Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	2	231

REGISTERED CIVIL ENGINEER DATE 12-21-11

PLANS APPROVAL DATE 12-27-11

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 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. SEE CONSTRUCTION DETAILS SHEET FOR LIMITS OF CONCRETE BARRIER (TYPE K) AND THRIE BEAM BARRIER.
2. SEE CONSTRUCTION DETAILS SHEET FOR LIMITS OF "REMOVE AC DIKE" AND "HMA DIKE (TYPE E)".
3. STEEL STAKES SHALL BE DRIVEN UNTIL THE TOPS ARE FLUSH WITH THE OUTER PROFILE OF THE CONCRETE BARRIER. (SEE SHEET C-6)
4. NO PAVEMENT SAFETY EDGE WITHIN THE HMA DIKE LIMITS.
5. CONCRETE SAFETY EDGE SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE ADJACENT PPCP.
6. SEE SHEET C-1 FOR COLD PLANE AC THICKNESS ON RAMPS.
7. SEE LAYOUT SHEETS FOR OVERLAY DETAILS AT GORE AREAS.
8. SEE L-8, L-9, L-12, L-27 FOR 13 LOCATIONS.
9. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

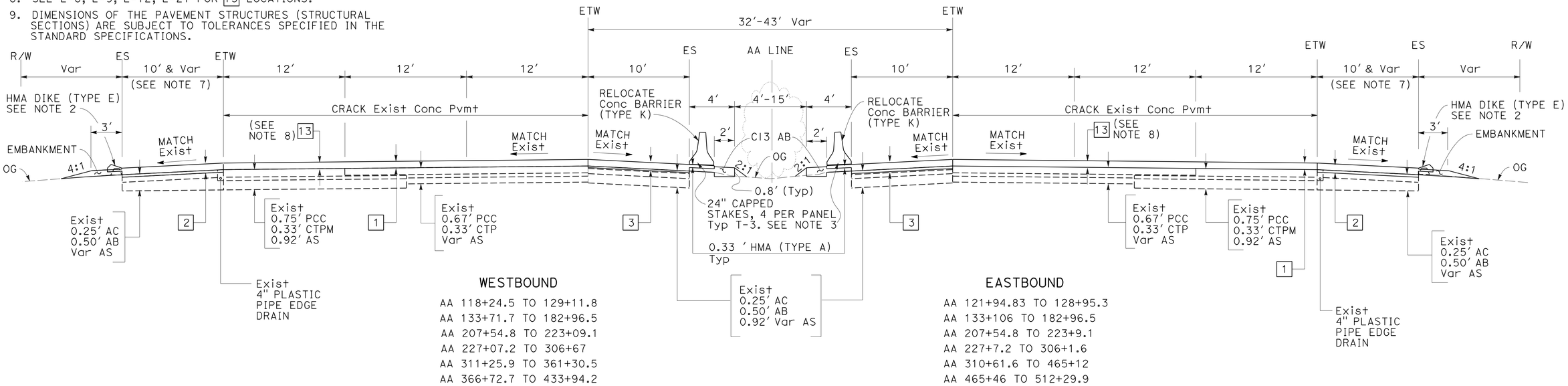
ABBREVIATIONS:

GPI	GEOSYNTHETIC PAVEMENT INTERLAYER
LCBRS	LEAN CONCRETE BASE RAPID SETTING
PPCP	PRECAST PRESTRESSED CONCRETE PAVEMENT
RAP	RECLAIMED ASPHALT PAVEMENT
HMA-O	HOT MIX ASPHALT (OPEN GRADED)
JPCP (RSC)	JOINTED PLAIN Conc Pvmt (RAPID STRENGTH Conc)
SEG	SUBGRADE ENCHANCEMENT GEOTEXTILE

DESIGN DESIGNATION:

ADT	(2012) 123,500	T1 (2053) 15	
ADT	(2053) 143,000	D (2053) 52.2%	
DHV	(2053) 15,270	T 6.72%	
ESAL	(2053) 3,472,000		

Pvmt CLIMATE REGION = INLAND VALLEY



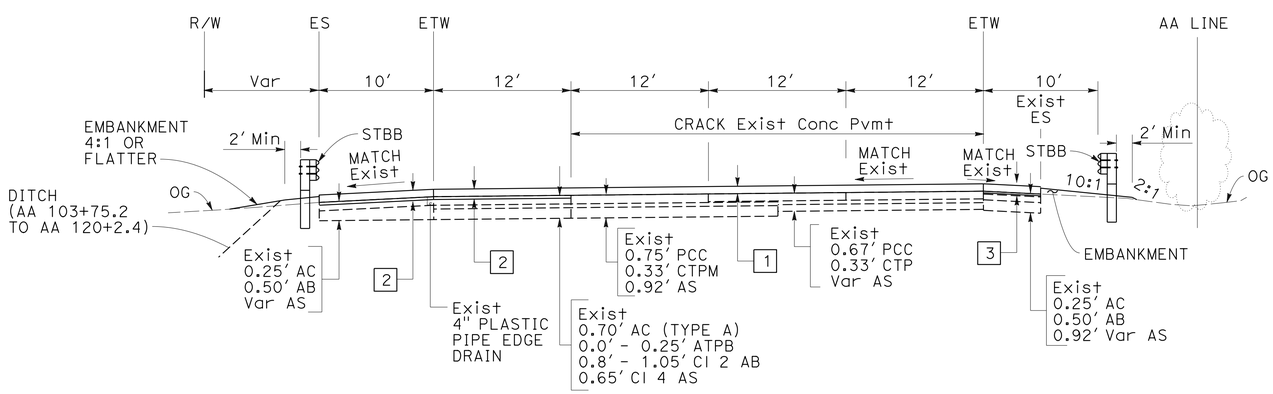
WESTBOUND

AA 118+24.5 TO 129+11.8
AA 133+71.7 TO 182+96.5
AA 207+54.8 TO 223+09.1
AA 227+07.2 TO 306+67
AA 311+25.9 TO 361+30.5
AA 366+72.7 TO 433+94.2
AA 440+00 TO 465+12
AA 465+46 TO 515+28

