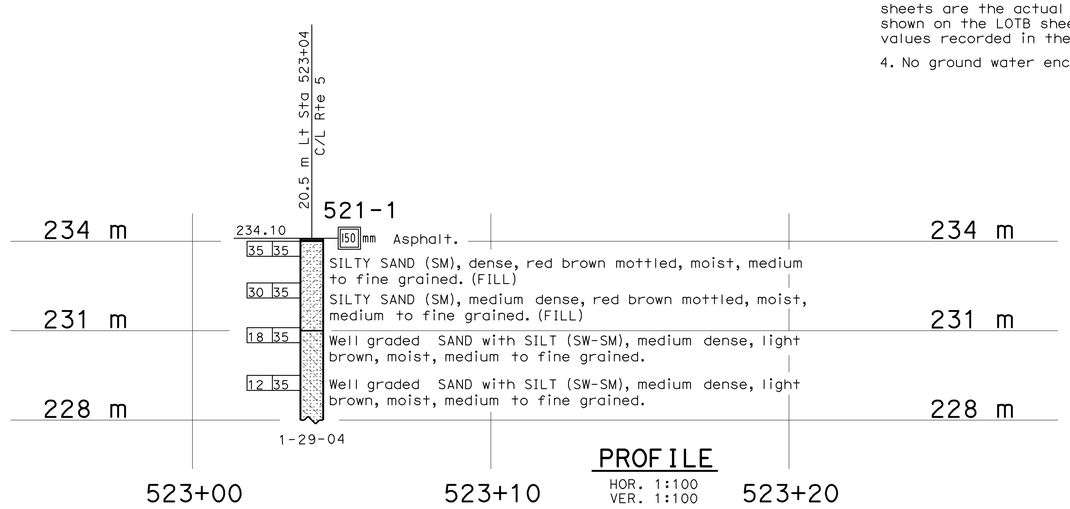
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

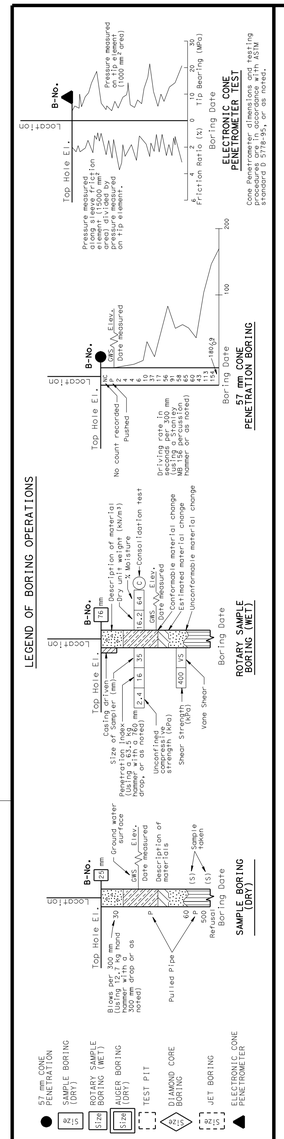
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

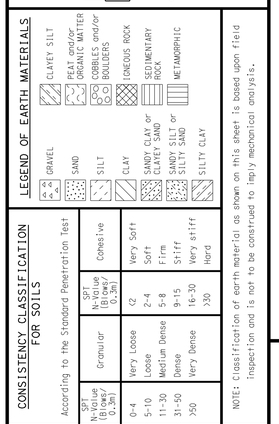
4. No ground water encountered during field investigation.



PROFILE

HOR. 1:100
VER. 1:100





OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 521
LOG OF TEST BORINGS

SW-8

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 5-10-06 1-3-06 SHEET OF

FILE => 71218vrc002.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:47

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	450	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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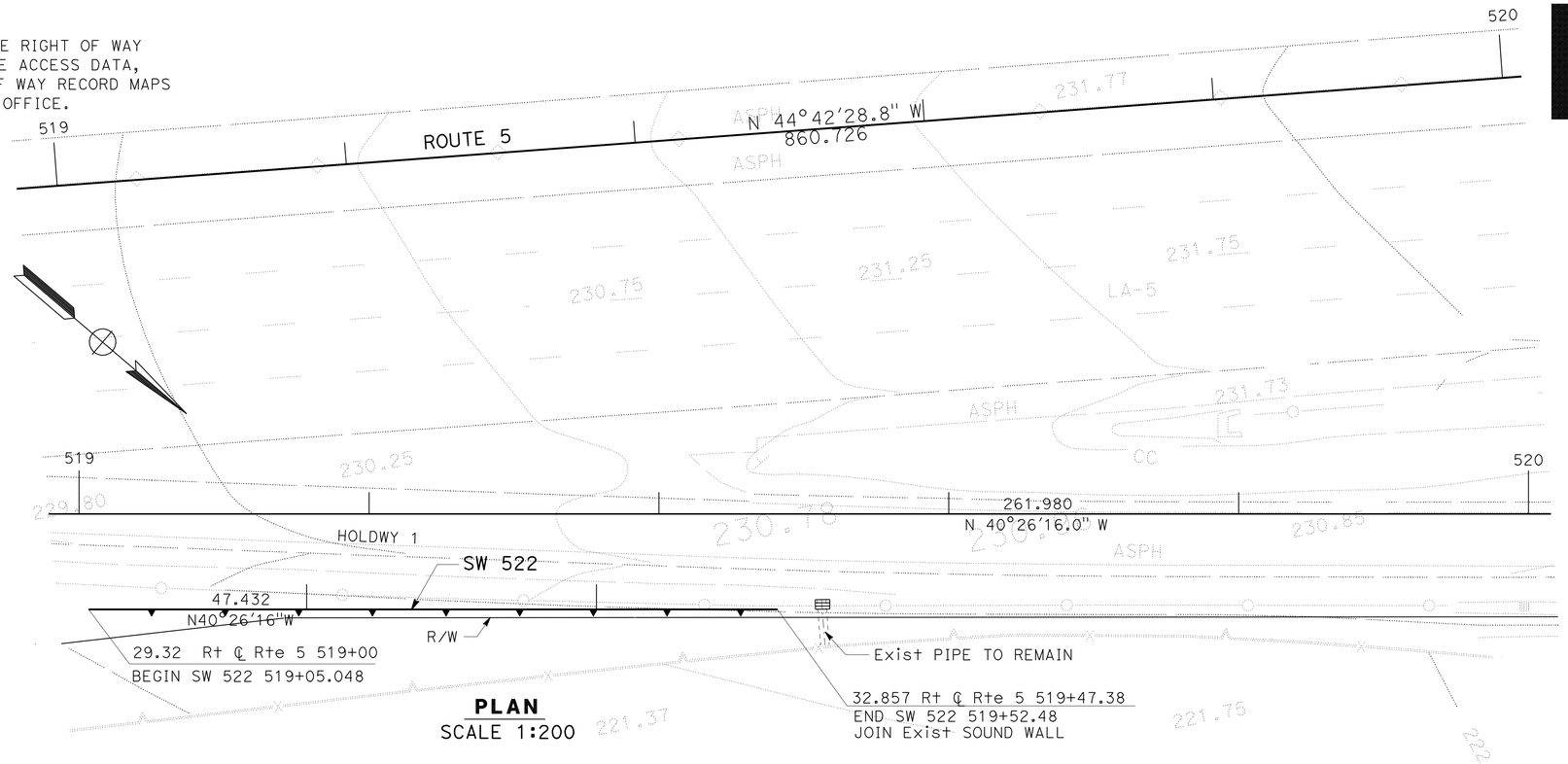
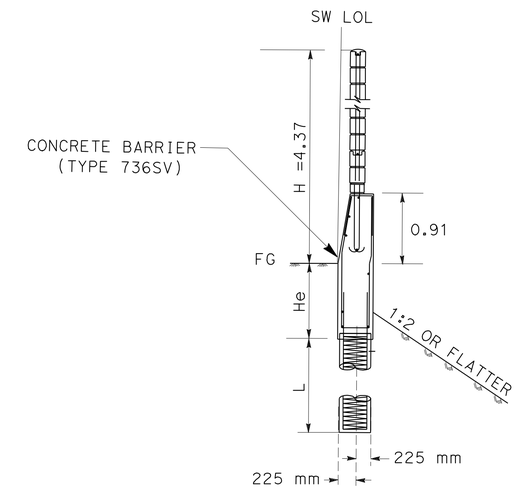
Caltrans Metric

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:200



TYPICAL SECTION

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

SOUND WALL PLAN

SOUND WALL No. 522
SCALE AS SHOWN

SW-9

FUNCTIONAL SUPERVISOR	CELINA AVILES
CALCULATED-DESIGNED BY	SAMIA SOUEIDAN
CHECKED BY	AMIR ELSHARIEF
REVISED BY	KK
DATE REVISED	6/09

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 07-20-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:47

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	451	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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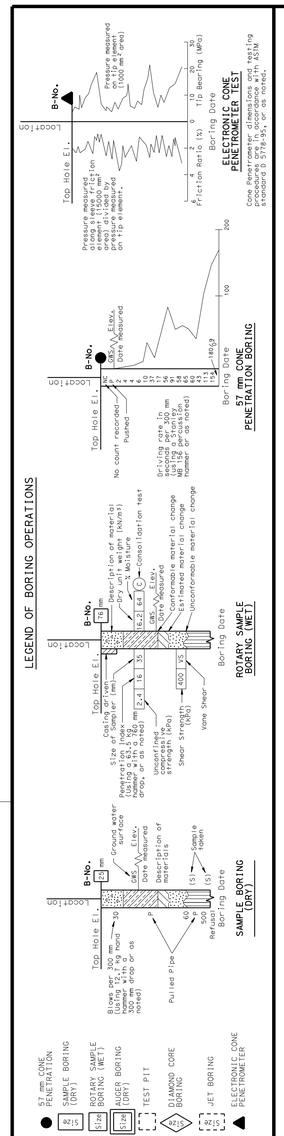
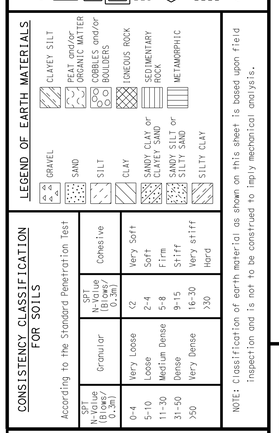
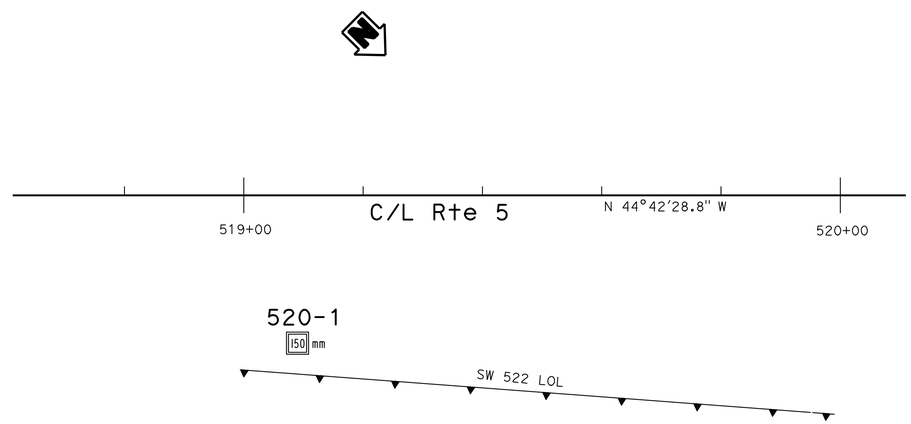




NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)



PLAN
1:500

BENCH MARK
N 578996.73
E 1967898.053
Elev 226.694 m

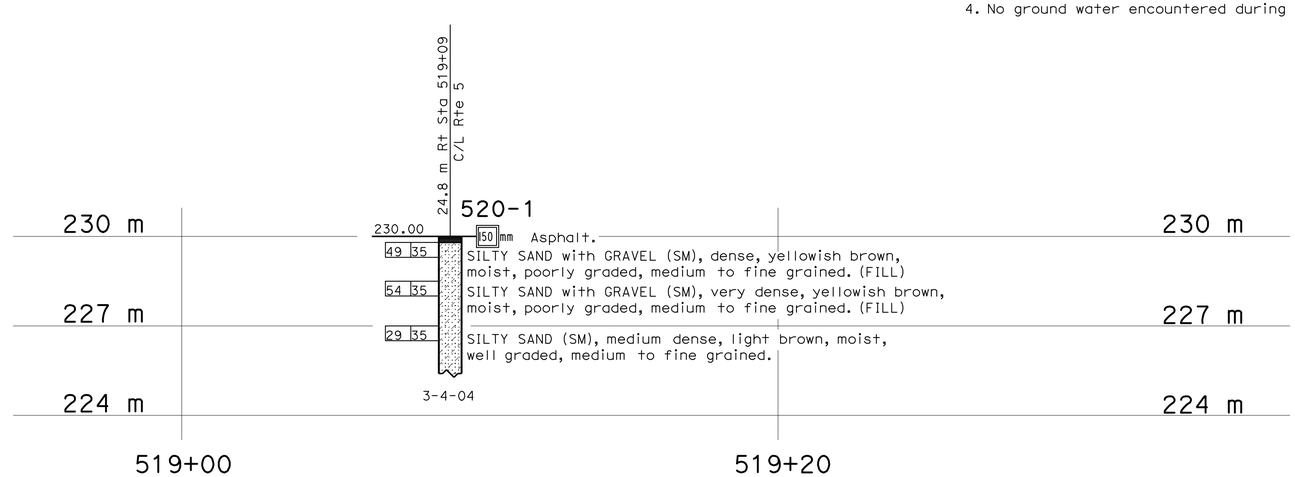
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.



PROFILE
HOR. 1:100
VER. 1:100

SW-10

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 522
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) ~~5-10-06~~ 1-3-06

SHEET OF

FILE => 71218vrd002.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:47

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	452	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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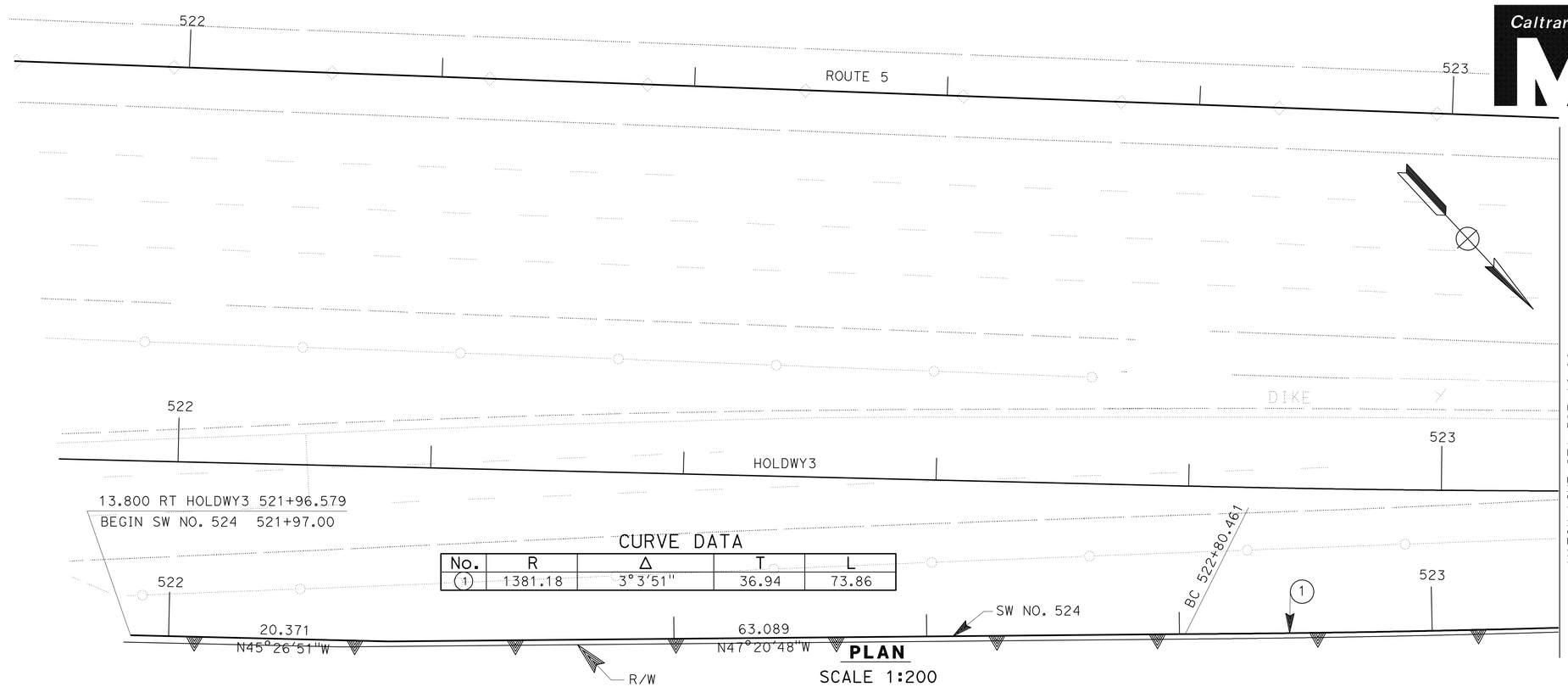
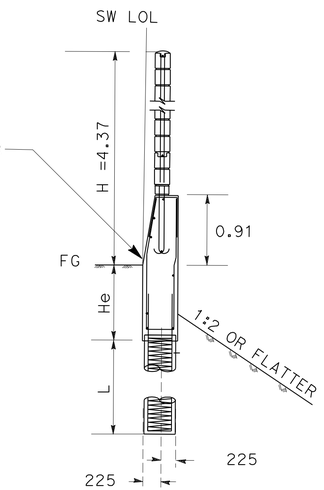
Caltrans Metric



CURVE DATA

No.	R	Δ	T	L
1	1381.18	3°3'51"	36.94	73.86

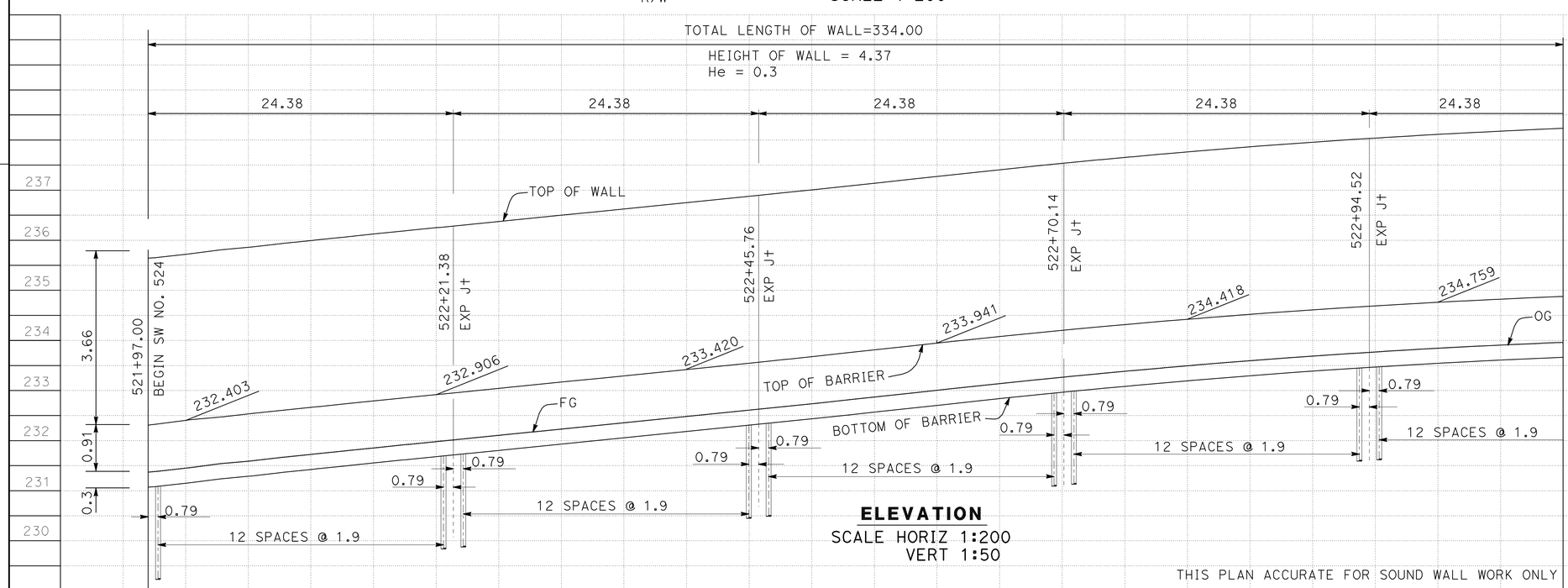
PLAN
SCALE 1:200



TYPICAL SECTION

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 524
SCALE AS SHOWN

SW-11

REVISED BY | DATE REVISED

SAMIA SOUEIDAN | AMIR ELSHARIEF

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans **DESIGN**

LAST REVISION 07-20-07 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 13:47

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	453	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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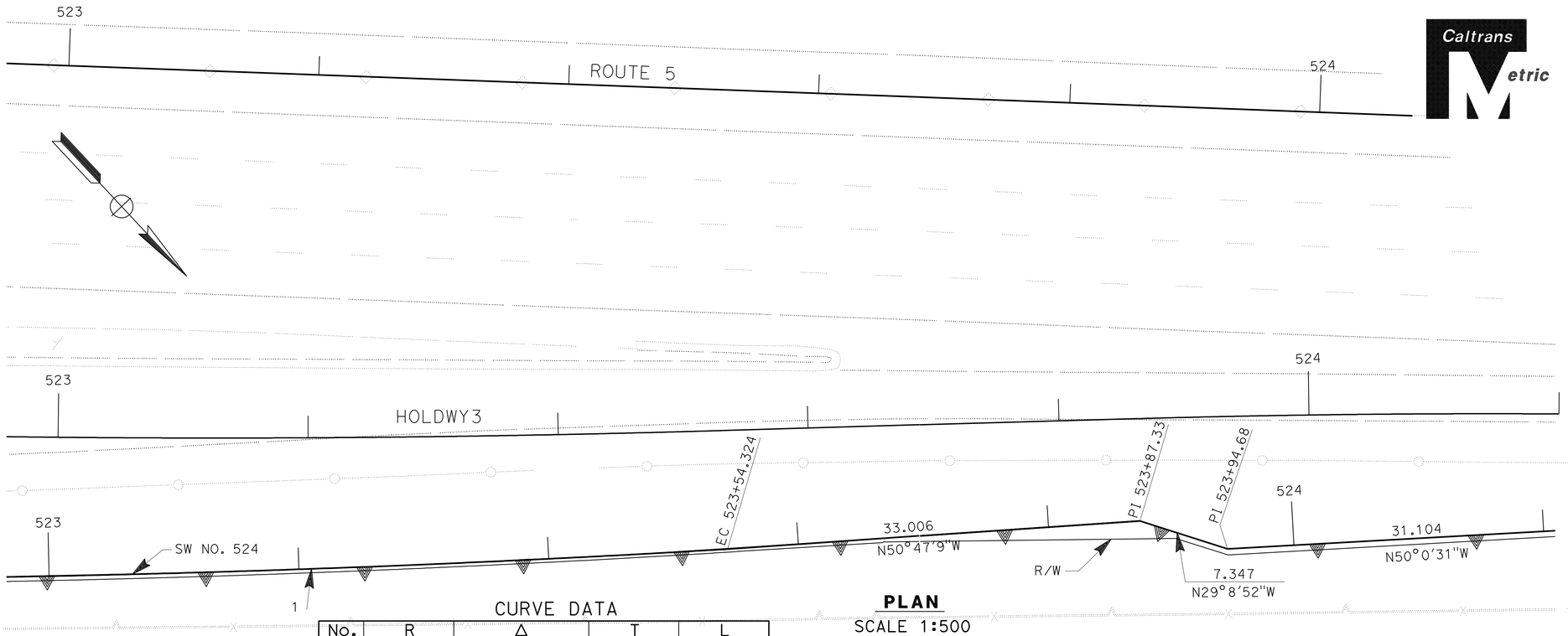
Caltrans Metric



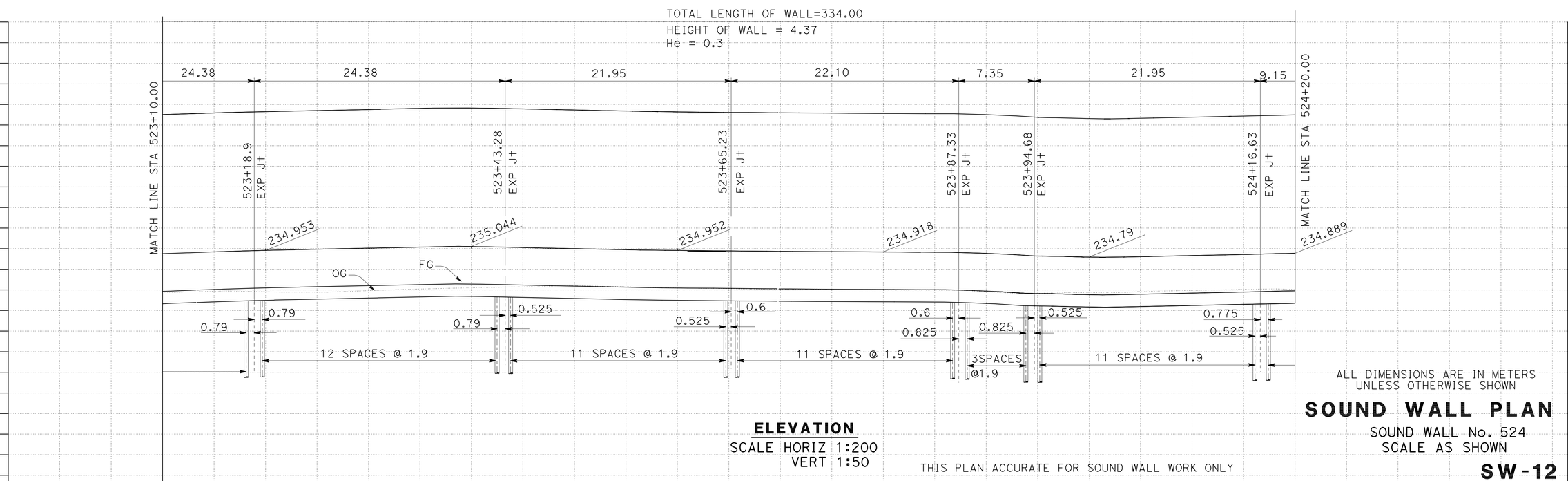
CURVE DATA

No.	R	Δ	T	L
1	1381.18	3°3'51"	36.94	73.86

PLAN
SCALE 1:500

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 524
SCALE AS SHOWN

SW-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR CELINA AVILES
CALCULATED-DESIGNED BY AMIR ELSHARIEF
CHECKED BY SAMIA SOUEIDAN
REVISED BY
DATE REVISED

LAST REVISION 07-20-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	454	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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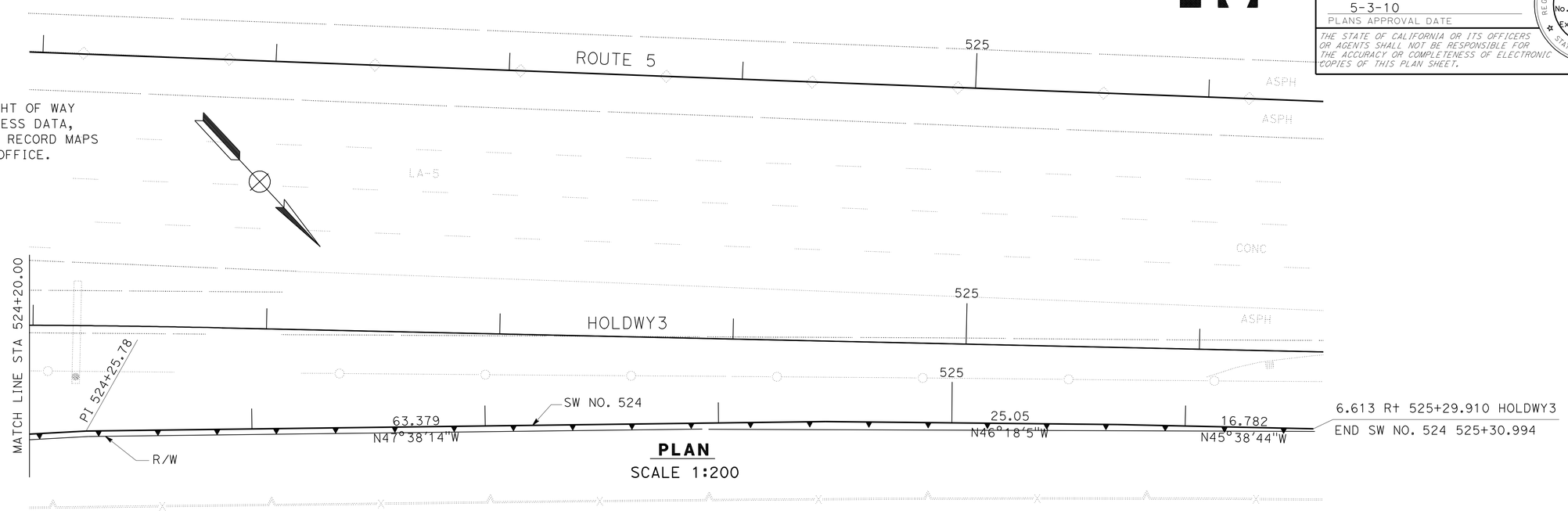
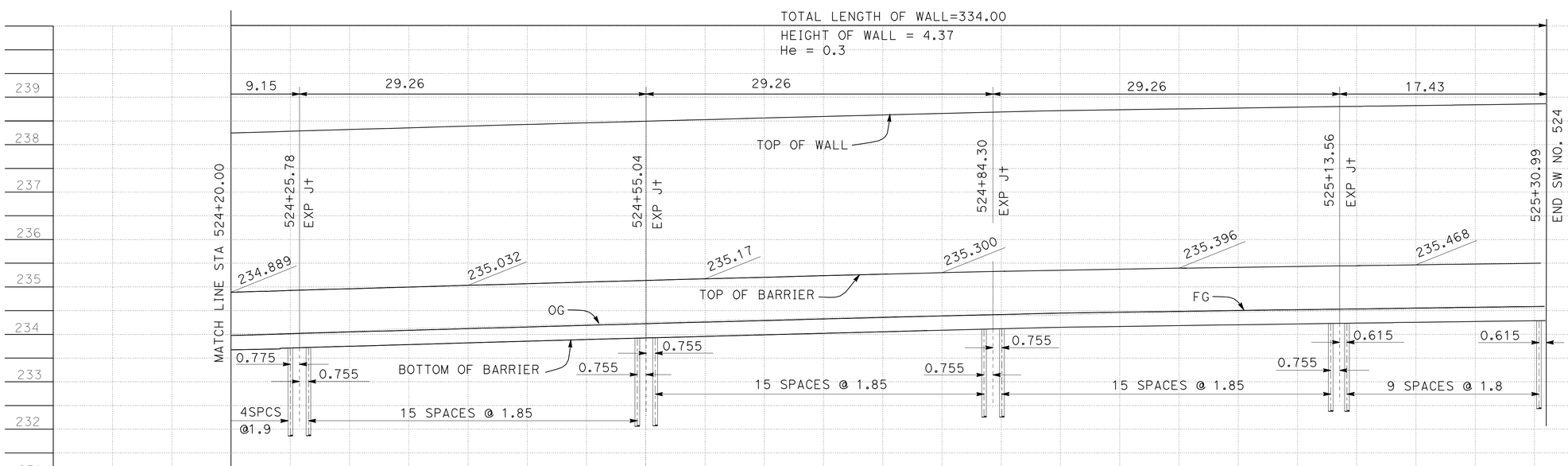
Caltrans Metric

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE DISTRICT OFFICE.



PLAN
SCALE 1:200



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

SOUND WALL PLAN

SOUND WALL No. 524
SCALE AS SHOWN

SW-13

REVISED BY	DATE REVISED
SAMIA SOUEIDAN	
AMIR ELSHARIEF	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
CELINA AVILES	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 07-20-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:48

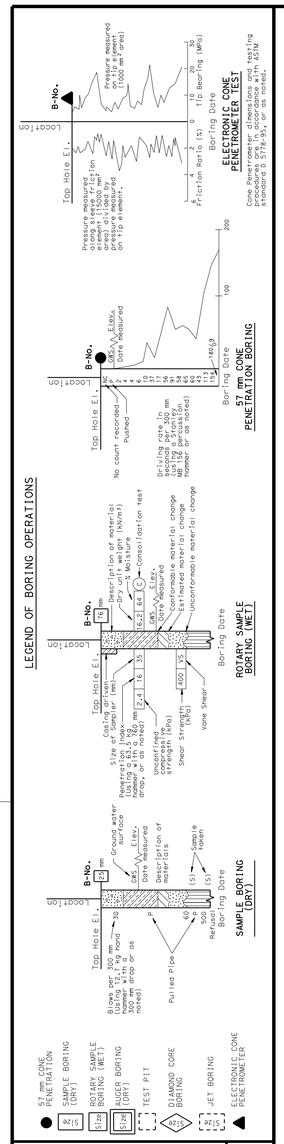
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	455	869

REGISTERED CIVIL ENGINEER 6-4-07

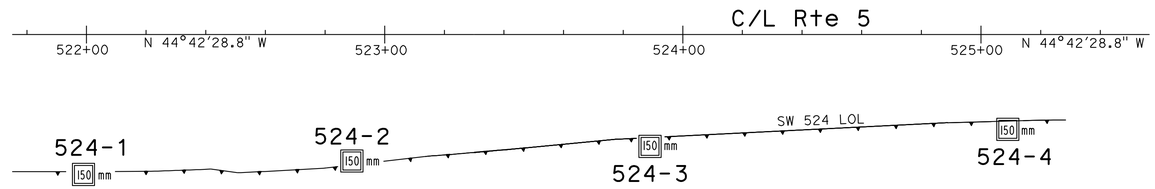
5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)



BENCH MARK

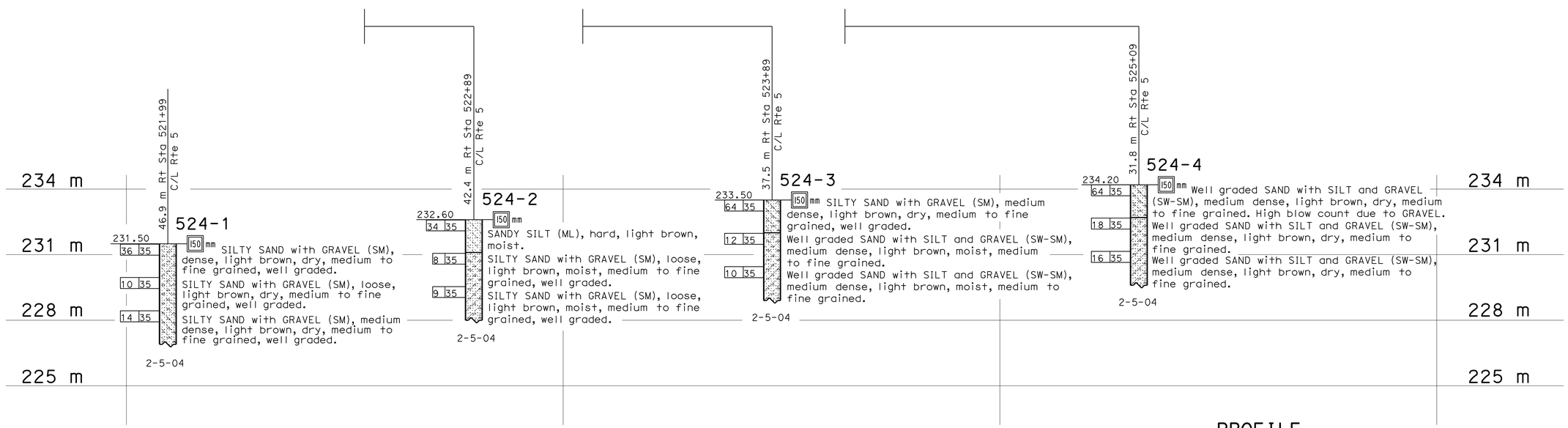
N 578996.73
E 1967898.053
Elev 226.694 m

PLAN

1:1000

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.
4. No ground water encountered during field investigation.



