Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	3	80

Bang H Nguyen 06-28-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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

NOTES:

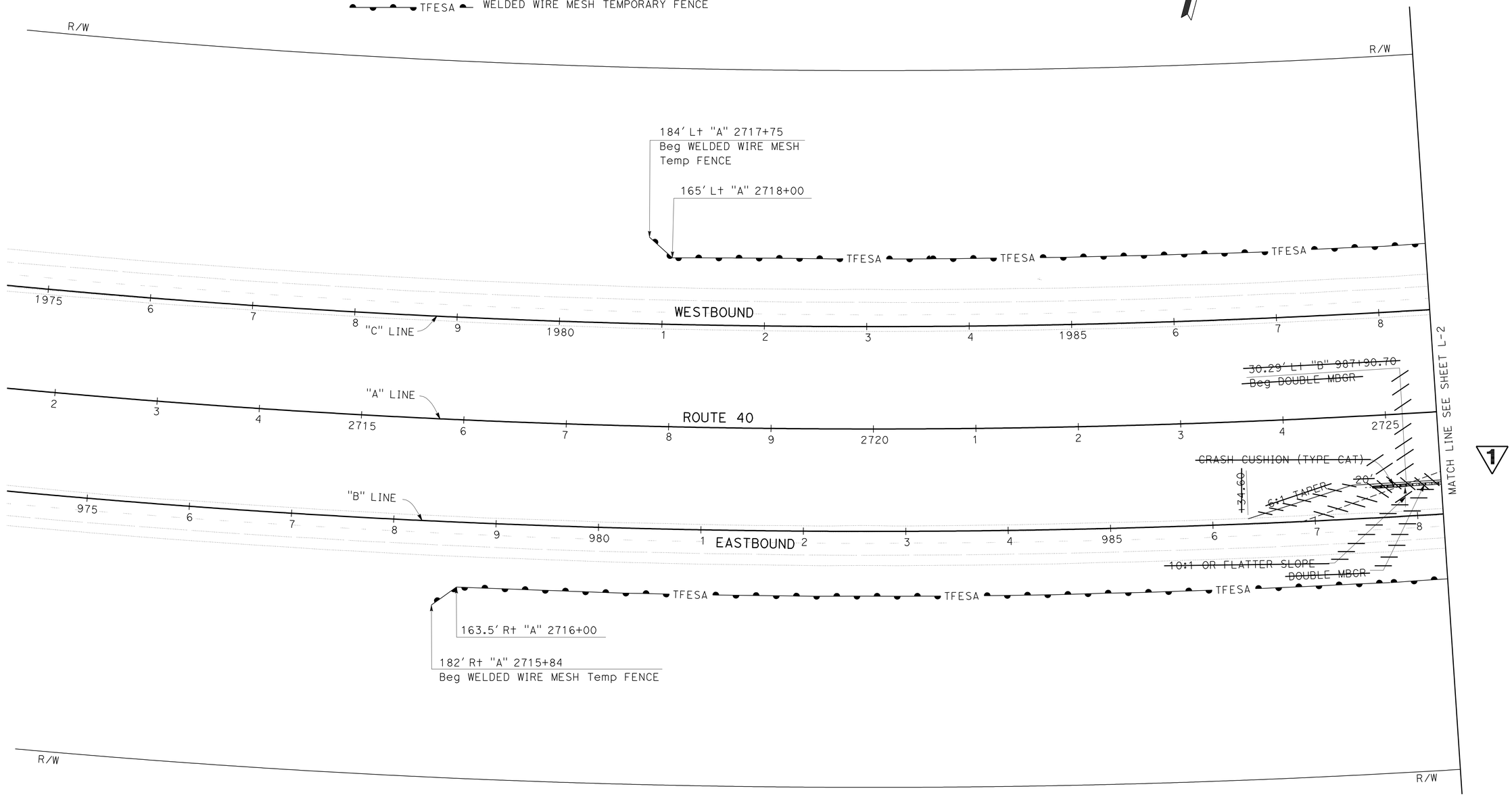
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGENDS:

- # PAVEMENT STRUCTURE TYPE, SEE Sht X-1
- (X) CURVE No.
- CONCRETED RSP (1/2 T, METHOD B)
- Exist CONCRETED RSP TO REMAIN
- TFESA WELDED WIRE MESH TEMPORARY FENCE

ABBREVIATIONS:

AFTS ALTERNATIVE FLARED TERMINAL SYSTEM
SRS SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

LAYOUT

SCALE: 1" = 50'

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

FUNCTIONAL SUPERVISOR: SON NGUYEN
CALCULATED-DESIGNED BY: BANG NGUYEN
CHECKED BY: LY PHAN
REVISED BY
DATE REVISED

LAST REVISION 06-28-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	4	80

Bang H Nguyen 12-13-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

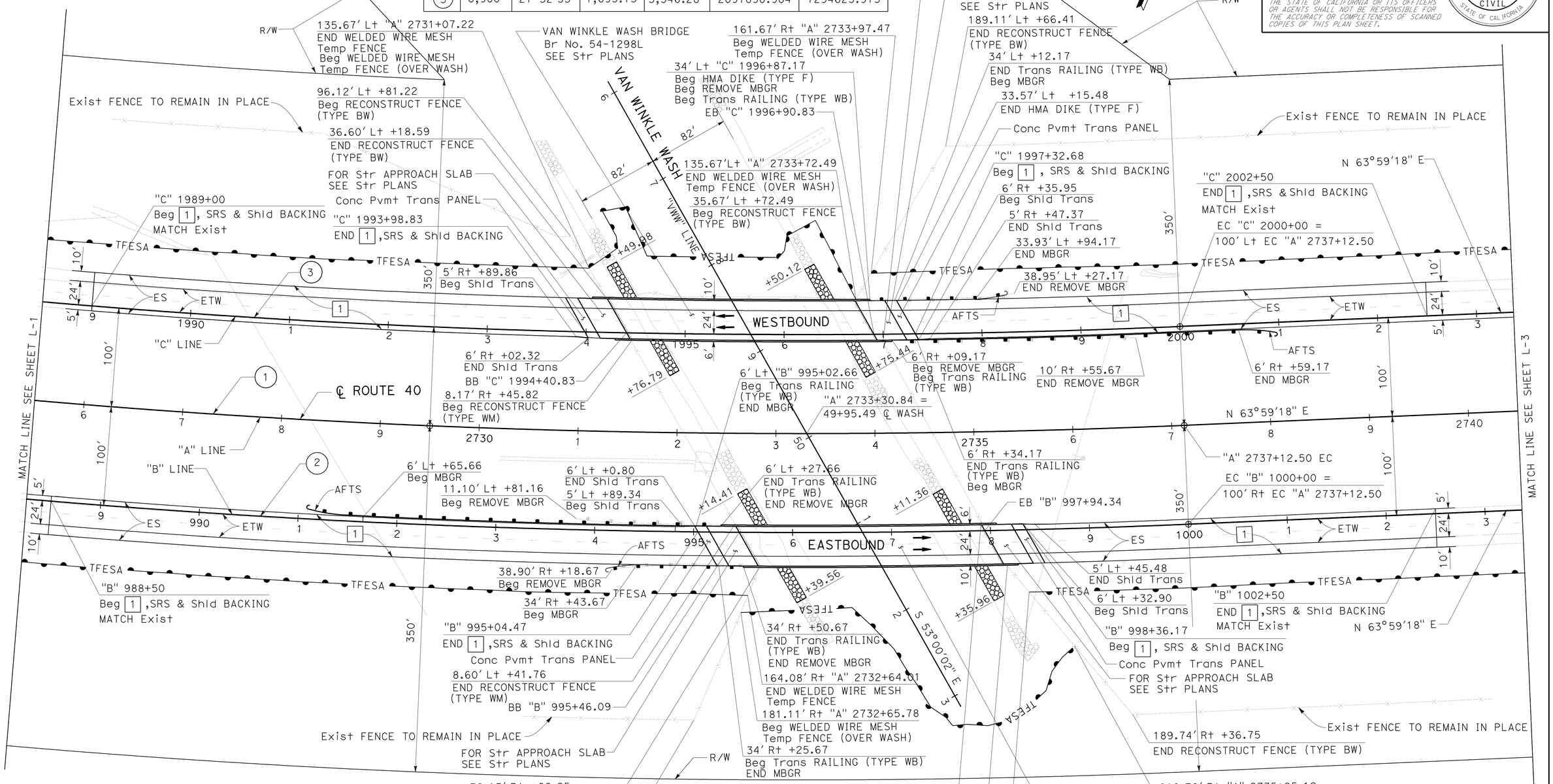
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR CONSTRUCTION ACCESS AND LIMITS OF WELDED WIRE MESH TEMPORARY FENCE WITHIN VAN WINKLE WASH, SEE SHEET C-5.