EASTBOUND

AA 121+94.83 TO 128+95.3
AA 133+106 TO 182+96.5
AA 207+54.8 TO 223+9.1
AA 227+7.2 TO 306+1.6
AA 310+61.6 TO 465+12
AA 465+46 TO 512+29.9

ROUTE 80



WESTBOUND

AA 101+31.9 TO 118+24.5

ROUTE 80

TYPICAL PAVEMENT STRUCTURE SECTIONS

1
- 0.10' HMA-O
- 0.20' HMA (15% Max RAP, LONG LIFE)
- 0.25' HMA (25% RAP, LONG LIFE)
- GPI
- 0.10' HMA (LEVELING)

2
- 0.10' HMA-O
- 0.20' HMA (15% Max RAP, LONG LIFE)
- 0.50' HMA (25% RAP, LONG LIFE)
- GPI
- 0.10' HMA (LEVELING)
- 0.25' COLD PLANE AC Pvmt

3
- 0.10' HMA-O
- 0.20' HMA (15% Max RAP, LONG LIFE)
- 0.40' HMA (25% RAP, LONG LIFE)
- GPI
- 0.10' HMA (LEVELING)
- 0.15' COLD PLANE AC Pvmt

1 4
- 0.20' HMA (15% Max RAP, LONG LIFE)
- 0.60' ~~0.40'~~ HMA (25% RAP, LONG LIFE)
- ~~0.20' HMA (RICH BOTTOM, LONG LIFE)~~
- 0.65' LCBRS
- 2.00' CI 2 AS
- SEG

5
- 0.90' PPCP
- 0.35' LCBRS

6
- 0.90' PPCP
- 0.70' LCBRS

7
- 0.82'-0.90' PPCP
- 0.35' LCBRS

8
- 0.50'-0.90' PPCP
- 0.35' LCBRS

9
- 0.10' HMA-O
- 0.65' HMA (25% RAP, LONG LIFE)
- 0.75' COLD PLANE AC Pvmt

10
- 0.10' HMA-O
- 0.65' HMA (25% RAP, LONG LIFE)
- 0.40'-0.70' COLD PLANE AC Pvmt

11
- 0.10' HMA-O
- 0.75' HMA (25% RAP, LONG LIFE)
- 0.85' COLD PLANE AC Pvmt

12
- 0.10' HMA-O
- 0.70' HMA (25% RAP, LONG LIFE)
- 0.80' COLD PLANE AC Pvmt

13
- 0.10' HMA-O
- 0.55' HMA (25% RAP, LONG LIFE)

TYPICAL CROSS SECTIONS

NO SCALE

1 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

X-1

REVISED BY	DATE REVISED
JL	12/12/11

CALCULATED-DESIGNED BY: JIANGHONG LI
CHECKED BY: MICHAEL T. NGUYEN
FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 12-23-11
DATE PLOTTED => 31-AUG-2012
TIME PLOTTED => 09:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	3	231

REGISTERED CIVIL ENGINEER DATE 12-21-11

PLANS APPROVAL DATE 12-27-11

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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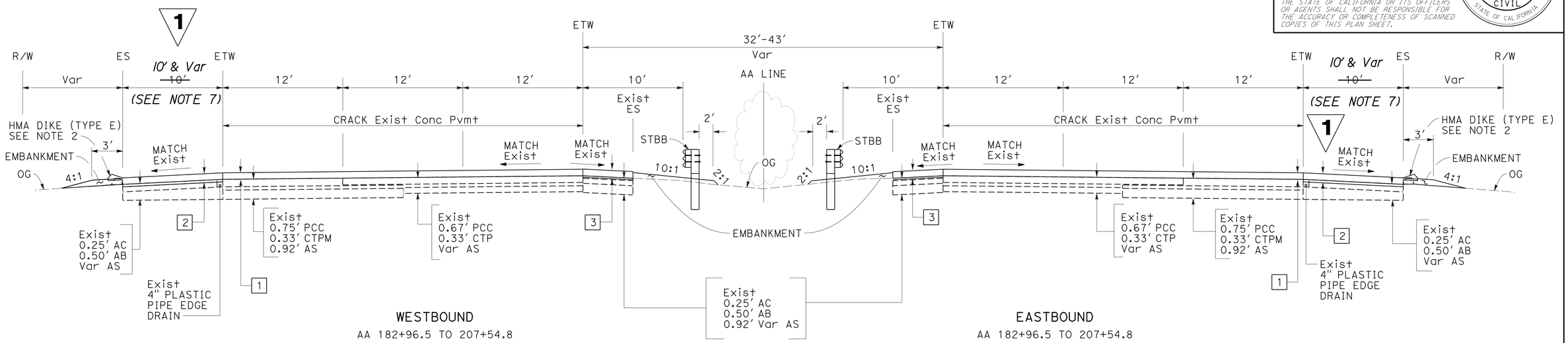


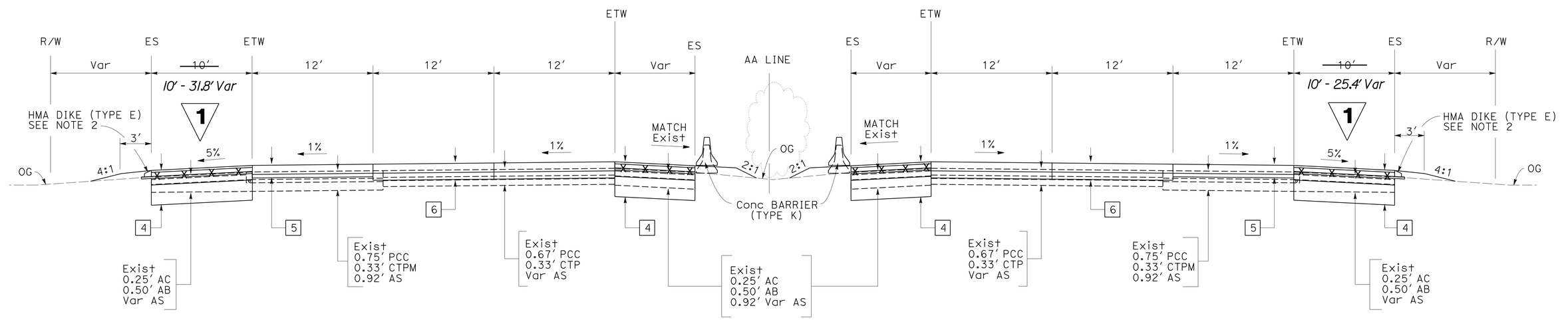
WESTBOUND

AA 182+96.5 TO 207+54.8

EASTBOUND

AA 182+96.5 TO 207+54.8

ROUTE 80



WESTBOUND

AA 129+11.8 TO 130+41.8
AA 132+41.7 TO 133+71.7
AA 223+9.1 TO 224+39.1
AA 225+77.2 TO 227+7.2
AA 306+67 TO 307+97
AA 309+95.9 TO 311+25.9