PROFILE

HOR. 1:1000
VER. 1:100

SW-14

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 524
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) ~~1-10-06~~ 1-3-06

SHEET OF

FILE => 71218vre004.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	456	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

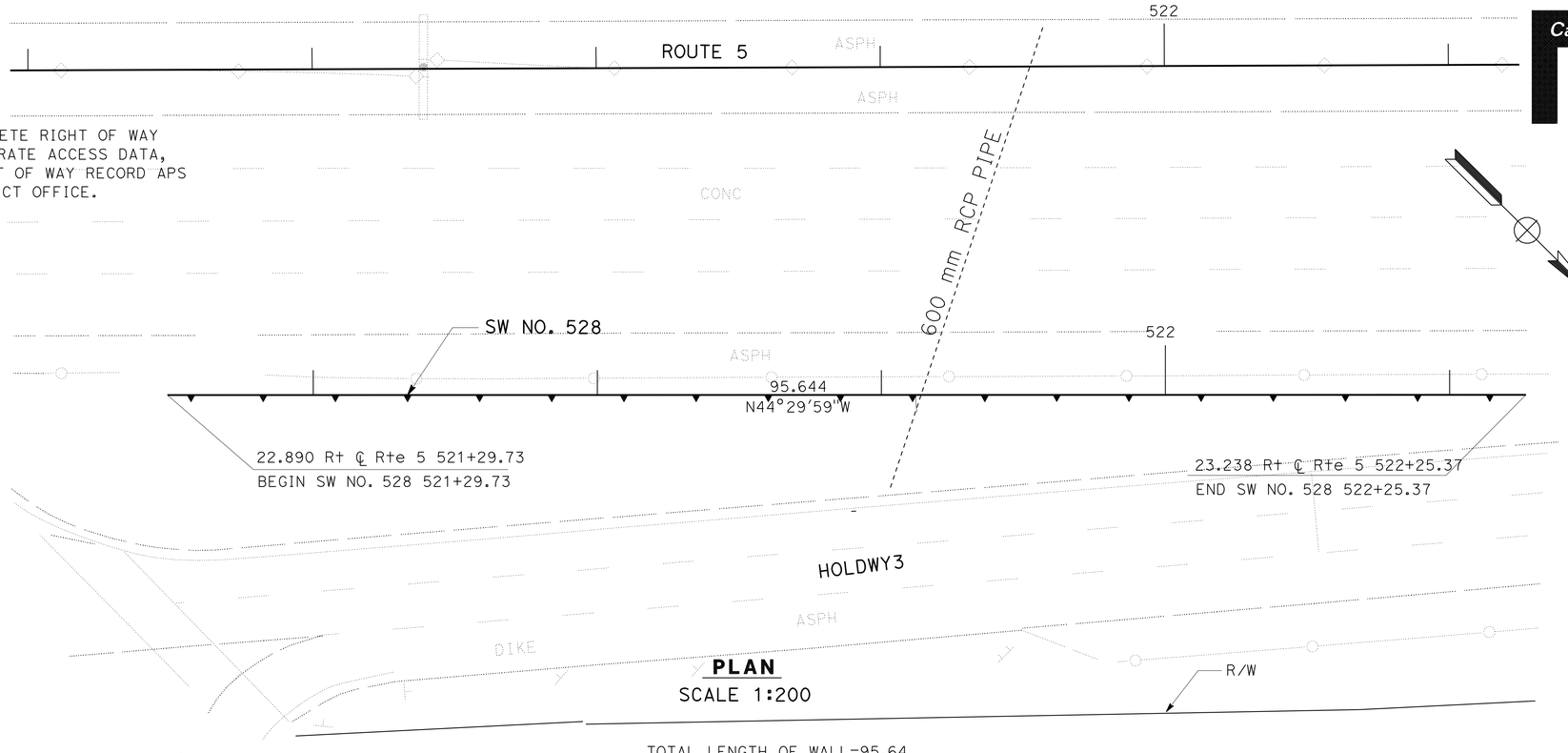
REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

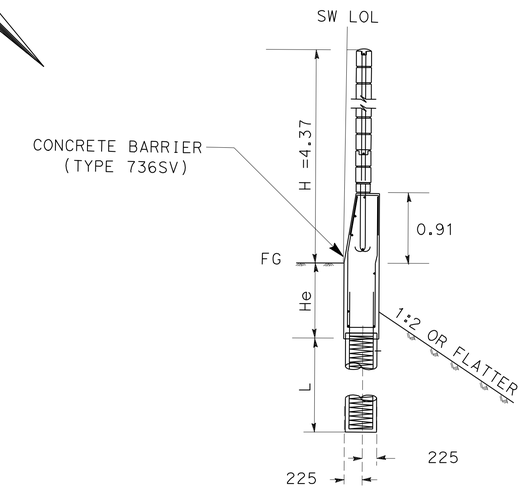
Caltrans Metric

NOTES:

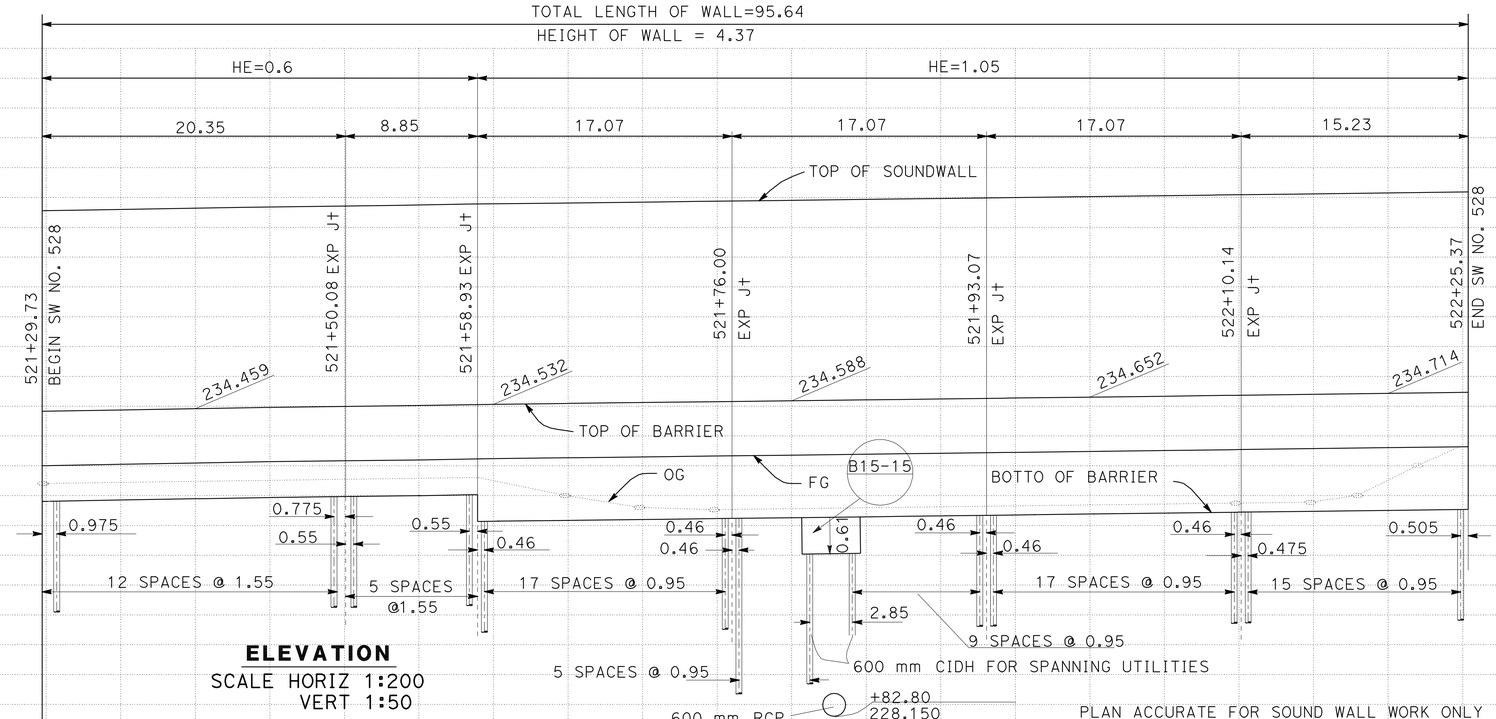
1. FOR COPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD APS AT DISTRICT OFFICE.



PLAN
SCALE 1:200



TYPICAL SECTION



ELEVATION
SCALE HORIZ 1:200
VERT 1:50

ALL DIENSIONS ARE IN ETERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 528
SCALE AS SHOWN

SW-15

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: SAMIA SOUEIDAN
CHECKED BY: AMIR ELSHARIEF
FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

3 Exc Eb

LAST REVISION 07-20-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	457	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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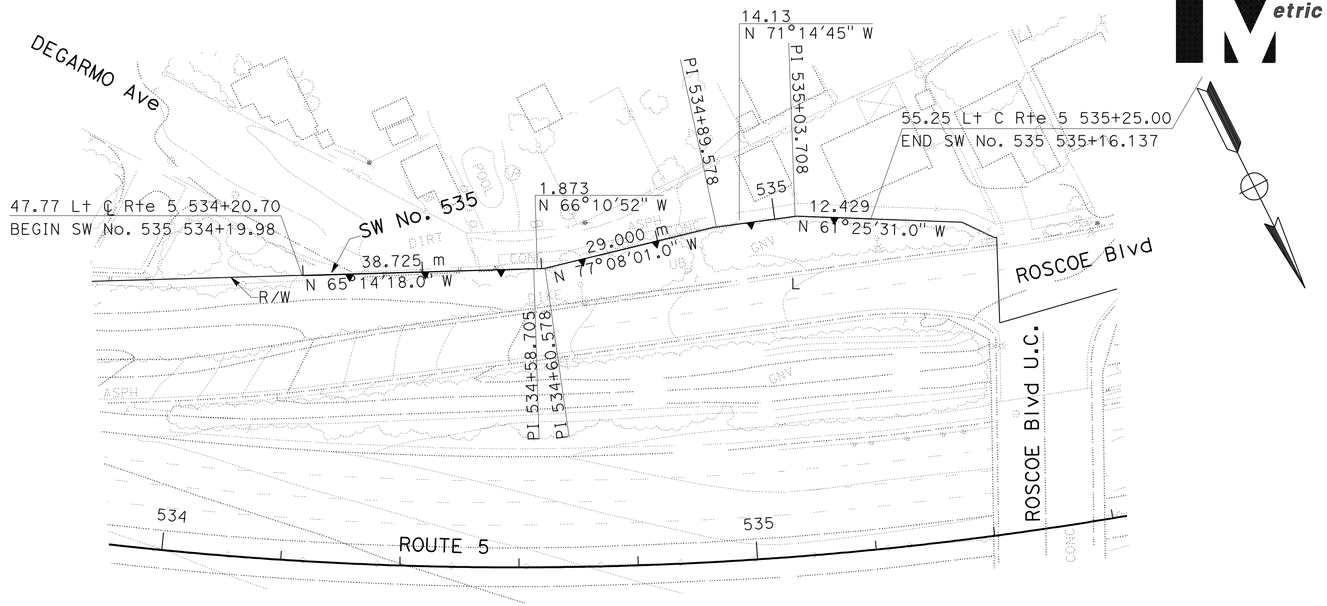
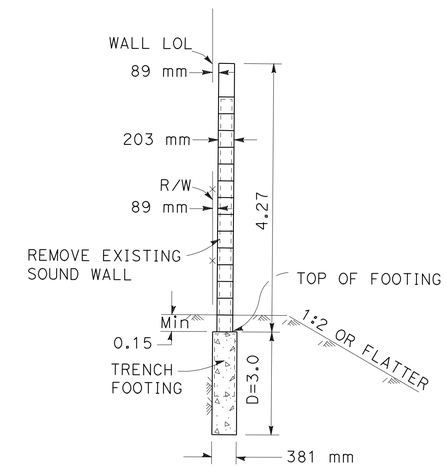
Caltrans Metric

NOTES:

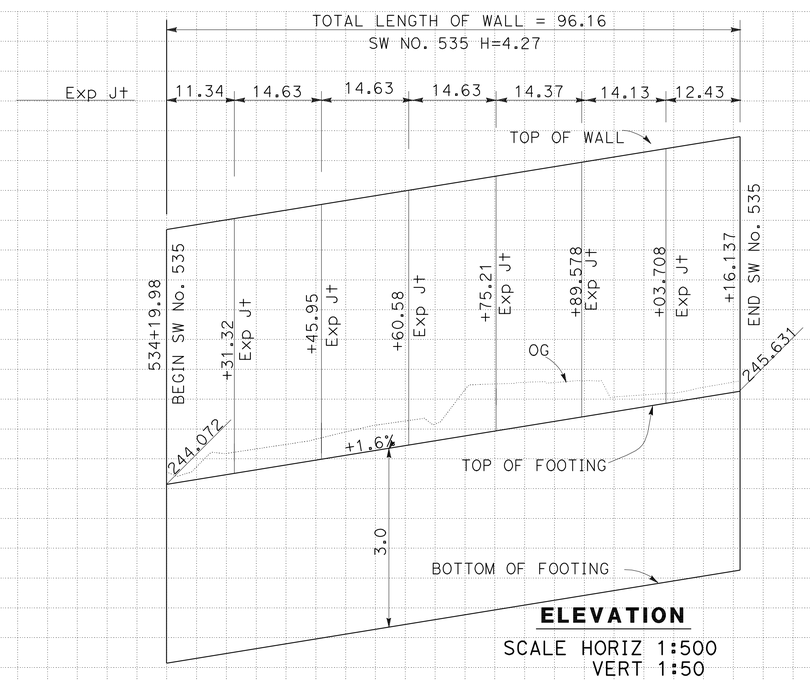
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:500



TYPICAL SECTION
NO SCALE



ELEVATION
SCALE HORIZ 1:500
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 535
SCALE AS SHOWN

SW-16

Station	534+20	+40	+60	+80	535+00	+20	+40	+60
m^3 Exc								
m^3 Emb								

REVISED BY	DATE REVISED
AE	5-28-08

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 05-02-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 13:48

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	458	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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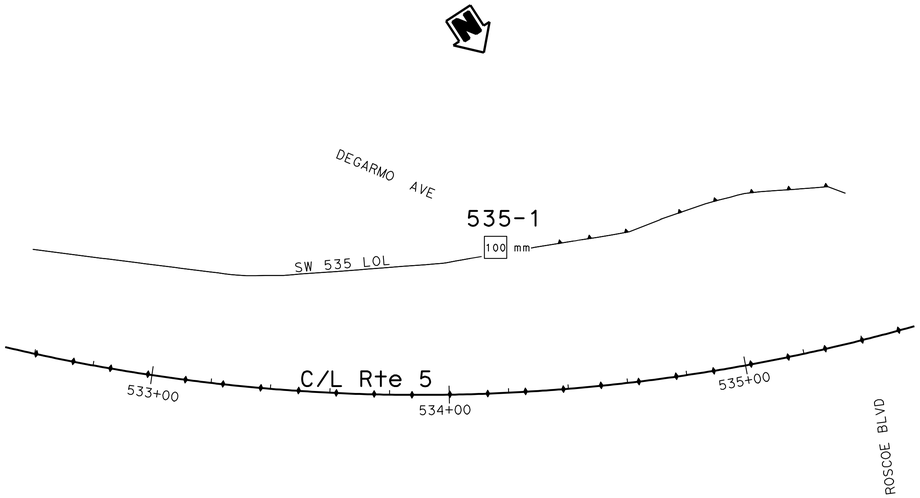
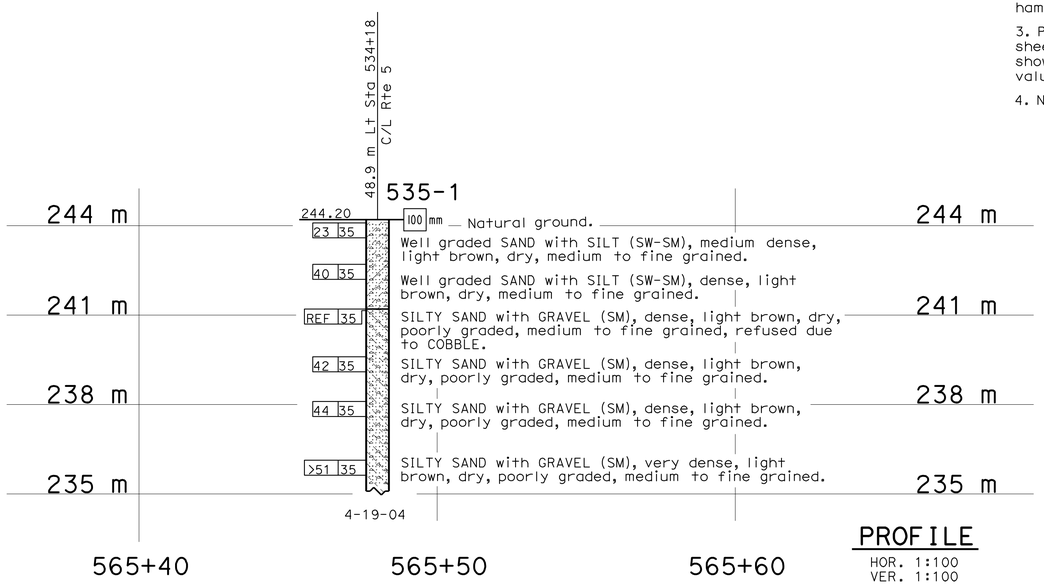


BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

PLAN

1:1000



PROFILE

HOR. 1:100
VER. 1:100

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

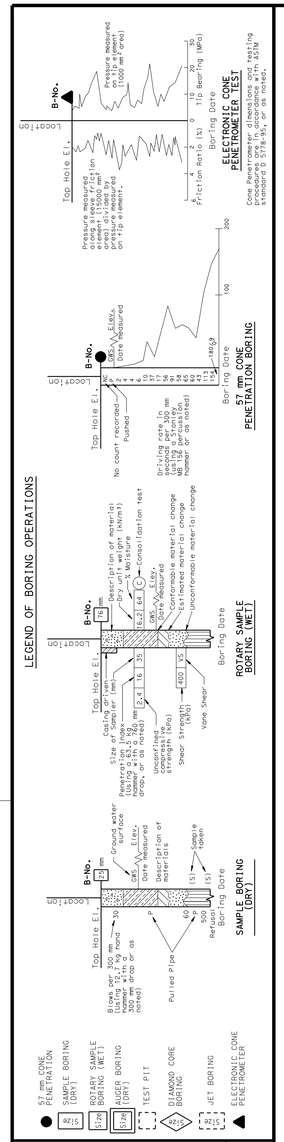
2. Test borings utilized a Mobil B-47 Safety Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.17 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

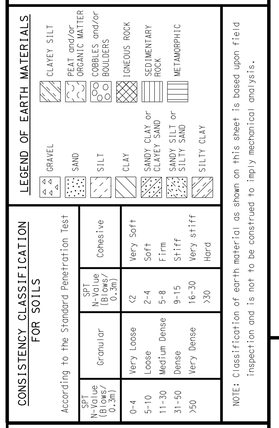
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.

PROFILE
HOR. 1:100
VER. 1:100

SW-17





CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/0.3m)	Granular	SPT N-Value (Blows/0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 535
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-9-06 5-28-06 SHEET OF

FILE => 71218vrg002.dgn

USERNAME => trmnguye DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:48

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	459	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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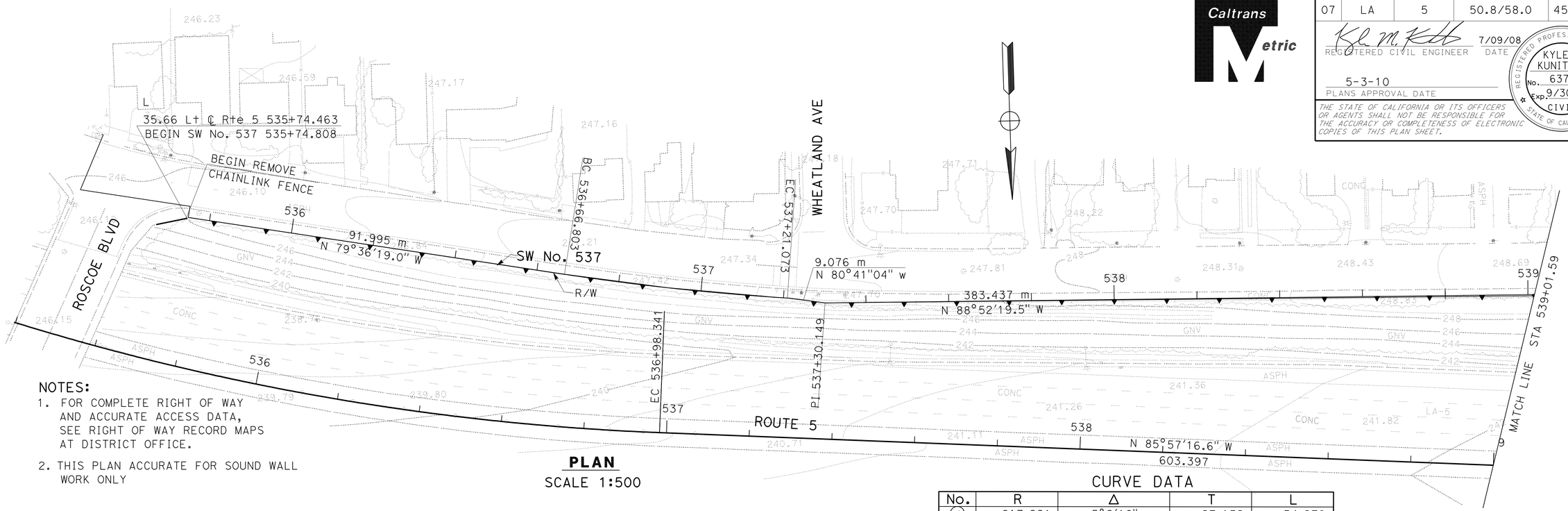
Caltrans Metric



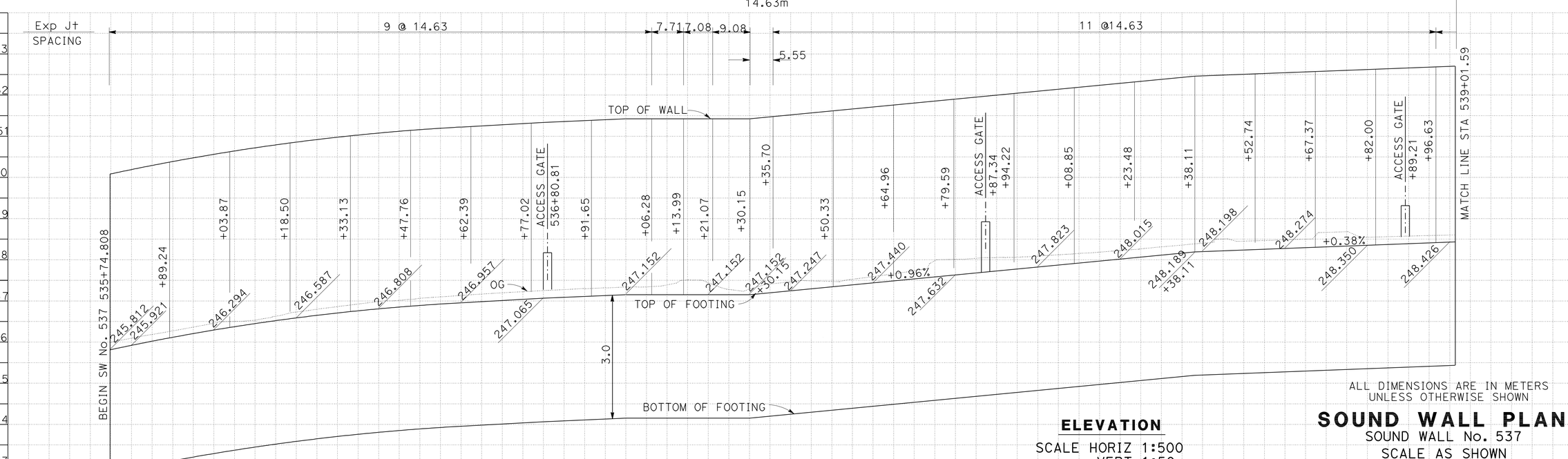
NOTES:
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY

PLAN
SCALE 1:500

CURVE DATA

No.	R	Δ	T	L
1	617.221	5°2'16"	27.152	54.270

TOTAL LENGTH OF WALL = 538.78
SW NO. 537 H=4.27m
14.63m



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ELEVATION
SCALE HORIZ 1:500
VERT 1:50

SOUND WALL PLAN
SOUND WALL No. 537
SCALE AS SHOWN
SW-18

Station	535+80	536+00	+20	+40	+60	+80	537+00	+20	+40	+60	+80	538+00	+20	+40	+60	+80	539+00
m^3 Exc																	
m^3 Emb																	

FUNCTIONAL SUPERVISOR: CELINA AVILES

CALCULATED-DESIGNED BY | CHECKED BY

REVISED BY: AE | DATE REVISED: 5-28-08

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 07-18-07 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 13:49

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	460	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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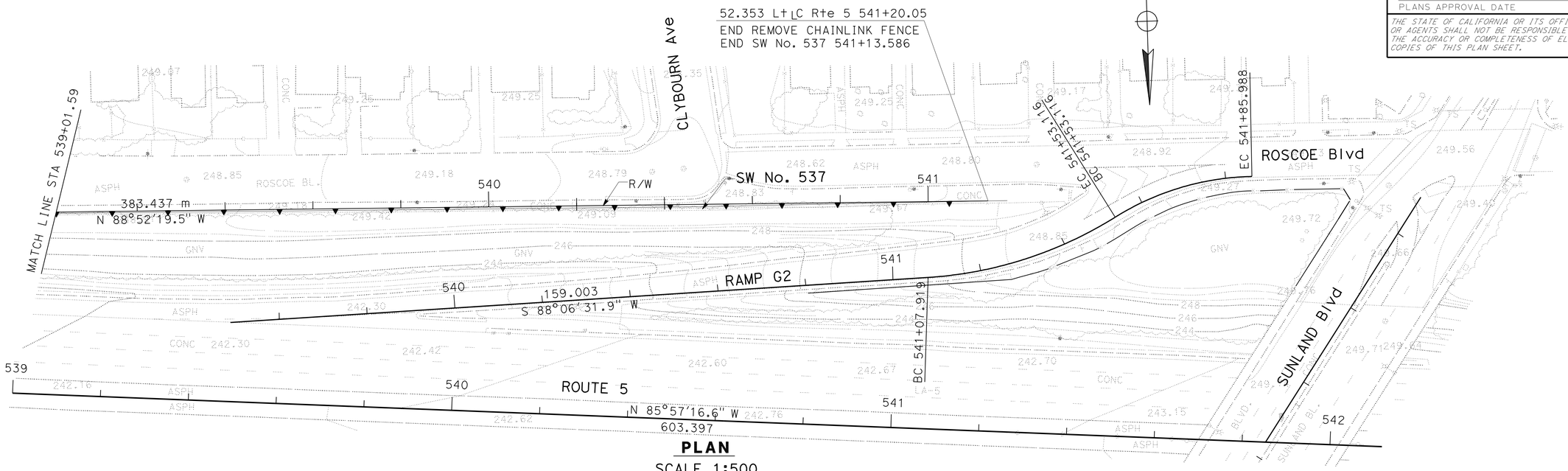
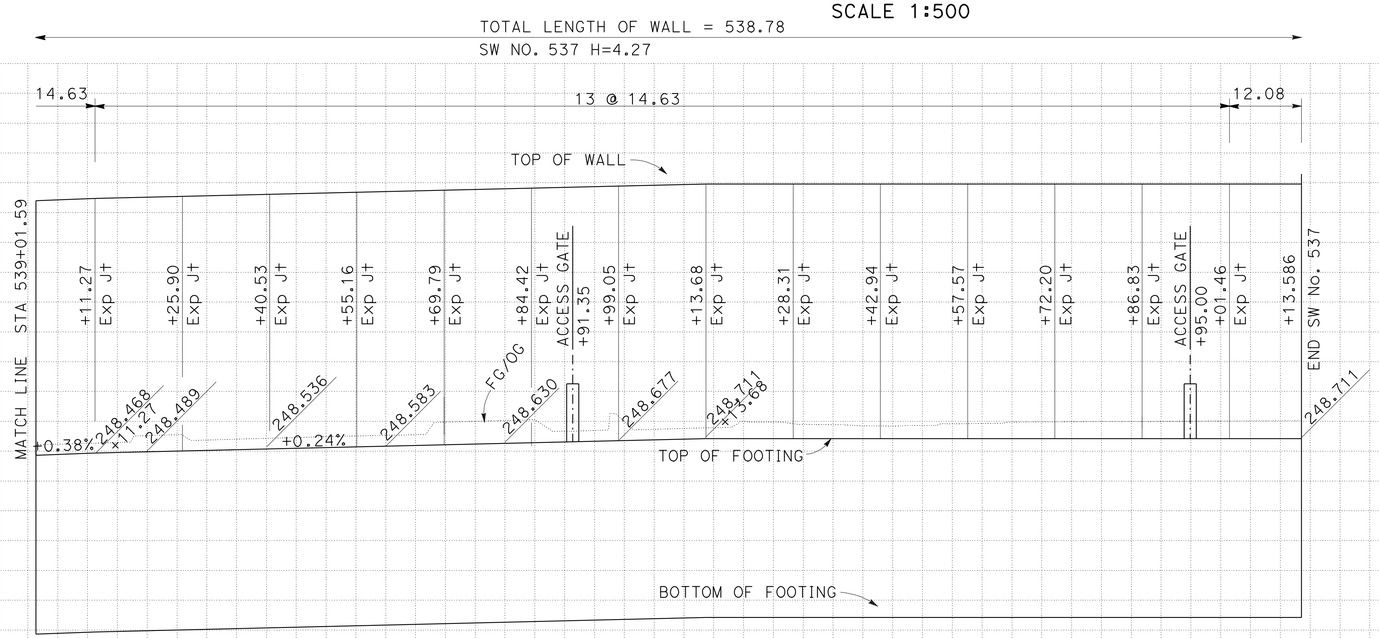
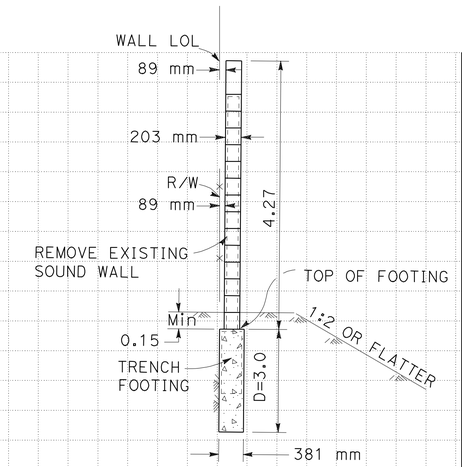


PLAN
SCALE 1:500



ELEVATION
SCALE Horiz 1:500
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.



TYPICAL SECTION
NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 537
SCALE AS SHOWN

SW-19

Station	539+00	+20	+40	+60	+80	540+00	+20	+40	+60	+80	541+00
m^3 Exc											
m^3 Emb											

REVISED BY AE DATE REVISED 5-28-08

CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 13:49
07-18-07

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	461	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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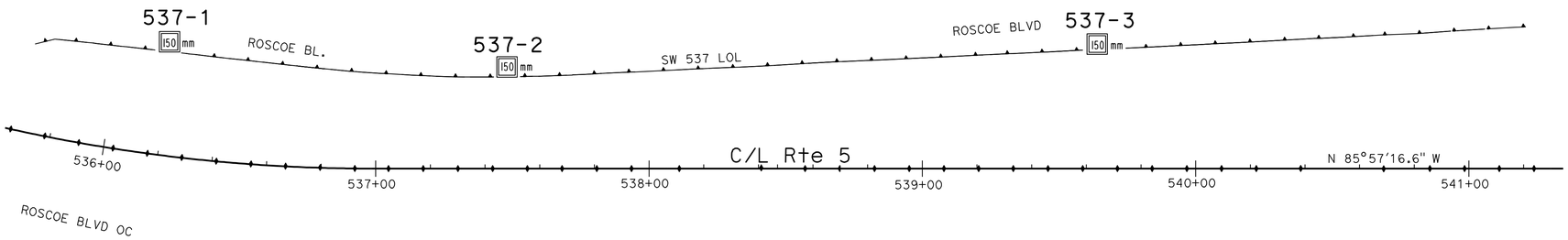


PLAN
1:1000

BENCH MARK

N 578996.73
E 1967898.053
Elev 226.694 m

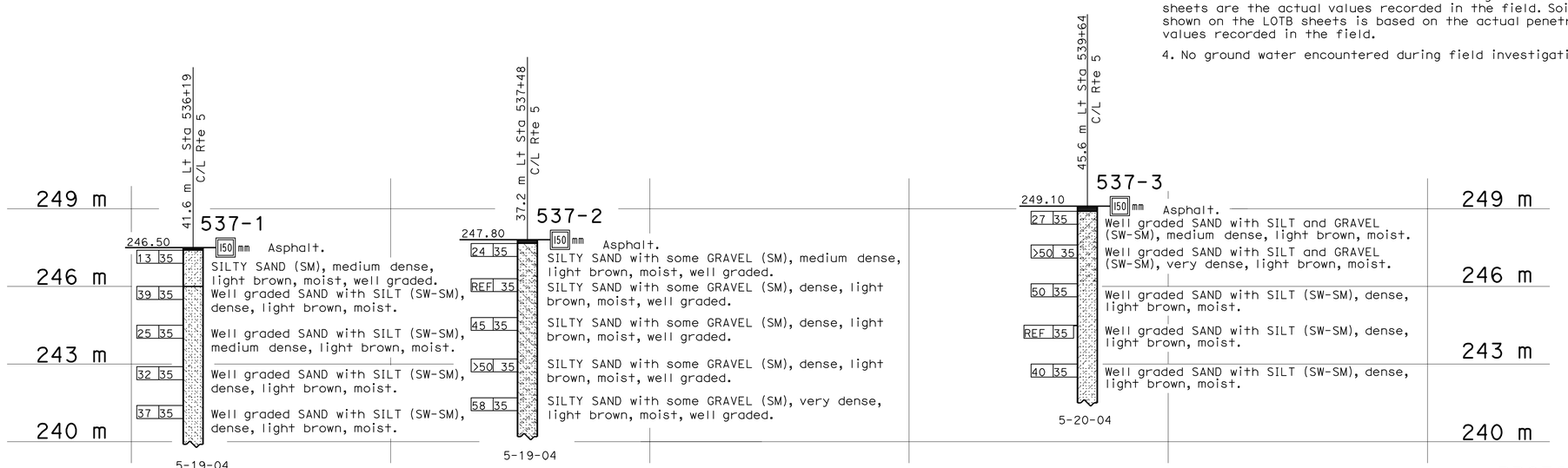
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

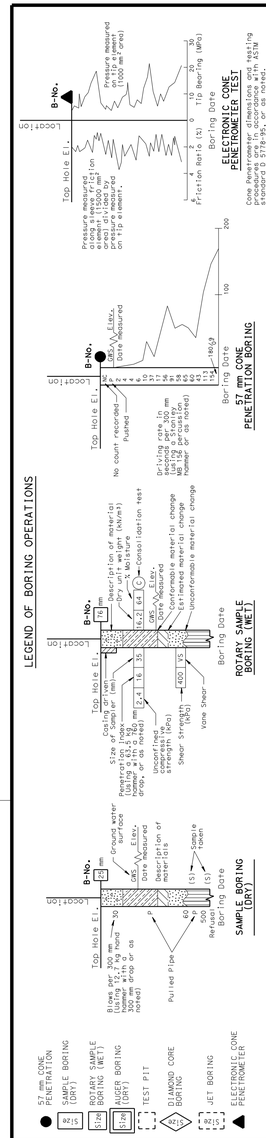
3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

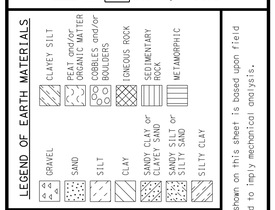
4. No ground water encountered during field investigation.