CURVE DATA

No.	R	Δ	T	L	N	E
1	9,000′	21°32′33″	1,712.30′	3,383.88′	2097792.771	7294650.732
2	9,100′	21°32′33″	1,731.18′	3,421.48′	2097694.557	7294677.489
3	8,900′	21°32′33″	1,693.13′	3,346.28′	2097890.984	7294623.973



LAYOUT

SCALE: 1" = 50′

L-2

1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: SON NGUYEN
CALCULATED-DESIGNED BY: BANG NGUYEN
CHECKED BY: LY PHAN
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	5	80

Bang H Nguyen 04-16-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BANG H. NGUYEN
No. C 46027
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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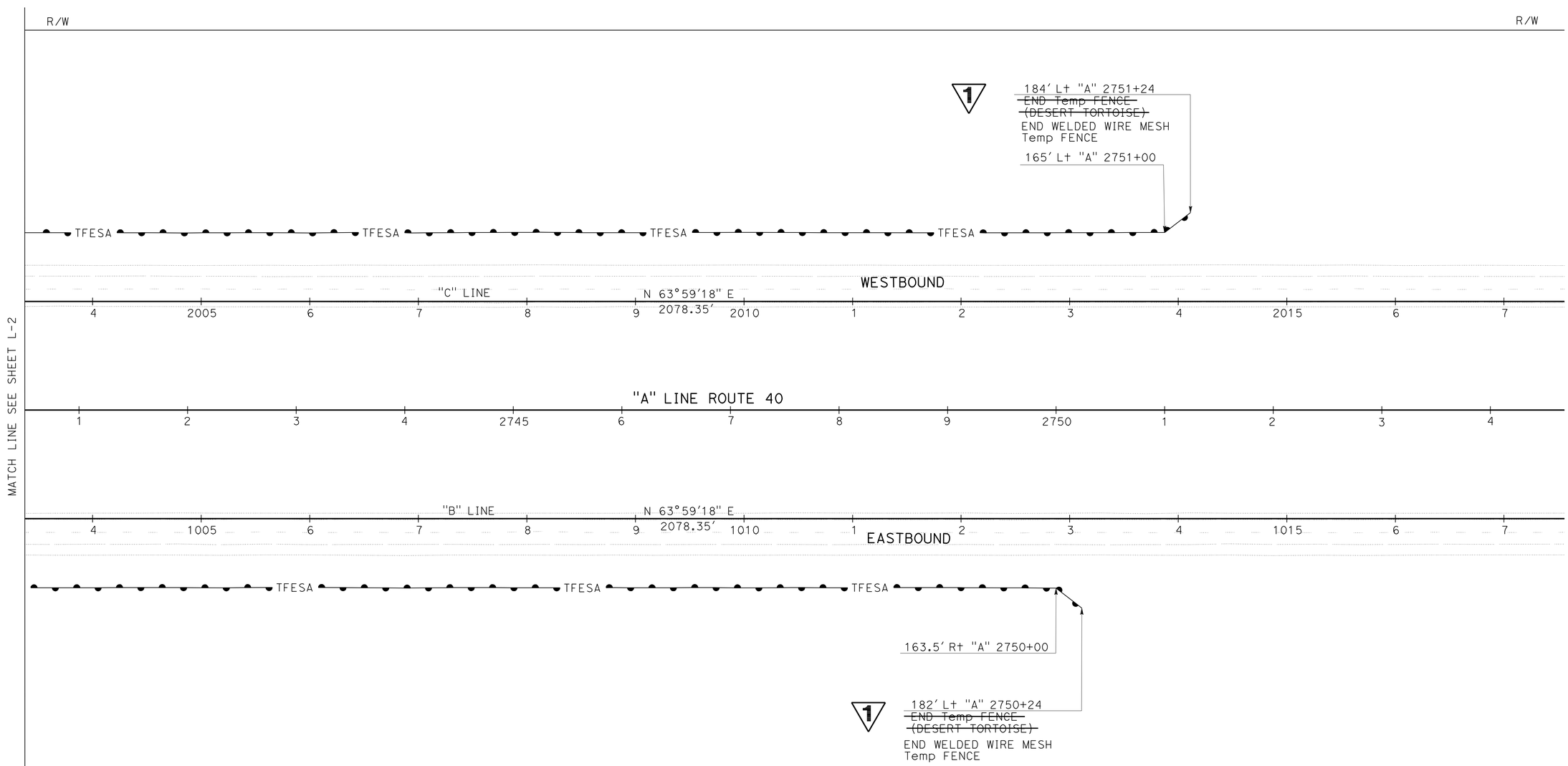
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

LAYOUT

SCALE: 1" = 50'

L-3

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
BANG NGUYEN	LY PHAN

FUNCTIONAL SUPERVISOR: SON NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 03-01-11
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	6	80

REGISTERED CIVIL ENGINEER 06-28-12 DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp 12-31-12 CIVIL STATE OF CALIFORNIA

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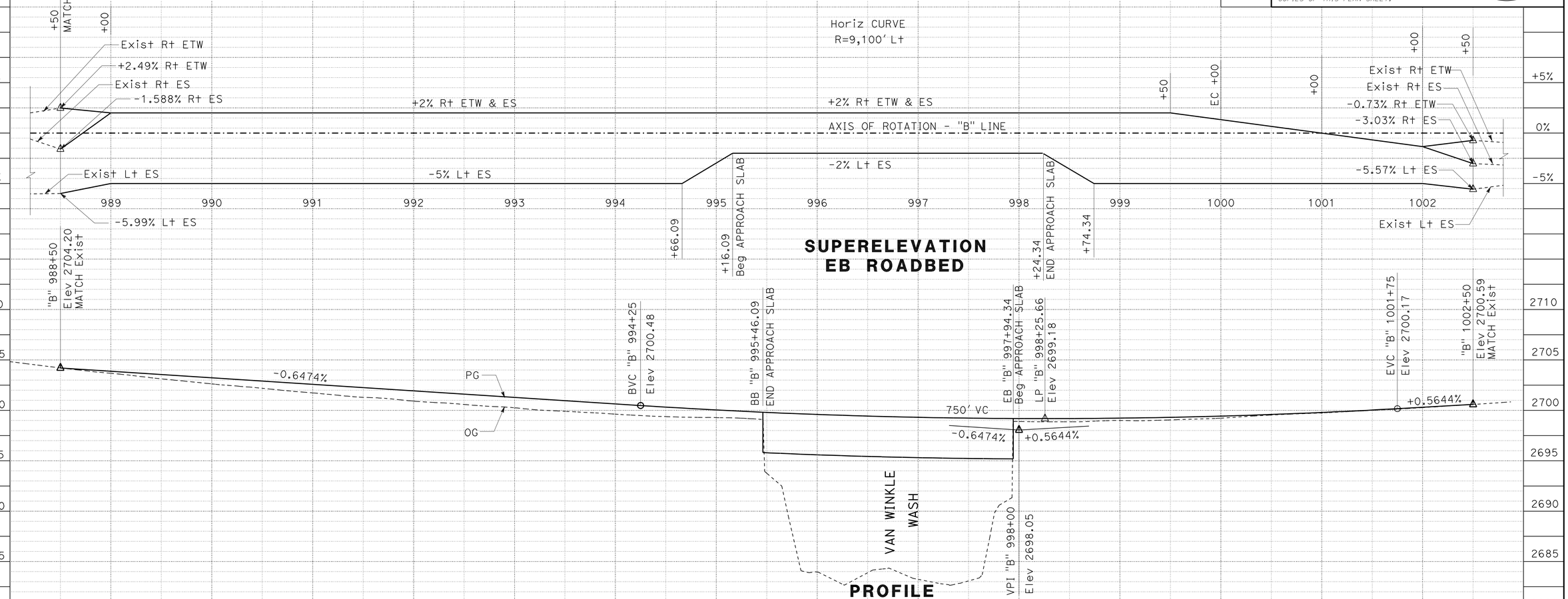
1