EASTBOUND

AA 128+95.3 TO 130+25.3
AA 131+80.5 TO 133+10.5
AA 223+9.1 TO 224+39.1
AA 225+77.2 TO 227+7.2
AA 306+1.6 TO 310+61.6
AA 309+31.6 TO 310+61.6

ROUTE 80

1 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTIONS

NO SCALE

X-2

REVISED BY	DATE REVISED
JL	12/12/11

CALCULATED-DESIGNED BY: JIANGHONG LI
CHECKED BY: MICHAEL T. NGUYEN
FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION: 11-23-11
DATE PLOTTED => 31-AUG-2012
TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	4	231

REGISTERED CIVIL ENGINEER 12-21-11 DATE

12-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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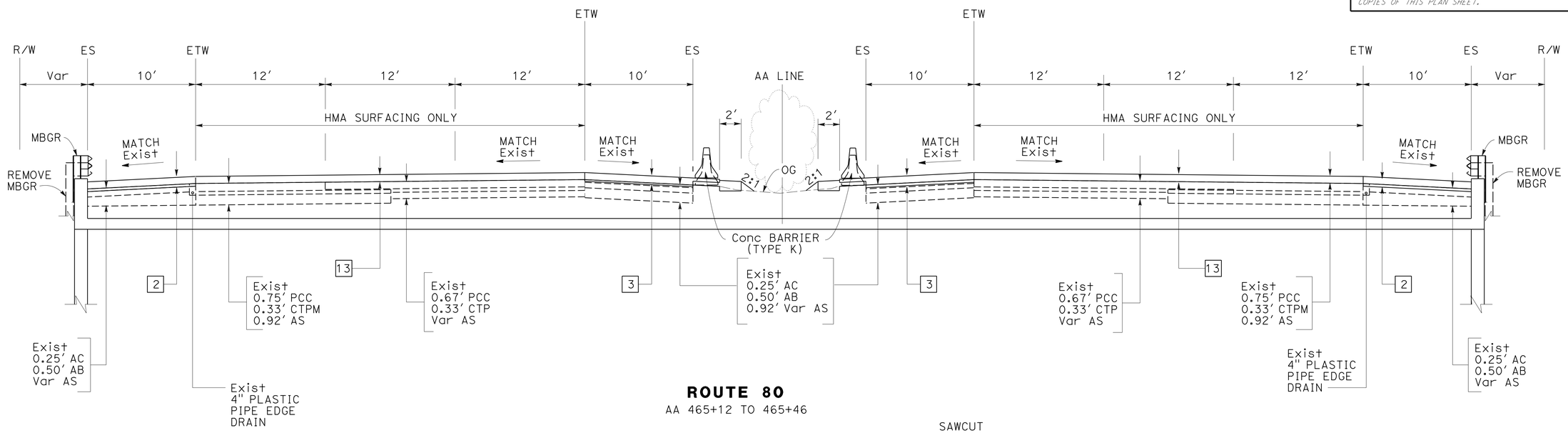
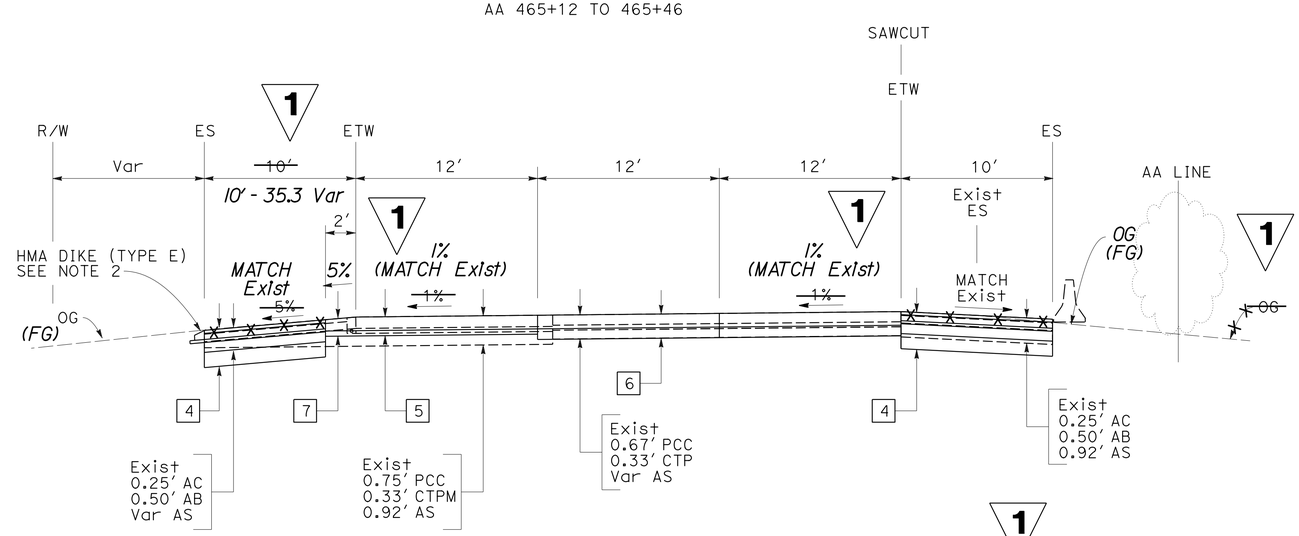


ROUTE 80
AA 465+12 TO 465+46



NOTES:

1.(FG),(MATCH Exist) IS ONLY USED FOR STATIONS OF (AA 361+30.5 TO 362+60.5,(AA 433+94.4 TO 435+24.2), (AA 365+42.7 TO 366+72.7) AND (AA 438+70 TO 440+00).

