Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	1	25

INDEX OF SHEETS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4-7	LAYOUTS
8	SUPERELEVATION DIAGRAM
9	CONSTRUCTION DETAILS
10	DRAINAGE PROFILES
11	CONSTRUCTION AREA SIGNS
12	STAGE CONSTRUCTION
13-14	PAVEMENT DELINEATION AND SIGN PLANS
15	PAVEMENT DELINEATION QUANTITIES
16	SIGN DETAILS AND QUANTITIES
17	SUMMARY OF QUANTITIES
18	EROSION CONTROL QUANTITIES
19	EROSION CONTROL PLAN
20-25	REVISED STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACHSSTP-P266(001)E

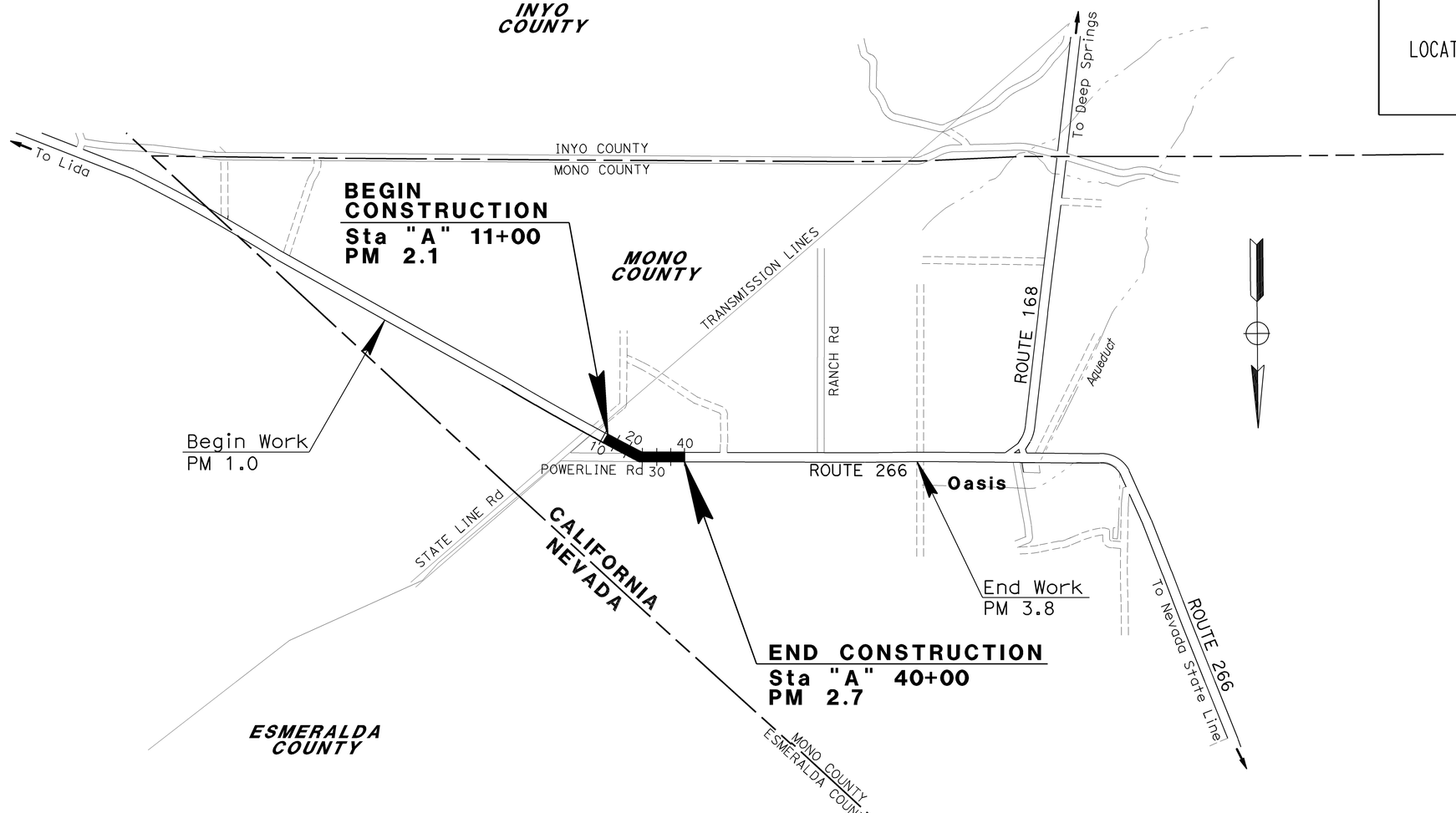
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN MONO COUNTY NEAR OASIS FROM 2.1 MILES NORTH TO 2.7 MILES NORTH OF NEVADA STATE LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP



NO SCALE

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

Ronald W. Chegwidden 7-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 24, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
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.