LEGEND:

[#] STRUCTURAL SECTION TYPE, SEE Sht X-1

ABBREVIATION:

VPI VERTICAL POINT OF INTERSECTION



PROFILE
"B" LINE
VAN WINKLE WASH BRIDGE
Br No. 54-1298R

Elev 2704.20 (OG)	Elev 2704.20 (PG)
+50 989	Elev 2703.67 Elev 2703.88
+50 990	Elev 2703.12 Elev 2703.55
+50 991	Elev 2702.62 Elev 2703.23
+50 992	Elev 2702.19 Elev 2702.91
+50 993	Elev 2701.73 Elev 2702.58
+50 994	Elev 2701.29 Elev 2702.26
+50 995	Elev 2700.92 Elev 2701.93
+50 996	Elev 2700.59 Elev 2701.61
+50 997	Elev 2700.25 Elev 2701.29
+50 998	Elev 2699.90 Elev 2700.96
+50 999	Elev 2699.62 Elev 2700.64
+50 1.000	Elev 2699.38 Elev 2700.32
+50 1.001	Elev 2699.28 Elev 2700.04
+50 1.002	Elev 2693.76 Elev 2699.79
	Elev 2683.97 Elev 2699.59
	Elev 2683.89 Elev 2699.43
	Elev 2683.24 Elev 2699.31
	Elev 2683.09 Elev 2699.23
	Elev 2698.89 Elev 2699.19
	Elev 2698.86 Elev 2699.19
	Elev 2698.99 Elev 2699.23
	Elev 2699.05 Elev 2699.31
	Elev 2699.23 Elev 2699.43
	Elev 2699.53 Elev 2699.59
	Elev 2699.74 Elev 2699.79
	Elev 2700.00 Elev 2700.03
	Elev 2700.27 Elev 2700.31
	Elev 2700.59 (OG) Elev 2700.59 (PG)

1 **REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'
Vert 1" = 5'

PS-1

STATION		TOTAL
CY	Exc	
	Emb	

REVISED BY | DATE REVISED
BANG NGUYEN | LY PHAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SON NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 06-27-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 10:37

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	11A	80

Bang H Nguyen 12-13-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BANG HAI NGUYEN
No. C46027
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

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1

NOTE:

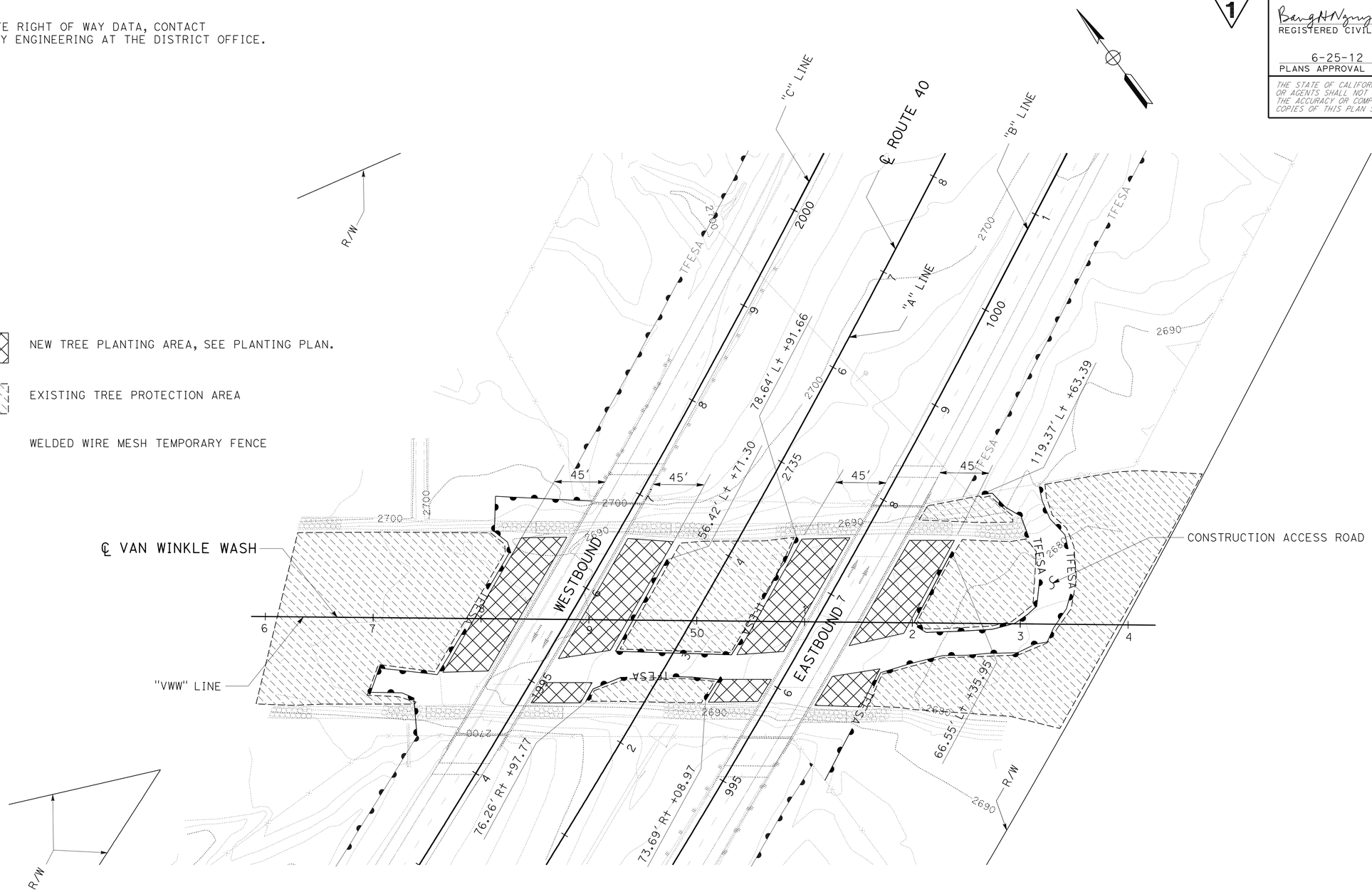
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LEGEND

NEW TREE PLANTING AREA, SEE PLANTING PLAN.