2.(FG) SEE C-22,C-23 SHEETS PPCP TRANSITION TAPER CONSTRUCTION DETAIL.

WESTBOUND

~~AA 361+30.5 TO 366+72.7~~
~~AA 433+94.2 TO 440+00~~

ROUTE 80

(AA 361+30.5 TO 362+60.5)
AA 362+60.5 TO 365+42.7
(AA 365+42.7 TO 366+72.7)

(AA 433+94.2 TO 435+24.2)
AA 435+24.2 TO 438+70
(AA 438+70 TO 440+00)

1 REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

TYPICAL CROSS SECTIONS
NO SCALE

X-3

CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED
JIANGHONG LI	MICHAEL T. NGUYEN	MICHAEL T. NGUYEN	JL	12/12/11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DESIGN

LAST REVISION 11-23-11 | DATE PLOTTED => 31-AUG-2012 | TIME PLOTTED => 09:12

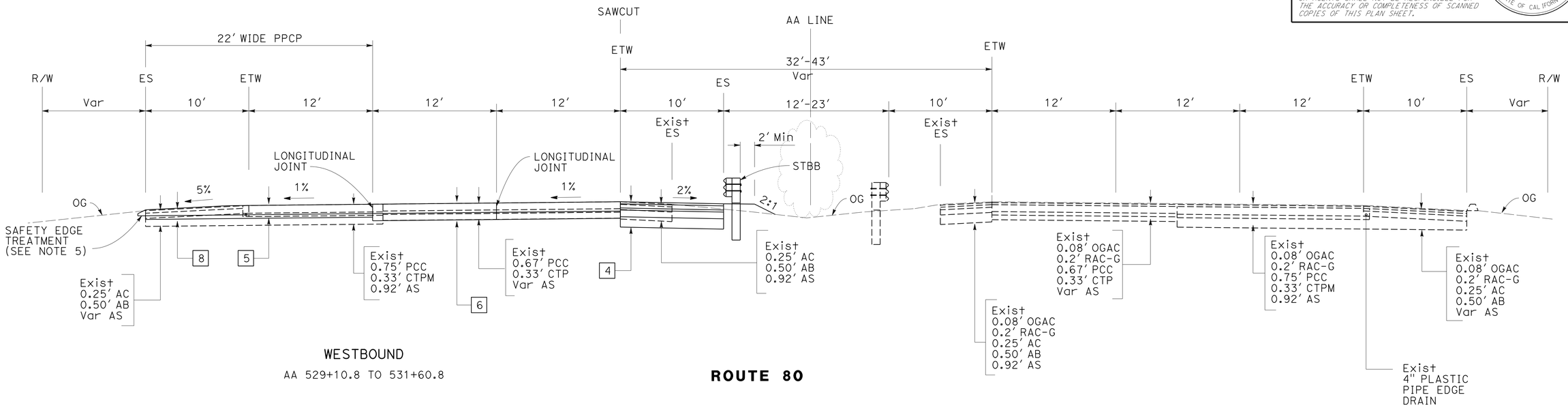
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	5	231

REGISTERED CIVIL ENGINEER 12-21-11 DATE

12-27-11
PLANS APPROVAL DATE

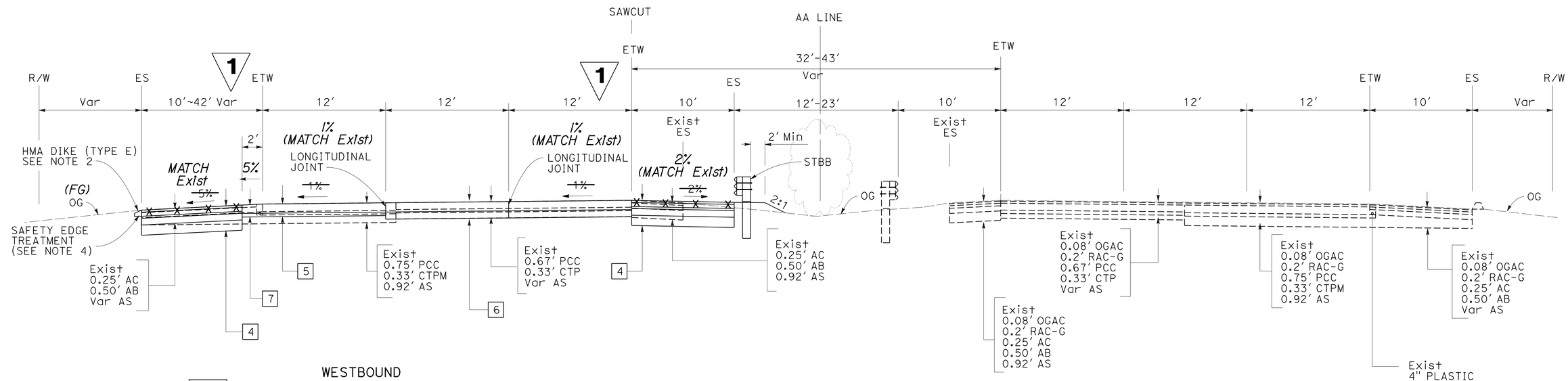
REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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.