CONTRACT No.	09-346504
PROJECT ID	0900000214

LAST REVISION 03-24-14
DATE PLOTTED => 10-APR-2014
TIME PLOTTED => 15:13

PROJECT MANAGER: BRIAN MCELWAIN
DESIGN ENGINEER: BRIAN WESLING

BORDER LAST REVISED 9/30/2012 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s123915 DGN FILE => 934650ab001.dgn | UNIT 1444 | PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	2	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

RONALD W. CHEGWIDDEN No. 048905 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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:

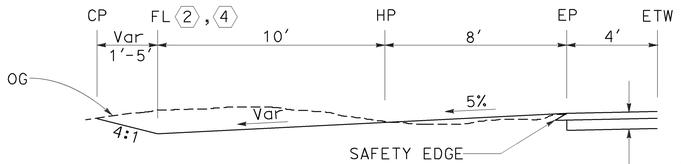
1. DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS ARE SHOWN ON THE SUPERELEVATION DIAGRAMS.
3. PROFILES FOR FL ⟨2⟩ & ⟨4⟩ SHOWN ON SHEET DP-1.

DESIGN DESIGNATION

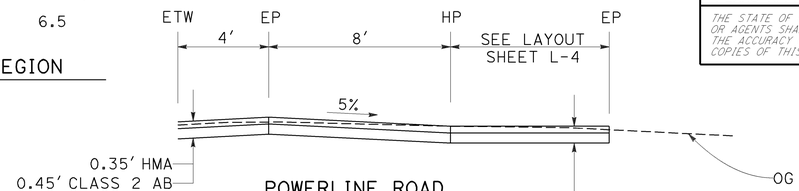
AADT (2014)	210	D	54.76%
AADT (2034)	290	T	6.0%
DHV (2014)	60	V	80 mph
ESAL	71,940	TI_{20}	6.5

PAVEMENT CLIMATE REGION

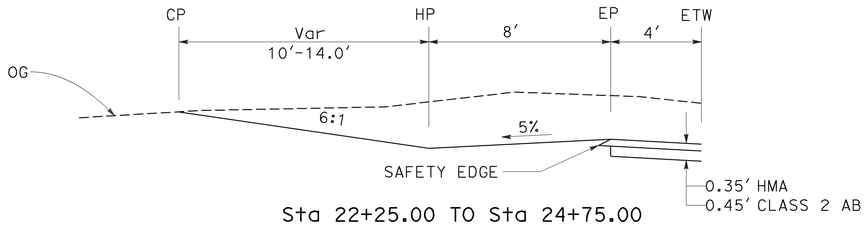
HIGH DESERT



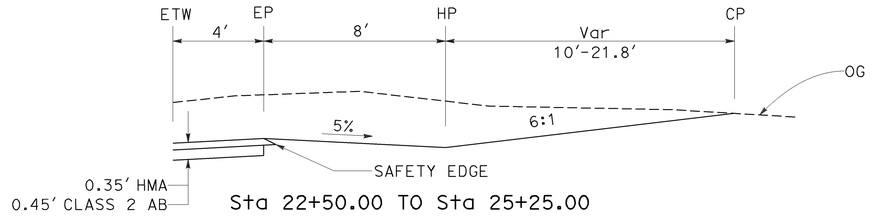
Sta 17+00.00 TO Sta 20+18.81
Sta 27+50.00 TO Sta 29+84.06



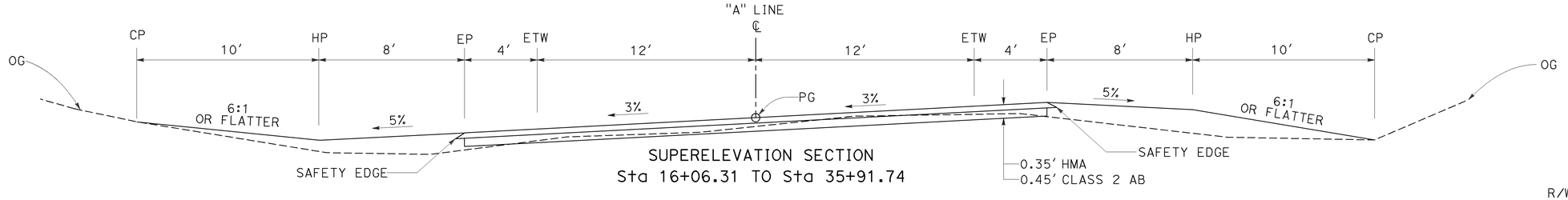
POWERLINE ROAD
Sta 26+99.60 TO Sta 27+98.51
"A" LINE