PROFILE
HOR. 1:1000
VER. 1:100

SW-20





NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test			
SPT N-Value (Blows/0.3m)	Granular	SPT N-Value (Blows/0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 537
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES 7-3-06

REVISION DATES (PRELIMINARY STAGE ONLY) | SHEET | OF

FILE => 71218vrh003.dgn

USERNAME => rrcarol DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:17

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	462	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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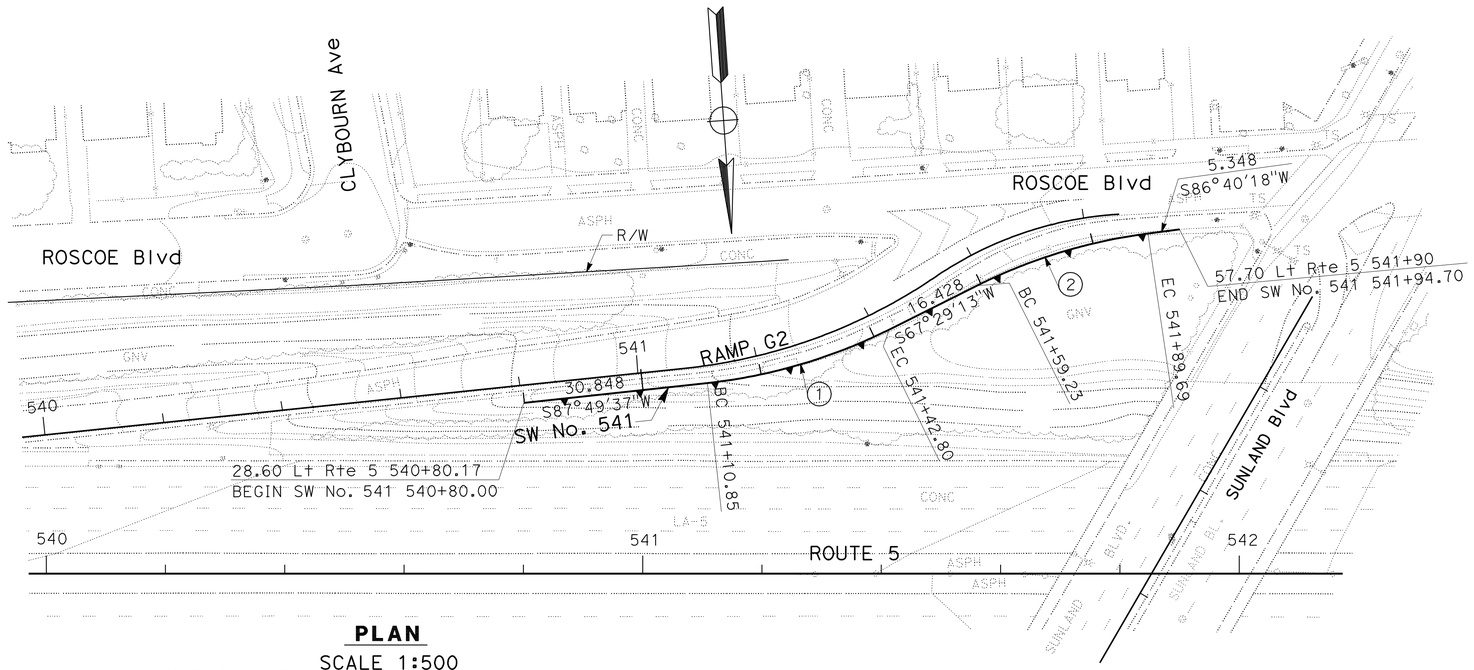
Caltrans Metric

NOTES:

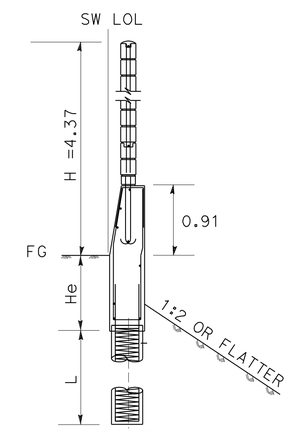
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



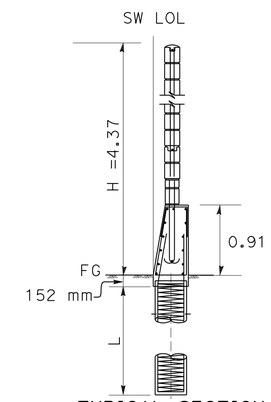
PLAN
SCALE 1:500

CURVE DATA

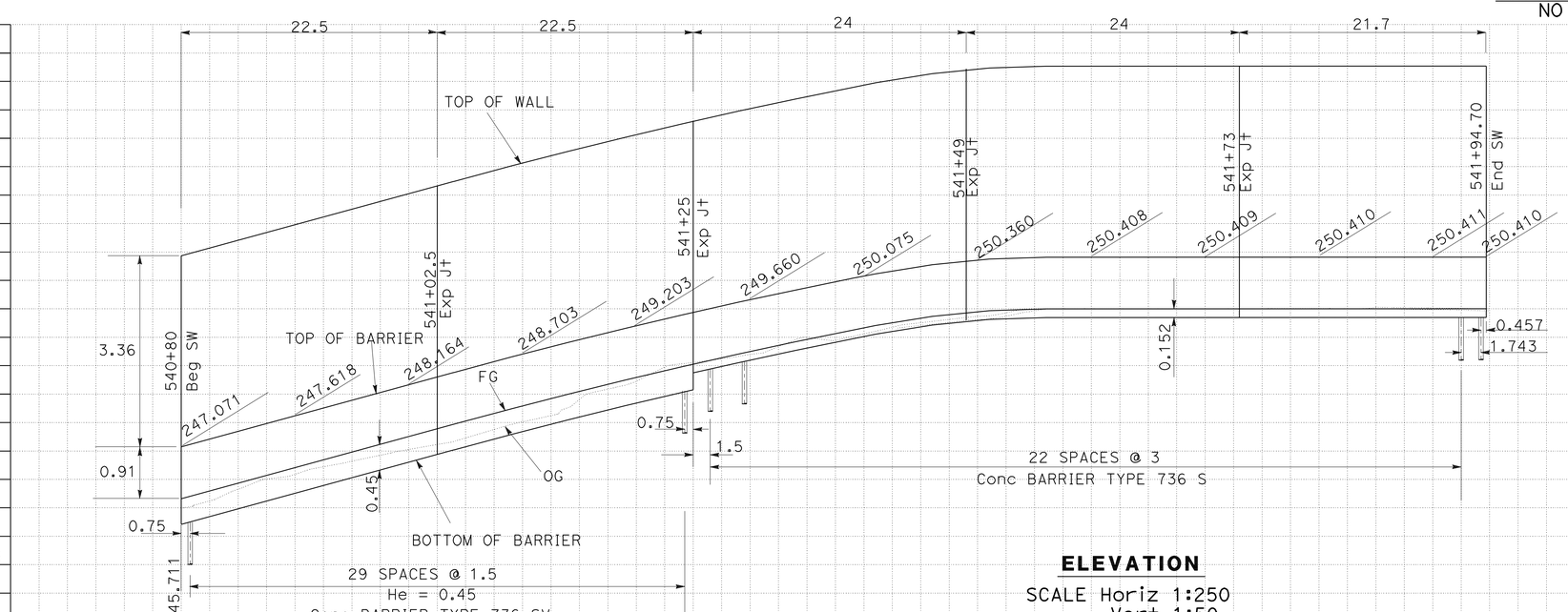
No.	R	Δ	T	L
1	89.98	20°20'42"	16.15	31.95
2	90.00	19°10'35"	15.20	30.12



TYPICAL SECTION
Conc BARRIER TYPE 736 SV
STA 540+80 - 541+25
NO SCALE



TYPICAL SECTION
Conc BARRIER TYPE 736 S
STA 541+25 - 541+94.7
NO SCALE



ELEVATION
SCALE Horiz 1:250
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 541
SCALE AS SHOWN

PLAN ACCURATE FOR SOUND WALL WORK ONLY.

SW-21

Station: 540+80, 541+00, +20, +40, +60, +80, 542+00
Exc
Emb

REVISED BY | DATE REVISED
AMIR ELSHARIEF | KYLE KUNITAKE
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CELINA AVILES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 07-18-07 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:17

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	463	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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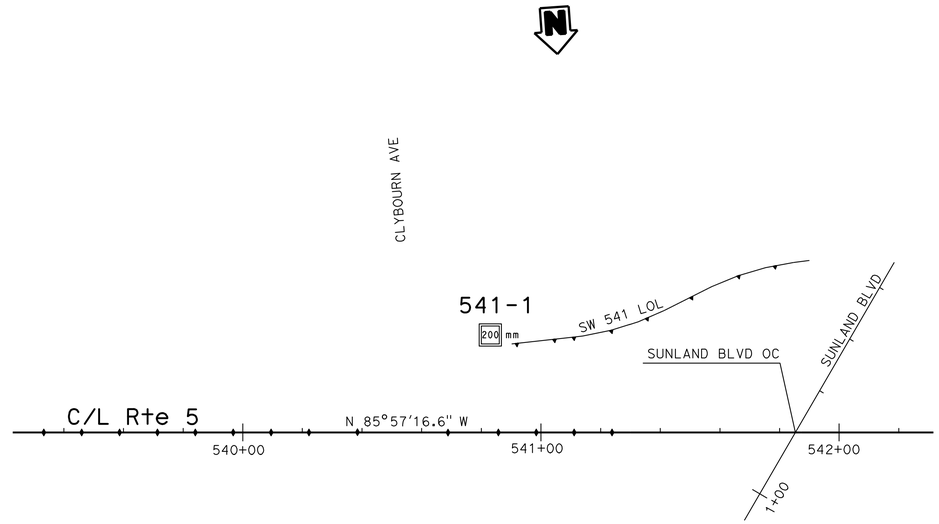
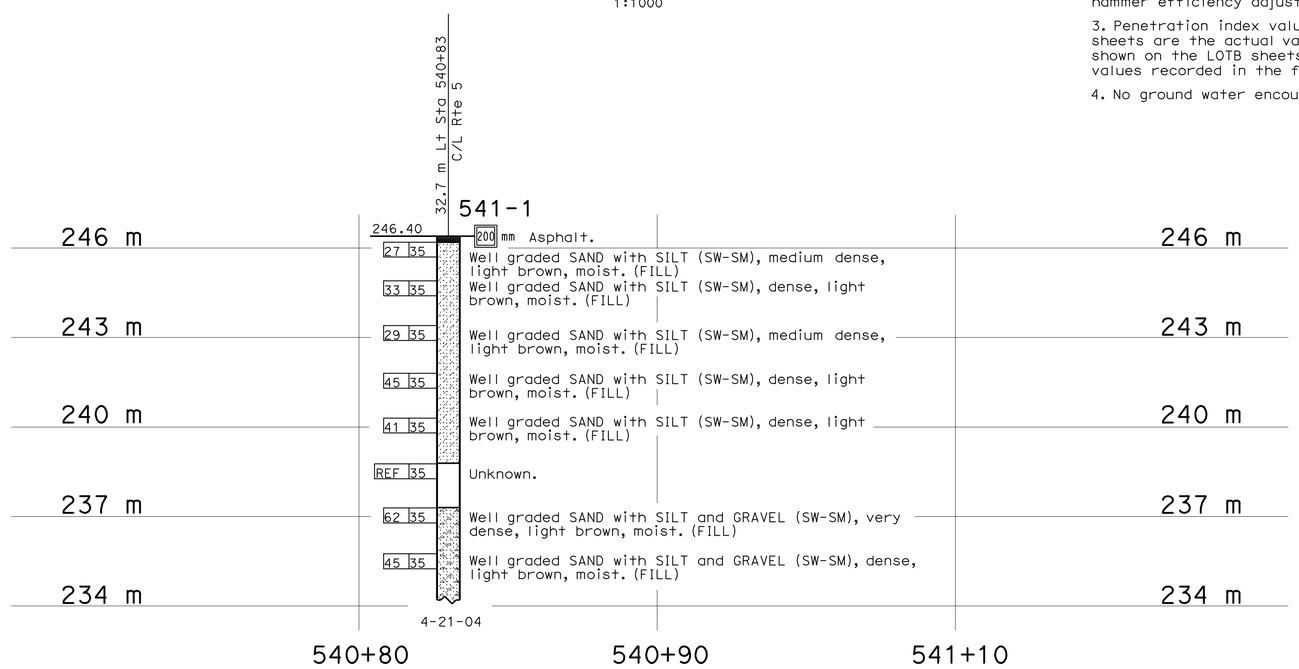


PLAN
1:1000

BENCH MARK
N 579116.34
E 1967887.149
Elev 229.223 m



PROFILE
HOR. 1:100
VER. 1:100

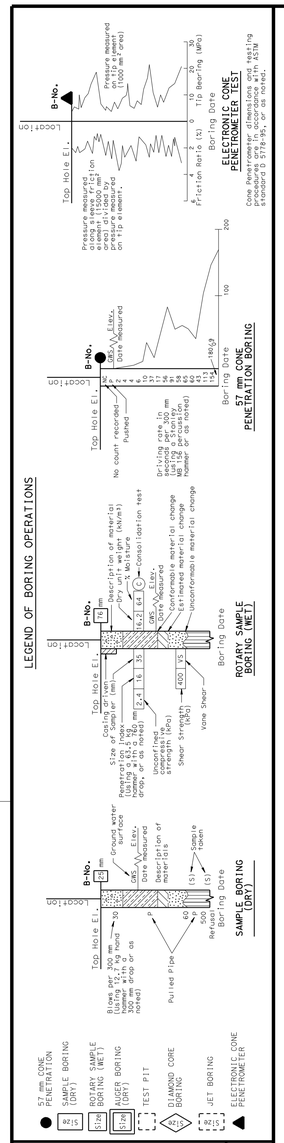
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a Mobil B-47 Safety Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.17 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

4. No ground water encountered during field investigation.



LEGEND OF EARTH MATERIALS: GRAVEL, SAND, SILT, CLAY, SANDY CLAY or CLAYEY SAND, SANDY SILT or SILTY SAND, SILTY CLAY, CLAYEY SILT, PEAT and/or ORGANIC MATTER, COBBLES and/or BOULDERS, IGNEOUS ROCK, SEDIMENTARY ROCK, METAMORPHIC

CONSISTENCY CLASSIFICATION FOR SOILS
According to the Standard Penetration Test

Granular: SPT N-Value (Blows/0.3m)	Granular	Cohesive: SPT N-Value (Blows/0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 541
LOG OF TEST BORINGS

SW-22

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 7-06 6-28-06

SHEET OF

FILE => 71218vri002.dgn

USERNAME => trcarol DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:17

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	464	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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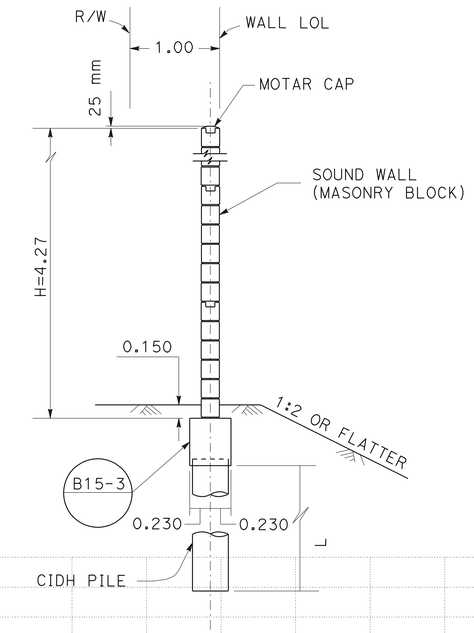
Caltrans Metric

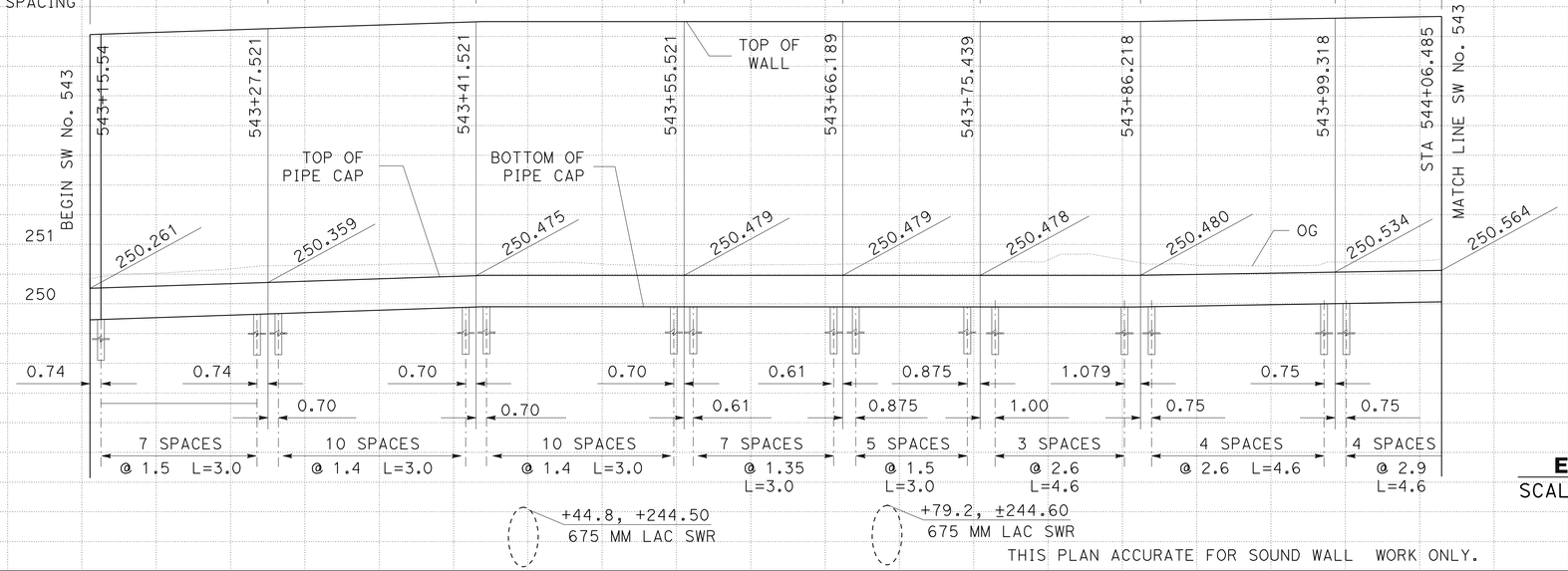
PLAN
SCALE 1:200



TYPICAL SECTION
NO SCALE

TOTAL LENGTH OF WALL = 159.269
HEIGHT OF WALL = 4.27

Exp Jt SPACING: 11.981 | 14.000 | 14.000 | 10.668 | 9.25 | 10.779 | 13.100 | 13.100



ELEVATION
SCALE Horiz 1:200
Vert 1:50

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 543
SCALE AS SHOWN

SW-23

REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	CUONG T. TRAN
CHECKED BY	AMIR ELSHARIEF
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

LAST REVISION 00-00-00 DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:18

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	465	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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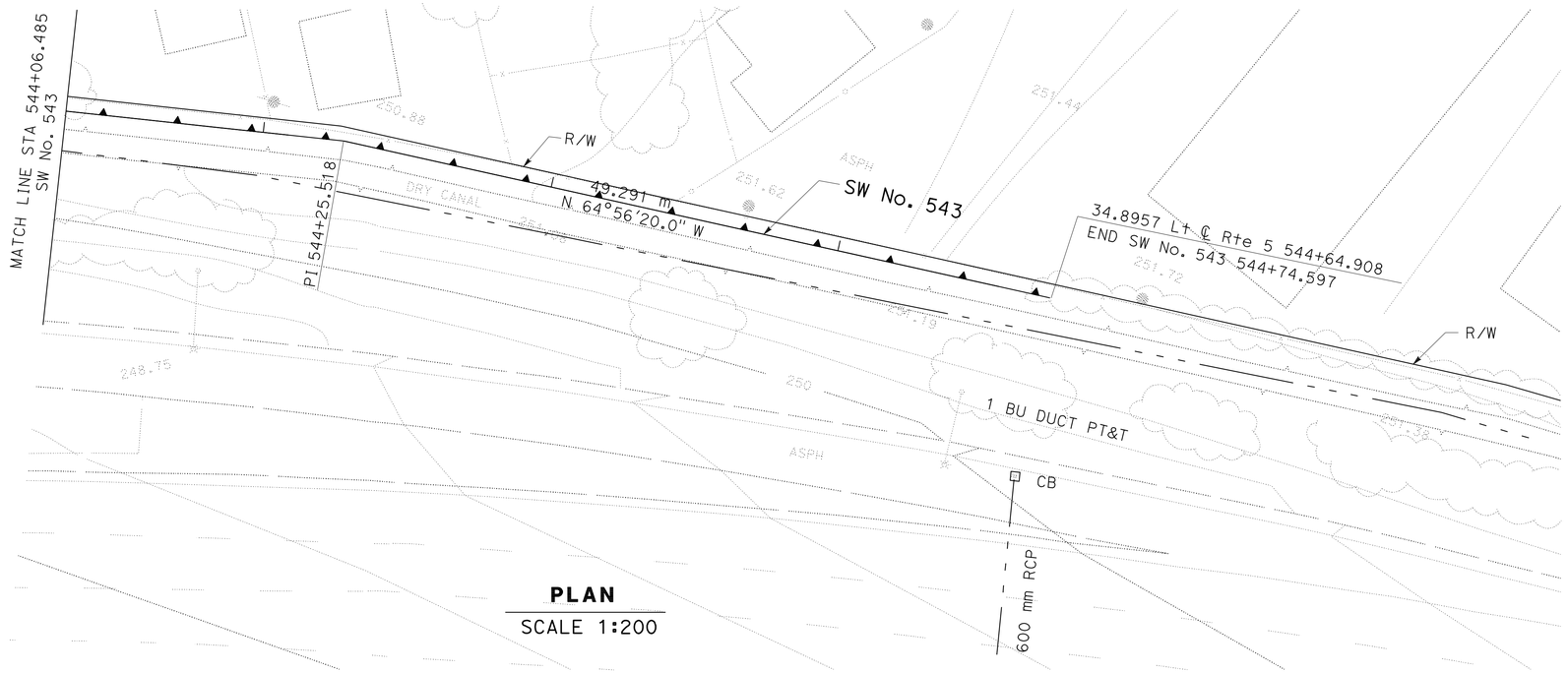
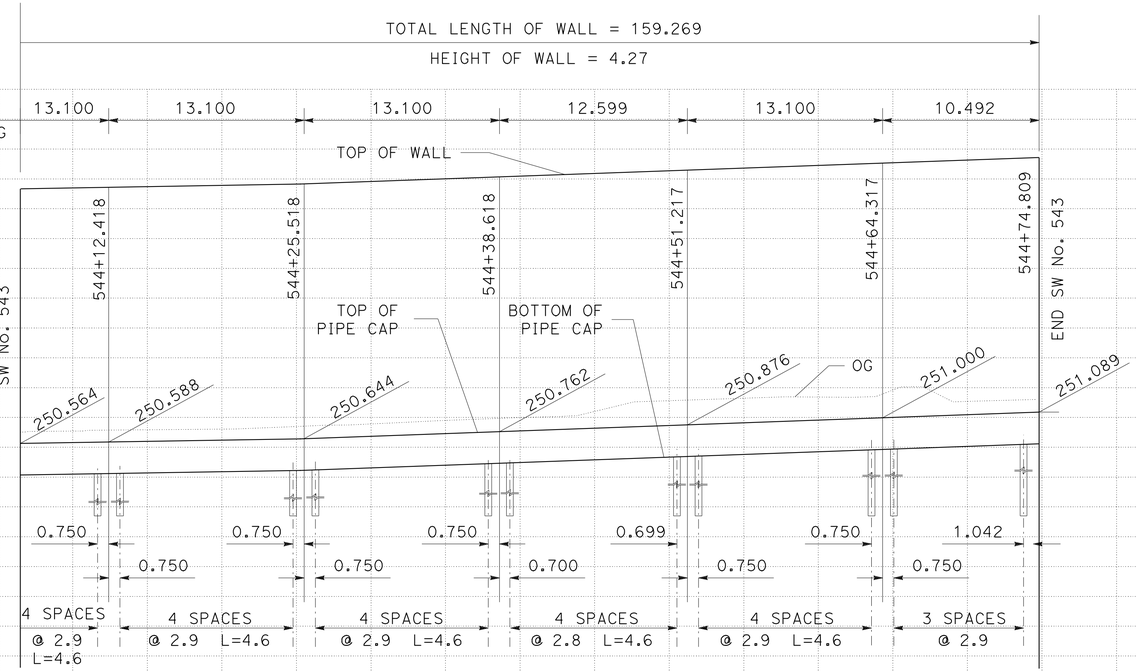
Caltrans Metric



PLAN
SCALE 1:200



ELEVATION
SCALE Horiz 1:200
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 543
SCALE AS SHOWN

SW-24

Station	544+00	544+20	544+40	544+60	544+80
m^3 Exc					
m^3 Emb					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: COUNG T. TRAN
CHECKED BY: AMIR ELSHARIEF
REVISED BY / DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:18

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	466	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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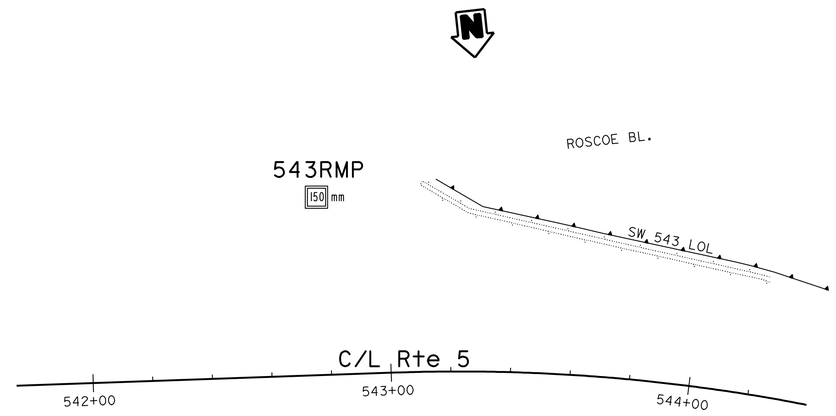

PLAN
1:1000

BENCH MARK
N 579116.34
E 1967887.149
Elev 229.223 m

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
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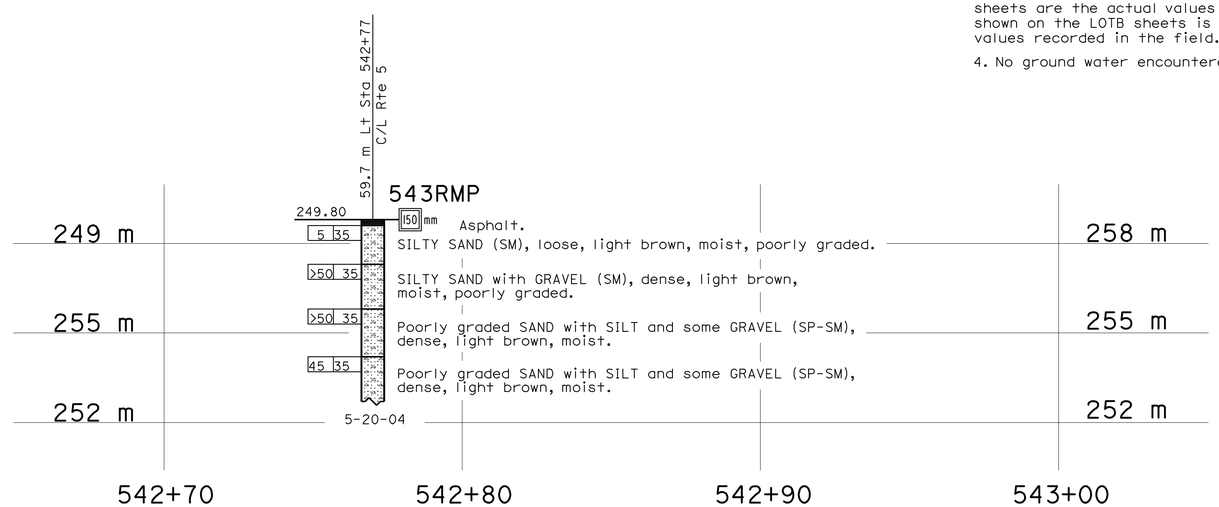
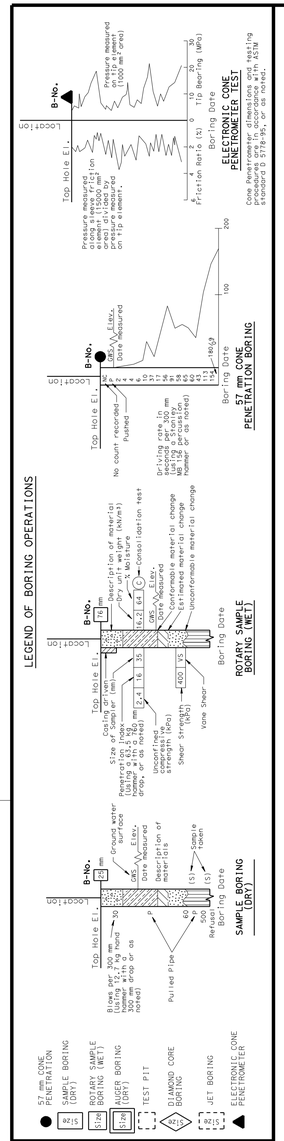
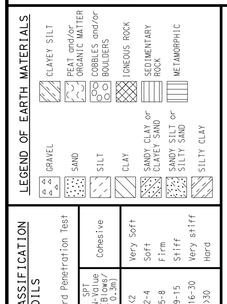
4. No ground water encountered during field investigation.



PROFILE
HOR. 1:100
VER. 1:100

SW-25





CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/0.3m)	Granular	SPT N-Value (Blows/0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 543
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-9-06 1-3-06 SHEET OF

FILE => 71218vrj003.dgn

USERNAME => rrcarol DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:18

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	467	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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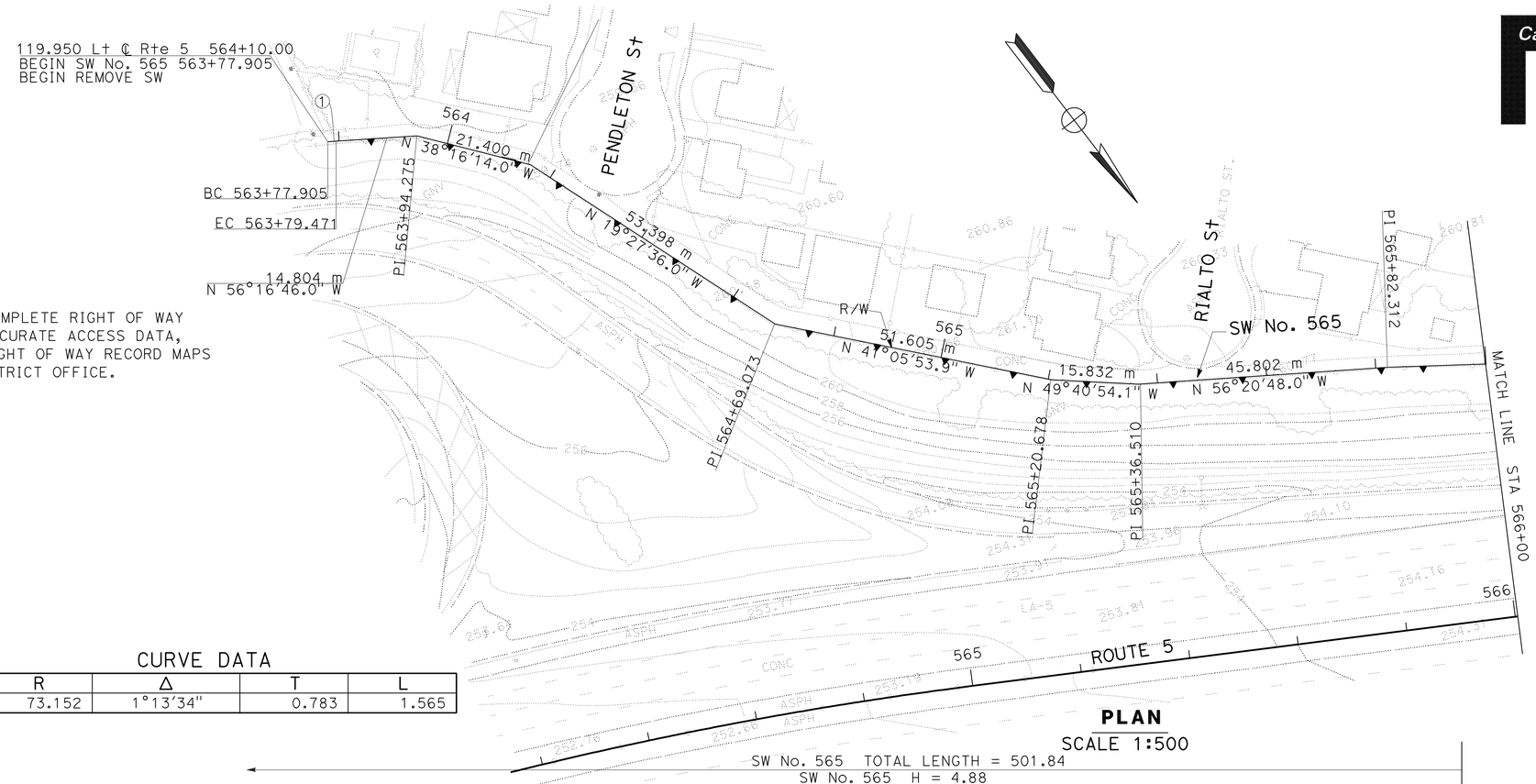
Caltrans Metric



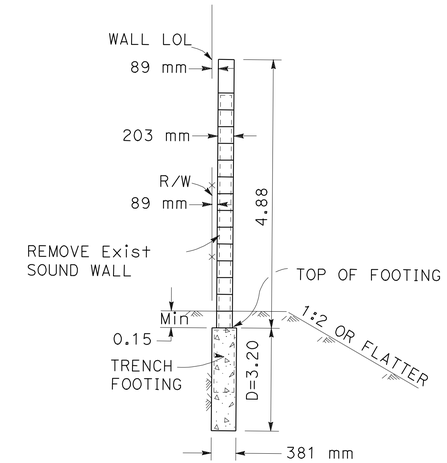
NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

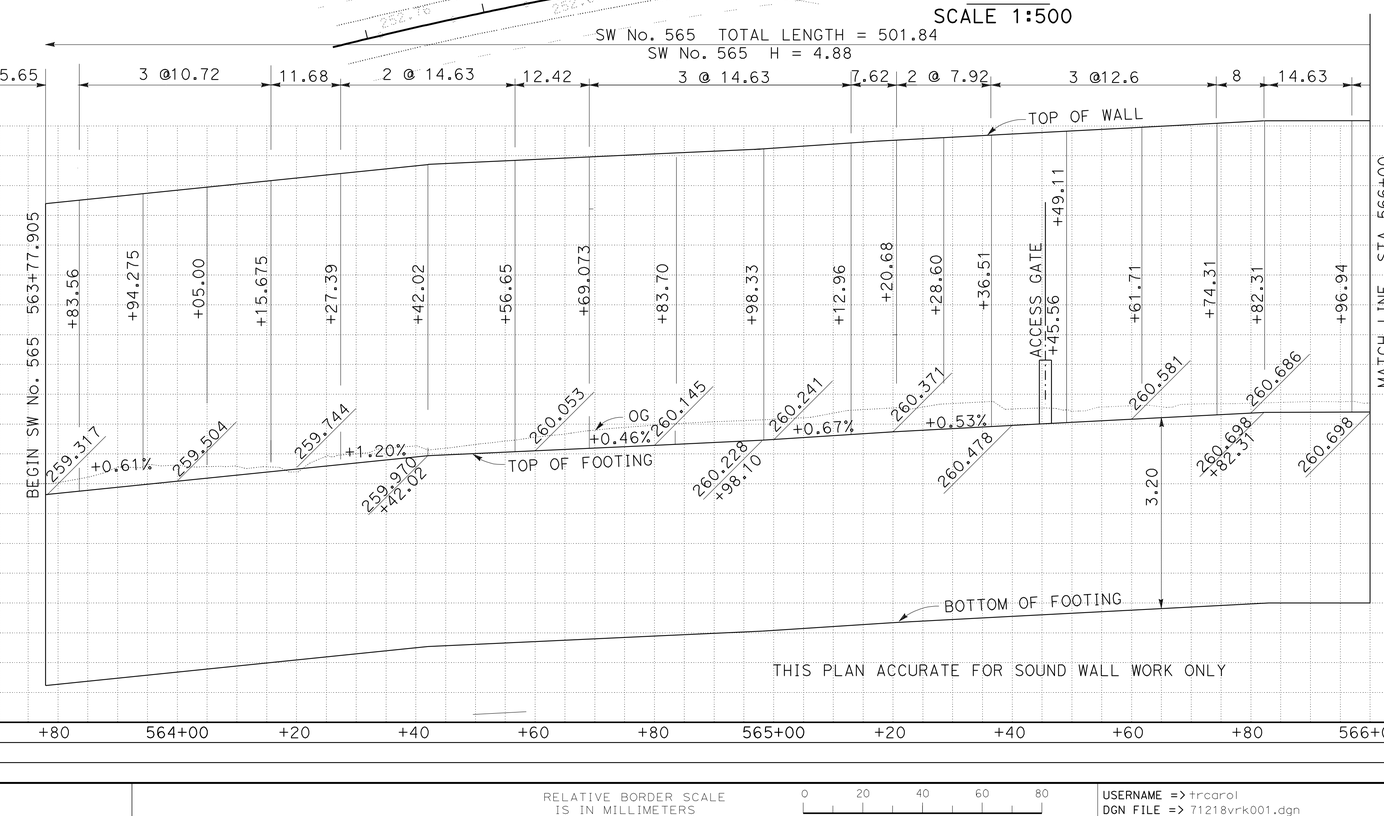
CURVE DATA

No.	R	Δ	T	L
1	73.152	1°13'34"	0.783	1.565

PLAN
SCALE 1:500



TYPICAL SECTION
NO SCALE



ELEVATION
SCALE HORIZ 1:500
VERT 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 565
SCALE AS SHOWN