WESTBOUND
AA 529+10.8 TO 531+60.8

ROUTE 80



WESTBOUND
1 516+58 AA ~~515+28~~ TO 529+10.8
(AA 515+28 TO 516+58)

ROUTE 80

NOTE:
(FG),(MATCH Exist) IS ONLY USED FOR (AA 515+28 TO 516+58)

1 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

TYPICAL CROSS SECTIONS
NO SCALE

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET X-1

X-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN
CALCULATED-DESIGNED BY: JIANGHONG LI
CHECKED BY: MICHAEL T. NGUYEN
REVISED BY: JL
DATE REVISED: 12/12/11

LAST REVISION 12-23-11
DATE PLOTTED => 31-AUG-2012
TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	15	231

REGISTERED CIVIL ENGINEER 12-21-11 DATE

12-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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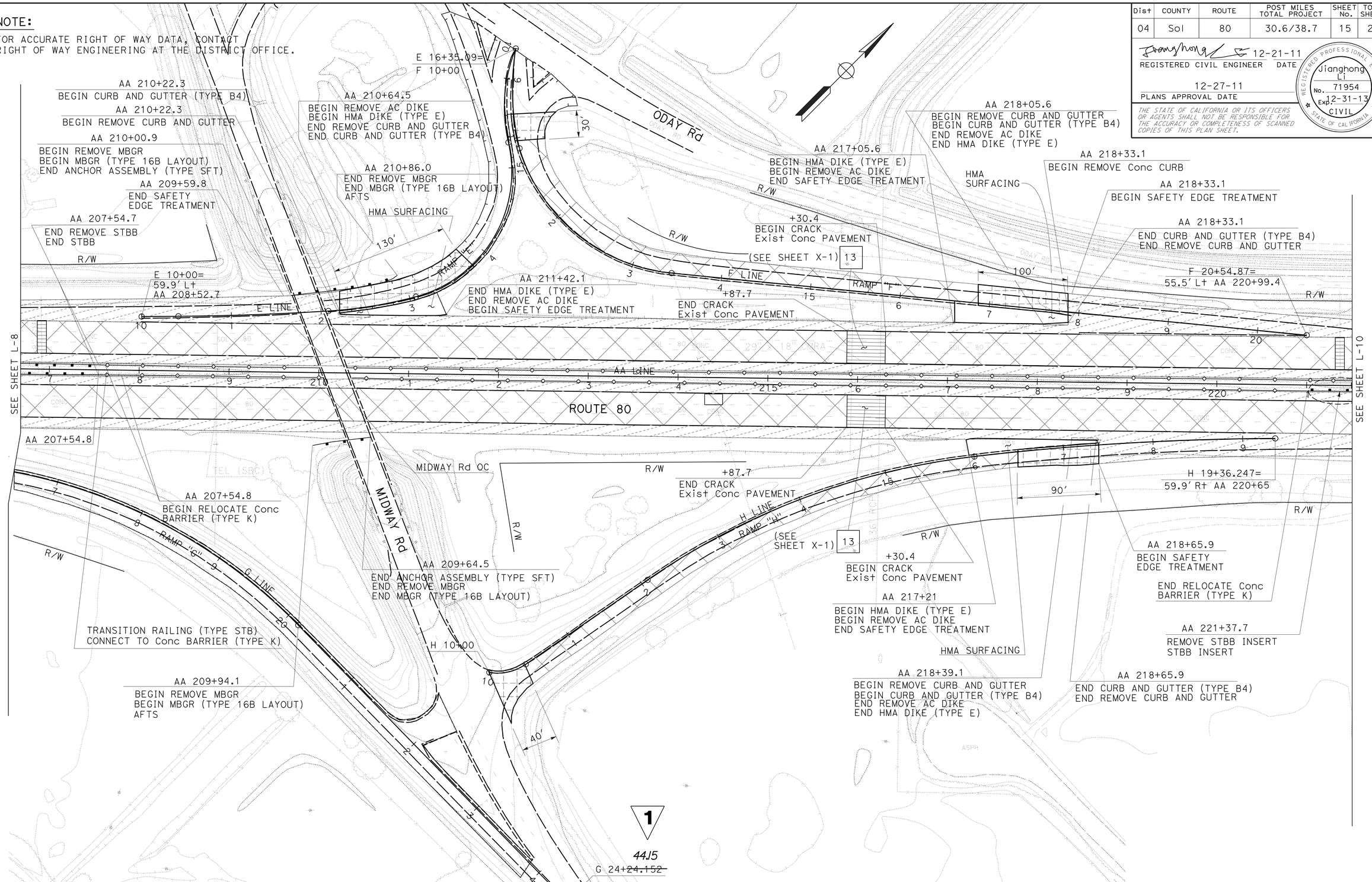
NOTE:

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



1 REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1'' = 50'

L-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN

CALCULATED-DESIGNED BY: JIANGHONG LI

CHECKED BY: MICHAEL T. NGUYEN

REVISED BY: JL

DATE REVISED: 12/12/11

LAST REVISION 12-27-11

DATE PLOTTED => 31-AUG-2012

TIME PLOTTED => 09:12

BORDER LAST REVISED 7/2/2010

USERNAME => s126849

DGN FILE => 0400001101ea009.add

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0701

PROJECT NUMBER & PHASE 04000011011

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	43	231

REGISTERED CIVIL ENGINEER DATE 12-21-11

PLANS APPROVAL DATE 12-27-11

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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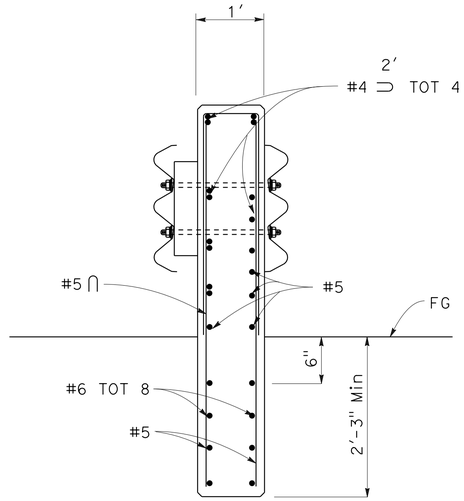
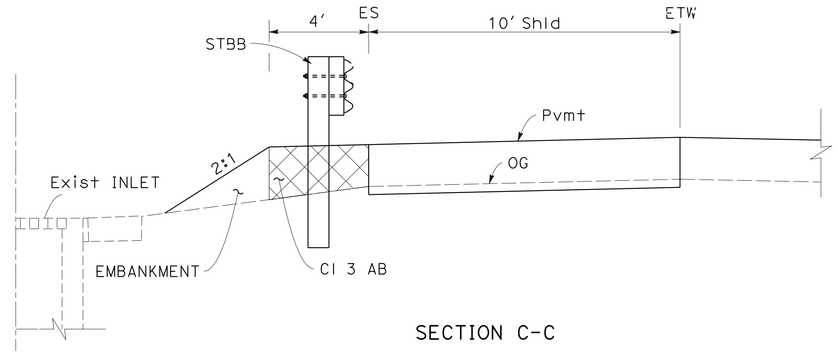
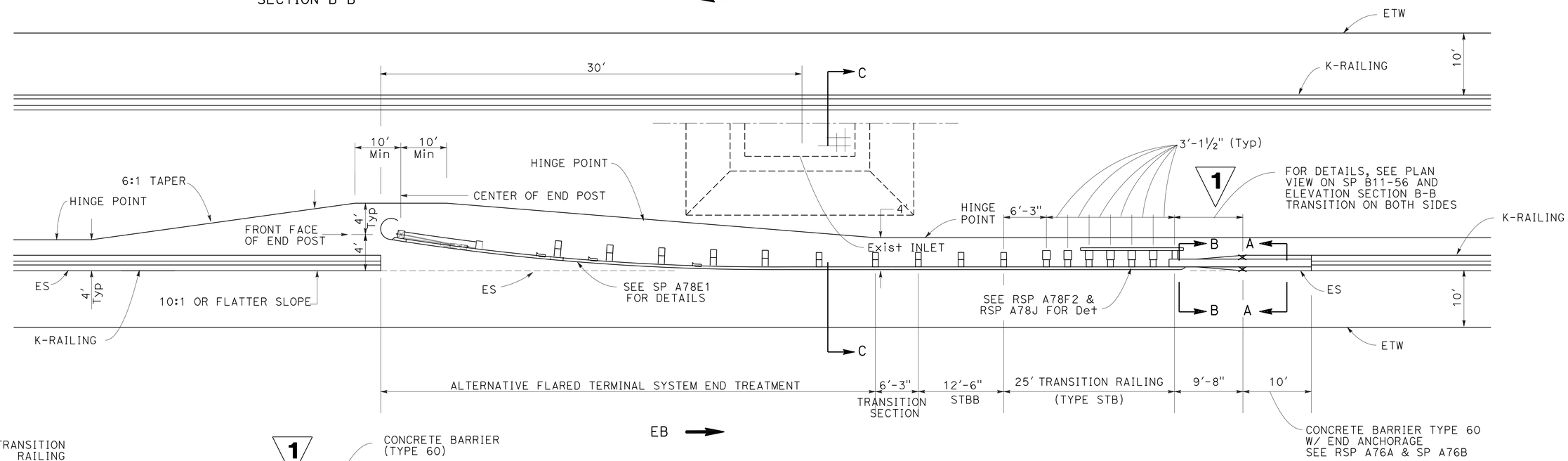


SECTION B-B

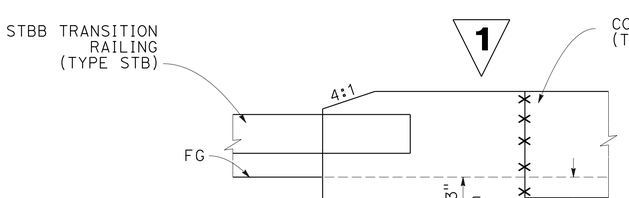


SECTION C-C

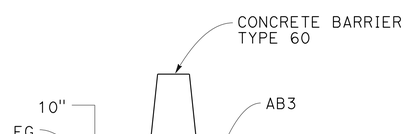
WB



ROUTE 80 TBB INSERT



ELEVATION



SECTION A-A

1 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

CONSTRUCTION DETAILS

NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

FUNCTIONAL SUPERVISOR MICHAEL T. NGUYEN

CALCULATED-DESIGNED BY JIANGHONG LI

CHECKED BY MICHAEL T. NGUYEN

REVISED BY JL

DATE REVISED 12/12/11

LAST REVISION 12-23-11

DATE PLOTTED => 31-AUG-2012

TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	127	231

REGISTERED CIVIL ENGINEER DATE 12-21-11

PLANS APPROVAL DATE 12-27-11

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 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.

LEGEND:

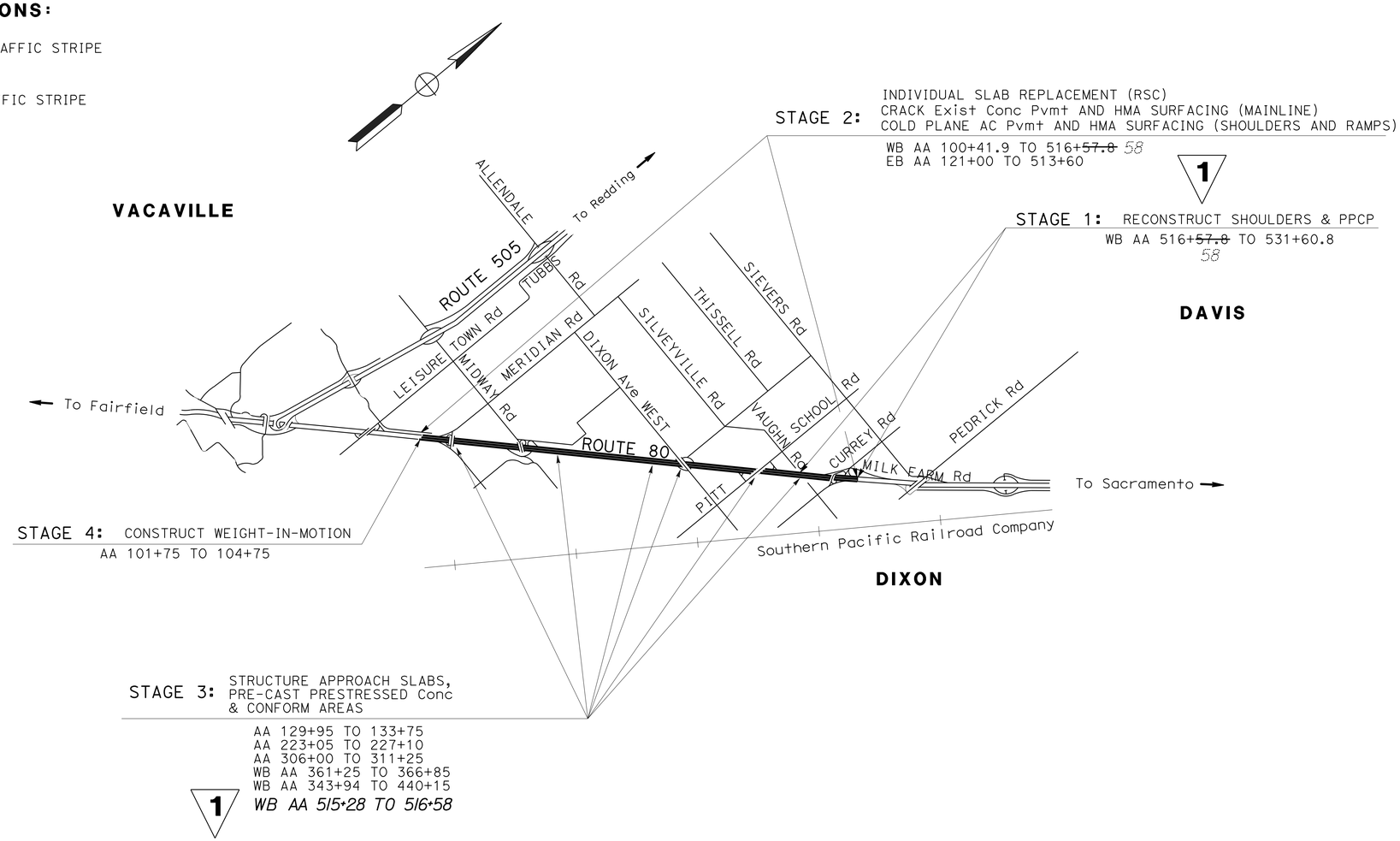
- DIRECTION OF TRAFFIC
- TEMPORARY CRASH CUSHION (ARRAY TS14)
- TEMPORARY TRAFFIC STRIPE
- CHANNELIZER (SURFACE MOUNTED)
- TEMPORARY RAILING (TYPE K)
- WORK AREA
- TEMPORARY ALTERNATIVE CRASH CUSHION