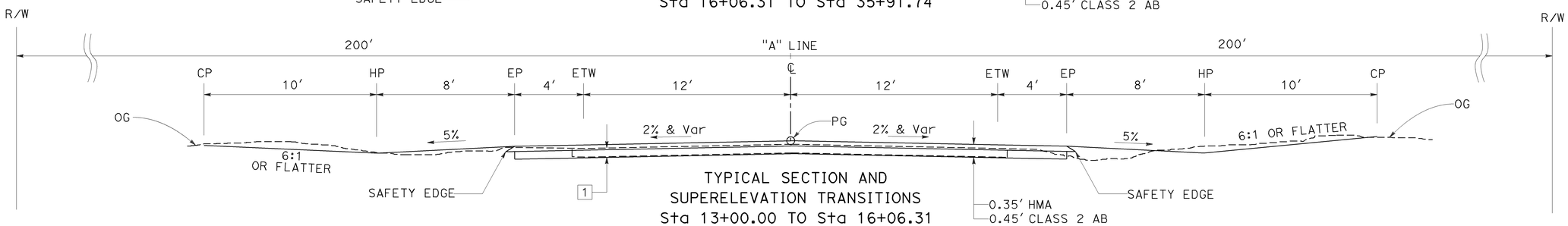
Sta 22+25.00 TO Sta 24+75.00



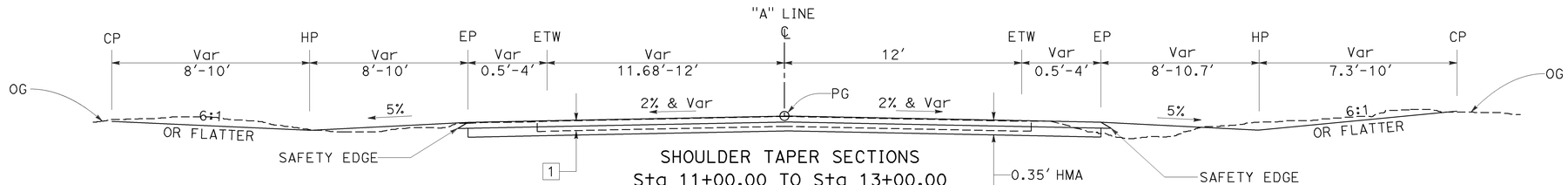
Sta 22+50.00 TO Sta 25+25.00
Sta 34+75.00 TO Sta 35+91.74



SUPERELEVATION SECTION
Sta 16+06.31 TO Sta 35+91.74



TYPICAL SECTION AND
SUPERELEVATION TRANSITIONS
Sta 13+00.00 TO Sta 16+06.31
Sta 35+91.74 TO Sta 38+00.00



SHOULDER TAPER SECTIONS
Sta 11+00.00 TO Sta 13+00.00
Sta 38+00.00 TO Sta 40+00.00

TYPICAL EXISTING STRUCTURAL SECTION

1 — 0.5' AC

ROUTE 266

TYPICAL CROSS SECTIONS

NO SCALE **X-1**

LAST REVISION | DATE PLOTTED => 27-MAR-2014
03-24-14 | TIME PLOTTED => 12:22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans
FUNCTIONAL SUPERVISOR: BRIAN WESLING
CALCULATED-DESIGNED BY: RON CHEGWIDDEN
CHECKED BY: ADAM ZUMSTEIN
REVISED BY | DATE REVISED

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ca001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

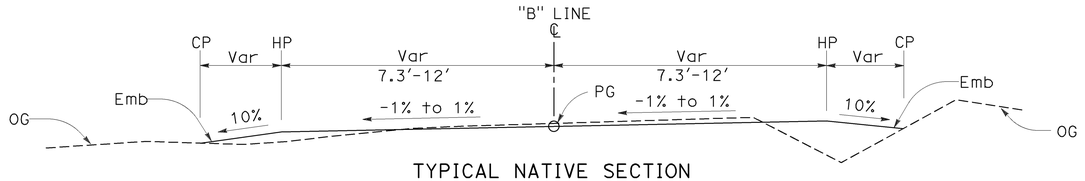
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	3	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

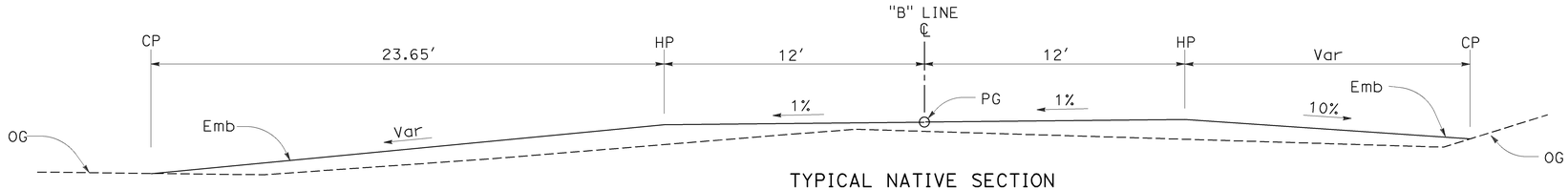
3-24-14
PLANS APPROVAL DATE

RONALD W. CHEGWIDDEN No. 048905 Exp 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