SW-26

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR CELINA AVILES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 07-20-07 DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:18

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	468	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Caltrans Metric

NOTES:

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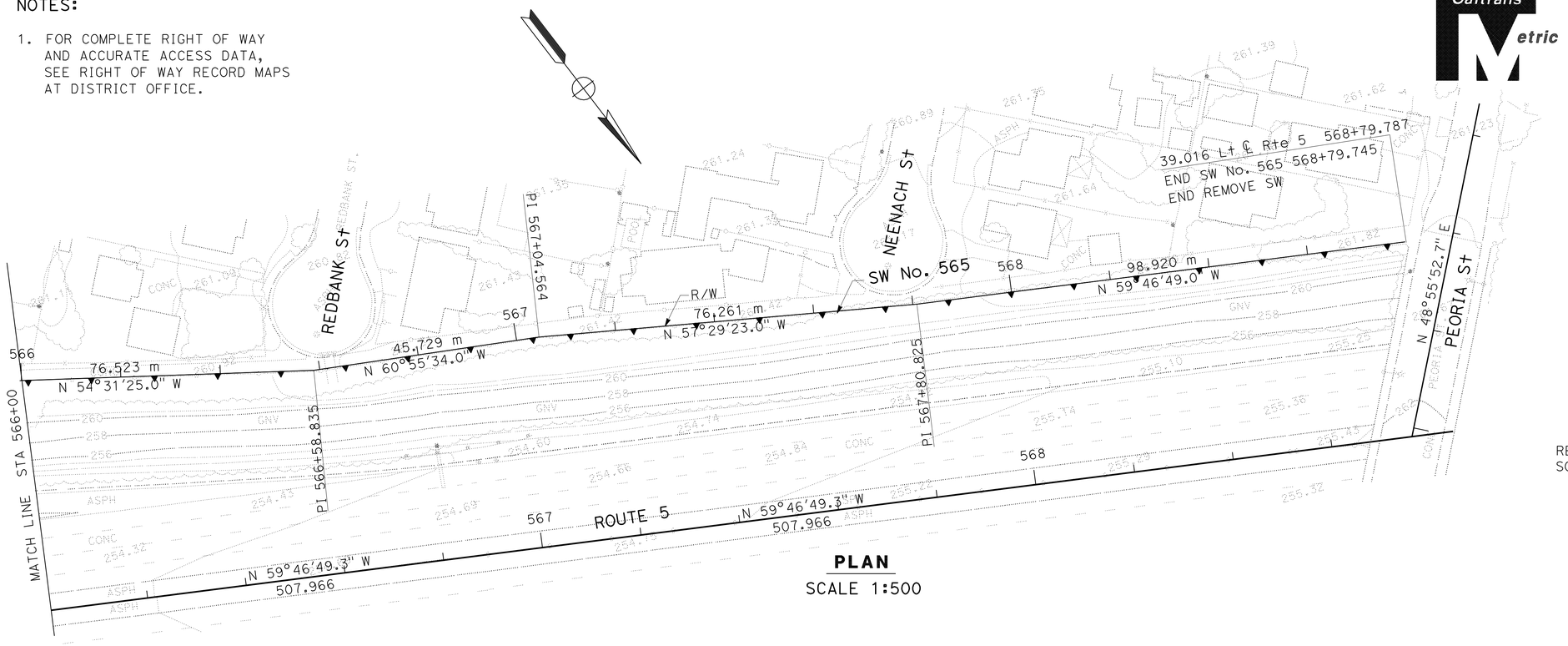
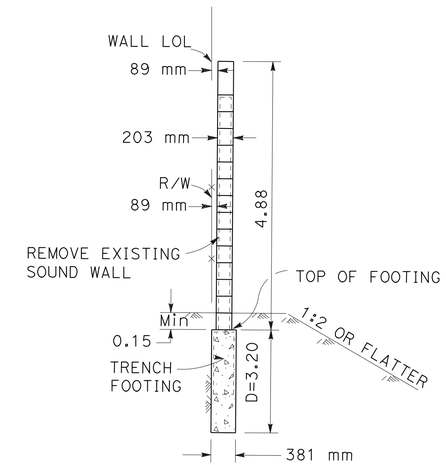
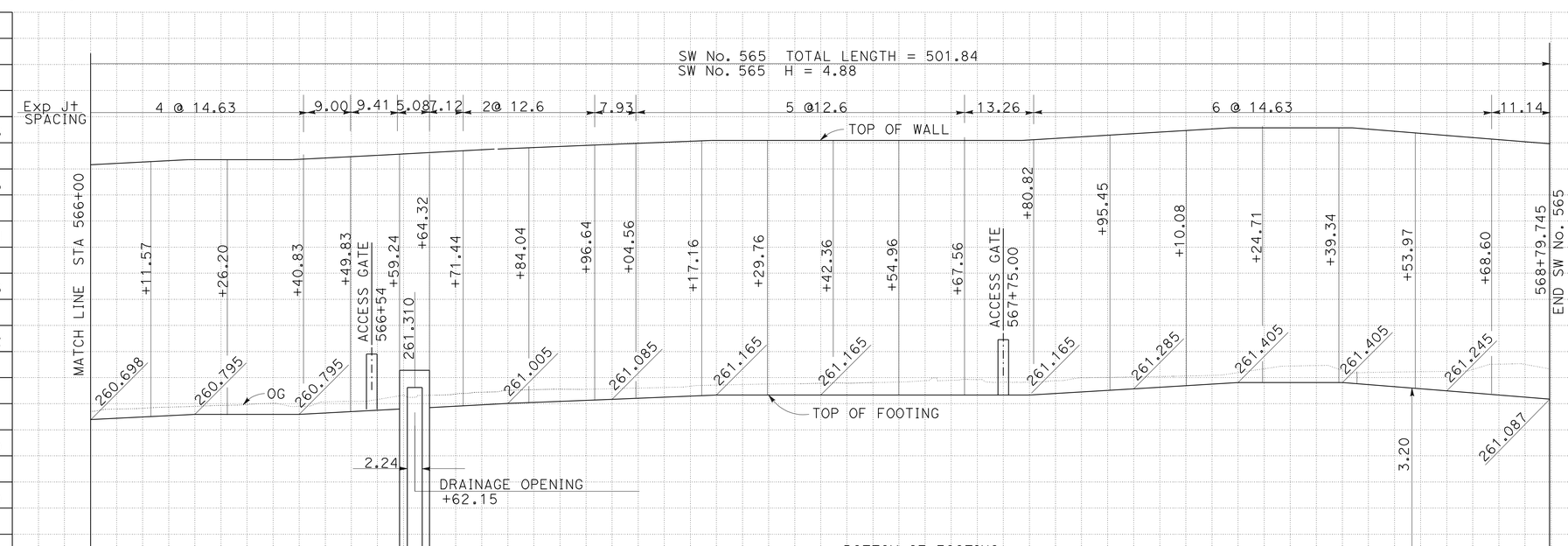


PLAN
SCALE 1:500



TYPICAL SECTION
NO SCALE



ELEVATION
SCALE HORIZ 1:500
VERT 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 565
SCALE AS SHOWN

SW-27

REVISED BY	GODFREY NZEOGU
DATE REVISED	AMIR ELSHARIEF
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 07-20-07
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:18

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	469	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

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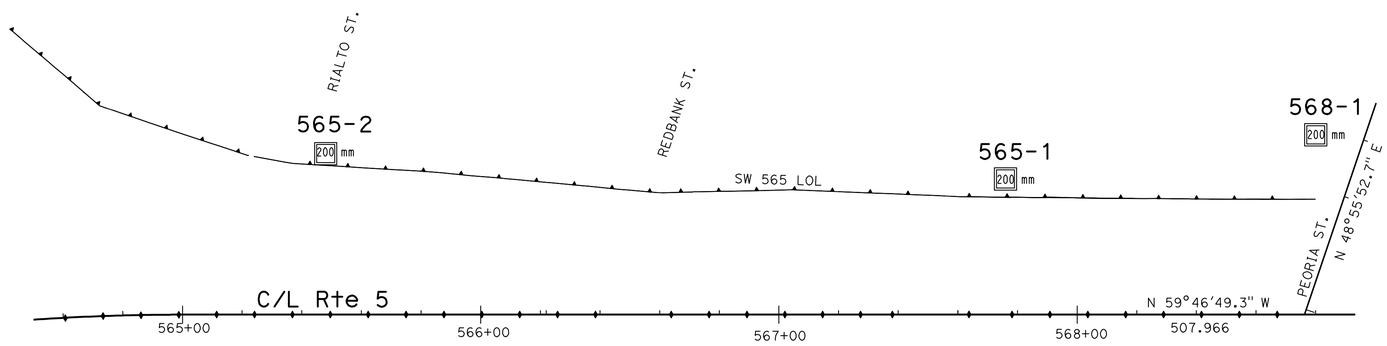

PLAN
1:1000

BENCH MARK
N 579116.34
E 1967887.149
Elev 229.223 m

Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.
2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.
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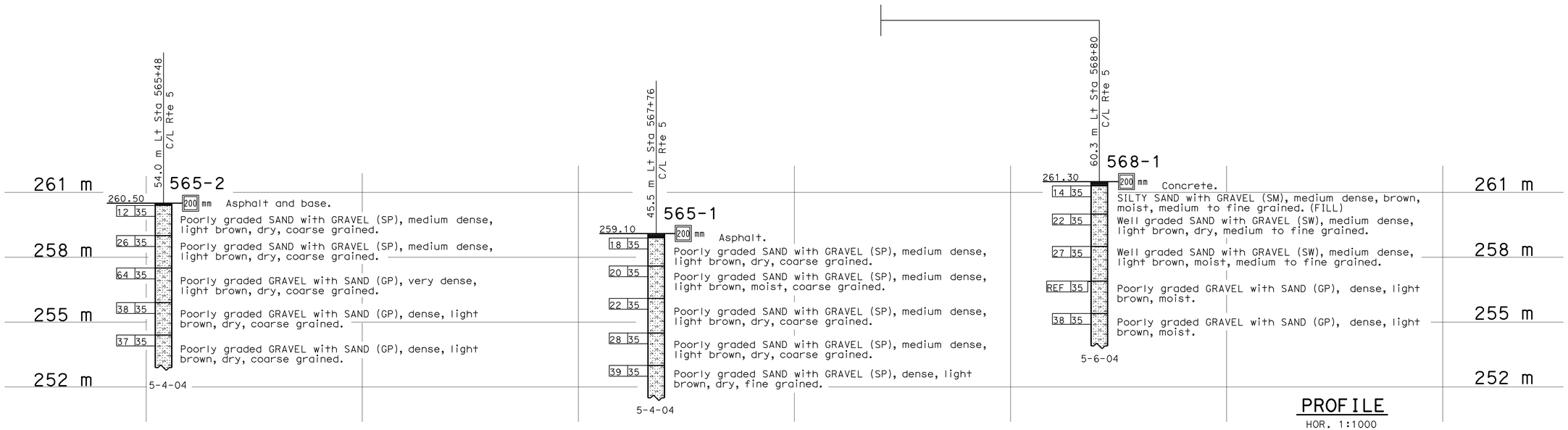
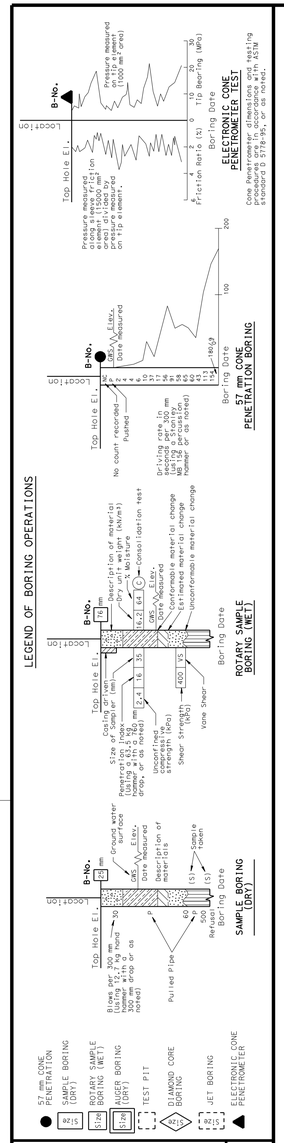


PROFILE
HOR. 1:1000
VER. 1:100

SW-28



OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 565
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 1-9-06 7-5-06 5-7-07

SHEET OF

FILE => 71218vrk003.dgn

USERNAME => trcarol DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:18

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	470	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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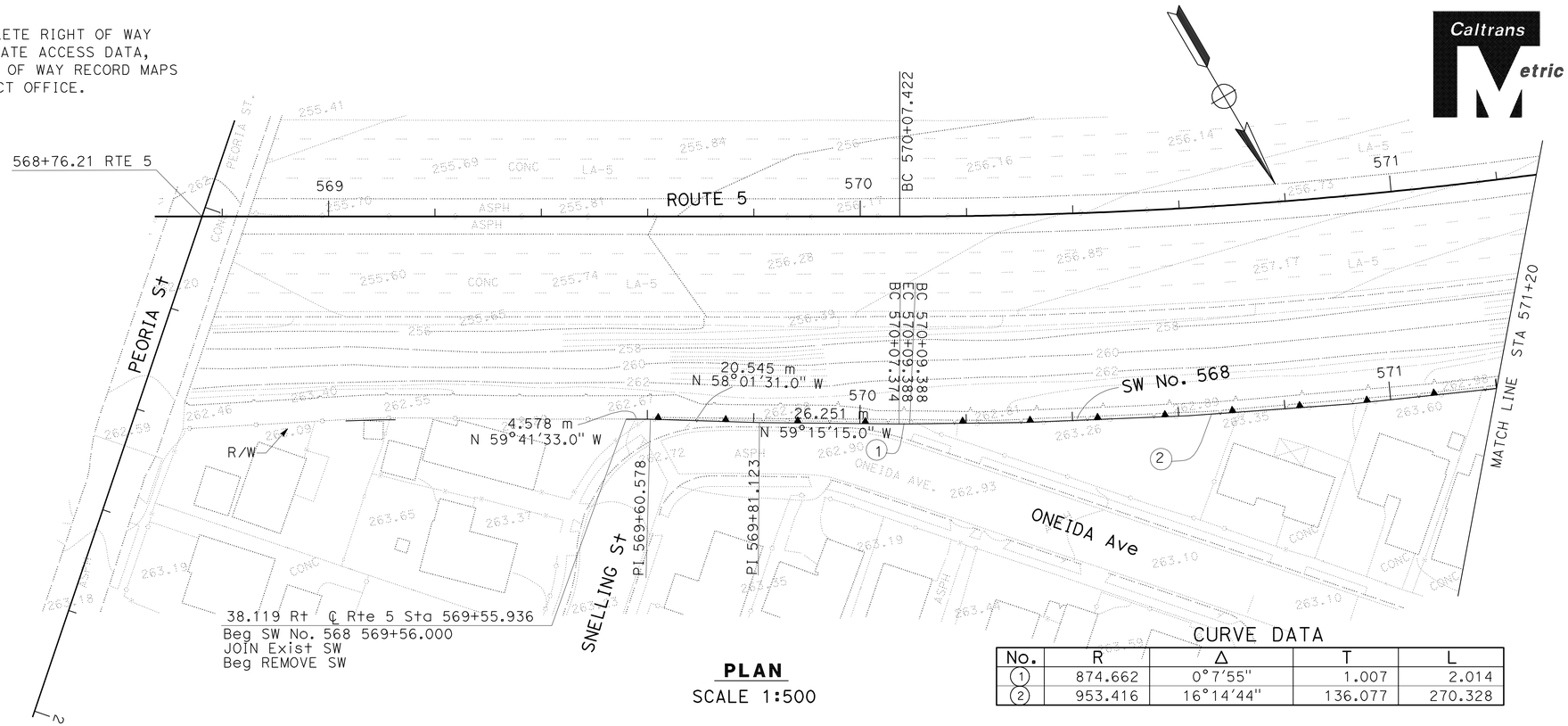
Caltrans Metric

NOTES:

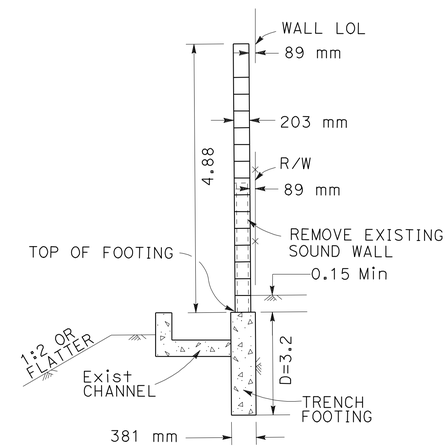
1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



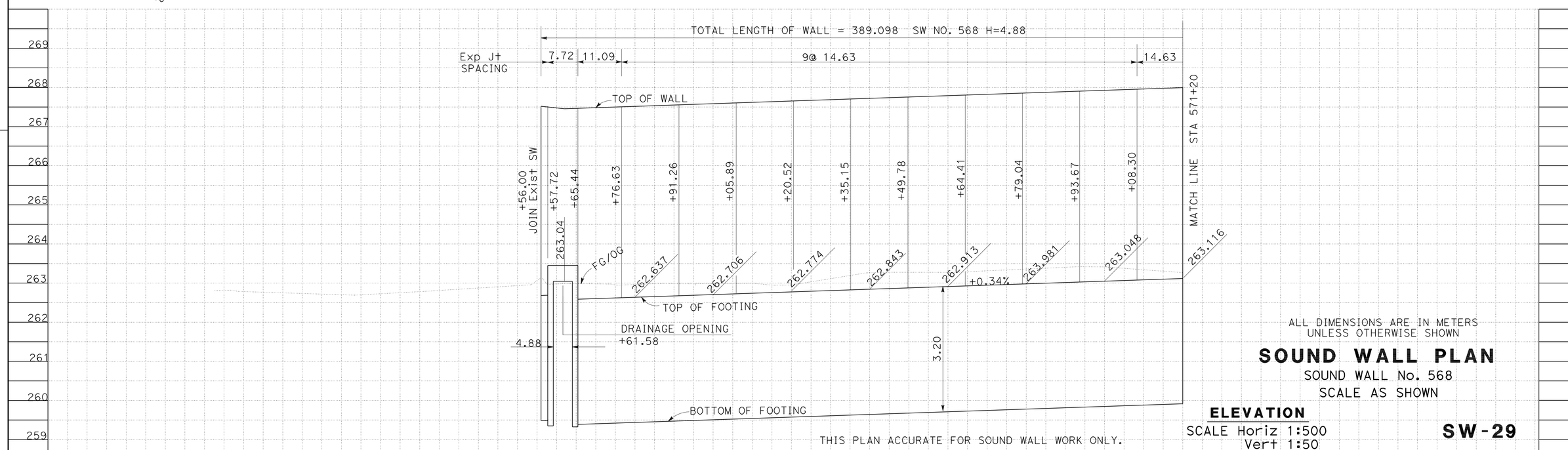
PLAN
SCALE 1:500

CURVE DATA

No.	R	Δ	T	L
1	874.662	0°7'55"	1.007	2.014
2	953.416	16°14'44"	136.077	270.328



TYPICAL SECTION
NO SCALE



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 568
SCALE AS SHOWN

ELEVATION
SCALE Horiz 1:500
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

SW-29

REVISED BY | DATE REVISED
GODFREY NZEOGU | AMIR ELSHARIEF
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

LAST REVISION 07-20-07 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	471	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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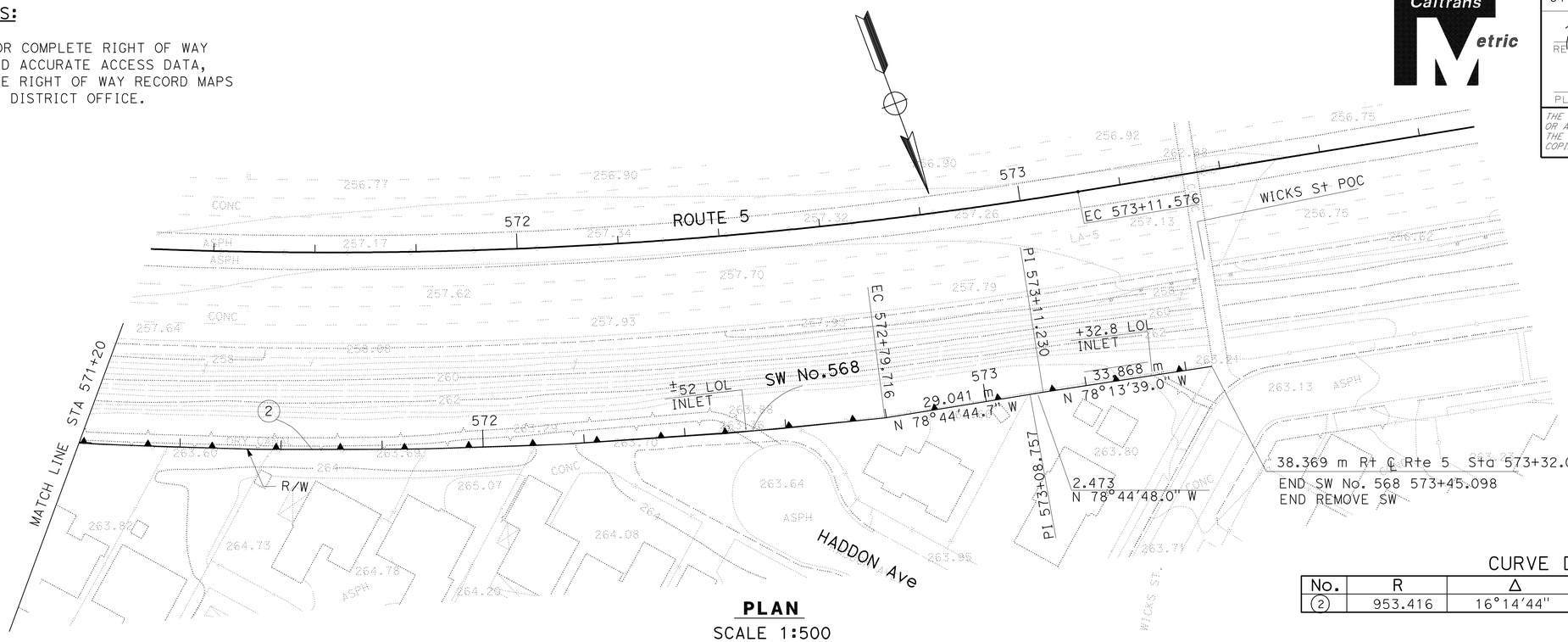
Caltrans Metric

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:500

CURVE DATA

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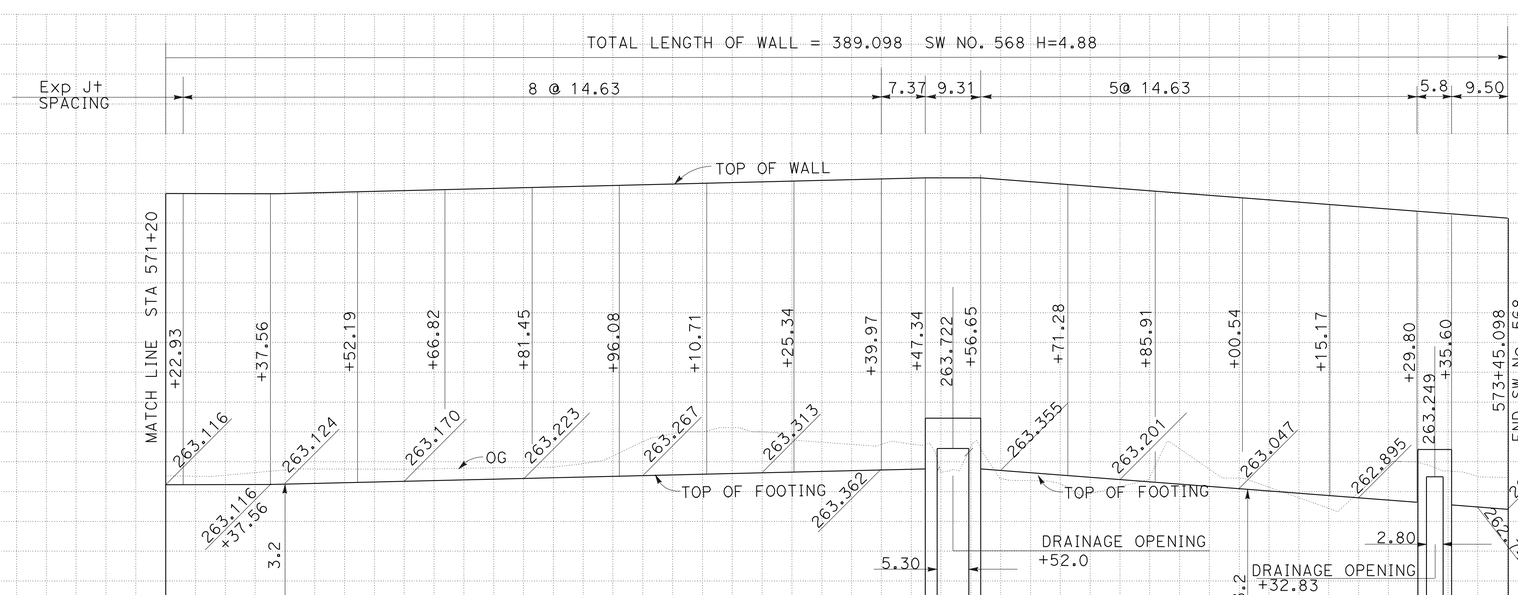
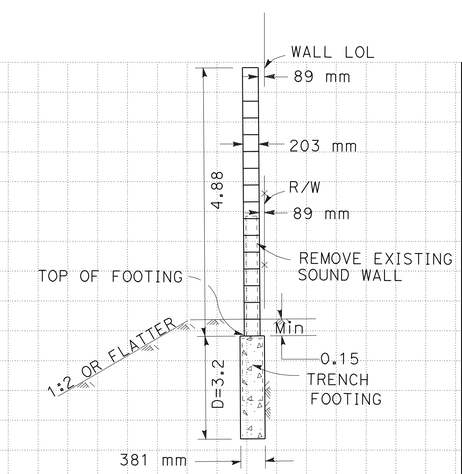


ELEVATION
SCALE Horiz 1:500
Vert 1:50



TYPICAL SECTION
NO SCALE

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 568
SCALE AS SHOWN

SW-30

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: GODFREY NZEOGU
CHECKED BY: AMIR ELSHARIEF
REVISED BY / DATE REVISED

LAST REVISION DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:19
07-20-07

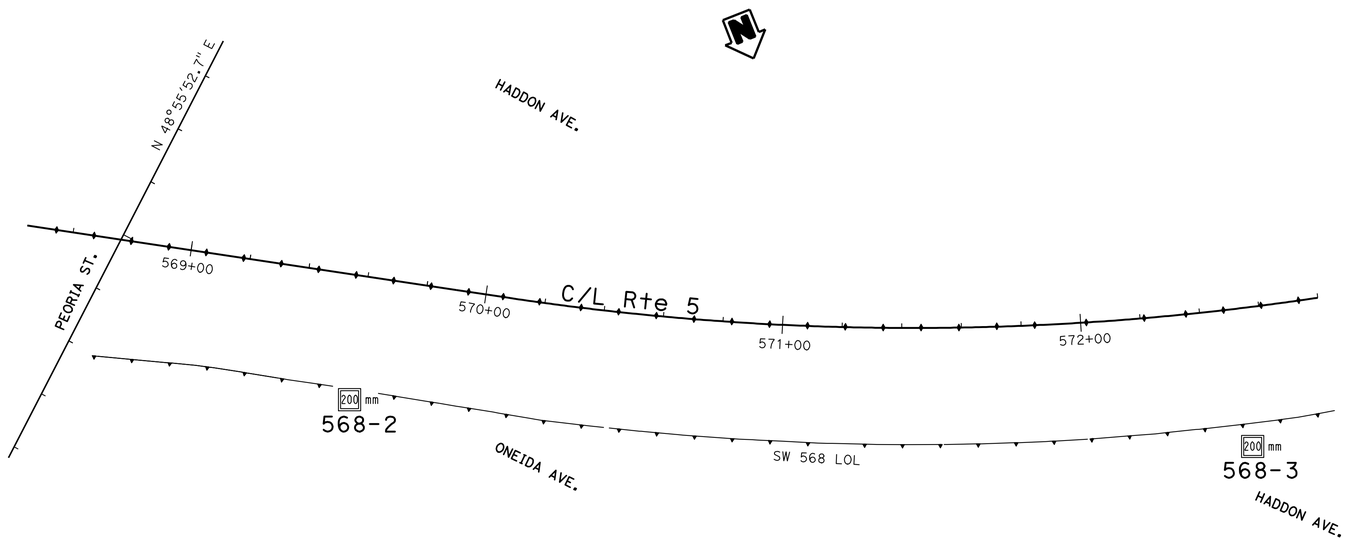
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	472	869

REGISTERED CIVIL ENGINEER 6-4-07

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Bhaskar Joshi
No. C66350
Exp. 6-30-10
CIVIL
STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



BENCH MARK

N 579116.34
E 1967887.149
Elev 229.223 m

PLAN

1:1000

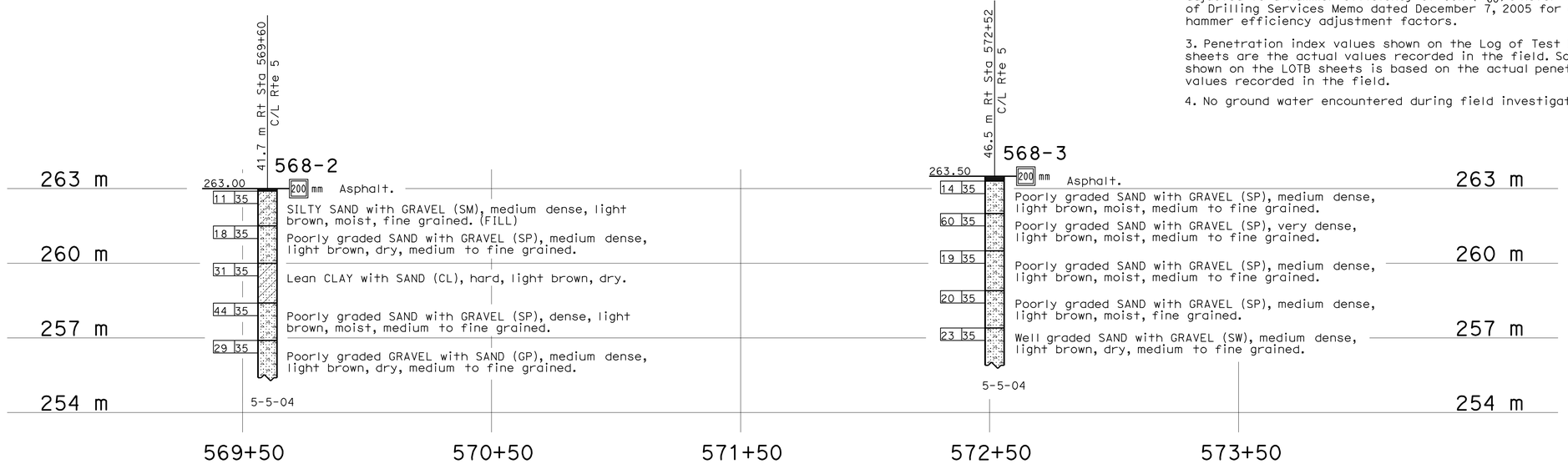
Notes:

1. Borehole locations and elevation were not surveyed and are estimated from Project Plans.

2. Test borings utilized a CME Automatic Hammer Driver (theoretical free fall energy of 0.35 kip-ft) to advance the SPT sampler. A multiplication factor of 1.36 may be used to obtain N values adjusted to a hammer efficiency of 60% (N_{60}). Refer to Office of Drilling Services Memo dated December 7, 2005 for a list of hammer efficiency adjustment factors.

3. Penetration index values shown on the Log of Test Boring (LOTB) sheets are the actual values recorded in the field. Soil consistency shown on the LOTB sheets is based on the actual penetration index values recorded in the field.

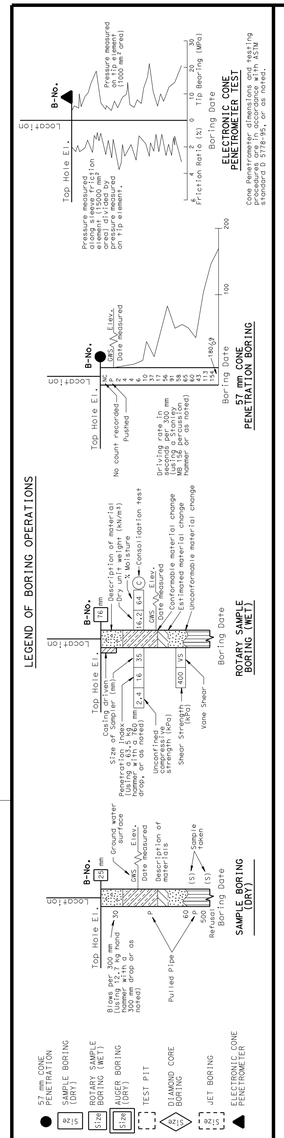
4. No ground water encountered during field investigation.