ABBREVIATIONS:

BR	BEGIN REMOVE TRAFFIC STRIPE
BT	BEGIN TAPER
ER	END REMOVE TRAFFIC STRIPE
ET	END TAPER

NOTES:

1. REMOVE CONFLICTING STRIPES & MARKERS. AFTERWARD, COVER CONFLICTING STRIPES.
2. TEMPORARY RAILING (TYPE K) TO BE SECURED TO THE ROAD SURFACE. SEE Std PLAN T3A.



1 REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012

STAGE CONSTRUCTION PLAN

NO SCALE

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

SC-1

REVISED BY	DATE REVISED
JL	12/12/11

JIANGHONG LI — MICHAEL T. NGUYEN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

LAST REVISION 12-27-11 — DATE PLOTTED => 31-AUG-2012 — TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	165	231

REGISTERED CIVIL ENGINEER 12-21-11 DATE

12-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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PAVEMENT STRUCTURE QUANTITY (PRECAST CONSTRUCTION)

SHEET No.	STATION	HMA (15% Max RAP, LONG LIFE) *	HMA (25% RAP, LONG LIFE) *	~~HMA (RICH BOTTOM, LONG LIFE)~~ 1	TACK COAT *	LIQUID ASPHALT (PRIME COAT) *	CLASS 2 AGGREGATE SUB BASE	PRECAST PRESTRESSED CONCRETE PAVEMENT	LEAN CONCRETE BASE RAPID SETTING SHOULDER	LEAN CONCRETE BASE RAPID SETTING TRAVEL WAY	REMOVE CONCRETE PAVEMENT *	SUBGRADE ENCHANCEMENT GEOTEXTILE (CLASS B-1)	SEAL ISOLATION JOINT
		TON					CY					SQYD	LF
L-3	AA 129+11.8 TO 133+71.7	140.4	421.2 ~~280.8~~	~~140.4~~	0.9	1.1	693.3	658.7	225.3	417.9	511.9	1040.0	2216
L-10	AA 223+9.1 TO 227+7.2	140.4	421.2 ~~280.8~~	~~140.4~~	0.9	1.1	693.3	658.7	225.3	417.9	511.9	1040.0	2080
L-16	AA 306+1.6 TO 311+25.9	140.4	421.2 ~~280.8~~	~~140.4~~	0.9	1.1	693.3	658.7	225.3	417.9	511.9	1040.0	2243
L-20	AA 361+30.5 TO 366+72.7	148.5	445.5 ~~297.0~~	~~148.5~~	0.9	1.1	733.3	696.7	238.3	442.0	541.4	1100.0	2169
L-25	AA 434+94.2 TO 440+00	164.7	494.1 ~~329.4~~	~~164.7~~	1.0	1.3	813.3	772.2	264.3	490.3	600.5	1220.0	2423
L-31 & L-32	AA 515+28TO 531+60.8	410.4	1231.2 ~~820.8~~	~~410.4~~	2.5	3.2	2026.7	2137.3	658.7	1346.1	1614.5	3040.0	6781
TOTAL		1144.8	3434.4 ~~2289.6~~	~~1144.8~~	7.1	8.8	5653.3	5653.3	5369.4		4292.2	8480.0	17912

* QUANTITY INCLUDED IN PAVEMENT STRUCTURE QUANTITY SUMMARY ON SHEET Q-8

EARTHWORK QUANTITY SUMMARY (WESTBOUND MAINLINE)

STATION	ROADWAY EXCAVATION *	ROADWAY EXCAVATION (TYPE Z-2, AERIAL DEPOSITED LEAD)	EMBANKMENT (N)	IMPORTED BORROW
	CY			
AA 100+41.9 TO 118+24.5			352.0	436.8
AA 118+24.5 TO 129+11.8			275.0	341.3
AA 129+11.8 TO 133+71.7	548.1			
AA 133+71.7 TO 182+96.5			1056.1	630.4
AA 182+96.5 TO 207+54.7			506.0	627.9
AA 207+54.7 TO 223+9.1			352.0	436.8
AA 223+9.1 TO 227+7.2	548.1			
AA 227+7.2 TO 306+67			1705.1	1435.8
AA 306+67 TO 311+25.9	548.1			
AA 311+25.9 TO 361+30.5			1100.1	685
AA 361+30.5 TO 366+72.7	1159.5			
AA 366+72.7 TO 433+94.2			1452.1	363.1
AA 433+94.2 TO 440+00	1286.0			
AA 440+00 TO 515+28			1617.1	410.9
AA 515+28 TO 531+60.8	3270.4	250		
SUBTOTAL (WB)	7360.2	250	8415.6	5368.2
SUBTOTAL (EB)	1644.3		8094.4	4256.6
TOTAL (WB & EB)	9004.5	250	16510.0	9625.0