EXISTING TREE PROTECTION AREA

WELDED WIRE MESH TEMPORARY FENCE



1 **ADDED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

CONSTRUCTION DETAILS

(VAN WINKLE WASH) CONSTRUCTION ACCESS AND TEMPORARY FENCE

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: SON NGUYEN
CALCULATED-DESIGNED BY: BANG NGUYEN
CHECKED BY: LY PHAN
REVISED BY
DATE REVISED

LAST REVISION 12-05-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	38	80

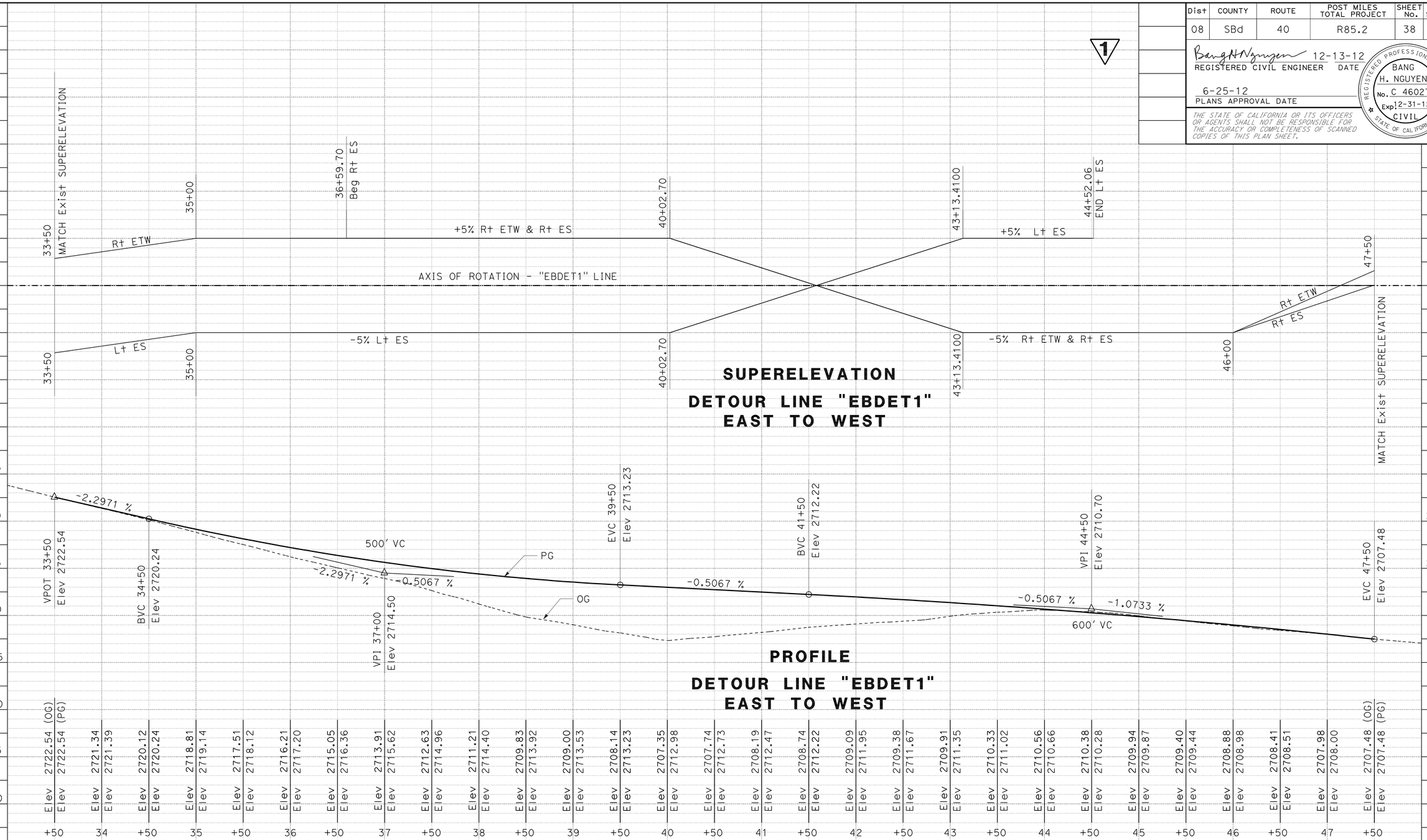
Bang H Nguyen 12-13-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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

1



1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

DETOUR PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'
Vert 1" = 5'

DE-2

STATION		TOTAL
CY	Exc	
	Emb	

REVISED BY | DATE REVISED
BANG NGUYEN | LY PHAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SON NGUYEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:54
LAST REVISION 12-13-12

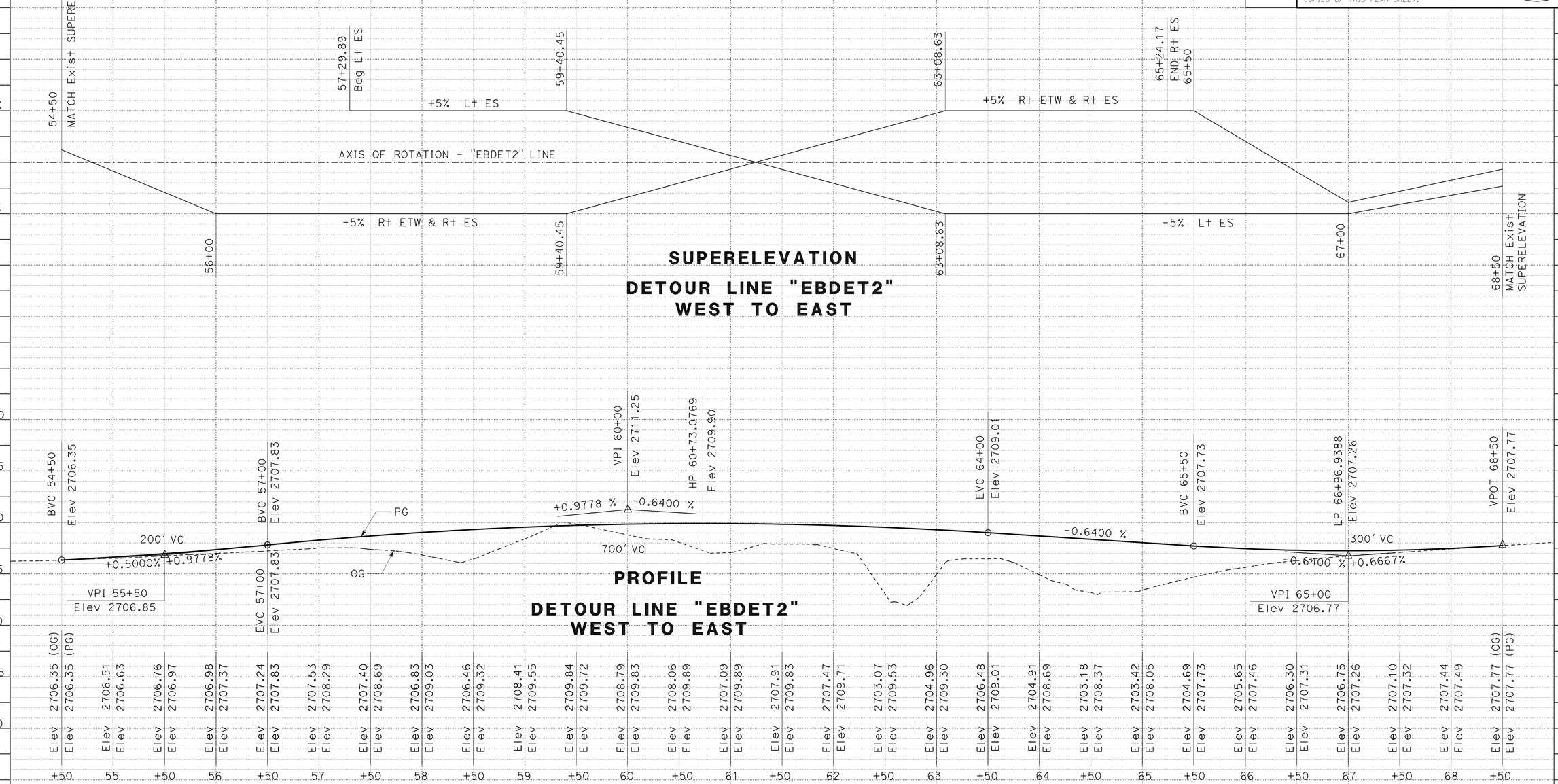
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	40	80