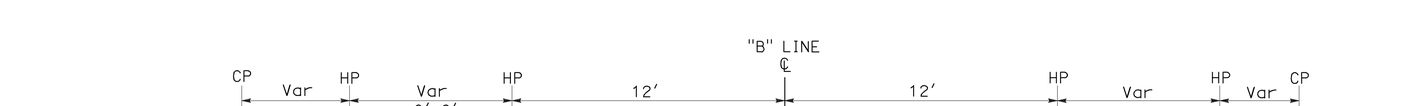
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



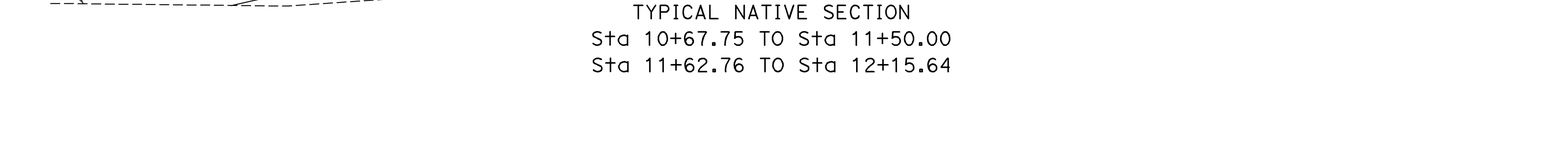
TYPICAL NATIVE SECTION
Sta 12+15.64 TO Sta 14+19.74



TYPICAL NATIVE SECTION
Sta 11+50.00 TO Sta 11+62.76



TYPICAL NATIVE SECTION
Sta 10+67.75 TO Sta 11+50.00
Sta 11+62.76 TO Sta 12+15.64



TYPICAL PAVED SECTION
Sta 10+34.00 TO Sta 10+67.75

POWERLINE ROAD

TYPICAL CROSS SECTIONS

NO SCALE **X-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: BRIAN WESLING
CALCULATED-DESIGNED BY: RON CHEGWIDDEN
CHECKED BY: ADAM ZUMSTEIN
REVISED BY / DATE REVISED:

LAST REVISION 03-24-14
DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:22

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ca002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	4	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

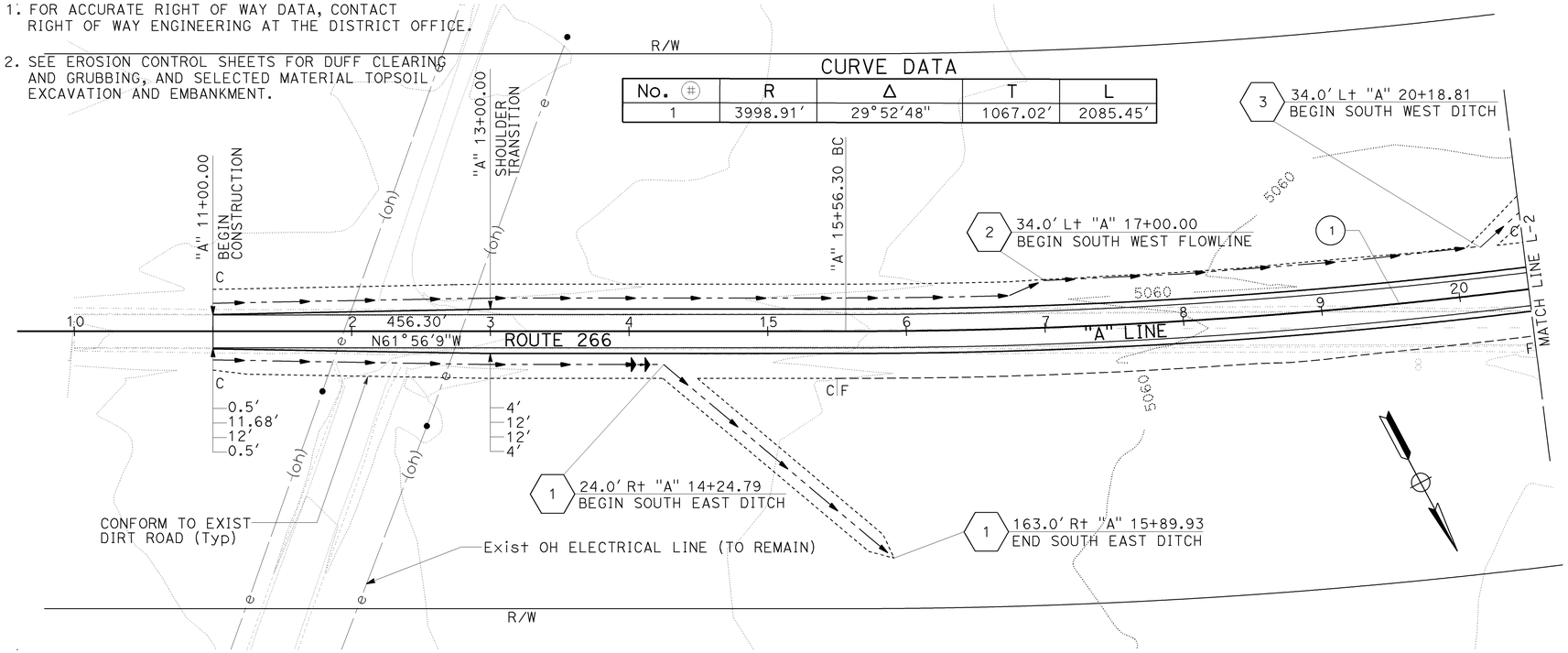
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. SEE EROSION CONTROL SHEETS FOR DUFF CLEARING AND GRUBBING, AND SELECTED MATERIAL TOPSOIL EXCAVATION AND EMBANKMENT.