NOTE: TAKE EFFECT OF SUBSIDENCE OF EMBANKMENT.
(N) NOT A PAY ITEM

EARTHWORK QUANTITY SUMMARY (EASTBOUND MAINLINE)

STATION	ROADWAY EXCAVATION *	ROADWAY EXCAVATION (TYPE Z-2, AERIAL DEPOSITED LEAD)	EMBANKMENT (N)	IMPORTED BORROW
	CY			
AA 121+94.80 TO 128+95.3			214.5	266.2
AA 128+95.3 TO 133+10.6	548.1			
AA 133+10.6 TO 182+96.5			1070.4	648.2
AA 182+96.5 TO 207+54.8			506.4	628.4
AA 207+54.8 TO 223+9.1			352.0	436.8
AA 223+9.1 TO 227+7.2	548.1			
AA 227+7.2 TO 306+1.6			1694.1	1422.2
AA 306+1.6 TO 310+61.6	548.1			
AA 310+61.6 TO 512+29.9			4257.3	854.8
SUBTOTAL (EB)	1644.3		8094.4	4256.6

1 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

SUMMARY OF QUANTITIES

Q-2

REVISED BY	DATE REVISED
BS	12/12/11

BORIS SAYFER — MICHAEL T. NGUYEN

CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: MICHAEL T. NGUYEN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — DESIGN

LAST REVISION 12-27-11 | DATE PLOTTED => 31-AUG-2012 | TIME PLOTTED => 09:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Sol	80	30.6/38.7	171	231

REGISTERED CIVIL ENGINEER DATE 12-21-11

12-27-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jianghong Li No. 71954 Exp. 12-31-13 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 **REVISED PER ADDENDUM No. 1 DATED AUGUST 31, 2012**

SINGLE THRIE BEAM BARRIER INSERT

STATION	SHEET No.	LOCATION	REMOVE STBB	STBB	TRANSITION SECTION	TRANSITION RAILING (TYPE STB)	ALTERNATIVE FLARED TERMINAL SYSTEM	MINOR CONCRETE (MINOR STRUCTURE)	BAR Reinf STEEL	CONCRETE BARRIER (TYPE 60)
			LF			EA		CY	PLB	LF
AA 123+06	L-2	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 141+32	L-4	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 153+06	L-5	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 168+50	L-6	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 178+50	L-7	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 221+37	L-9	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 243+28	L-11	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 255+77	L-12	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 265+29	L-13	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 276+76	L-13	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 285+26	L-14	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 298+70	L-15	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 311+76	L-16	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 321+75	L-17	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 335+60	L-18	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 358+43	L-19	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 371+39	L-20	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 379+38	L-21	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 387+38	L-21	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 393+87	L-22	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 402+22	L-22	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 418+89	L-23	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 427+37	L-24	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 437+80	L-25	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 450+38	L-26	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 450+87	L-26	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 474+62	L-27	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 489+38	L-28	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 496+87	L-29	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
AA 508+40	L-30	MEDIAN	40	12.5	6.25	1	1	2.4	120	10
SUBTOTAL			1200 (****)	562.5 (****)		30 (****)	30 (*)	72 (**)	3600 (**)	300 (***)

(*) QUANTITY INCLUDED IN METAL BEAM GUARD RAILING (Q-7)
(**) QUANTITY INCLUDED IN CONCRETE BARRIER AND ANCHOR BLOCK QUANTITY (Q-6)
(***) QUANTITY INCLUDED IN CONCRETE BARRIER (TYPE 60) (Q-7)
(****) QUANTITY INCLUDED IN SINGLE THRIE BEAM BARRIER TABLE

SINGLE THRIE BEAM BARRIER

STATION	DIRECTION	LOCATION	REMOVE STBB	STBB (WOOD POST)	TRANSITION RAILING (TYPE STB)
			LF		EA
AA 182+96 TO 217+55	WB	MEDIAN	2460	2460	2
AA 101+31 TO 121+94	WB	MEDIAN	2063	2063	1
AA 515+48 TO 531+61	WB	MEDIAN	1504	1504	1
AA 182+96 TO 207+55	EB	MEDIAN	2460	2460	2
SUBTOTAL			8487	8487	
FROM SINGLE THRIE BEAM BARRIER INSERT TABLE			1200	562.5	30
FROM STBB CONSTRUCTION TO CREEK BRIDGE RAIL				1012.5	6
TOTAL			9687	10062	42

PAVEMENT STRUCTURE QUANTITY SUMMARY

STATION	HMA (LEVELING)	HMA (25% RAP, LONG LIFE)	HMA (15% Max RAP, LONG LIFE)	TACK COAT	PRIME COAT	COLD PLANE AC PAVEMENT	REMOVE CONCRETE PAVEMENT	HMA (OPEN GRADED)	ROADWAY EXCAVATION
	TON					SQYD	CY	TON	CY
SHEET Q-1 (RAMPS)		19136		26.8	44.7	42862.7		2893.2	
SHEET Q-2 (PRECAST CONSTRUCTION)		3434.4 ~~2289.60~~	1144.80	7.10	8.80		4292.2		9004.5
SHEET Q-3 (MAIN LINE)	33719.28	106755.26	66376.57	440.72	181.99	174709.3		33188.28	
SHEET Q-6							465.16		357.05
SHEET SCQ-1	80	1184	1488					720	
TOTAL	33799.28	~~129364.86~~ 130509.66	69009.37	474.62	235.49	219839.0	4757.36	36801.40	9361.55

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SUMMARY OF QUANTITIES

Q-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

BS	12/12/11	REVISED BY	DATE REVISED
BORIS SAYFER	MICHAEL NGUYEN	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	MICHAEL NGUYEN		

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