REGISTERED CIVIL ENGINEER 12-13-12 DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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



DETOUR PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'
Vert 1" = 5'

DE-4

1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

STATION		TOTAL
CY	Exc	
	Emb	

REVISED BY | DATE REVISED
BANG NGUYEN | LY PHAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SON NGUYEN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 12-13-12 | DATE PLOTTED => 03-JAN-2013 | TIME PLOTTED => 08:54

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	42	80

Bang H Nguyen 12-13-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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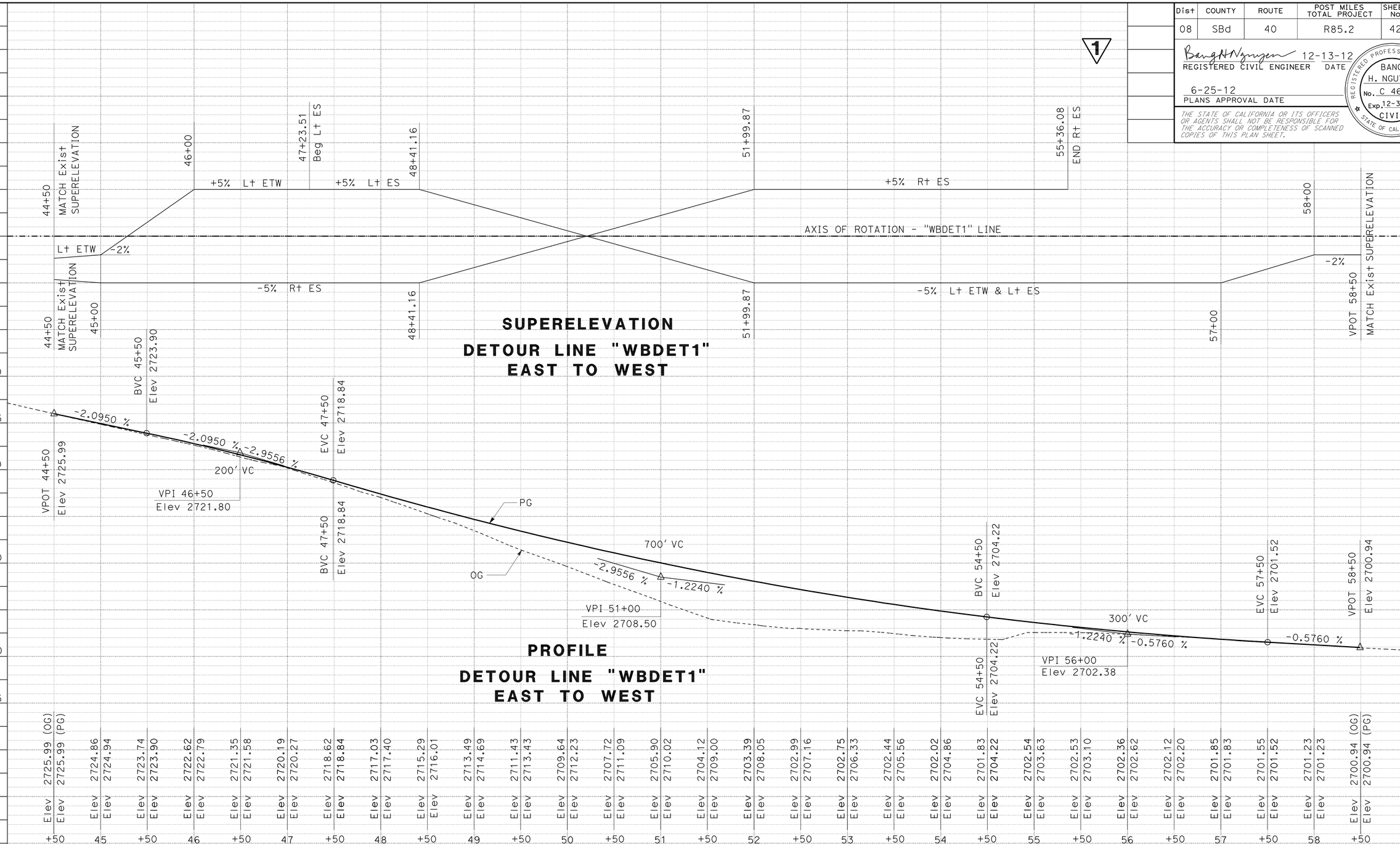
1



DETOUR PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'
Vert 1" = 5'

DE-6

1 **REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

STATION		TOTAL
CY	Exc	
	Emb	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: SON NGUYEN
CALCULATED-DESIGNED BY: BANG NGUYEN
CHECKED BY: LY PHAN
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:55

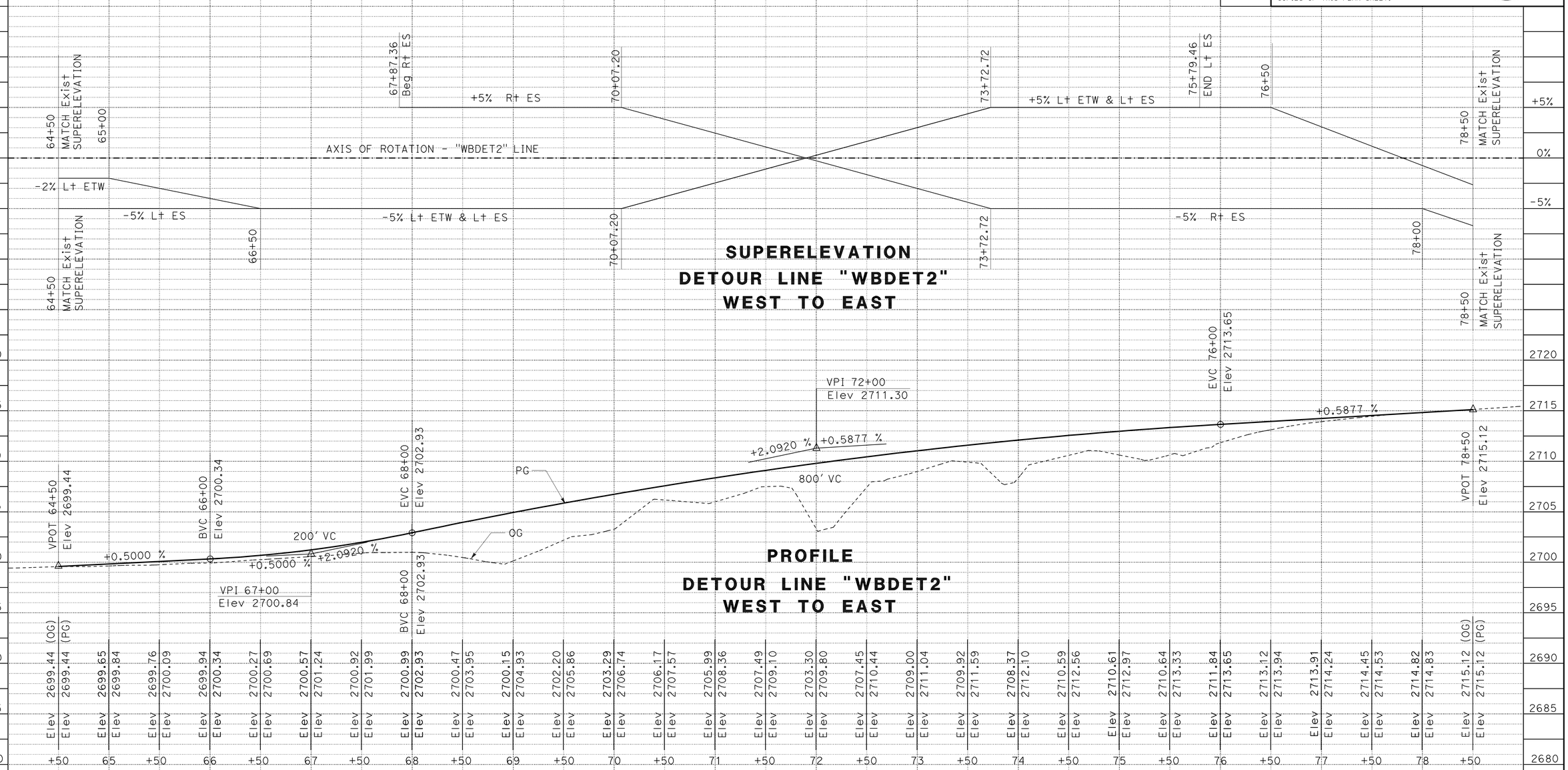
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	44	80