CURVE DATA

No. (#)	R	Δ	T	L
1	3998.91′	29°52′48"	1067.02′	2085.45′



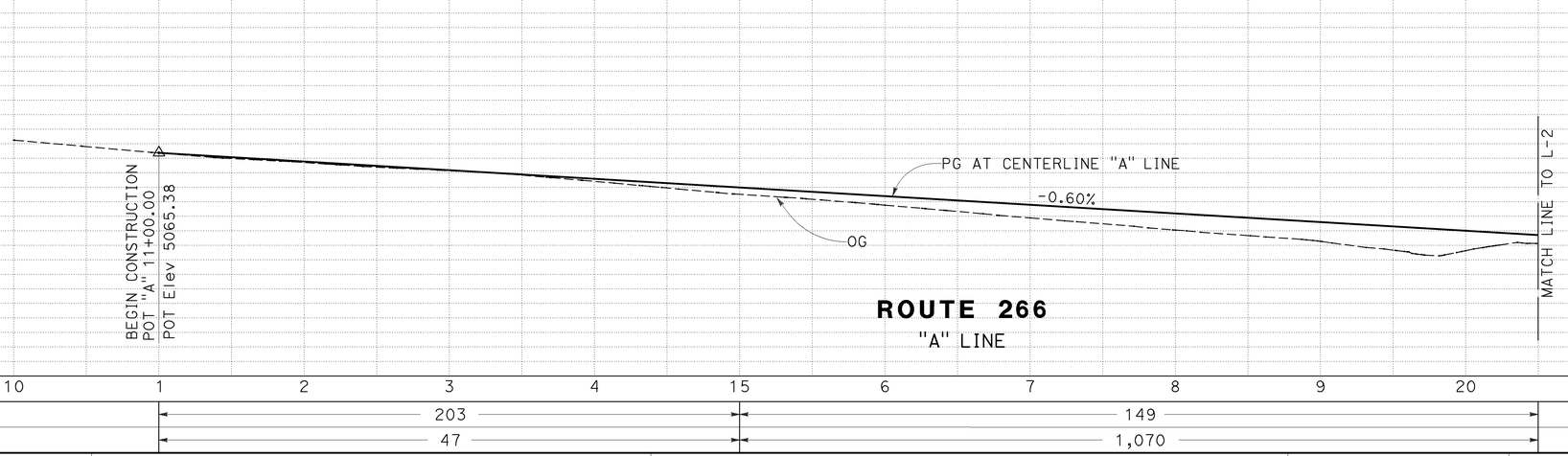
LEGEND:

▨ - OPTIONAL STAGING AREA

SCALE: 1" = 50′

NOTE:

ALL ELEVATIONS BASED ON NAVD 1988



ROUTE 266
"A" LINE

PLAN AND PROFILE
SCALE: Horiz 1" = 50′
Vert 1" = 5′ L-1

STATION		10	1	2	3	4	15	6	7	8	9	20	TOTAL
CY	Exc		203				149						352
	Emb		47				1,070						1,117

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

REVISED BY	DATE REVISED

ADAM ZUMSTEIN — CALCULATED-DESIGNED BY
RON CHEGWIDDEN — CHECKED BY
BRIAN WESLING — FUNCTIONAL SUPERVISOR

LAST REVISION DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:22
03-24-14

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ea001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	5	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