PROFILE

HOR. 1:1000
VER. 1:100

SW-31



CONSISTENCY CLASSIFICATION FOR SOILS

According to the Standard Penetration Test

SPT N-Value (Blows/0.3m)	Granular	SPT N-Value (Blows/0.3m)	Cohesive
0-4	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-30	Medium Dense	5-8	Firm
31-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very stiff
		>30	Hard

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

OGS CIVIL LOG OF TEST BORINGS SHEET (METRIC) (REV. 4/04)

Caltrans Metric

GEOTECHNICAL SERVICES	
DRAWN BY	F. Nguyen 7/05
CHECKED BY	B. Joshi

FIELD INVESTIGATION BY: B. Joshi

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN
DESIGN BRANCH

BRIDGE NO.
KILOMETER POST

SOUND WALL NO. 568
LOG OF TEST BORINGS

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES 7-3-06

REVISION DATES (PRELIMINARY STAGE ONLY) SHEET OF

FILE => 71218vr1003.dgn

USERNAME => ttrcarol DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	473	869

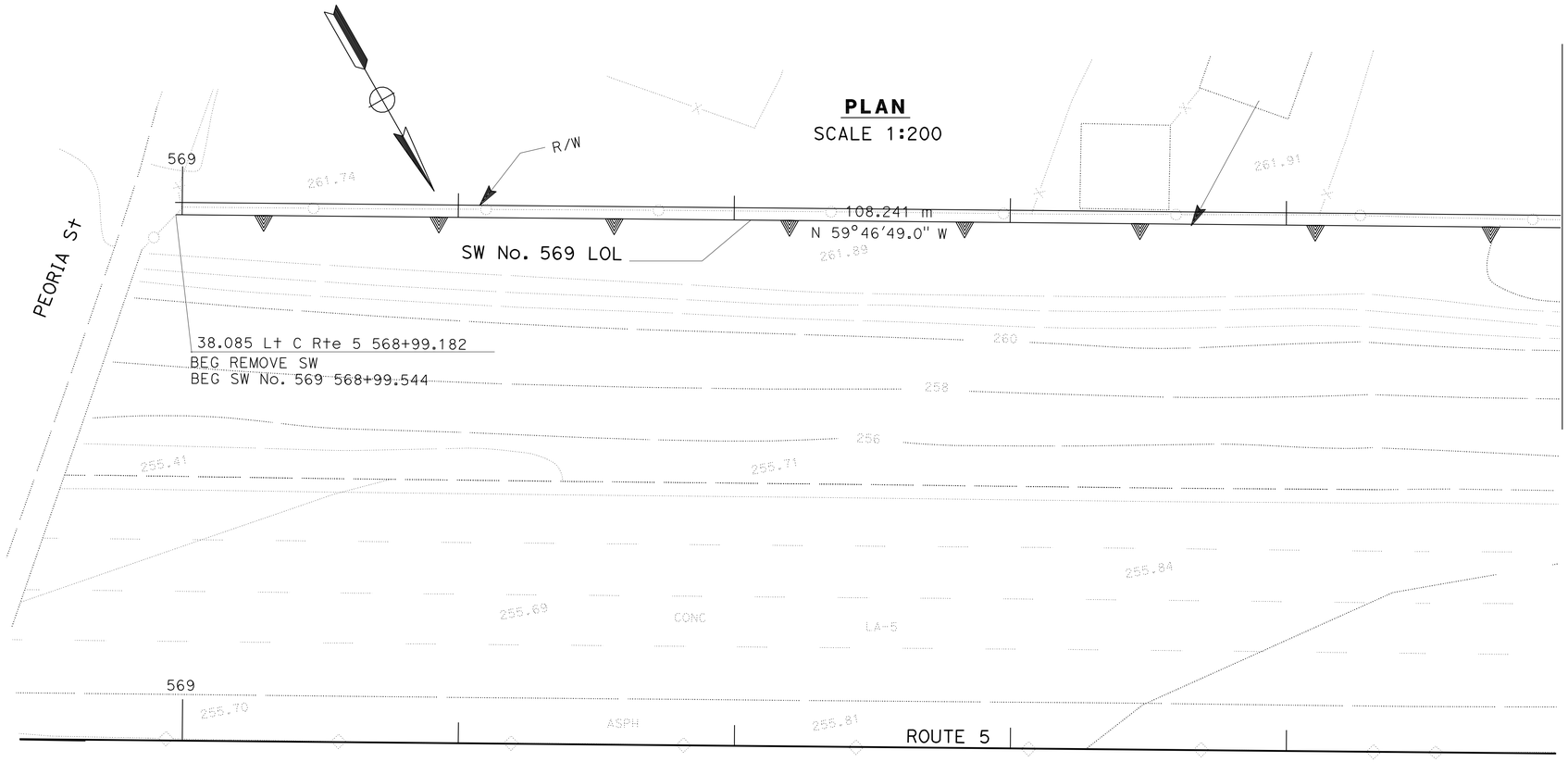
REGISTERED CIVIL ENGINEER 7/09/08 DATE

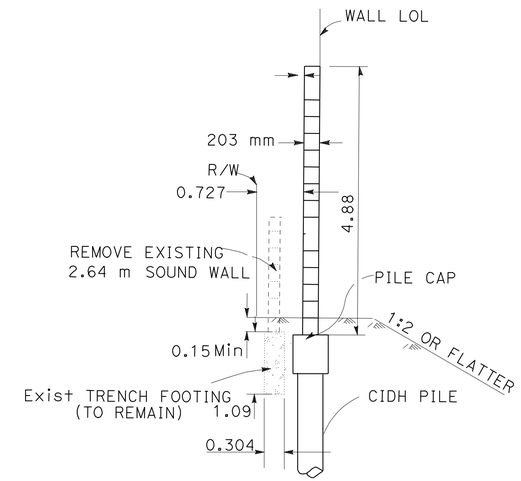
5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

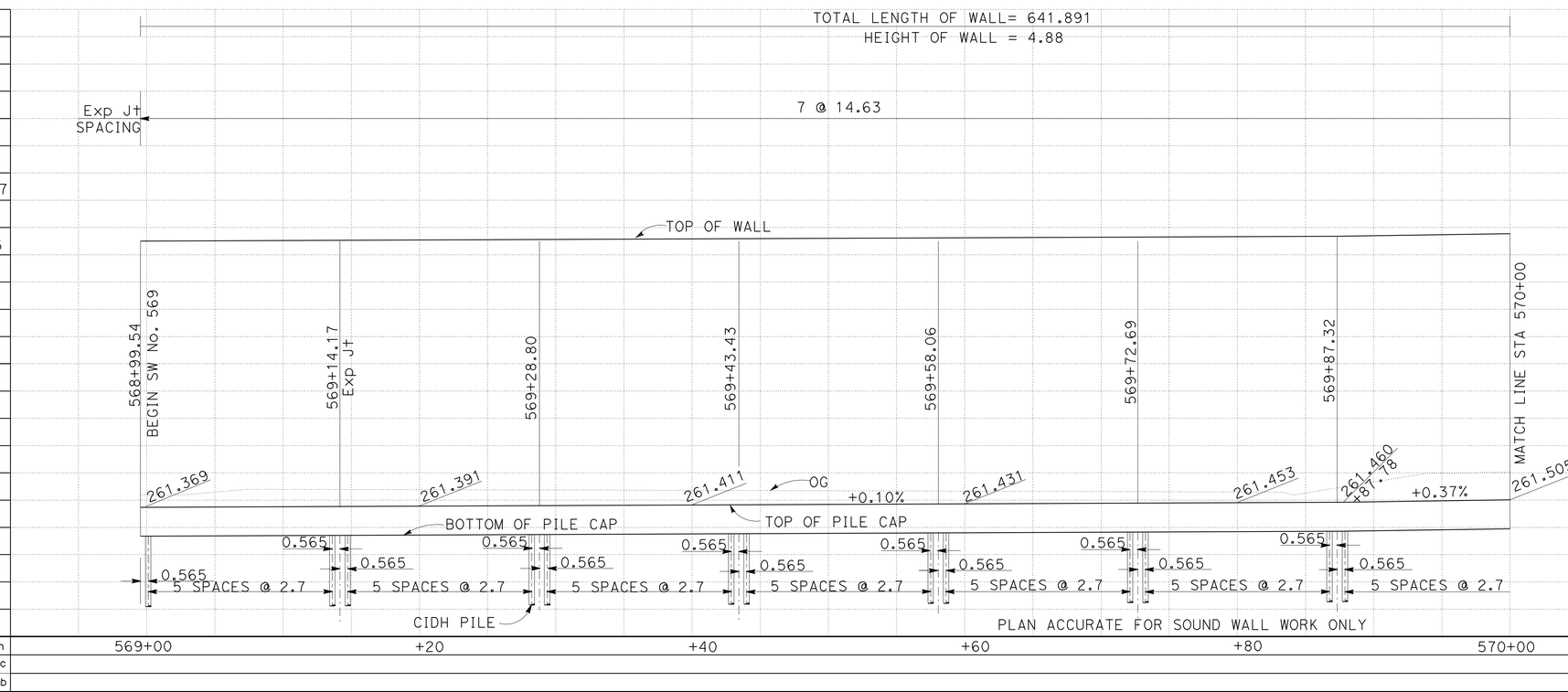
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric





TYPICAL SECTION
NO SCALE



NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ELEVATION

SCALE Horiz 1:200
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 569
SCALE AS SHOWN

SW-32

REVISED BY	11-09-08
DATE REVISED	
CALCULATED-DESIGNED BY	AMIR ELSHARIEF
CHECKED BY	
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	474	869

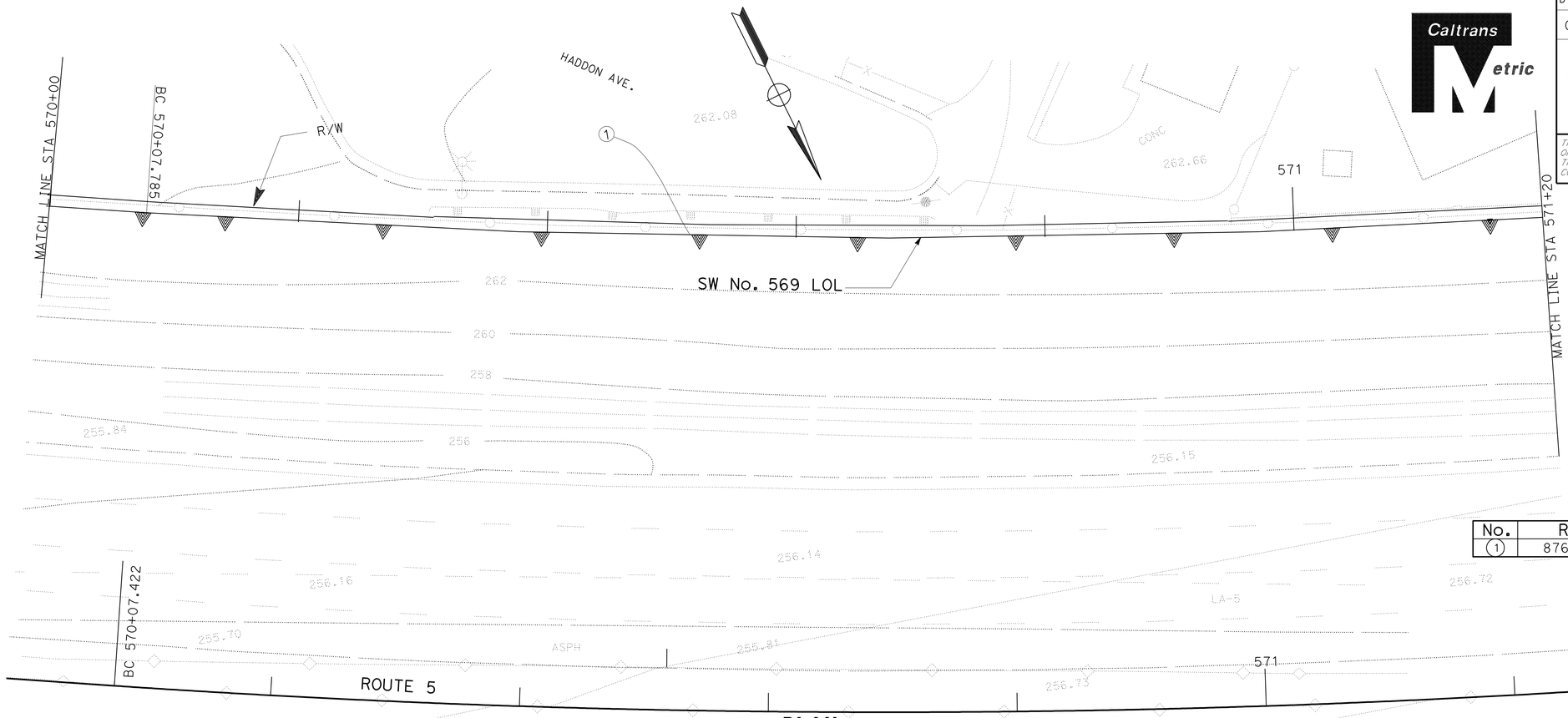
REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric



PLAN
SCALE 1:200

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
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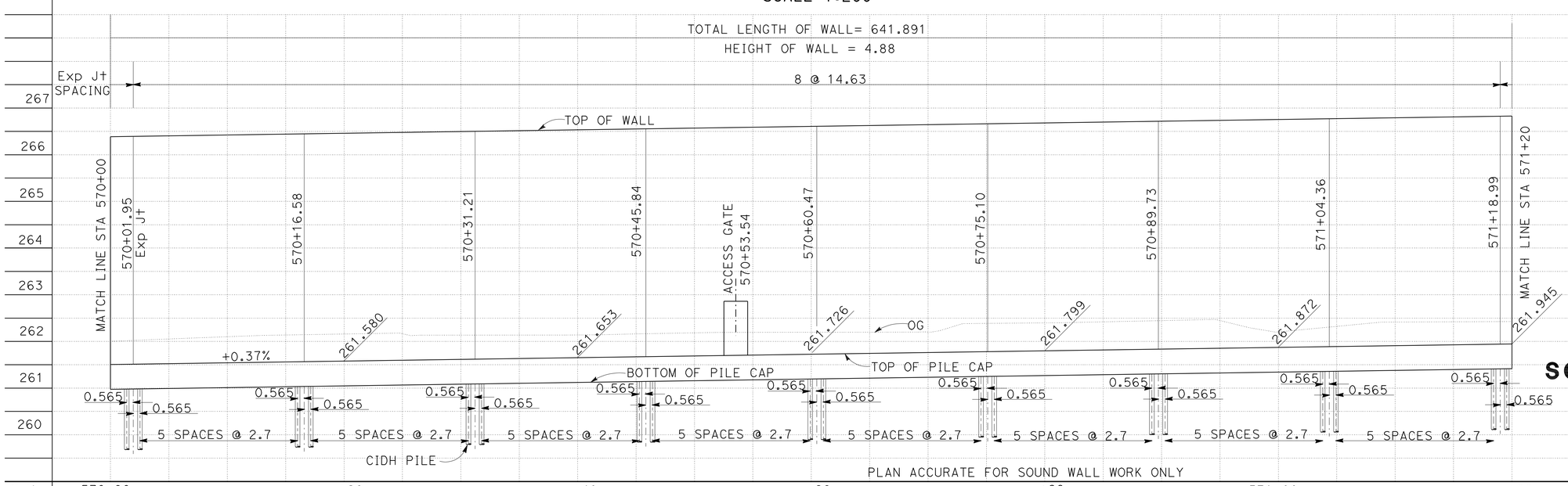


ELEVATION
SCALE Horiz 1:200
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 569
SCALE AS SHOWN

SW-33

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **DESIGN**

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY
REVISED BY
DATE REVISED: 11-09-08

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	475	869

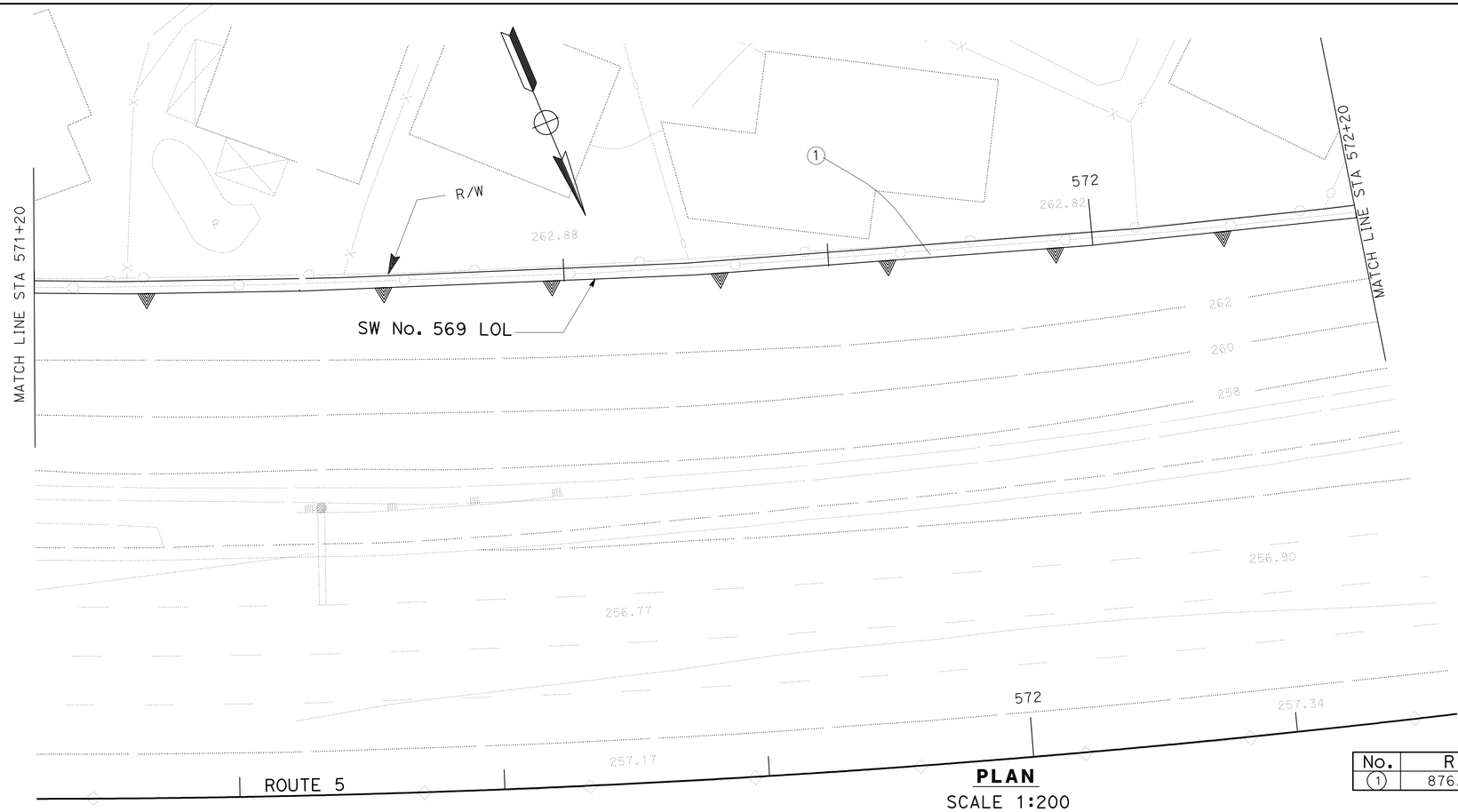
REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric



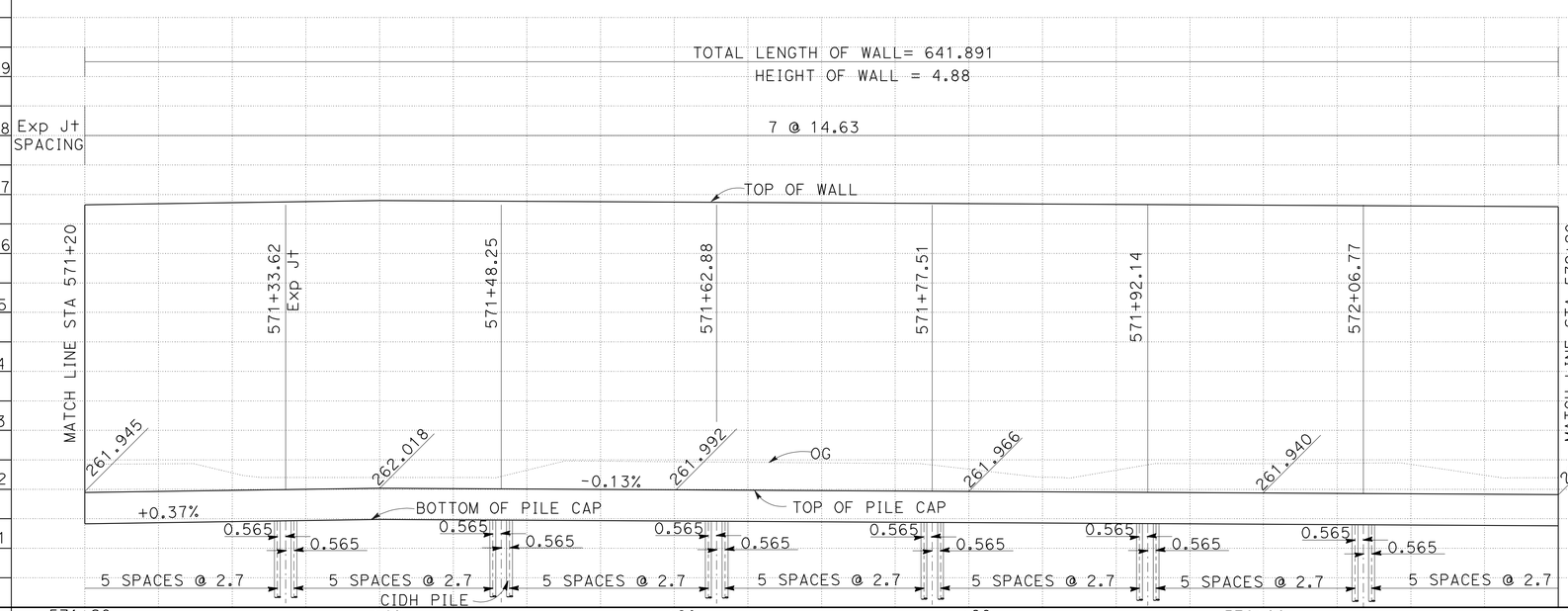
PLAN
SCALE 1:200

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
1	876.266	14°30'07.3"	111.491	221.790



ELEVATION
SCALE Horiz 1:200
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 569
SCALE AS SHOWN

SW-34

PLAN ACCURATE FOR SOUND WALL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: AMIR ELSHARIEF
CHECKED BY
REVISED BY 11-09-08
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	476	869

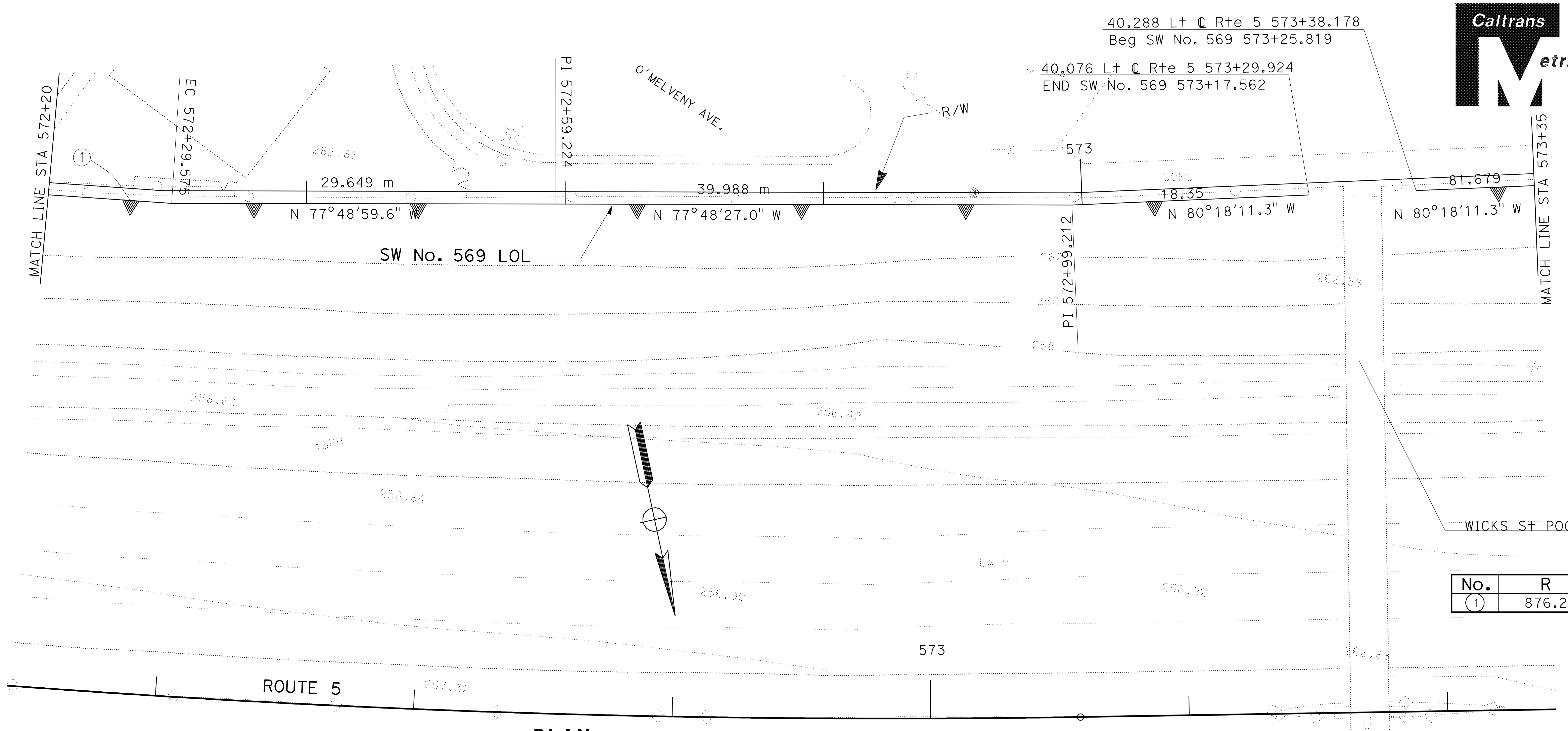
REGISTERED CIVIL ENGINEER — 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — KYLE M KUNITAKE — No. 63726 — Exp. 9/30/10 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Caltrans Metric



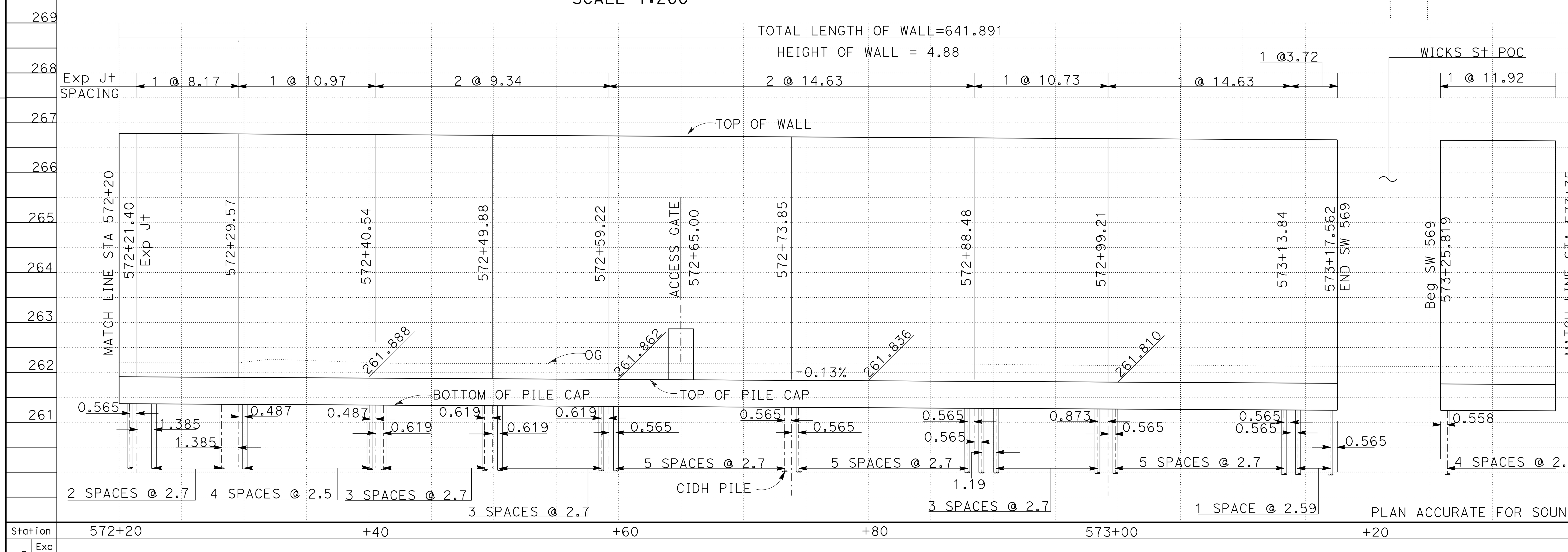
PLAN
SCALE 1:200

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
1	876.266	14°30'07.3"	111.491	221.790



PLAN ACCURATE FOR SOUND WALL WORK ONLY

ELEVATION
SCALE Horiz 1:200
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 569
SCALE AS SHOWN

SW-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY / CHECKED BY
AMIR ELSHARIEF
REVISED BY / DATE REVISED: 11-09-08

BORDER LAST REVISED 3/1/2007
RELATIVE BORDER SCALE IS IN MILLIMETERS 0 20 40 60 80
USERNAME => trcarol
DGN FILE => 71218vrm004.dgn
CU 07276
EA 1218V1
LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:19

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	477	869

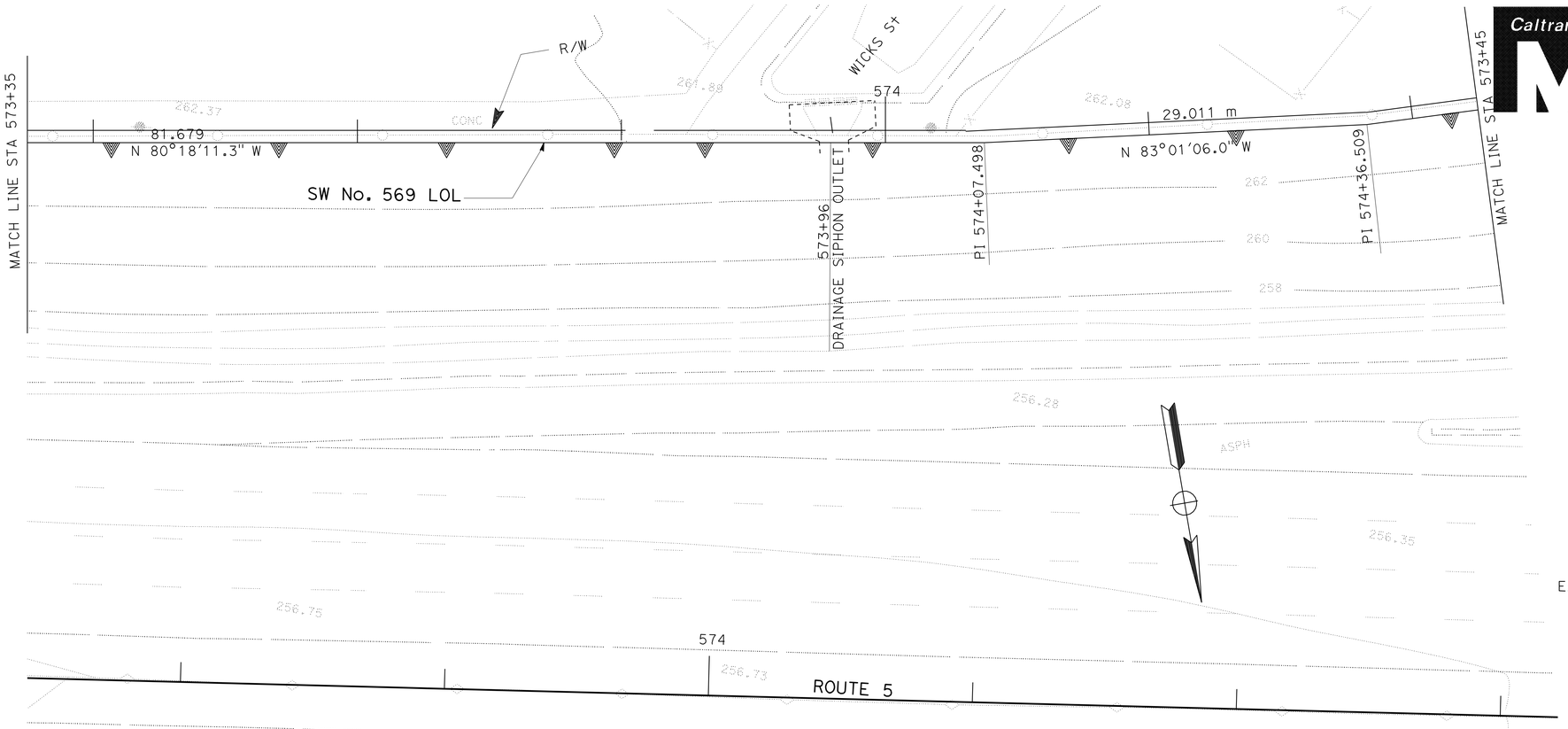
REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

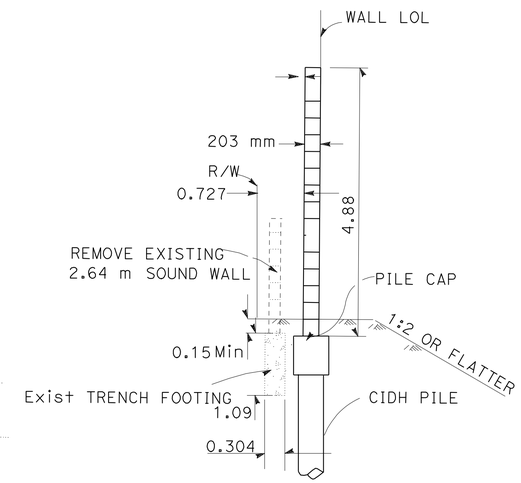
REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

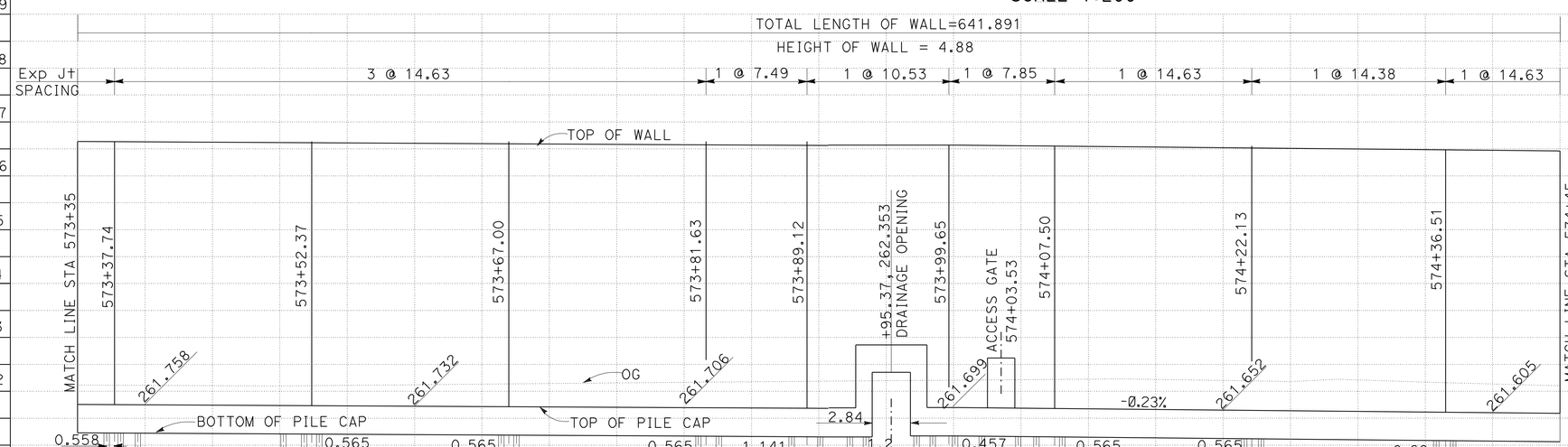
Caltrans Metric



PLAN
SCALE 1:200



TYPICAL SECTION
NO SCALE



ELEVATION
SCALE Horiz 1:200
Vert 1:50

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 569
SCALE AS SHOWN

SW-36

REVISED BY 11-09-08
DATE REVISED

AMIR ELSHARIEF
CALCULATED-DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAR-2010
TIME PLOTTED => 14:20

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	478	869

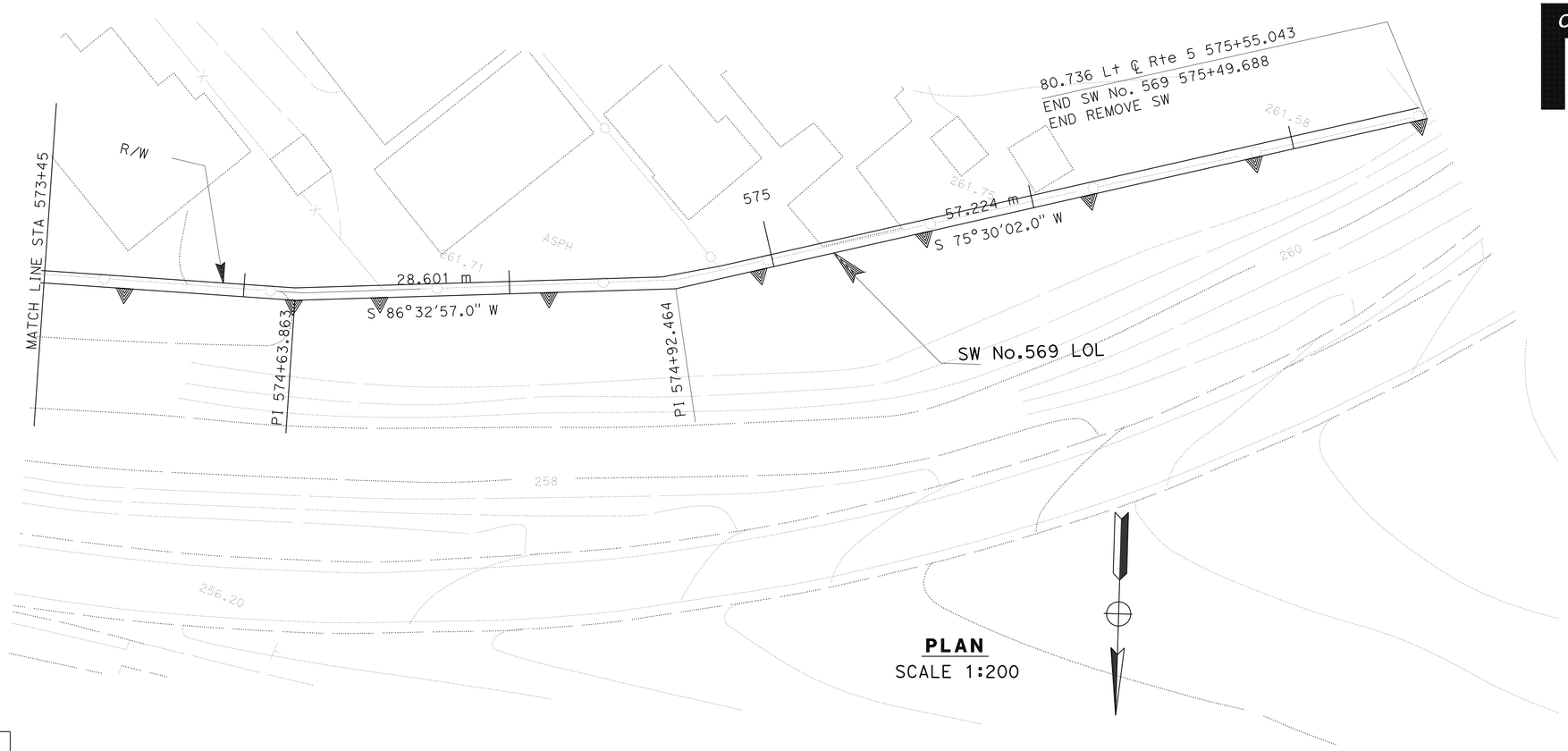
REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