REGISTERED CIVIL ENGINEER 12-13-12 DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

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



DETOUR PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1" = 50'
Vert 1" = 5'

DE-8

1 REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

STATION		TOTAL
CY	Exc	
	Emb	

REVISED BY | DATE REVISED
BANG NGUYEN | LY PHAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SON NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 12-13-12 | DATE PLOTTED => 03-JAN-2013 | TIME PLOTTED => 08:55

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	49	80

Bang H Nguyen 12-13-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp. 12-31-12 CIVIL STATE OF CALIFORNIA

1

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ROADWAY QUANTITIES

SHEET No.	DIRECTION	STATION LIMITS	Pvmt Str Sec Type	HOT MIX ASPHALT (TYPE C)	HOT MIX ASPHALT (TYPE A)	AGGREGATE SUBBASE (CLASS 2)	COLD PLANE AC PAVEMENT	Conc Pvmt Trans PANEL	Shld RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	SHOULDER BACKING	TACK COAT
				TON	TON	CY	SQYD	CY	STA	TON	TON
L-2	EASTBOUND	"B" 988+50 TO "B" 995+04.47	1	1898			220	17.83	6.5	567	1.9
L-2	EASTBOUND	"B" 998+36.17 TO "B" 1002+50	1	555			1763	17.83	4.1	55	0.6
L-2	WESTBOUND	"C" 1989+00 TO "C" 1993+98.83	1	943			220	17.83	5.0	195	0.9
L-2	WESTBOUND	"C" 1997+32.68 TO "C" 2002+50	1	595			2204	17.83	5.2	51	0.6
SC-1, SC-2	EAST TO WEST	"EBDET1" 33+92.67 TO 46+76.33	2		1541	309					1.2
SC-2, SC-3	WEST TO EAST	"EBDET2" 54+89.80 TO 67+59.34	2		1652	331					1.2
SC-10	EAST TO WEST	"WBDET1" 45+01.40 TO 57+93.05	2		1534	308					1.2
SC-11, SC-12	WEST TO EAST	"WBDET2" 65+81.74 TO 78+23.41	2		1577	316					1.2
SC-1		"A" 2711+50.84 TO "A" 2725+50	3		241		1555				0.4
SC-1		"A" 2715+00 TO "A" 2725+50	3		181		1167				0.3
SC-2		"A" 2725+50 TO "A" 2731+30	3		100		644				0.2
SC-2		"A" 2733+90 TO "A" 2739+50	3		97		622				0.2
SC-2		"A" 2725+50 TO "A" 2725+56.31	3		1		7				0.0
SC-3		"A" 2739+50 TO "A" 2754+00	3		250		1611				0.4
SC-3		"A" 2739+50 TO "A" 2753+00	3		233		1500				0.4
		TOTAL		3991	7407	1264	11513	71.3	20.8	868	11
		FROM HMA DIKE ON SHEET Q-2			0.4						
		GRAND TOTAL		3991	7407	1264	11513	71.3	20.8	868	11

EARTHWORK QUANTITIES

SHEET No.	DIRECTION	STATION LIMITS	EMBANKMENT (N)	ROADWAY EXCAVATION	IMPORTED BORROW
			CY	CY	CY
SC-1, SC-2, DE-1	EAST TO WEST	"EBDET1" 33+92.67 TO 46+76.33	3518	306	3212
SC-10	EAST TO WEST	"EBDET1" 33+92.67 TO 46+76.33		3212	
SC-2, SC-3, DE-3	WEST TO EAST	"EBDET2" 54+89.80 TO 67+59.34	3069	322	2747
SC-11, SC-12	WEST TO EAST	"EBDET2" 54+89.80 TO 67+59.34		2747	
SC-10, SC-11, DE-5	EAST TO WEST	"WBDET1" 45+01.40 TO 57+93.05	2151	811	1340
SC-17, SC-18	EAST TO WEST	"WBDET1" 45+01.40 TO 57+93.05		1340	
SC-11,SC-12, DE-7	WEST TO EAST	"WBDET2" 65+81.74 TO 78+23.41	2417	237	2180
SC-18, SC-19	WEST TO EAST	"WBDET2" 65+81.74 TO 78+23.41		2180	
		TOTAL		11155	9479

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

TEMPORARY WATER POLLUTION QUANTITIES

SHEET No.	Temp GRAVEL BAG BERM	Temp Const ENTRANCE	Temp SILT FENCE	Temp FIBER ROLL
	LF	EA	LF	LF
L-2	3095	6	910	640

WELDED WIRE MESH TEMPORARY FENCE

SHEET No.	DIRECTION	STATION LIMITS	SIDE	WELDED WIRE MESH TEMPORARY FENCE (LF)
L-1	EASTBOUND	"A" 2715+84 TO "A" 2716+00	R+	30
		"A" 2716+00 TO "A" 2725+50	R+	950
L-1	WESTBOUND	"A" 2717+75 TO "A" 2718+00	L+	30
		"A" 2718+00 TO "A" 2725+50	L+	750
L-2	EASTBOUND	"A" 2725+50 TO "A" 2732+64.01	R+	714
		"A" 2732+65.78 TO "A" 2735+95.12	R+	432
		"A" 2735+51.80 TO "A" 2740+50	R+	498
L-2	WESTBOUND	"A" 2725+50 TO "A" 2731+07.22	L+	557
		"A" 2731+07.22 TO "A" 2733+72.49	L+	446
		"A" 2733+97.47 TO "A" 2740+50	L+	653
L-3	EASTBOUND	"A" 2740+50 TO "A" 2750+00	R+	950
		"A" 2750+00 TO "A" 2750+24	R+	30
L-3	WESTBOUND	"A" 2740+50 TO "A" 2751+00	L+	1050
		"A" 2751+00 TO "A" 2751+24	L+	30
C-5	VAN WINKLE WASH	"VWW" 48+97.770 TO "VWW" 50+08.97	R+	155
		"VWW" 49+71.30 TO "VWW" 50+91.66	L+	368
		"VWW" 52+35.95 TO "VWW" 52+63.39	L+	368
			TOTAL	8011

1 **REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: SON NGUYEN
CALCULATED-DESIGNED BY: BANG NGUYEN
CHECKED BY: LY PHAN
REVISED BY
DATE REVISED

LAST REVISION 12-13-12
DATE PLOTTED => 03-JAN-2013
TIME PLOTTED => 08:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	50	80

Bang H Nguyen 06-28-12
REGISTERED CIVIL ENGINEER DATE

6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER BANG H. NGUYEN No. C 46027 Exp 12-31-12 CIVIL STATE OF CALIFORNIA

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

REMOVE METAL BEAM GUARDRAILING

SHEET No.	DIRECTION	STATION LIMITS	SIDE	REMOVE MBGR	TREATED WOOD WASTE
				LF	LB
L-2	EASTBOUND	"B" 993+81.16 To "B" 995+27.66	Lt	146.5	2420
L-2	EASTBOUND	"B" 994+18.67 To "B" 995+50.67	Rt	132.0	2190
L-2	WESTBOUND	"C" 1996+87.17 To "C" 1998+27.17	Lt	140.0	2317
L-2	WESTBOUND	"C" 1997+09.17 To "C" 1999+55.67	Rt	246.5	4004
		TOTAL		665	10,931

HOT MIX ASPHALT DIKE

SHEET No.	DIRECTION	STATION LIMITS	SIDE	PLACE HMA DIKE (TYPE F)	HMA (TYPE A)
				LF	TON
L-2	WESTBOUND	"C" 1996+87.17 TO "C" 1997+15.48	Lt	28.3	0.4
		TOTAL		28.3	0.4 *

* : FOR GRAND TOTAL OF HMA (TYPE A), SEE Sht Q-1

METAL BEAM GUARD RAILING (WOOD POST) 1

SHEET No.	DIRECTION	STATION LIMITS	SIDE	MBGR (WOOD POST)	Trans RAILING (TYPE WB)	Alt FLARED TERMINAL SYSTEM	~~DOUBLE MBGR (WOOD POST)~~
		991+65.66 995+27.66		LF	EA	EA	
L-1, L-2	EASTBOUND	"B" ~~987+90.70~~ To "B" ~~994+77.66~~	Lt	337	1	1	687.0
L-2	EASTBOUND	"B" 994+~~77.66~~ 43.67 To "B" 995+~~27.66~~ 50.67	~~Lt~~ Rt	82 ~~25.0~~	1	1	
~~L-2~~	~~EASTBOUND~~	~~"B" 994+06.17 To "B" 995+50.67~~	~~Rt~~	~~144.5~~	~~1~~	~~1~~	
L-2	WESTBOUND	"C" 1996+87.17 To "C" ~~1998+31.67~~ 1997+94.17	Lt	82 ~~144.5~~	1	1	
L-2	WESTBOUND	"C" 1997+09.17 To "E" ~~1997~~ 2000+59.17	Rt	325 ~~25.0~~	1	1	
~~L-2, L-3~~	~~WESTBOUND~~	~~"C" 1997+59.17 To "E" 2003+98.75~~	~~Rt~~				639.6
		TOTAL		826 ~~339~~	4	~~2~~ 4	1327

CONCRETED ROCK SLOPE PROTECTION

SHEET No.	STATION LIMITS	CONCRETED RSP (1/2 T, METHOD B)	RSP FABRIC (CLASS 8)	REMOVE CONCRETED RSP
		CY	SQYD	CY
L-2, C-1	"VWW" 47+49.98 TO 48+76.79	423	418	423
L-2, C-1	"VWW" 48+50.12 TO 49+75.44	418	414	418
L-2, C-1	"VWW" 50+14.41 TO 51+39.56	417	413	417
L-2, C-1	"VWW" 51+11.36 TO 52+35.96	415	411	415
	TOTAL	1673	1656	1673

DRAINAGE QUANTITIES

SHEET No.	STATION LIMITS	Alt PIPE CULVERT		Alt FES		MINOR Conc (BACKFILL)	RSP (LIGHT, METHOD B)	REMOVE RSP	REMOVE PIPE	REMOVE FES	REMOVE CONCRETE
		18"	24"	18"	24"						
		LF	LF	EA	EA	CY	CY	CY	LF	EA	CY
DE-1	"EBDET1" 37+95 TO 41+52		1098		6		6.7				
SC-10	"EBDET1" 37+95 TO 41+52							6.7	1098	6	
DE-3	"EBDET2" 62+55 TO 64+95	248		2		65	3.3				
SC-11,12	"EBDET2" 62+55 TO 64+95							3.3	248	2	65
DE-5	"WBDET1" 50+45 TO 53+45		924		6		6.7				
SC-17,18	"WBDET1" 50+45 TO 53+45							6.7	924	6	
DE-7	"WBDET2" 67+60 TO 70+70	315		2		80	3.3				
SC-18,19	"WBDET2" 67+60 TO 70+70							3.3	315	2	80
	TOTAL	563	2022	4	12	145	20	20	2585	16	145

NOTE: FOR ALLOWABLE ALTERNATIVES FOR APC AND AFES, SEE DETOUR LAYOUT SHEETS.

RECONSTRUCT FENCE

SHEET No.	STATION LIMITS	RECONSTRUCT FENCE (TYPE BW)	RECONSTRUCT FENCE (TYPE BW)
		LF	LF
L-2	"B" 995+02.70 To "B" 995+66.25	166.5	
L-2	"C" 1994+45.82 To "B" 995+41.76		212.4
L-2	"C" 1993+81.77 To "C" 1994+18.59	70.0	
L-2	"C" 1996+72.49 To "C" 1997+66.41	179.2	
L-2	"C" 1997+00 To "B" 997+90.79		206.6
L-2	"B" 998+16.14 To "B" 999+36.75	196.1	
	TOTAL	612	419

1 **REVISED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

SUMMARY OF QUANTITIES
Q-2

REVISED BY | DATE REVISED
BANG NGUYEN | LY PHAN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: SON NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 02-01-12 | DATE PLOTTED => 03-JAN-2013 | TIME PLOTTED => 08:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	50A	80

1

12-13-12
LICENSED LANDSCAPE ARCHITECT

6-25-12
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT STEPHEN SHUN-MIN SU NO. 4838 Signature 9-30-13 Renewal Date 12-13-12 Date STATE OF CALIFORNIA

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

ABBREVIATIONS

AMEND — amendment
B & B — balled and burlapped
Dia — diameter
EA — each
lb — pound
oz. — ounce
Ft — foot/feet
SQFT — square feet
CF — cubic feet
In — inch
Max — maximum
Min — minimum
NCN — no common name
No. — number
Pkt — packet
PLT ESTB — plant establishment
Pvmt — pavement
R/W — right of way
SF — state furnished
ETW — edge of travel way