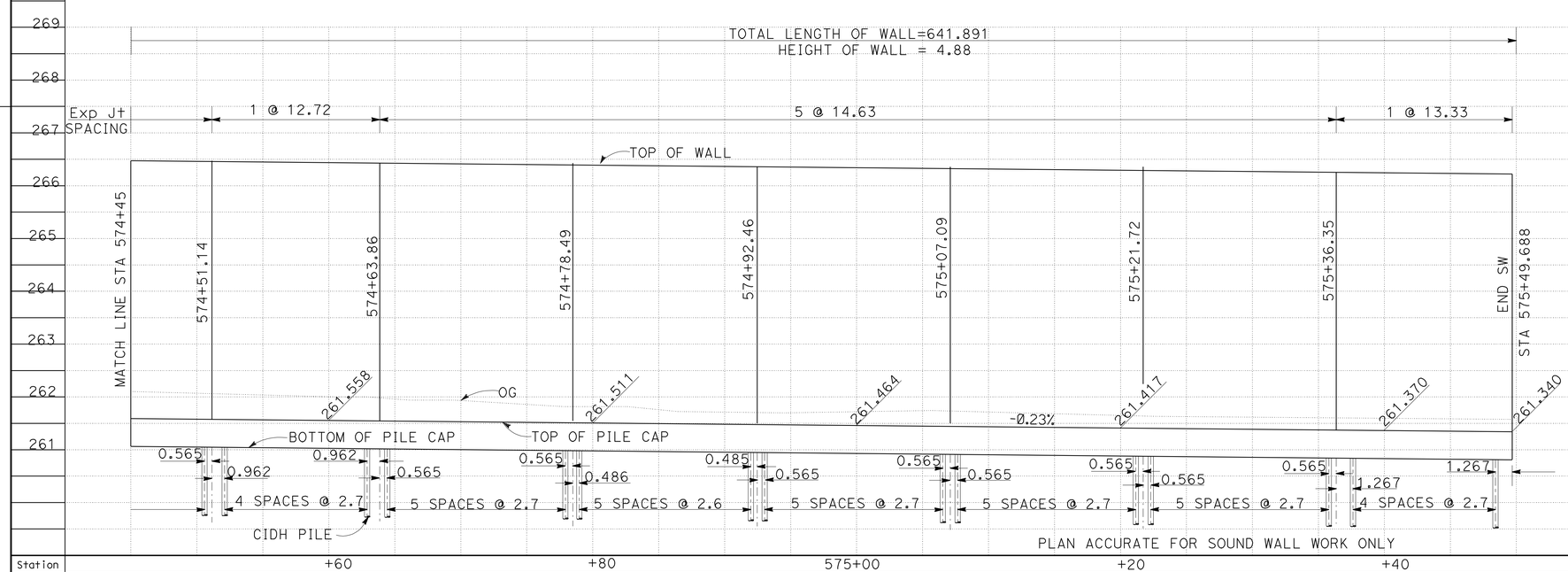
Caltrans Metric



PLAN
SCALE 1:200

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN ACCURATE FOR SOUND WALL WORK ONLY

ELEVATION
SCALE Horiz 1:200
Vert 1:50

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 569
SCALE AS SHOWN

SW-37

REVISED BY	11-09-08
DATE REVISED	
AMIR ELSHARIEF	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:20

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	479	869

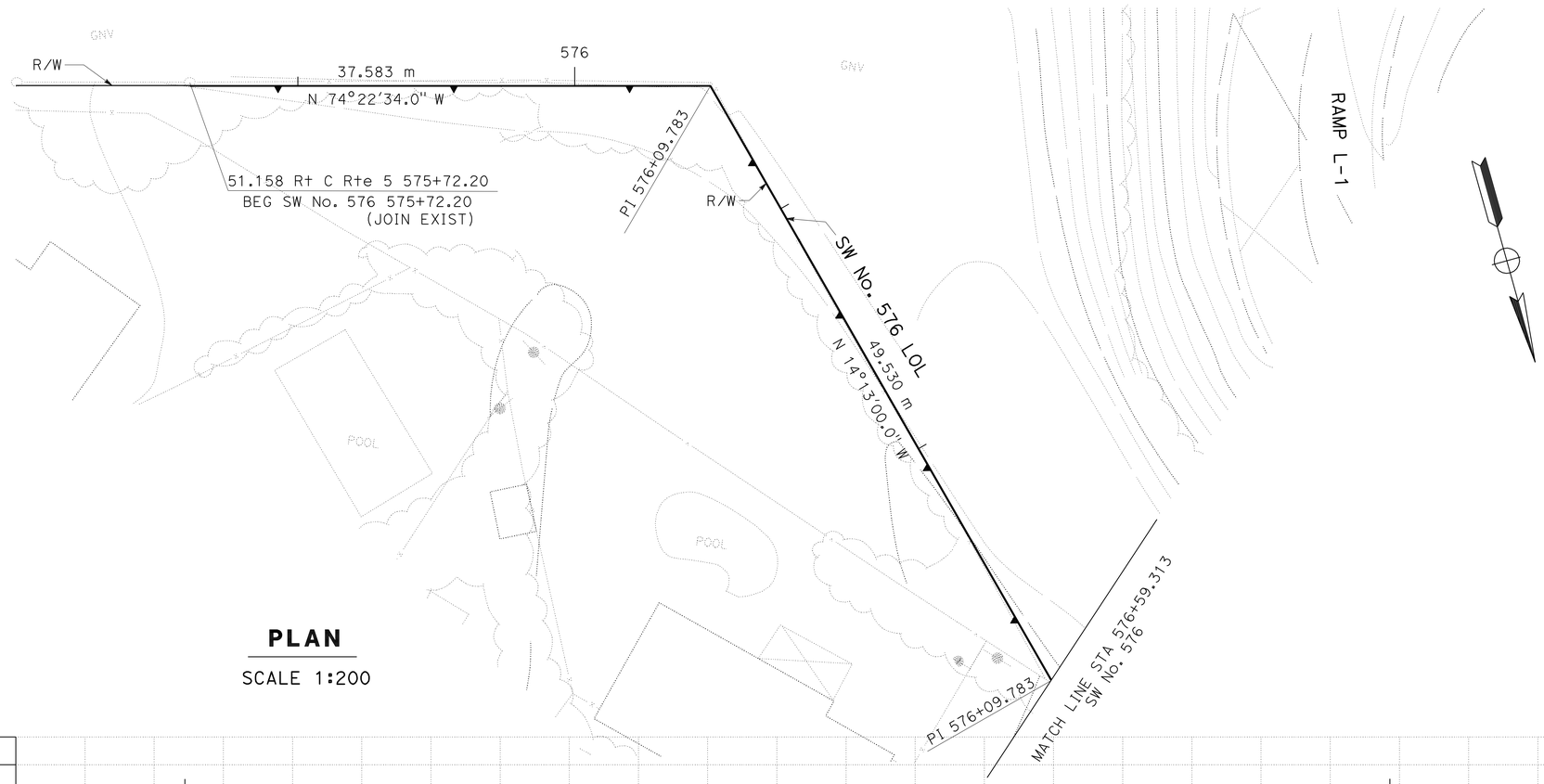
REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

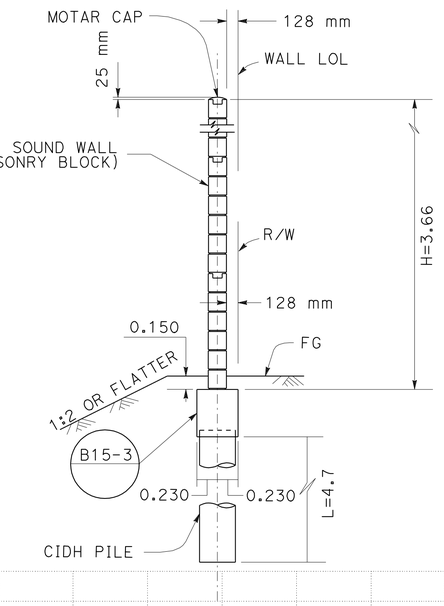
REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

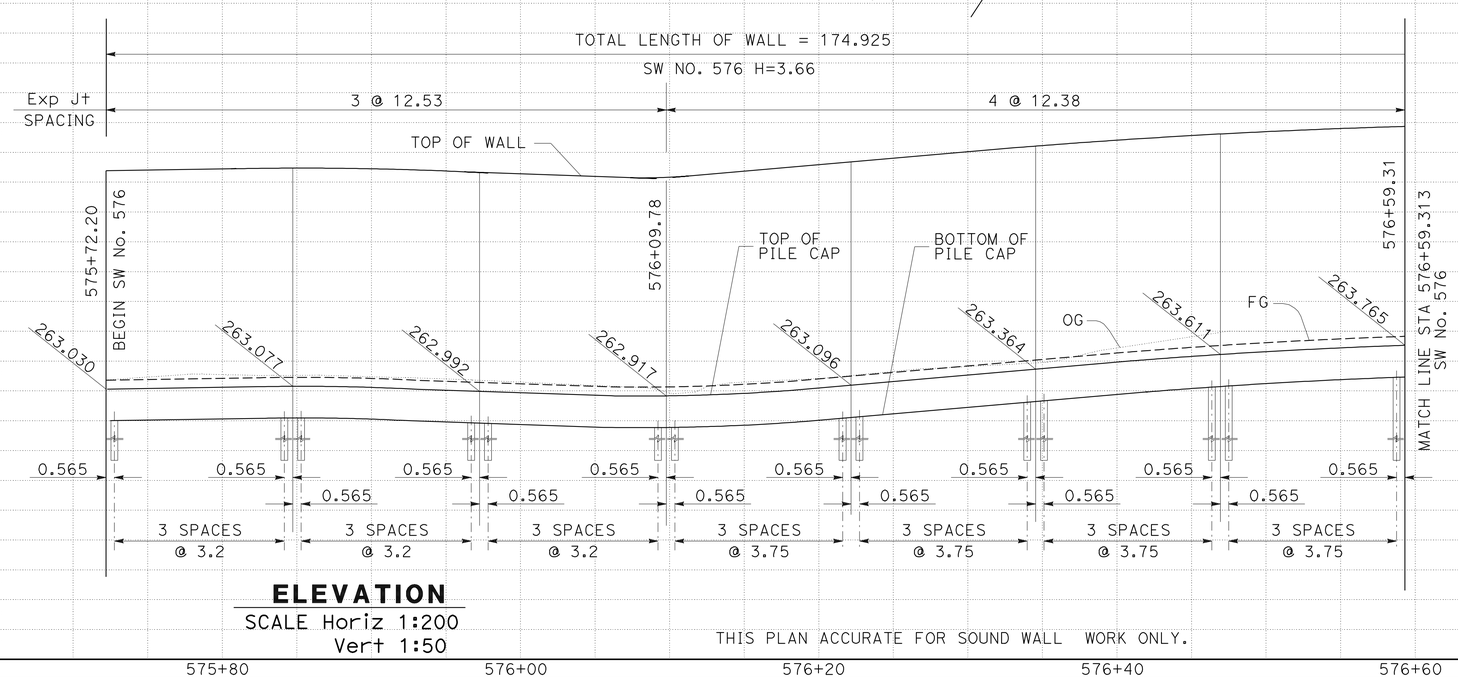
Caltrans Metric



PLAN
SCALE 1:200



TYPICAL SECTION
NO SCALE



ELEVATION
SCALE Horiz 1:200
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 576
SCALE AS SHOWN

SW-38

Station	575+80	576+00	576+20	576+40	576+60
m^3 Exc					
m^3 Emb					

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: COUNG T. TRAN
CHECKED BY: AMIR ELSHARIEF
FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:20

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	480	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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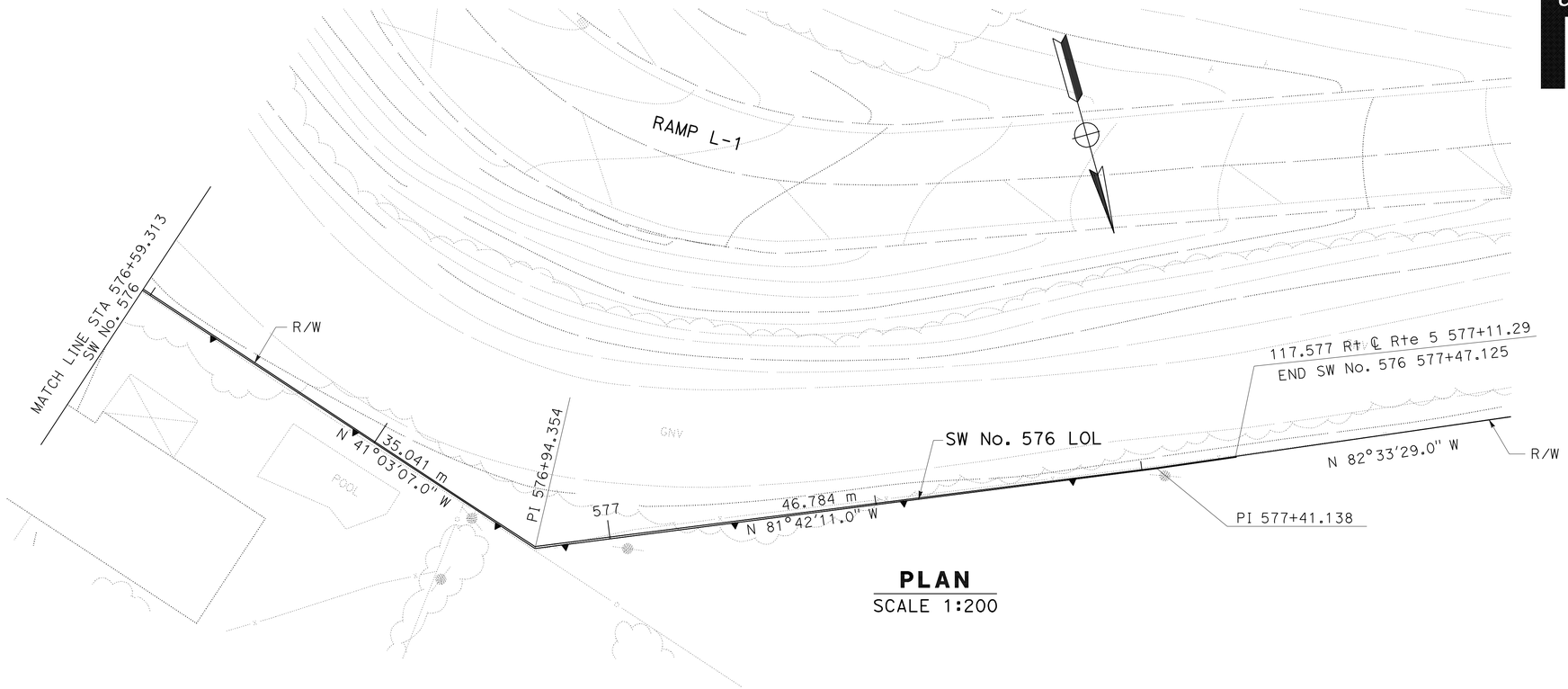
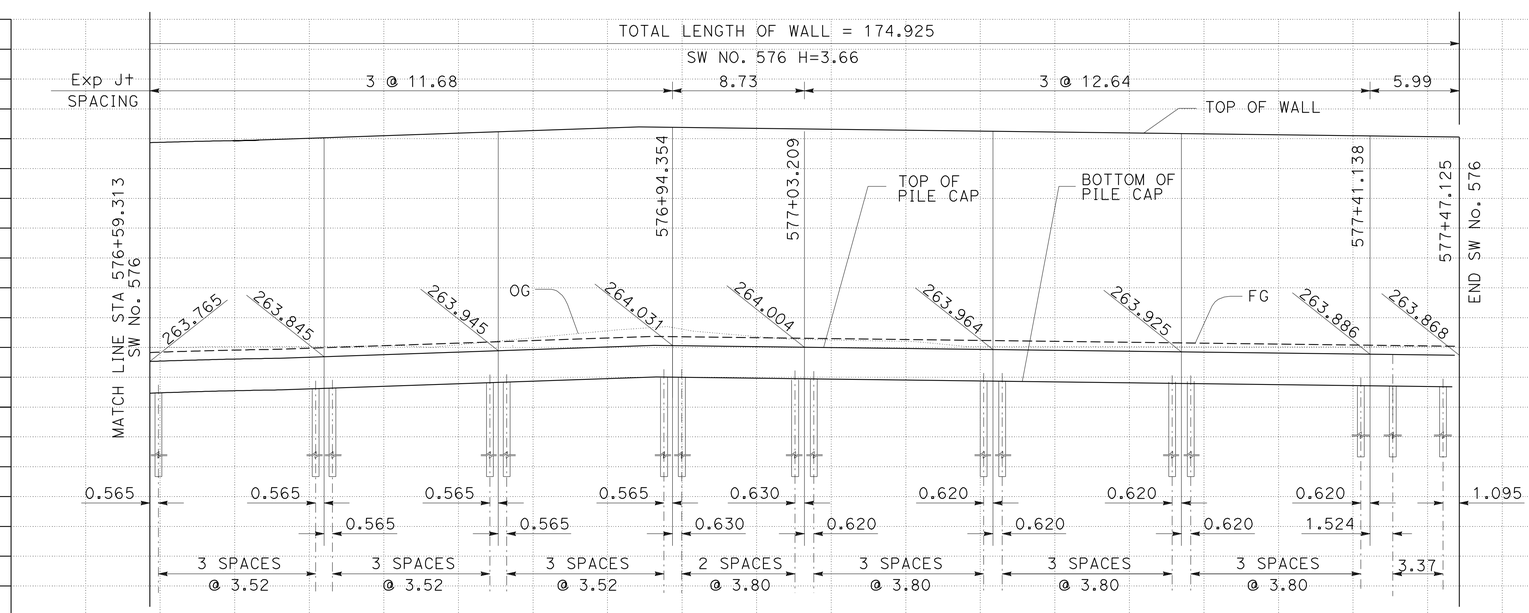
Caltrans Metric



PLAN
SCALE 1:200



ELEVATION
SCALE Horiz 1:200
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

Station	576+60	576+80	577+00	577+20	577+40
m^3 Exc					
m^3 Emb					

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN
SOUND WALL No. 576
SCALE AS SHOWN

SW-39

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: CELINA AVILES
CALCULATED-DESIGNED BY: COUNG T. TRAN
CHECKED BY: AMIR ELSHARIEF
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:01

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	481	869

REGISTERED CIVIL ENGINEER 7/09/08 DATE

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KYLE M KUNITAKE No. 63726 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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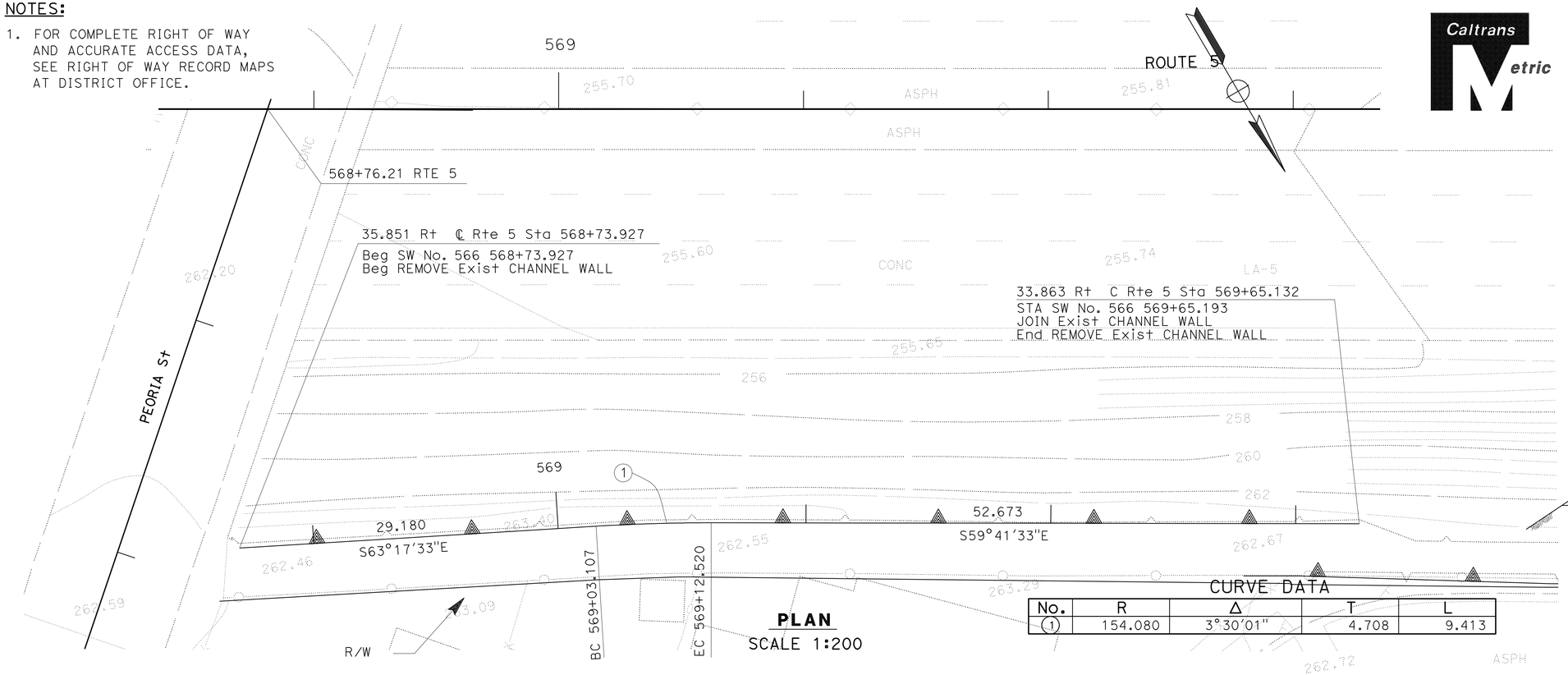
Caltrans Metric

NOTES:

1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.



PLAN
SCALE 1:200

CURVE DATA

No.	R	Δ	T	L
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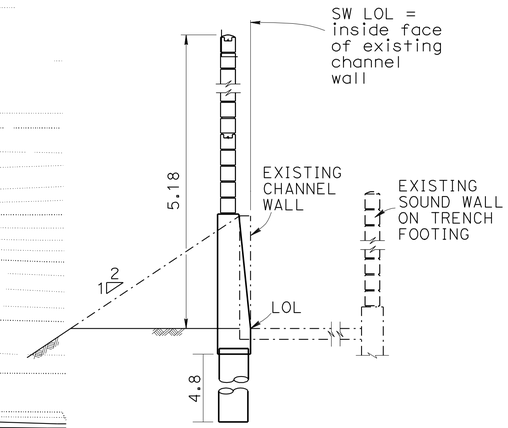
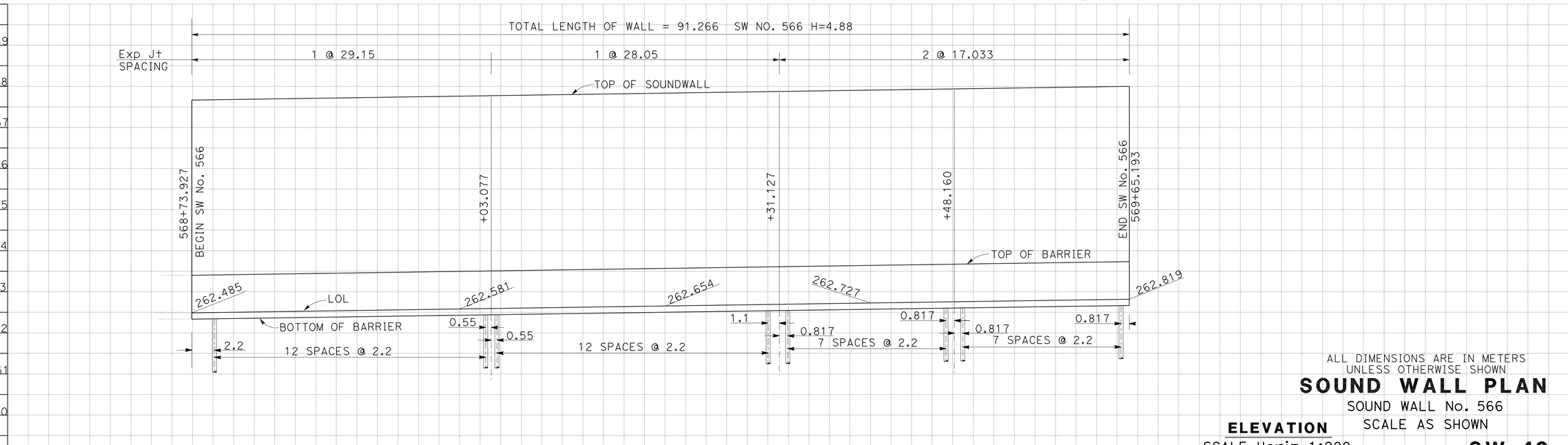


TYPICAL SECTION
(SEE NEXT SHEET FOR DETAILS)
NO SCALE



ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

SOUND WALL PLAN

SOUND WALL No. 566

SCALE AS SHOWN

ELEVATION

SCALE Horiz 1:200
Vert 1:50

THIS PLAN ACCURATE FOR SOUND WALL WORK ONLY.

SW-40

REVISED BY | DATE REVISED

KYLE KUNITAKE | AMIR ELSHARIEF

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: CELINA AVILES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 09-23-08 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:01

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	5	50.8/58.0	482	869

REGISTERED CIVIL ENGINEER Fritz Hoffman DATE 9-5-08

5-3-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER F.H. HOFFMAN No. C46401 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

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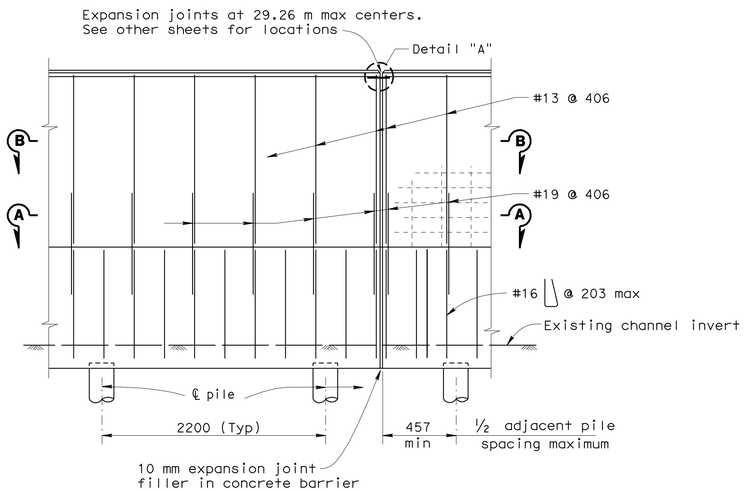
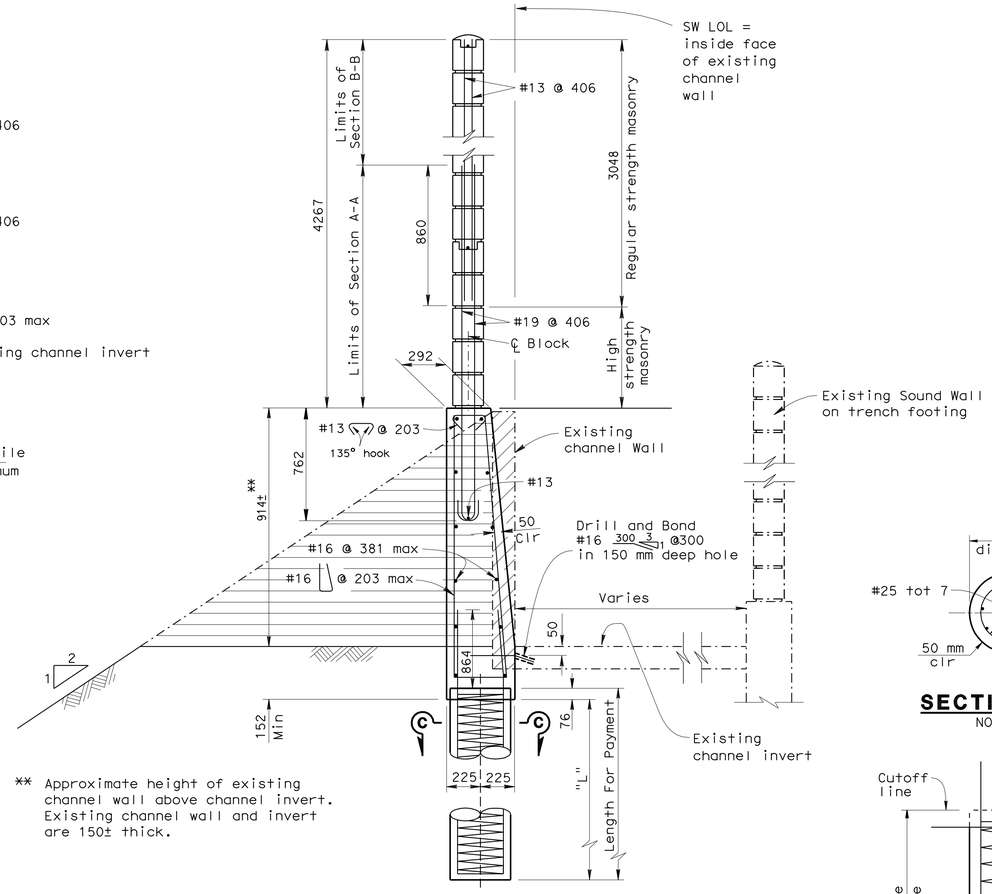
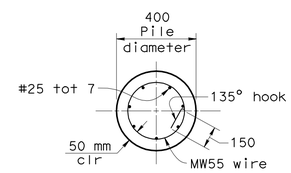


ELEVATION
NO SCALE

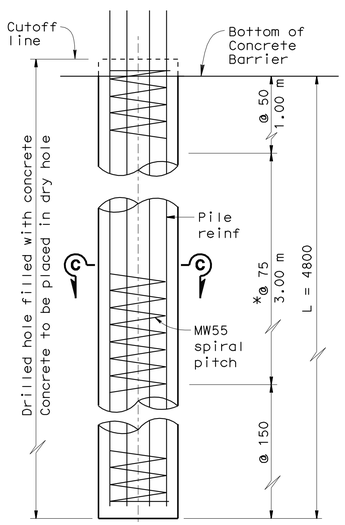


** Approximate height of existing channel wall above channel invert. Existing channel wall and invert are 150± thick.

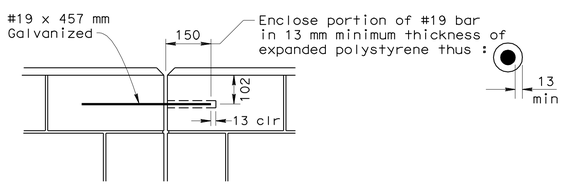
TYPICAL SECTION
NO SCALE



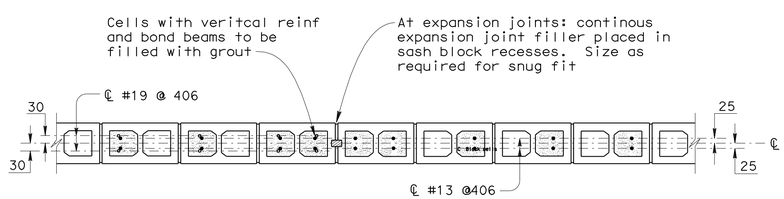
SECTION C-C
NO SCALE



PILE ELEVATION
NO SCALE
*@ 50 at option of contractor.



DETAIL A
NO SCALE



SECTION A-A
NO SCALE

SECTION B-B
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN NOTES

DESIGN

Uniform Building Code, 1997 Edition and the Bridge Design Specifications LFD version, April 2000

DESIGN WIND LOAD
1580 Pa

DESIGN SEISMIC LOAD
0.57 Dead load

REINFORCED CONCRETE
f'c = 22.41 MPa
fy = 413.7 MPa

CONCRETE MASONRY

REGULAR STRENGTH	HIGH STRENGTH
f'm = 10.34 MPa	f'm = 13.79 MPa
f_b = 3.41 MPa	f_b = 4.55 MPa
fs = 165.5 MPa	fs = 165.5 MPa
n = 25.8	n = 19.3

LOAD FACTORS AND LOAD COMBINATIONS

Group A: βD +1.7 E + 1.7 SC
Group B: βD +1.7 E + 1.3 W
Group C: βD +1.3 E + 1.0 EQE
Group D: βD +1.3 E + 1.0 EQD
Group E: βD +1.1 E + 0.85 (EQE + EQD)

Where : β = 1.0 or 1.3, whichever controls in design
D = Dead load
E = Lateral earth pressure
SC = Live load surcharge
W = Wind load
EQE = Seismic earth load
EQD = Seismic dead load

STRENGTH REDUCTION FACTORS, Ø

Reinforced Concrete :
For flexure ---------- Ø = 0.90
For shear ---------- Ø = 0.85

Condrete masonry :
For flexure ---------- Ø = 0.80
For shear ---------- Ø = 0.60

Soil :
ϕ=30°, γ=15.7 kN/m³

NOTES
For details not shown, see B15-6 B15-7 B15-8

LEGEND
Remove existing channel wall concrete
Remove existing slope fill

SW-41

Caltrans Metric

	BY	CHECKED
DESIGN	Xiaodong Chen	Fritz Hoffman
DETAILS	Phil Silva	Fritz Hoffman
QUANTITIES		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 6

BRIDGE NO.
KILOMETER POST Various

SOUNDWALL No. 566
SOUDWALL MASONRY BLOCK ON PILE FOUNDATION

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS 0 10 20 30 40 50 60 70 80 90 100

CU 07276
EA 1218V1

DISREGARD PRINTS BEARING EARLIER REVISION DATES 7-8-08 7-10-08 9-2-08

REVISION DATES | SHEET 1 | OF 1

FILE => 71218vro002.dgn

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV.03-17-04)

USERNAME => trrene DATE PLOTTED => 03-MAY-2010 TIME PLOTTED => 14:01

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	483	869

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MELÉNDREZ
617 SOUTH OLIVE ST., 11TH FLOOR
LOS ANGELES, CA. 90014

100 SOUTH MAIN ST.
LOS ANGELES, CA. 90012

ABBREVIATIONS

AMEND — amendment
B & B — balled and burlapped
Dia — diameter
EA — each
g — gram
kg — kilogram
m — meter
m^2 — square meter
m^3 — cubic meter
Max — maximum
Min — minimum
mm — millimeter
No. — number
PLT ESTB — plant establishment
Pvmt — pavement
R/W — right of way
SF — state furnished
TRVD — traveled

PLANT LIST AND PLANTING SPECIFICATIONS

PLANT GROUP	PLANT No	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE DIA	HOLE SIZE DEPTH	BASIN TYPE	IRON SULFATE	SOIL AMEND	COMMERCIAL FERTILIZER ① PLANTING	COMMERCIAL FERTILIZER ① PLT ESTB	BASIN MULCH ①	STAKING	PLANTING LIMITS MINIMUM DISTANCE (m) FROM TRVD WAY	Pvmt	FENCE	WALL	PAVD DITCH	EARTH DITCH	ON CENTER (m)	REMARKS
A	1	●	CLYTOSTOMA CALLISTEGIOIDES	VIOLET TRUMPET VINE	No. 1	146	②		III	-	-	115 g	115 g	0.04 m^3	⑥	-	-	-	-	2.5	3	3	VINE
	2		PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	No. 1	1,676	②		III	-	-	115 g	115 g	0.04 m^3	⑥	-	-	-	-	4	4.5	3	VINE
	3		PITTOSPORUM CRASSIFOLIUM	EVERGREEN PITTOSPORUM	No. 1	34	②		II	-	-	115g	115 g	0.04 m^3	-	-	4.5	1	1	2.5	3	3	SHRUB
	4		ROSA 'MEIDILAND FUCHSIA'	MEIDILAND ROSE	No. 1	1,210	②		I	-	-	115 g	115 g	0.04 m^3	-	-	2.5	2.5	2.5	2.5	3	1	SHRUB
B	5		EUCALYPTUS SIDEROXYLON	RED IRONBARK	No. 5	18	②		II	-	-	230 g	230 g	0.06 m^3	⑥	9	-	4.5	4.5	4.5	5	④	TREE (STANDARD)
	6		GEIJERA PARVIFLORA	AUSTRALIAN WILLOW	No. 5	49	②		II	-	-	230 g	230 g	0.06 m^3	⑥	9	-	3	3	3	3.5	④	SHRUB
	7		LAGERSTROEMIA INDICA 'CHEYENNE'	CRAPE MYRTLE	No. 5	18	②		II	-	-	230 g	230 g	0.06 m^3	⑥	-	3	2	2	2	3	2	DWARF SHRUB FORM
	8		LAGERSTROEMIA INDICA 'MUSKOGEE'	CRAPE MYRTLE	No. 5	60	②		II	-	-	230 g	460 g	0.06 m^3	⑥	12.5	-	6	6	3	3.5	④	TREE (MULTI-TRUNK)
	9		LAGERSTROEMIA INDICA 'NACHEZ'	CRAPE MYRTLE	No. 5	37	②		II	-	-	230 g	460 g	0.06 m^3	⑥	12.5	-	6	6	3	3.5	④	TREE (MULTI-TRUNK)
	10		PINUS CANARIENSIS	CANARY ISLAND PINE	No. 5	24	②		II	-	-	230 g	230 g	0.06 m^3	⑥	9	-	6	6	3	3.5	④	TREE (STANDARD)
	11		PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	No. 5	22	②		II	-	-	230 g	230 g	0.06 m^3	⑥	12.5	-	6	6	3	3.5	④	TREE (STANDARD)
F	12		HEDERA CANARIENSIS	ALGERIAN IVY	IN FLATS	116,889	②		-	-	-	5 kg/ 100 m^2	5 kg/ 100 m^2	-	-	-	2	2	2	2	2.5	0.4	GROUND COVER
	13		LANTANA MONTEVIDENSIS 'ALBA'	WHITE LANTANA	IN FLATS	5,037	②		-	-	-	5 kg/ 100 m^2	5 kg/ 100 m^2	-	-	-	2	2	2	2	2.5	1	GROUND COVER
	14		LANTANA 'RADIATION'	LANTANA	IN FLATS	1,422	②		-	-	-	5 kg/ 100m^2	5 kg/ 100m^2	-	-	-	2	2	2	2	2.5	1	GROUND COVER
	15		LANTANA 'SPREADING SUNSET'	LANTANA	IN FLATS	4,211	②		-	-	-	5 kg/ 100m^2	5 kg/ 100m^2	-	-	-	2	2	2	2	2.5	1	GROUND COVER
H	16		CARPOBROTUS EDULIS	ICE PLANT	CUTTINGS	42,107	⑦		-	-	-	5 kg/ 100 m^2	5 kg/ 100 m^2	-	-	-	2	2	2	2	2.5	0.5	GROUND COVER
U	17		KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	No. 15	25	②		II	-	-	460 g	460 g	0.08 m^3	⑥	9	-	3	3	3	3.5	④	TREE (STANDARD)
V	18		TURF (STOLON)		STOLON (75 mm LENGTH)	144 BUSHELS	-		-	-	-	-	-	-									⑧

APPLICABLE WHEN CIRCLED:

① - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS m^2 APPLICATION RATES
② - SUFFICIENT TO RECEIVE ROOT BALL
3 - DOES NOT APPLY TO MULCH AREAS
④ - AS SHOWN ON PLANS
5 - UNLESS OTHERWISE SHOWN ON PLANS
⑥ - SEE DETAIL
⑦ - SEE STANDARD SPECIFICATIONS
⑧ - SEE SPECIAL PROVISIONS

LEGEND:

Exist PLANTS
MAINTAIN EXISTING PLANTED AREAS
LIMITS OF MULCH (100 mm DEEP)
EROSION CONTROL (TYPE D)
TURF (STOLON)

THIS PLAN ACCURATE FOR PLANTING WORK ONLY.

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATES ABBREVIATIONS USED ON PLANTING PLANS.

PLANT LIST
PL-1

REVISED BY L. RAZO
DATE REVISED 05-04-07
D. SHIRAI
CALCULATED-DESIGNED BY
Y. KIM
CHECKED BY
CONSULTANT SENIOR LANDSCAPE ARCHITECT
T. CHACON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:01

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	484	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
ANTHONY PETER CHACON
No. 1422
Signature
4-30-10
Renewal Date
Date
STATE OF CALIFORNIA

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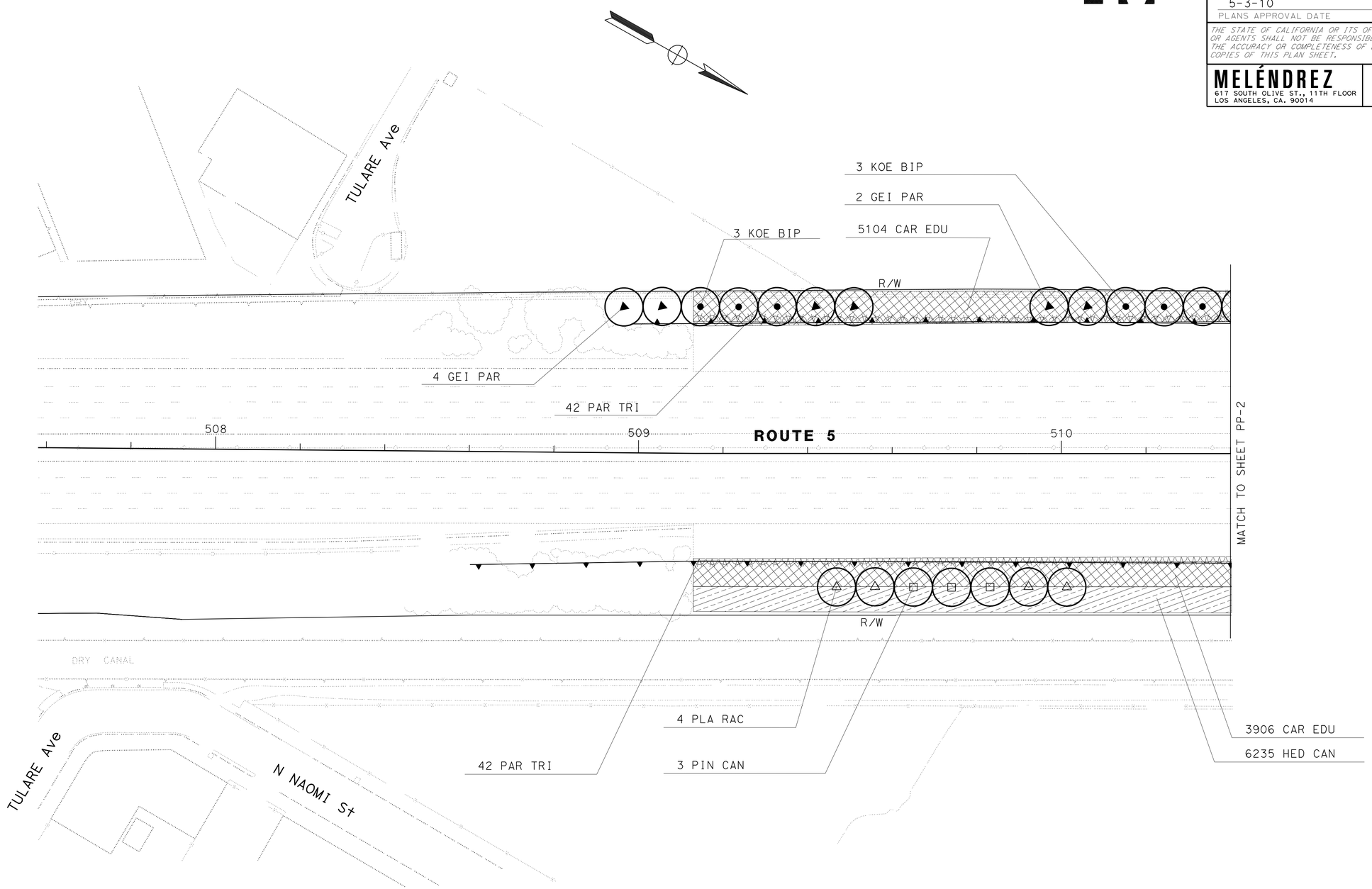

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

PP-1

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON
CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
REVISED BY: L. RAZO
DATE REVISED: 05-04-07

LAST REVISION 00-00-00
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Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

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ANTHONY PETER CHACON
No. 1422
Signature
4-30-10
Renewal Date
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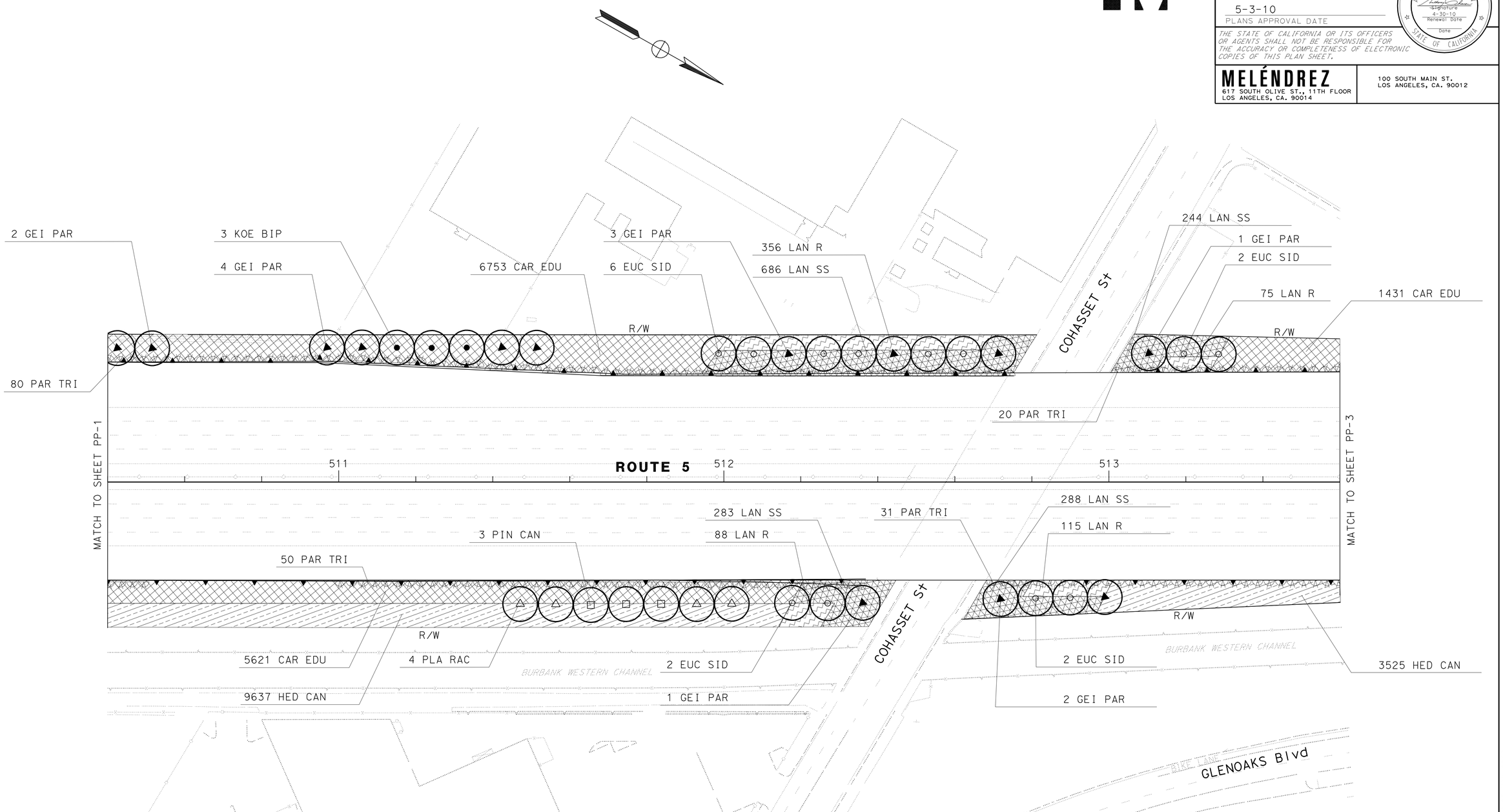

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

PP-2

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON
CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
REVISED BY: L. RAZO
DATE REVISED: 05-04-07

LAST REVISION: 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:01

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Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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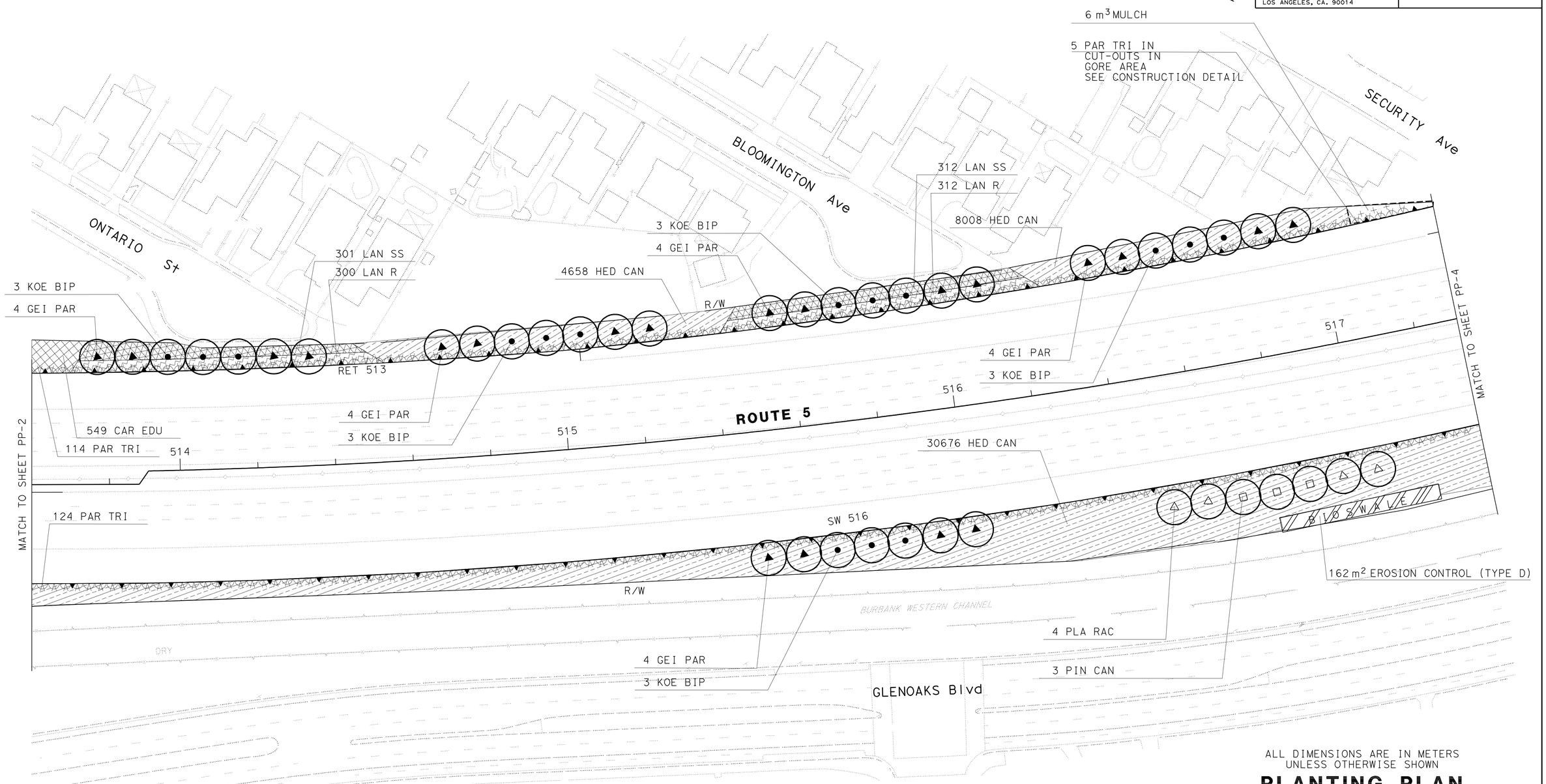

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

PP-3

REVISED BY	L. RAZO
DATE REVISED	05-04-07
CALCULATED-DESIGNED BY	D. SHIRAI
CHECKED BY	Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:01

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Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

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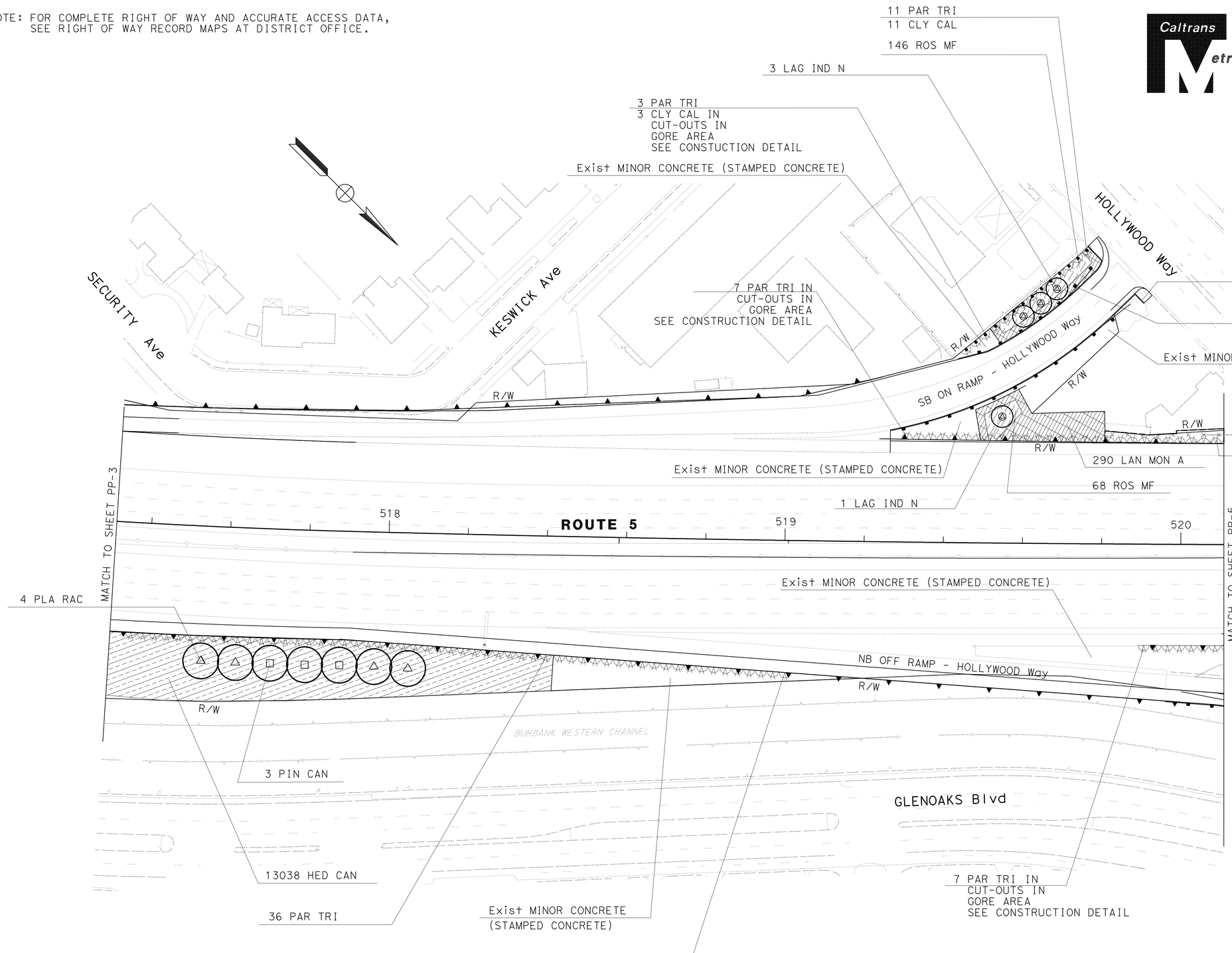

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

ALL DIMENSIONS ARE IN METERS
UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

PP-4

REVISED BY	DATE REVISED
L. RAZO	05-04-07

CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:29

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Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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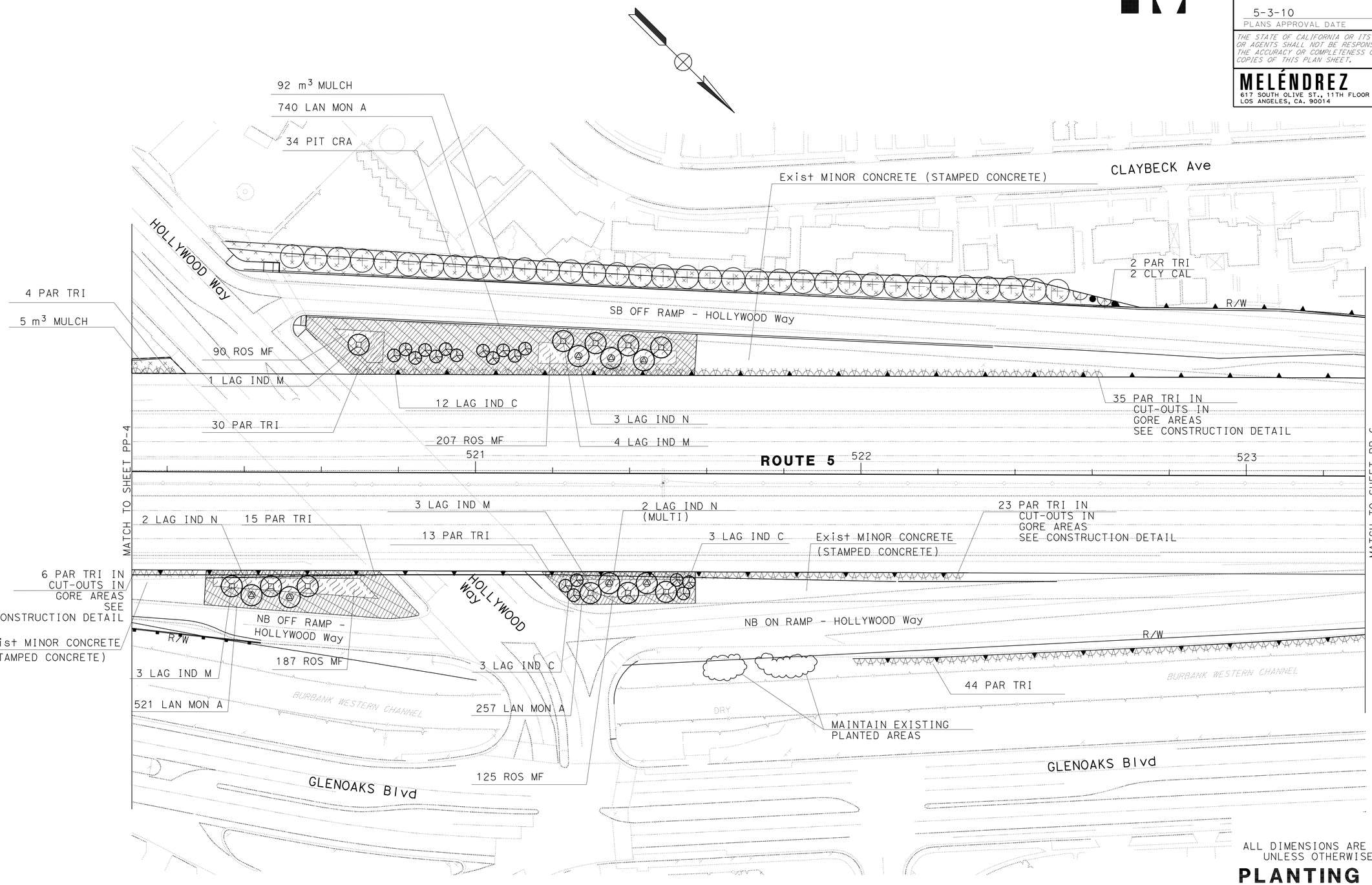

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

PP-5

CALCULATED-DESIGNED BY	D. SHIRAI
CHECKED BY	Y. KIM
REVISED BY	L. RAZO
DATE REVISED	05-04-07

T. CHACON
LANDSCAPE ARCHITECT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
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Caltrans Metric

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LICENSED LANDSCAPE ARCHITECT — ANTHONY PETER CHACON — No. 1422 — Signature — 4-30-10 Renewal Date — Date — STATE OF CALIFORNIA

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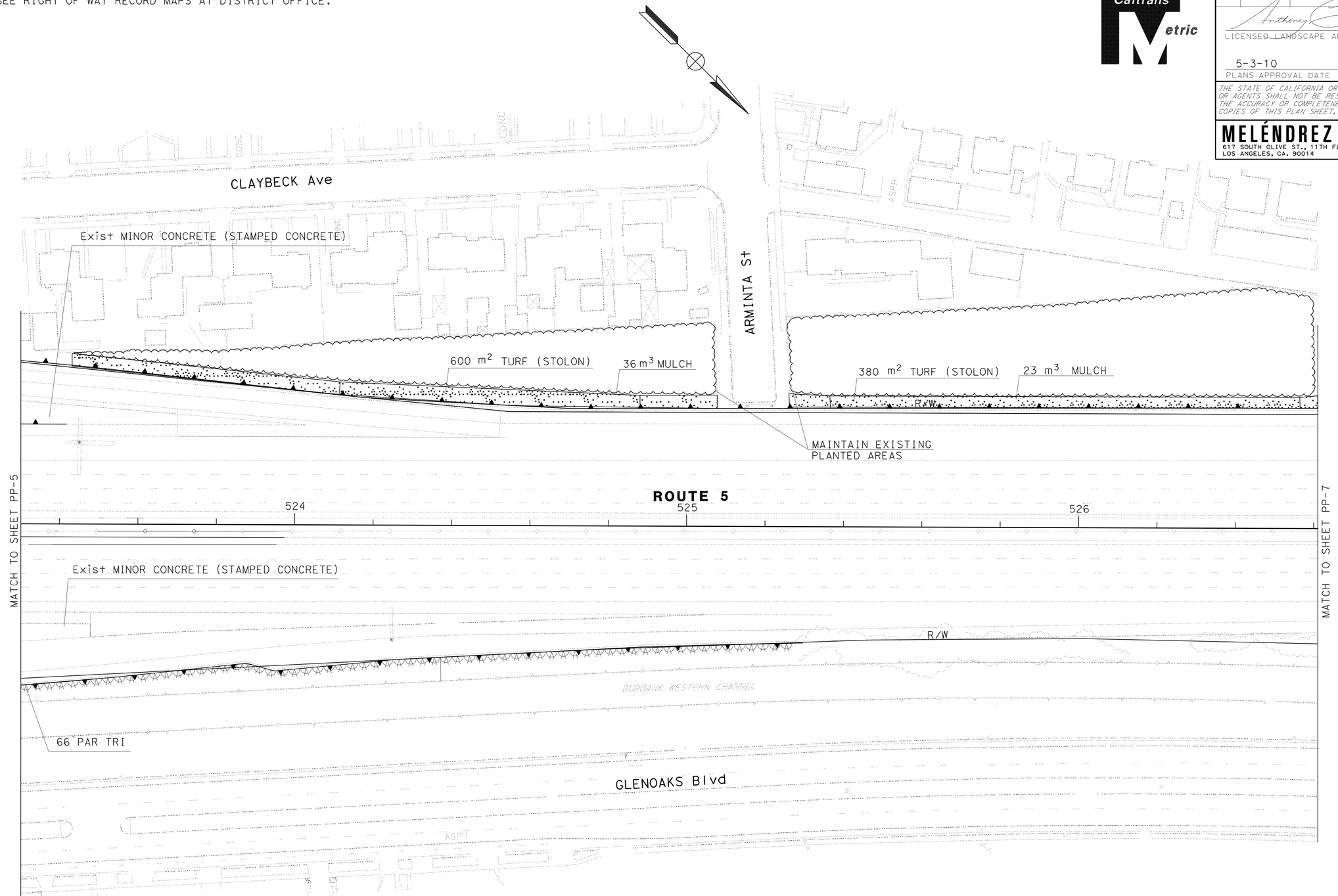

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

PP-6

REVISED BY	L. RAZO
DATE REVISED	05-04-07
CALCULATED-DESIGNED BY	D. SHIRAI
CHECKED BY	Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:29

NOTE: FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	490	868

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MELÉNDREZ
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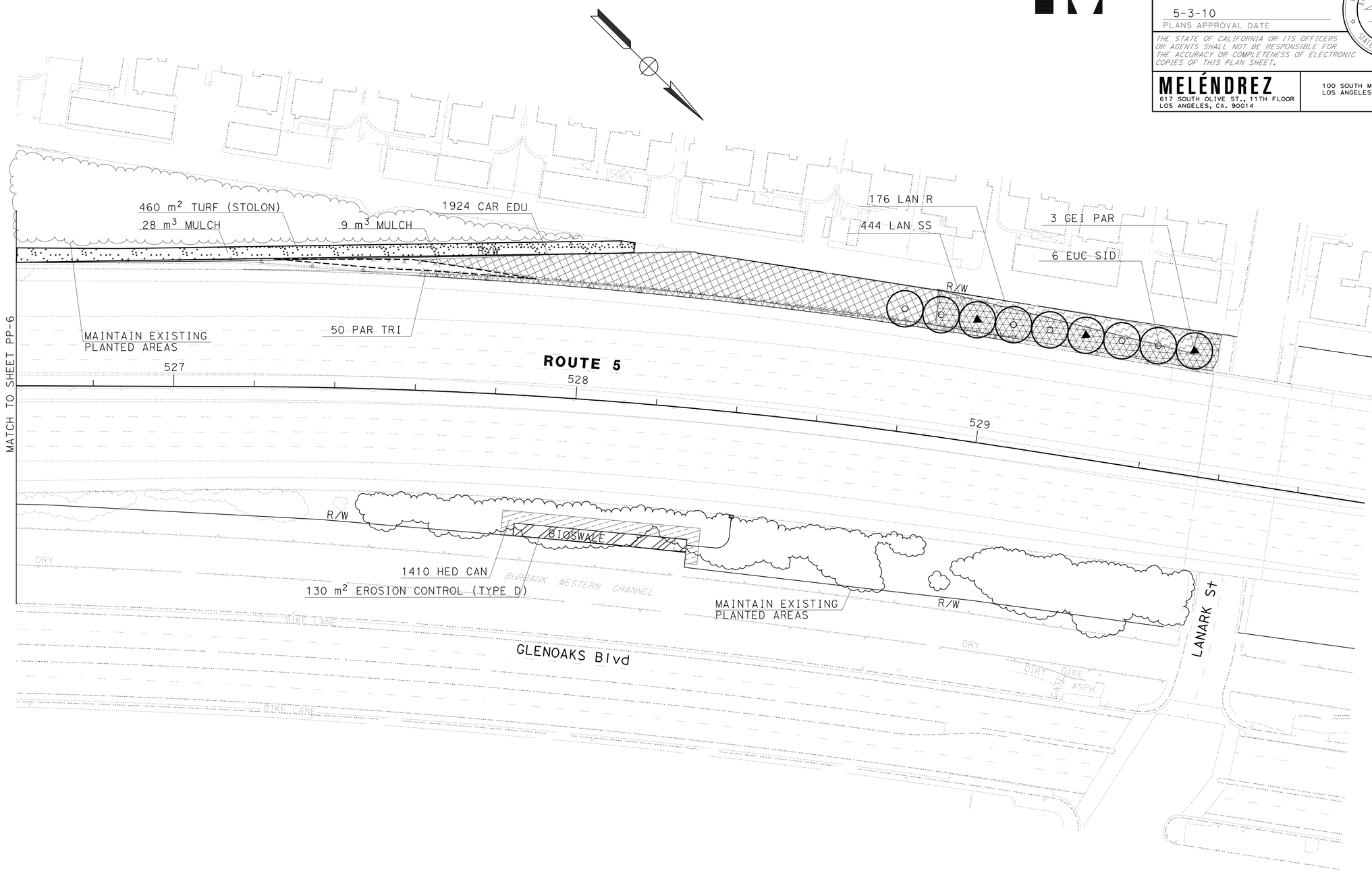
LOS ANGELES, CA. 90014

100 SOUTH MAIN ST.
LOS ANGELES, CA. 90012



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PLANTING PLAN

SCALE 1:500

THIS PLAN ACCURATE FOR PLANTING WORK ONLY

PP-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON
CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
REVISED BY: L. RAZO
DATE REVISED: 05-04-07

LAST REVISION 00-00-00 | DATE PLOTTED => 03-MAY-2010 | TIME PLOTTED => 14:29

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	491	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
ANTHONY PETER CHACON
No. 1422
Signature
4-30-10
Renewal Date
Date
STATE OF CALIFORNIA

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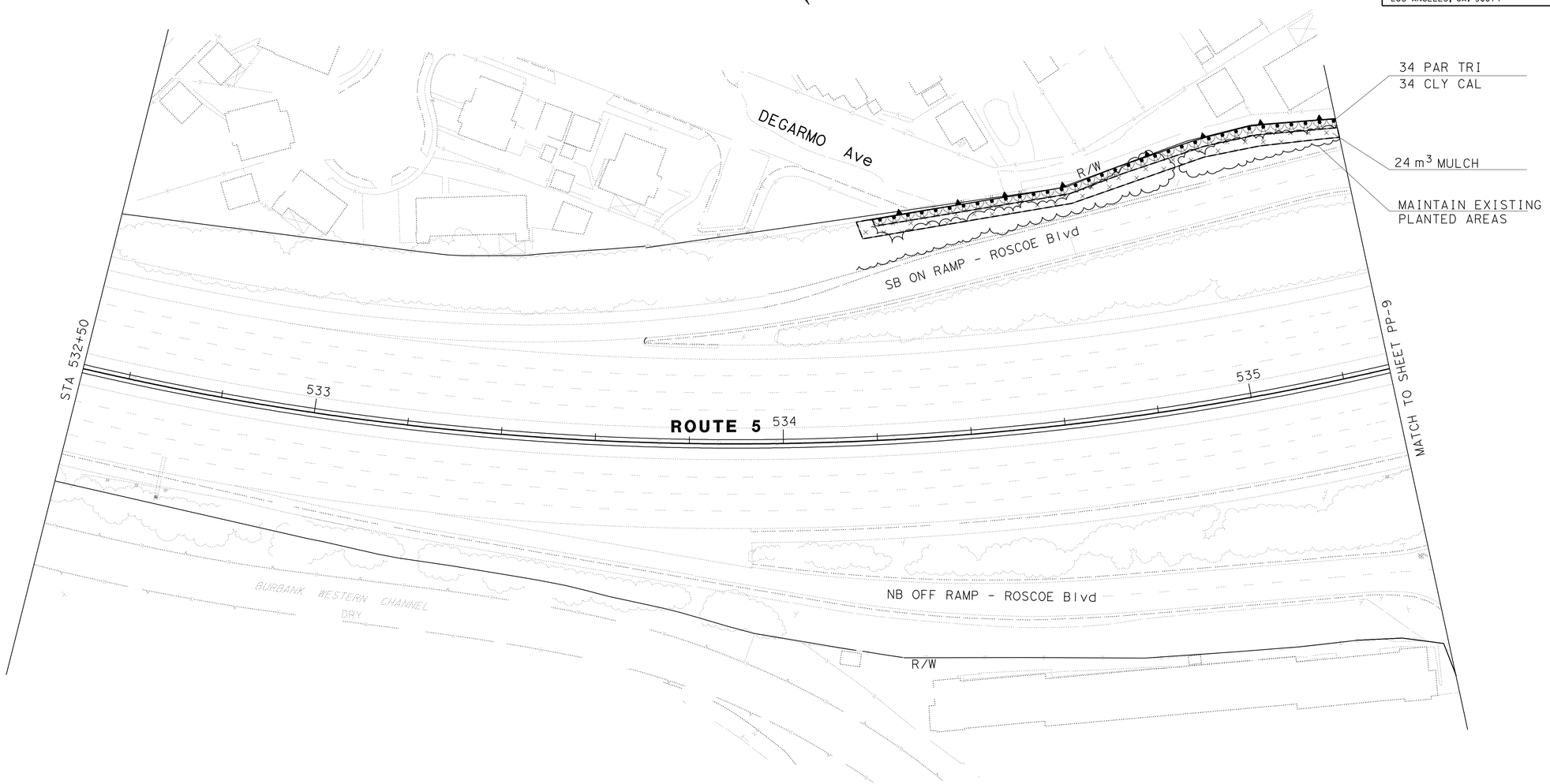