PLANT LIST AND PLANTING SPECIFICATIONS

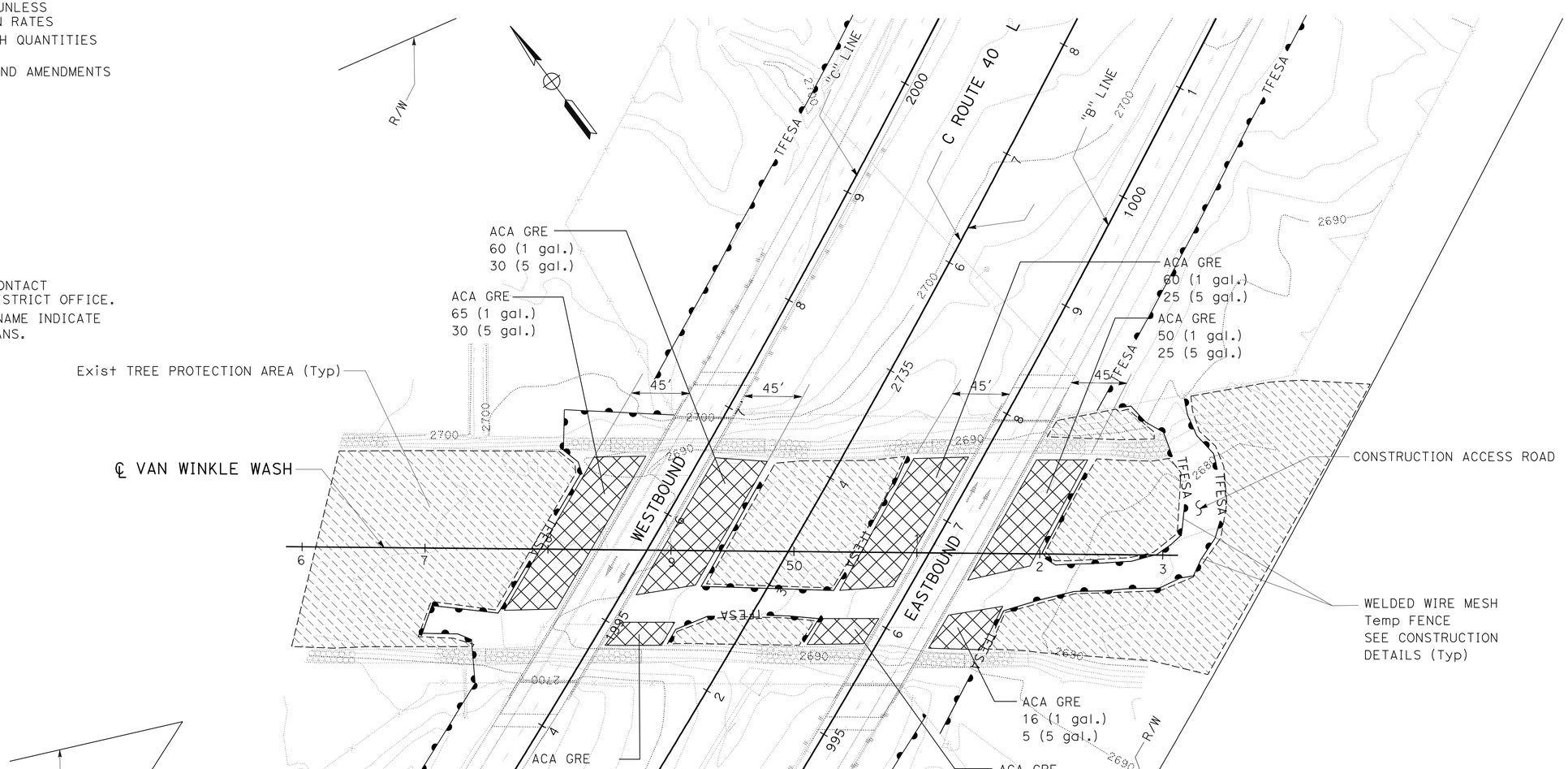
PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY (EA)	HOLE SIZE Min (In) Dia	HOLE SIZE Min (In) DEPTH	BASIN TYPE	TIME RELEASE WATER ASSEMBLY (EA) PLANTING	TIME RELEASE WATER ASSEMBLY (EA) PLT ESTB	COMMERCIAL FERTILIZER PLANTING	COMMERCIAL FERTILIZER PLT ESTB	BASIN MULCH (CF)	STAKING	PLANTING LIMITS MINIMUM DISTANCE (Ft) FROM ETW	Pvmt	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (Ft)	REMARKS
A	1		ACACIA GREGGII	CATCLAW ACACIA	1 gal	275	16	12	II	--	--	--	--	0.4	--	--	--	--	--	--	--	8	
B	2		ACACIA GREGGII	CATCLAW ACACIA	5 gal	125	20	15	II	--	--	--	--	0.8	--	--	--	--	--	--	--	8	

APPLICABLE WHEN CIRCLED:

1 - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
3 - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
4 - SEE DETAIL
5 - SEE SPECIAL PROVISIONS
6 - SEE STANDARD SPECIFICATIONS
7 - AS SHOWN ON PLANS
8 - UNLESS OTHERWISE SHOWN ON PLANS
9 - FOLIAGE PROTECTOR REQUIRED
10 - ROOT PROTECTOR REQUIRED
11 - ROOT BARRIER REQUIRED

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.



APPROVED FOR PLANTING WORK ONLY

1 ADDED PER ADDENDUM No. 1 DATED JANUARY 4, 2013

PLANTING LIST AND PLANTING PLAN

SCALE: 1"=50'

PP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
CALCULATED-DESIGNED BY: STEPHEN SU
CHECKED BY: RONALD WONG
REVISED BY / DATE REVISED

LAST REVISION 10-22-12 | DATE PLOTTED => 03-JAN-2013 | TIME PLOTTED => 08:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	R85.2	50B	80

REGISTERED CIVIL ENGINEER 12-7-12 DATE

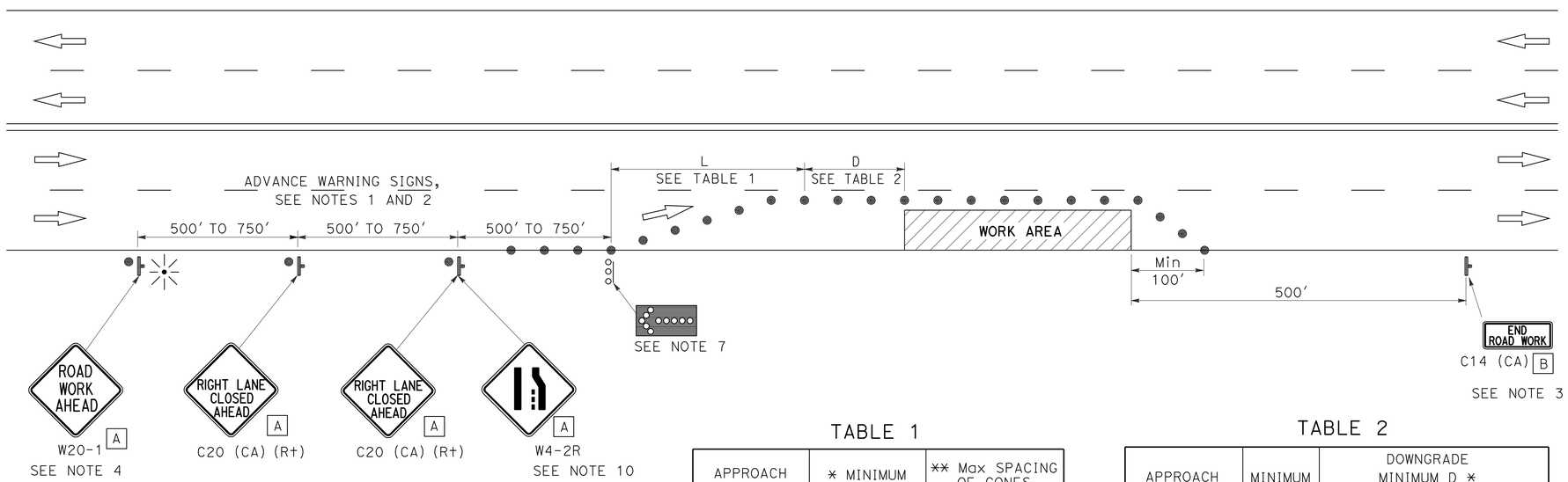
6-25-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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

1

TYPICAL LANE CLOSURE



NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TABLE 1

APPROACH SPEED	* MINIMUM L	** Max SPACING OF CONES ALONG TAPER
mph	ft	ft
20 AND BELOW	80	20
25	125	25
30	180	30
35	245	35
40	320	40
45	540	45
50	600	50
Over 50	SEE NOTE 9	

* USE L FOR LANE WIDTHS LESS THAN OR EQUAL TO 12'.
** SEE NOTE 8.

TABLE 2

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
OVER 50	SEE NOTE 9			

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

LEGEND

- TRAFFIC CONE
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

A 36" x 36"

B 36" x 18"

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing and placed closer in urban areas.
2. Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow sign shall be either Type I or Type II.
8. The maximum spacing between cones along a tangent shall be 50' and along a taper shall be approximately as shown in Table 1.
9. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
10. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.

1 **ADDED PER ADDENDUM No. 1 DATED JANUARY 4, 2013**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 03-JAN-2013 | TIME PLOTTED => 08:39