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PLANTING PLAN

SCALE 1:500

PP-8

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Caltrans

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON
CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
REVISED BY: L. RAZO
DATE REVISED: 05-04-07

LAST REVISION 00-00-00
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Caltrans Metric

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07	LA	5	50.8/58.0	492	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
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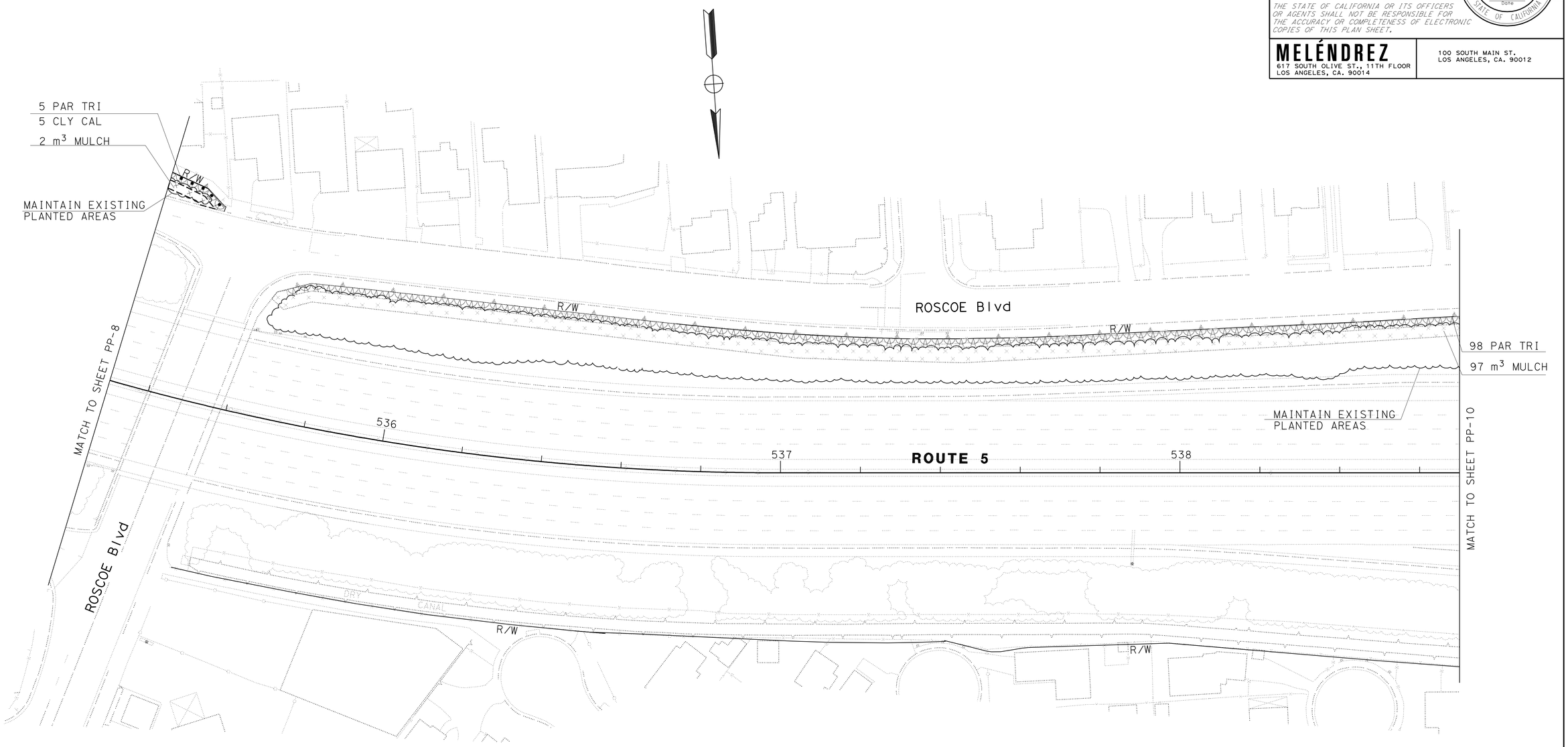

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PLANTING PLAN

SCALE 1:500

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PP-9

REVISED BY	DATE REVISED
L. RAZO	05-04-07

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CHECKED BY: Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON

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Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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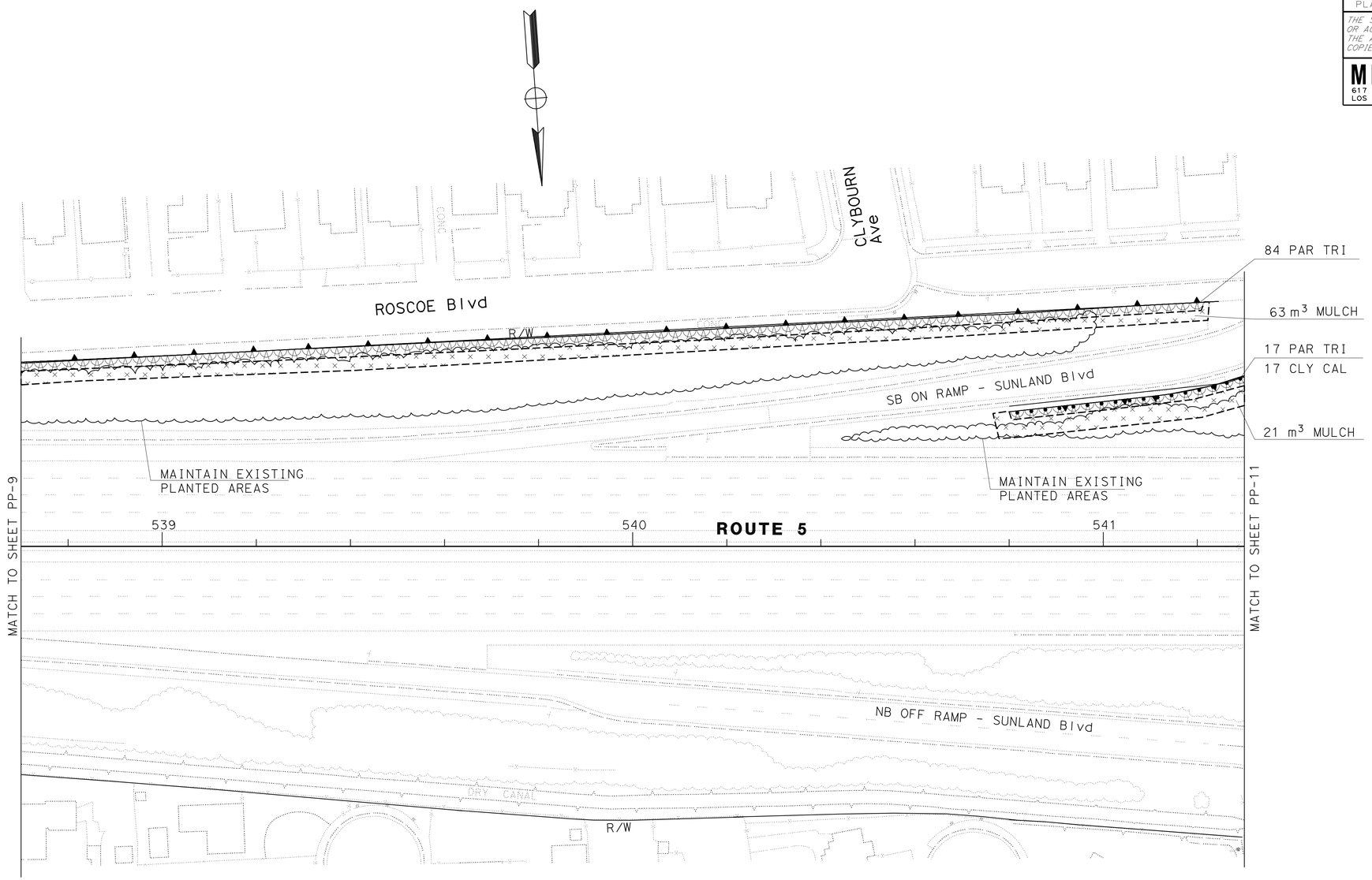

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PLANTING PLAN

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PP-10

REVISED BY	DATE REVISED
L. RAZO	05-04-07

CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON

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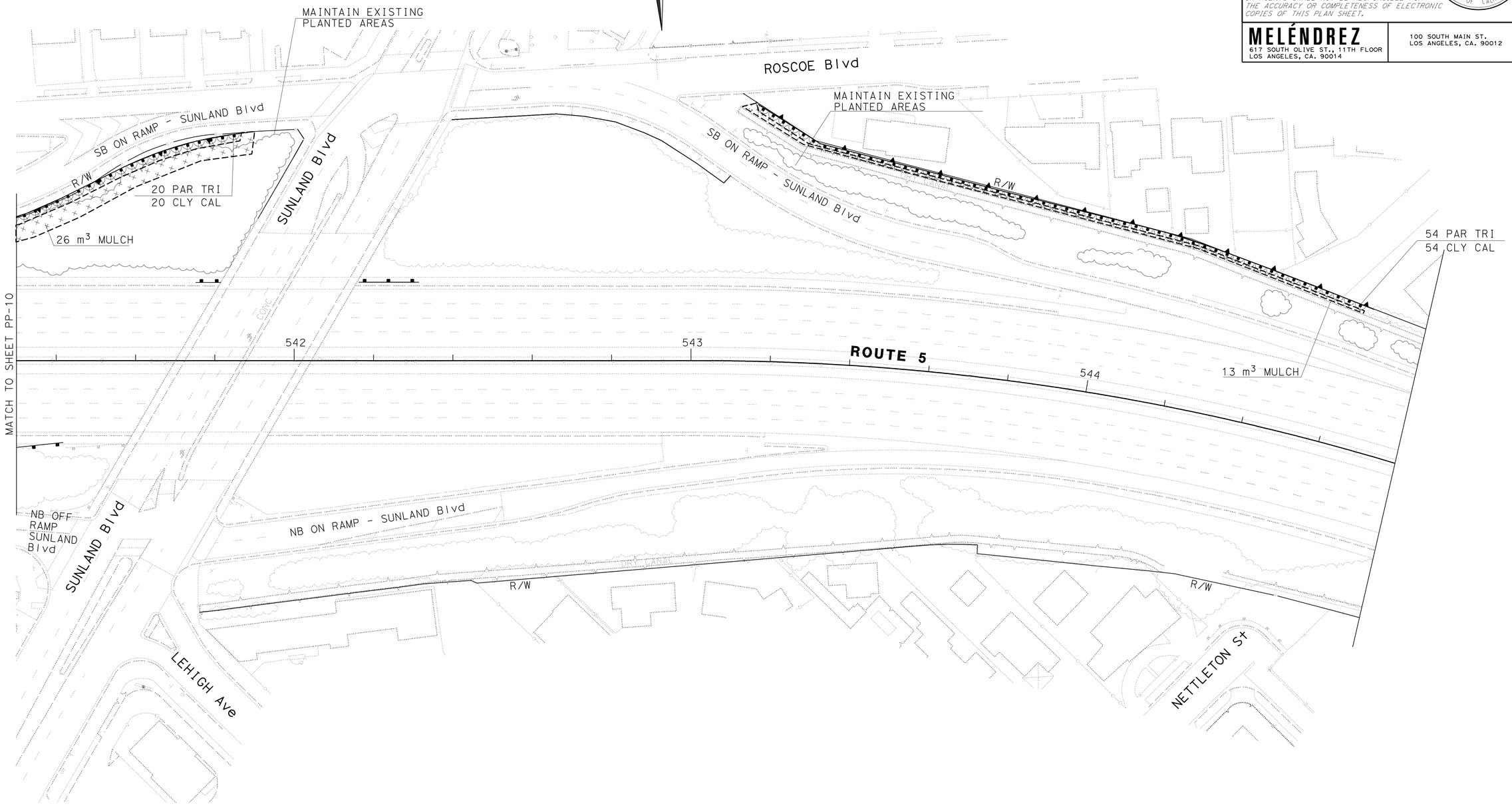

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PLANTING PLAN

SCALE 1:500

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PP-11

REVISED BY	L. RAZO
DATE REVISED	05-04-07
CALCULATED-DESIGNED BY	D. SHIRAI
CHECKED BY	Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	495	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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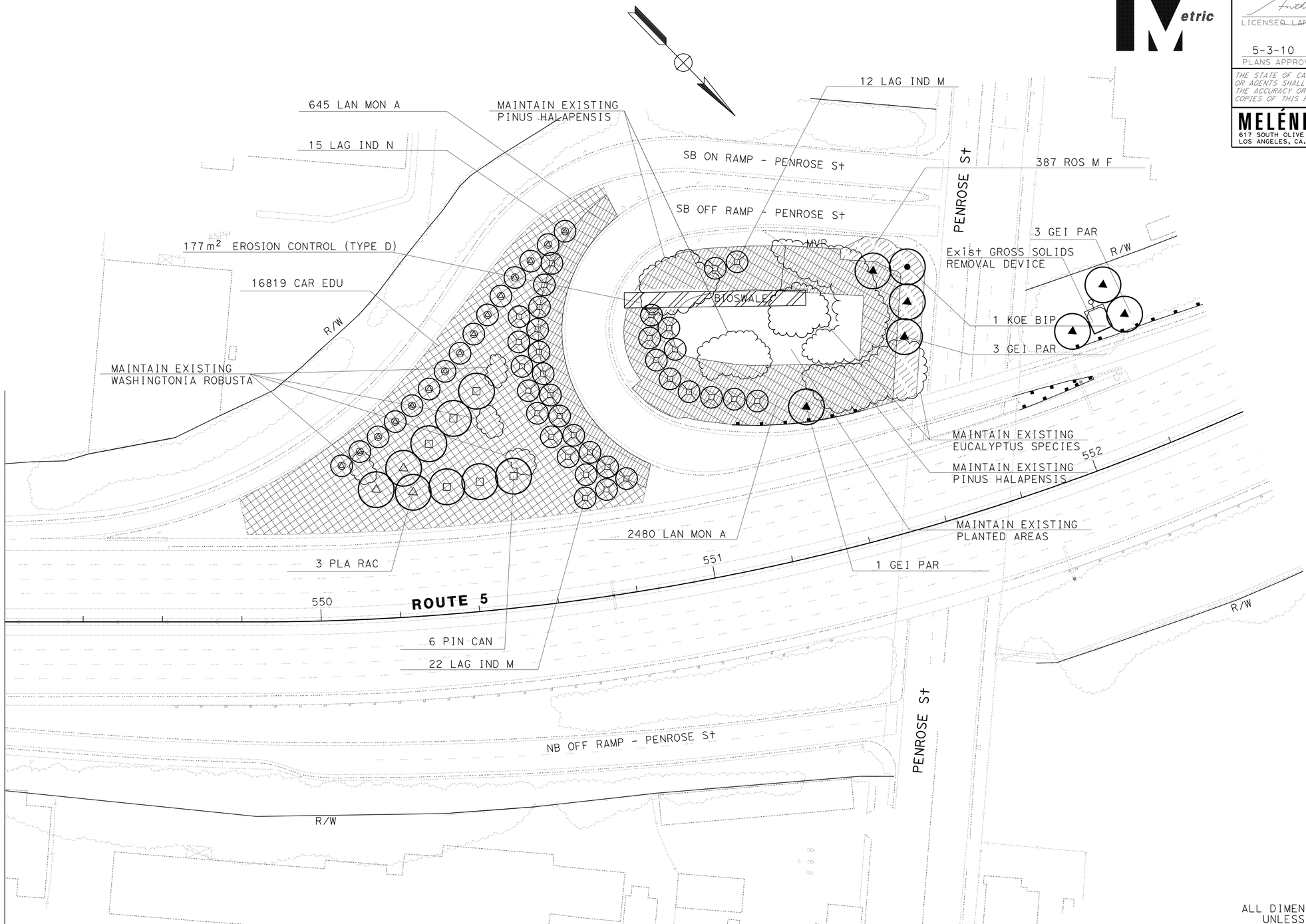

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PLANTING PLAN

SCALE 1:500

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PP-12

REVISED BY	DATE REVISED
L. RAZO	05-04-07

CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	496	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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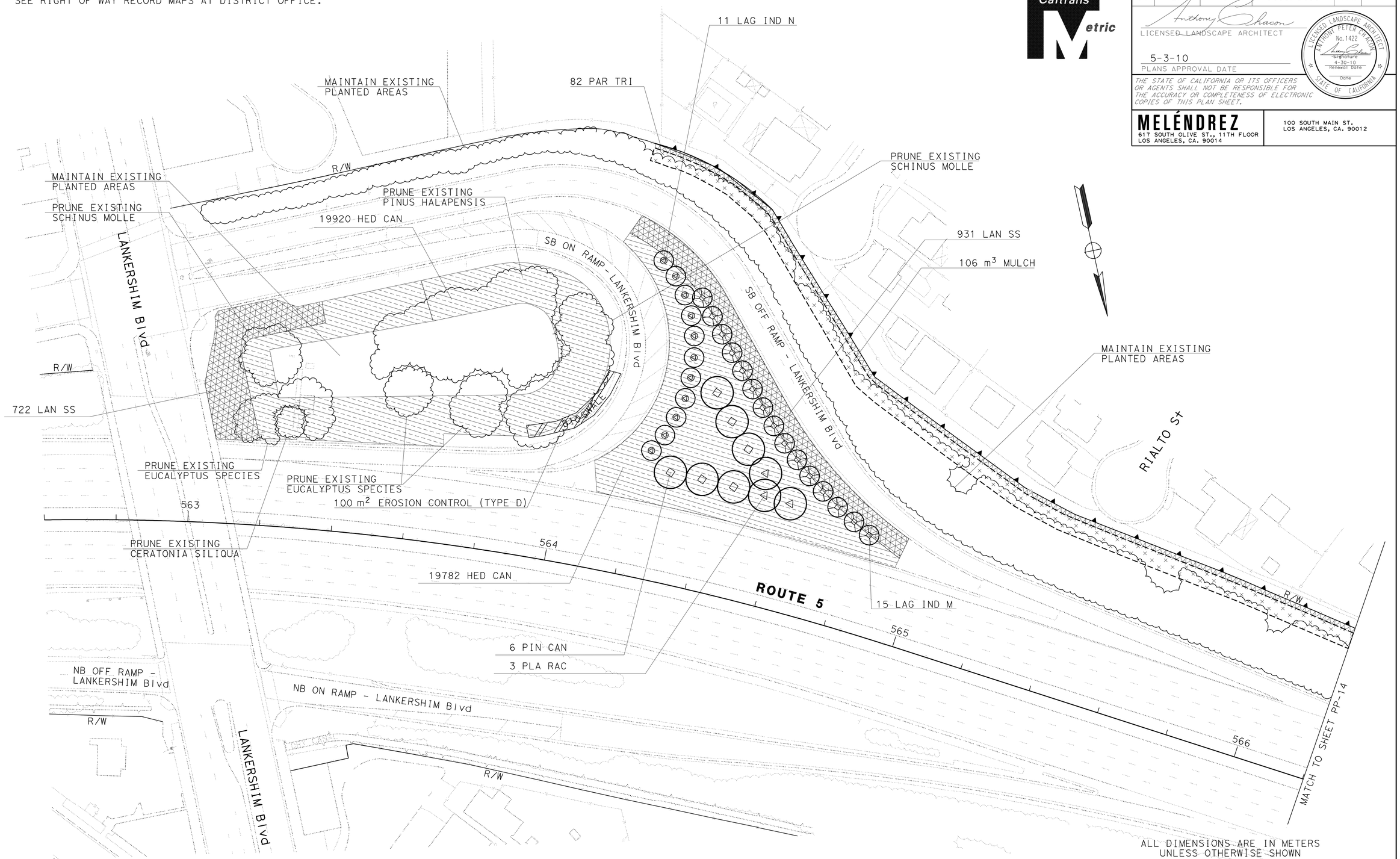

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PLANTING PLAN

SCALE 1:500

PP-13

REVISED BY	L. RAZO	
DATE REVISED	05-04-07	
D. SHIRAI		
Y. KIM		
CALCULATED-DESIGNED BY		
CHECKED BY		
CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON	

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Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	497	869

LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT ANTHONY PETER CHACON No. 1422 Signature 4-30-10 Renewal Date Date STATE OF CALIFORNIA

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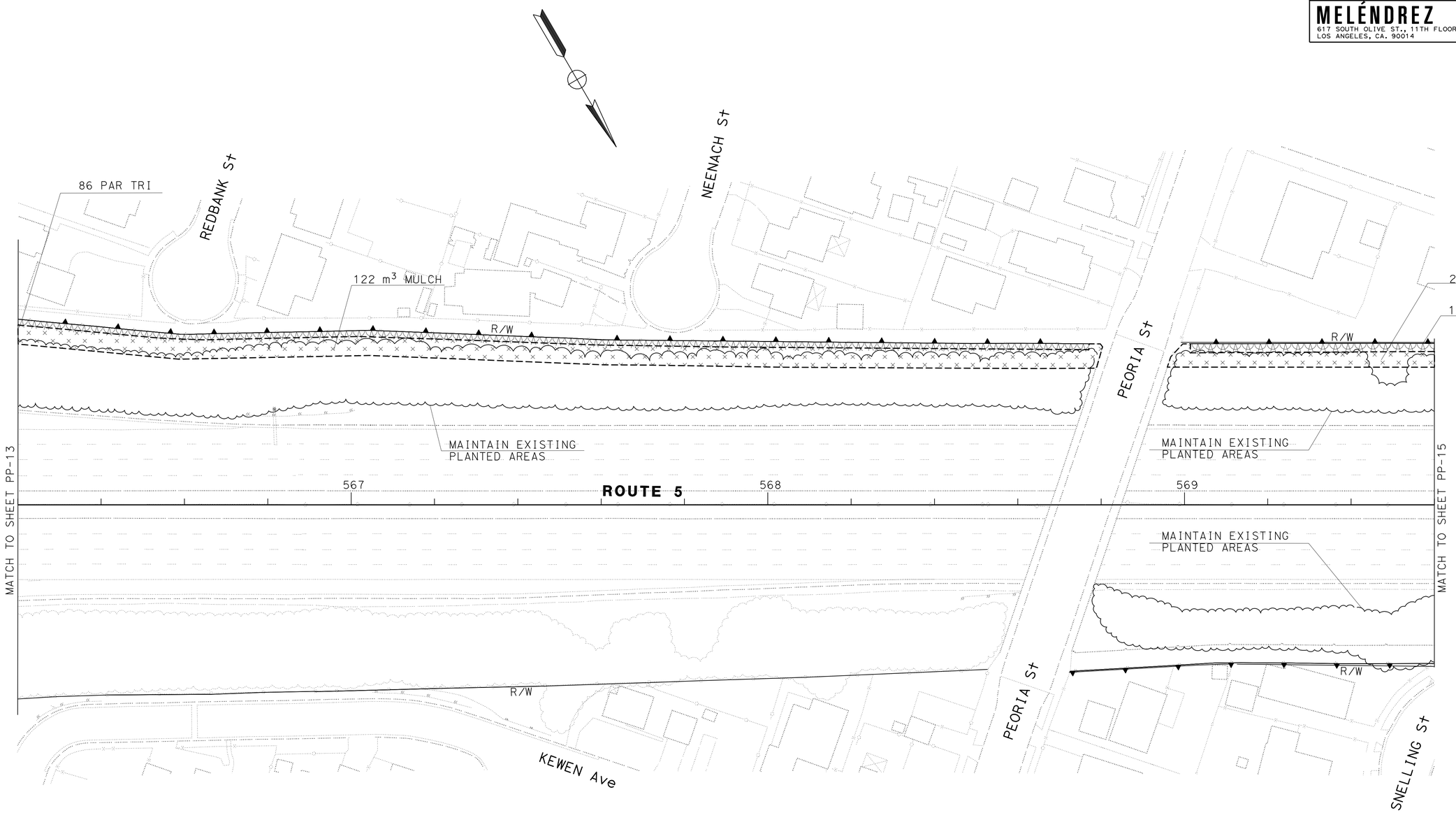

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PLANTING PLAN

SCALE 1:500

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PP-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON

CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM

REVISED BY: L. RAZO
DATE REVISED: 05-04-07

LAST REVISION DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:30
00-00-00

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Caltrans Metric

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	498	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
ANTHONY PETER CHACON
No. 1422
Signature
4-30-10
Renewal Date
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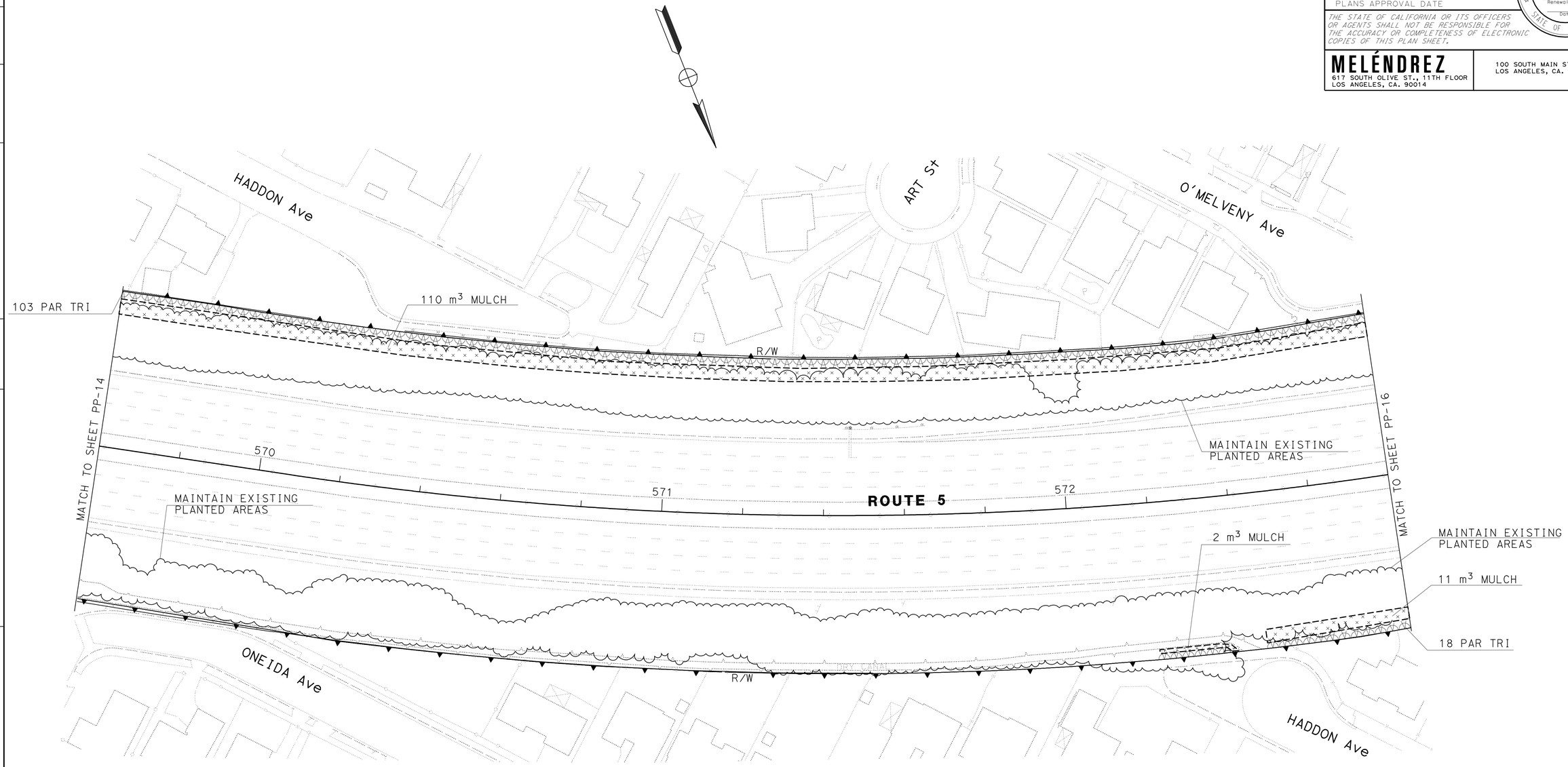

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PLANTING PLAN

SCALE 1:500

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PP-15

REVISED BY	L. RAZO
DATE REVISED	05-04-07
CALCULATED-DESIGNED BY	D. SHIRAI
CHECKED BY	Y. KIM
CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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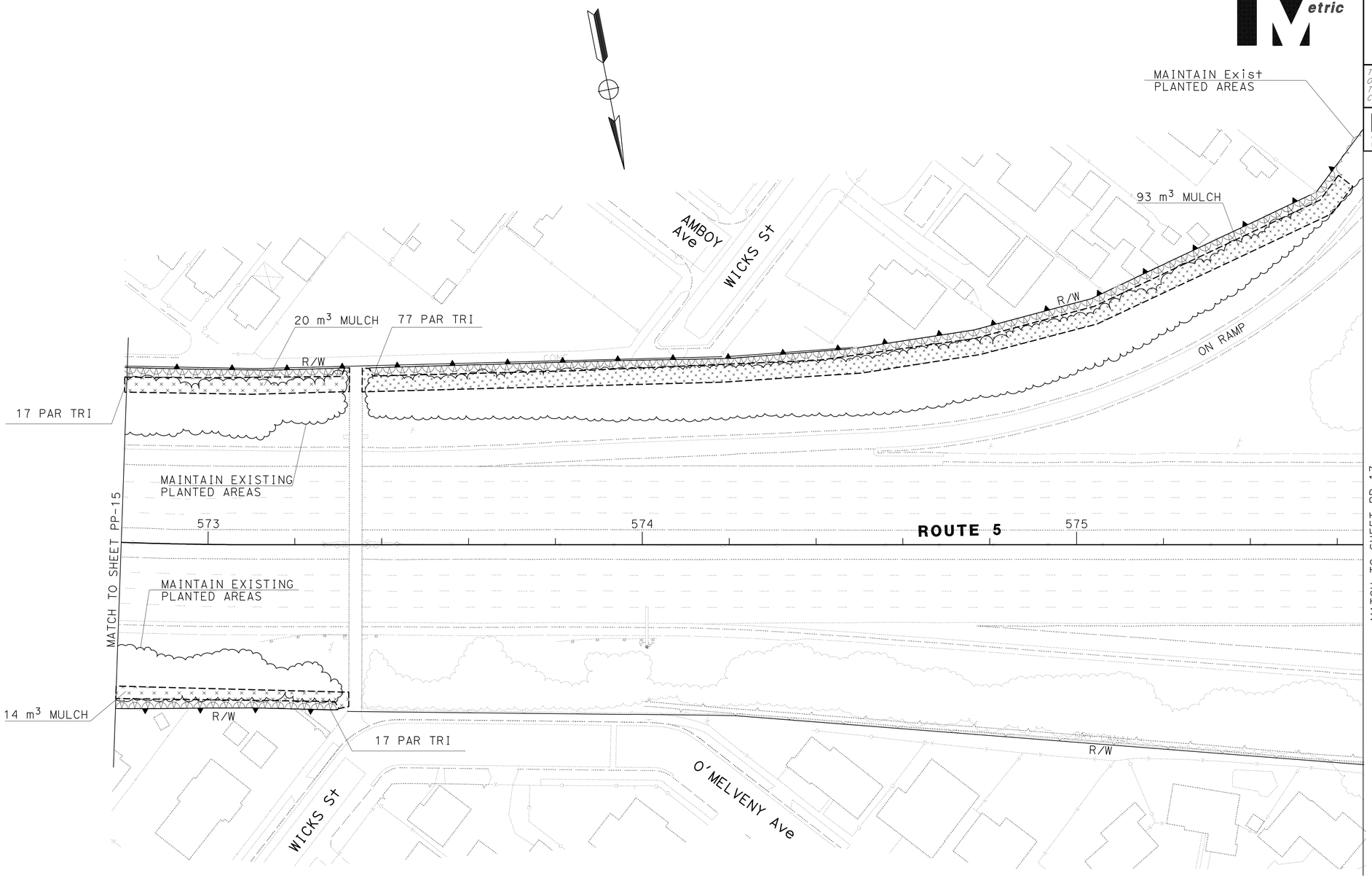

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Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

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CONSULTANT SENIOR LANDSCAPE ARCHITECT: T. CHACON
CALCULATED-DESIGNED BY: D. SHIRAI
CHECKED BY: Y. KIM
REVISED BY: L. RAZO
DATE REVISED: 05-04-07

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PLANTING PLAN

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PP-16

LAST REVISION 00-00-00
DATE PLOTTED => 03-MAY-2010
TIME PLOTTED => 14:30

Dist	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	5	50.8/58.0	500	869

Anthony Chacon
LICENSED LANDSCAPE ARCHITECT

5-3-10
PLANS APPROVAL DATE

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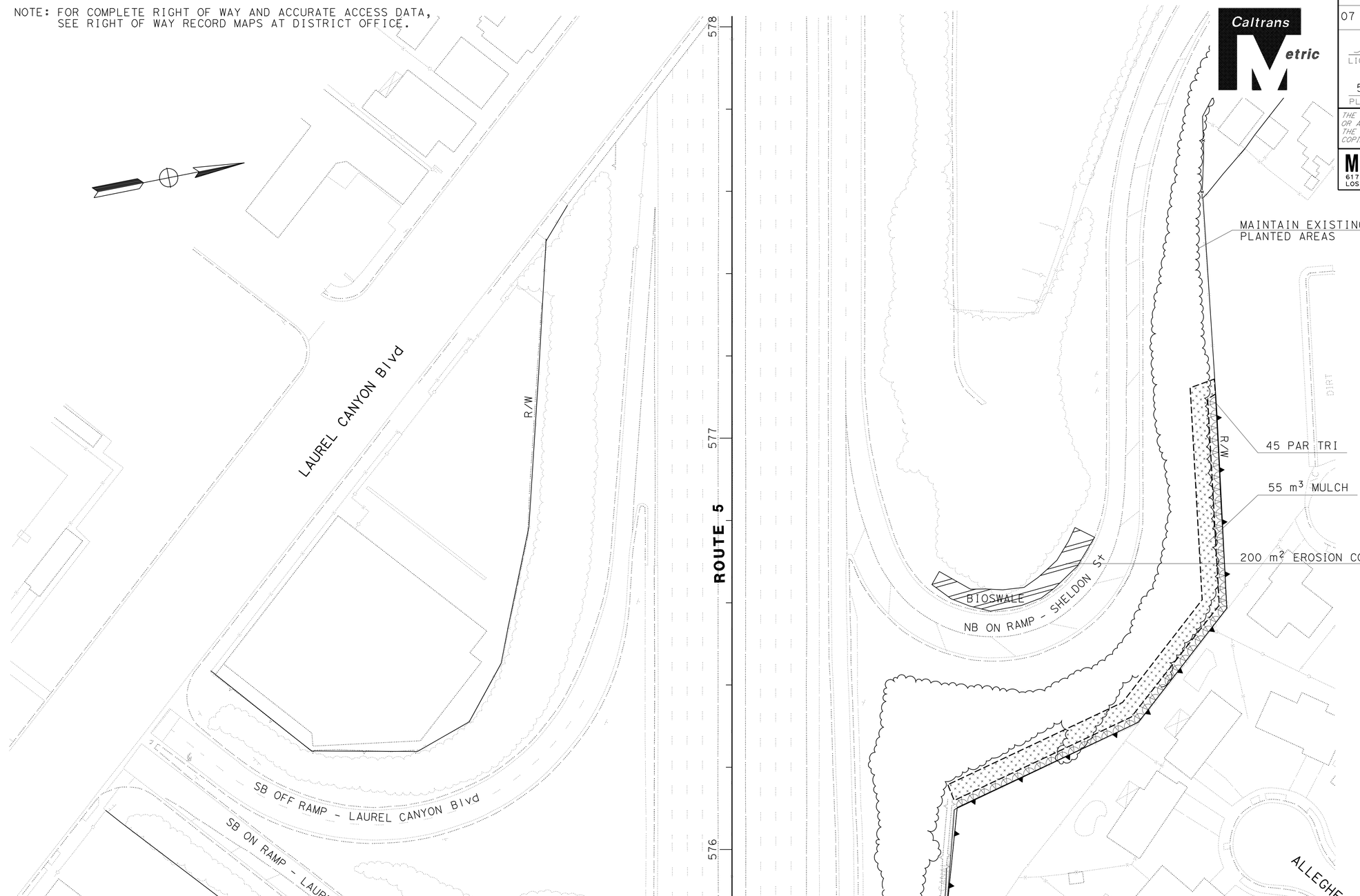

MATCH TO SHEET PP-16

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

PLANTING PLAN

SCALE 1:500

PP-17

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REVISED BY	L. RAZO
DATE REVISED	05-04-07
CALCULATED-DESIGNED BY	D. SHIRAI
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CONSULTANT SENIOR LANDSCAPE ARCHITECT	T. CHACON

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