RONALD W. CHEGWIDDEN No. 048905 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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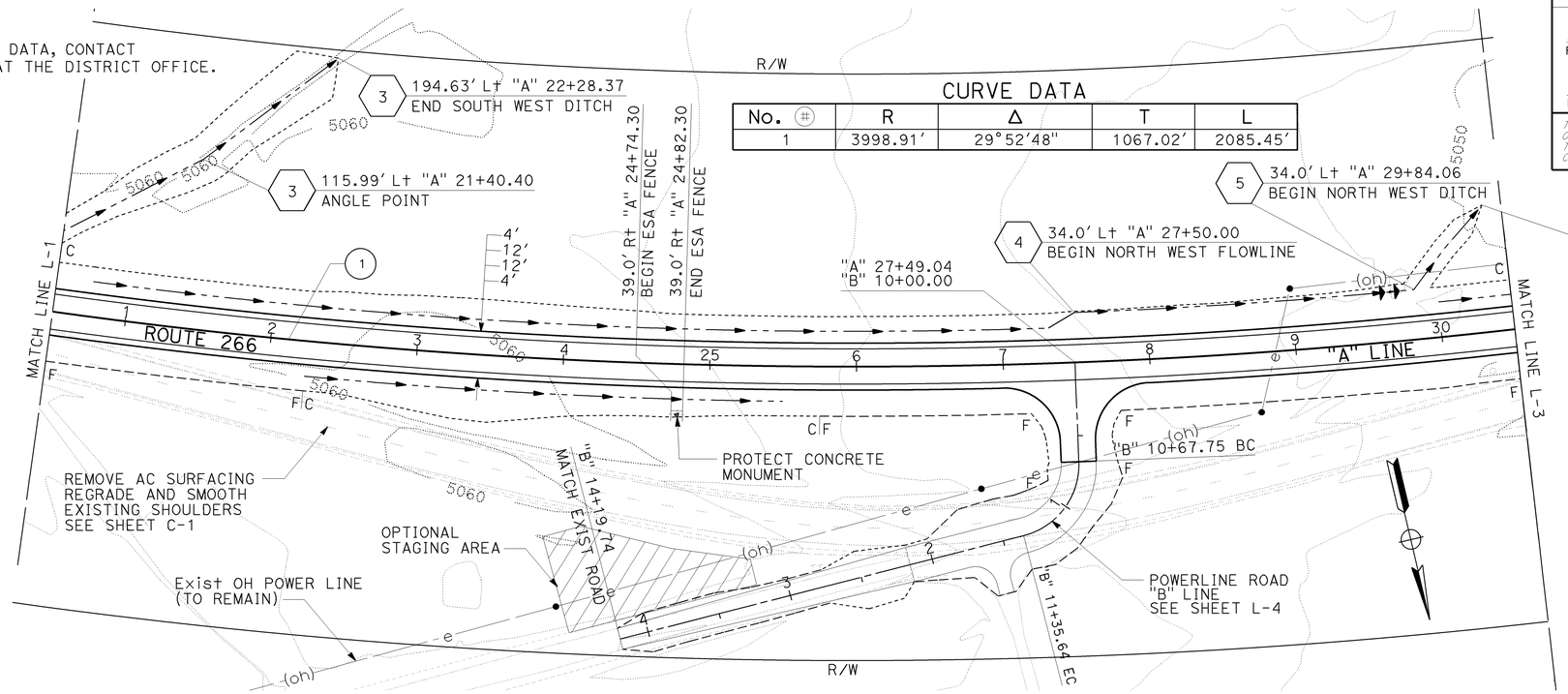
NOTE:

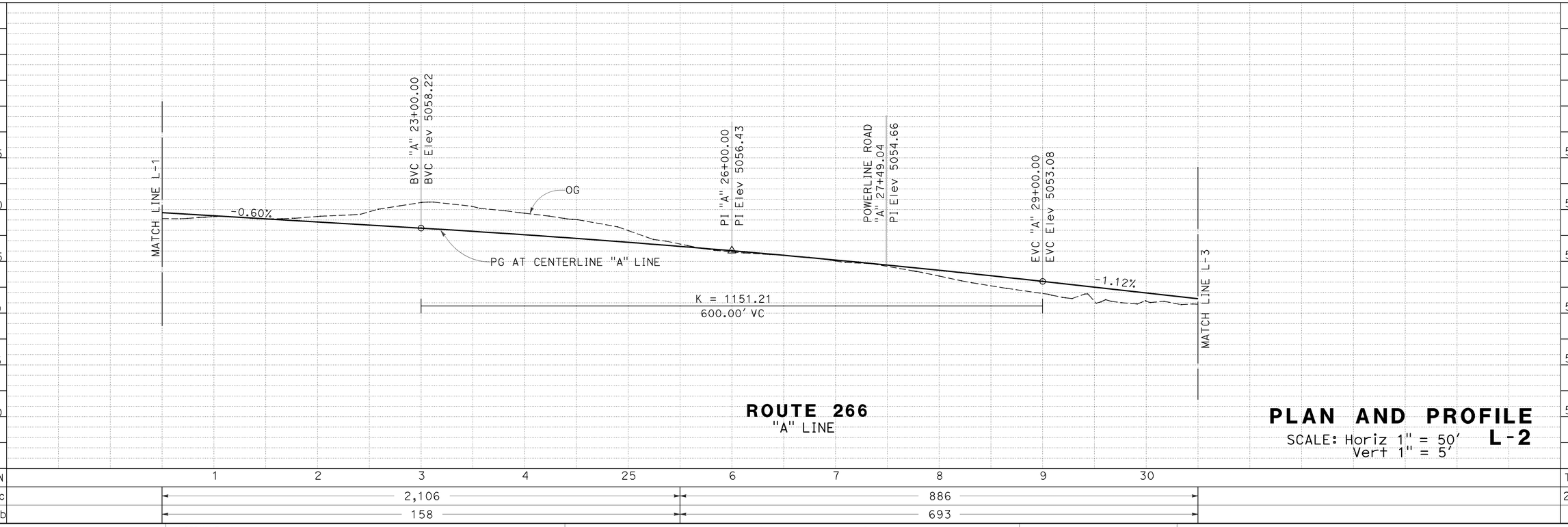
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



CURVE DATA

No. ⑪	R	Δ	T	L
1	3998.91'	29°52'48"	1067.02'	2085.45'

SCALE: 1" = 50'



ROUTE 266
"A" LINE

PLAN AND PROFILE
SCALE: Horiz 1" = 50' Vert 1" = 5'

L-2

STATION	1	2	3	4	25	6	7	8	9	30	TOTAL
CY Exc	2,106						886				2,992
CY Emb	158						693				851

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: BRIAN WESLING
CALCULATED-DESIGNED BY: ADAM ZUMSTEIN
CHECKED BY: RON CHEGWIDDEN
REVISED BY / DATE REVISED

LAST REVISION DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:22
03-24-14

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ea002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	6	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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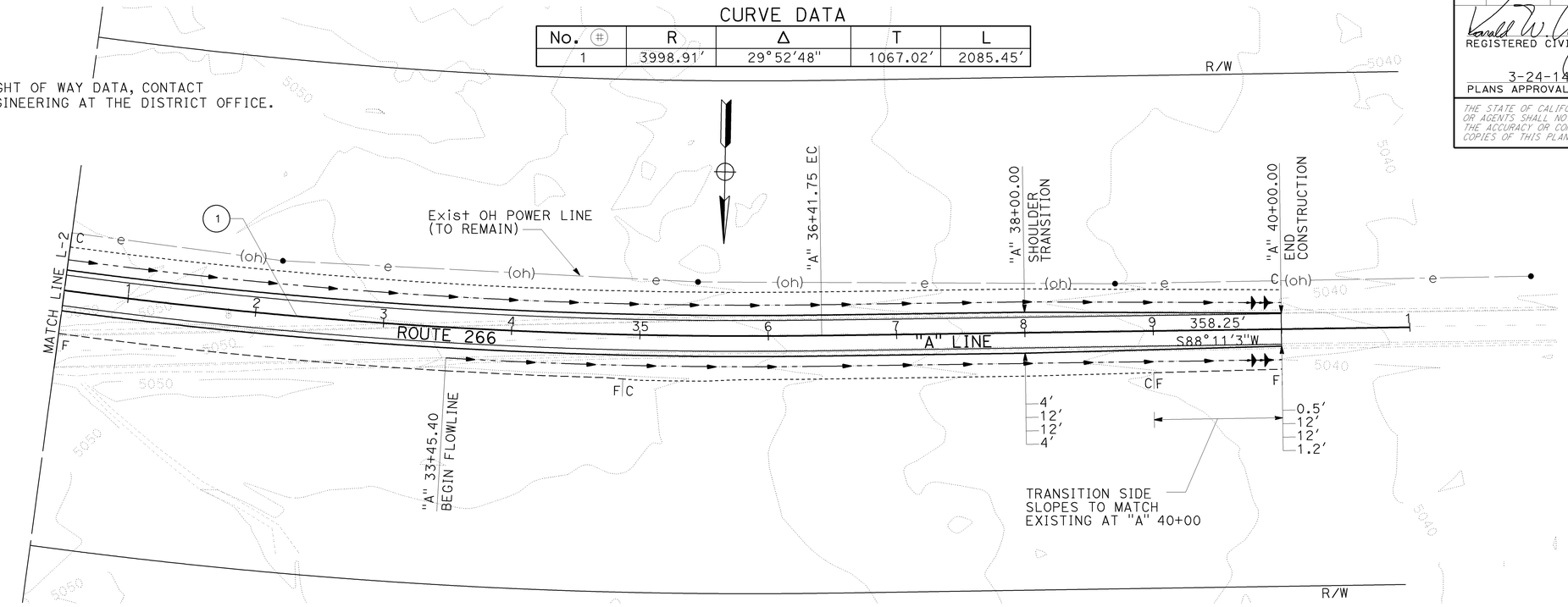
NOTE:

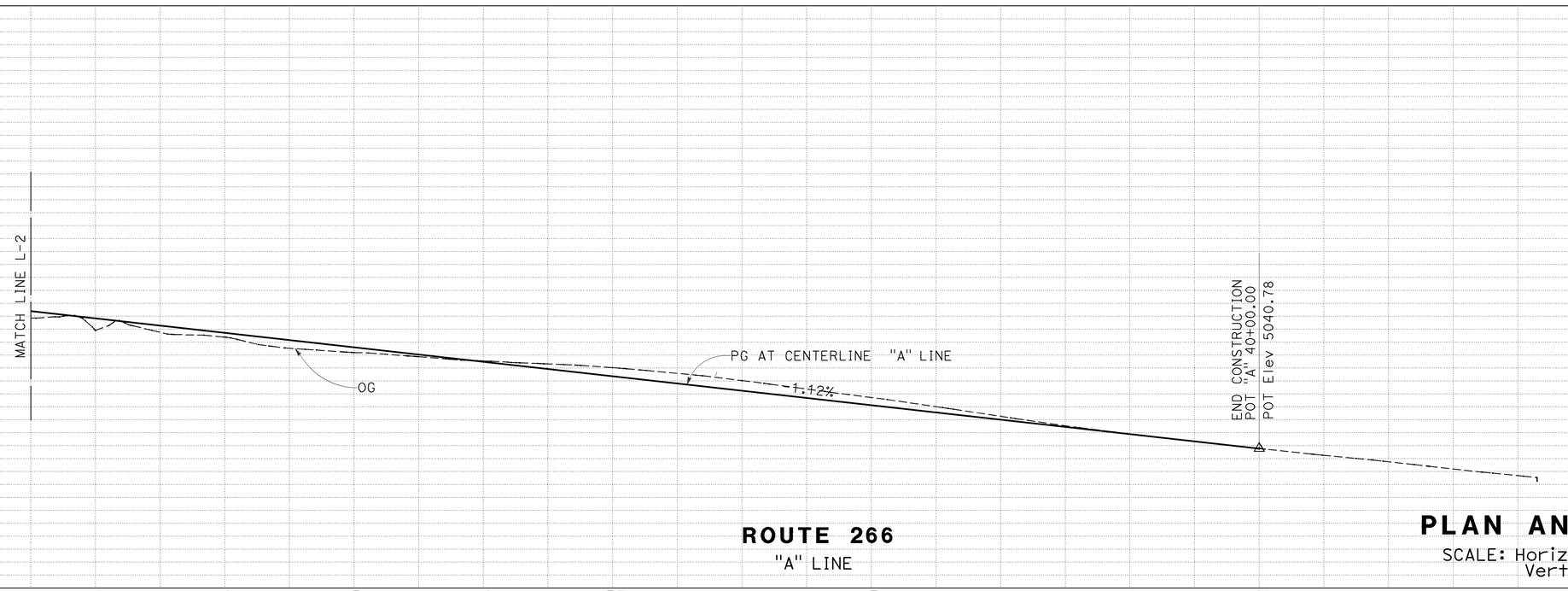
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (#)	R	Δ	T	L
1	3998.91′	29°52′48"	1067.02′	2085.45′



SCALE: 1" = 50′



ROUTE 266
"A" LINE

PLAN AND PROFILE
SCALE: Horiz 1" = 50′ Vert 1" = 5′ **L-3**

STATION		1	2	3	4	35	6	7	8	9	40	TOTAL
CY	Exc	491					546					1,037
	Emb	277					48					325

ADAM ZUMSTEIN — CALCULATED-DESIGNED BY
RON CHEGWIDDEN — CHECKED BY
REVISED BY — DATE REVISED
FUNCTIONAL SUPERVISOR: BRIAN WESLING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 27-MAR-2014
03-24-14 | TIME PLOTTED => 12:22

BORDER LAST REVISED 7/2/2010

USERNAME => s123915
DGN FILE => 934650ea003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1444

PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	7	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — RONALD W. CHEGWIDDEN — No. 048905 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

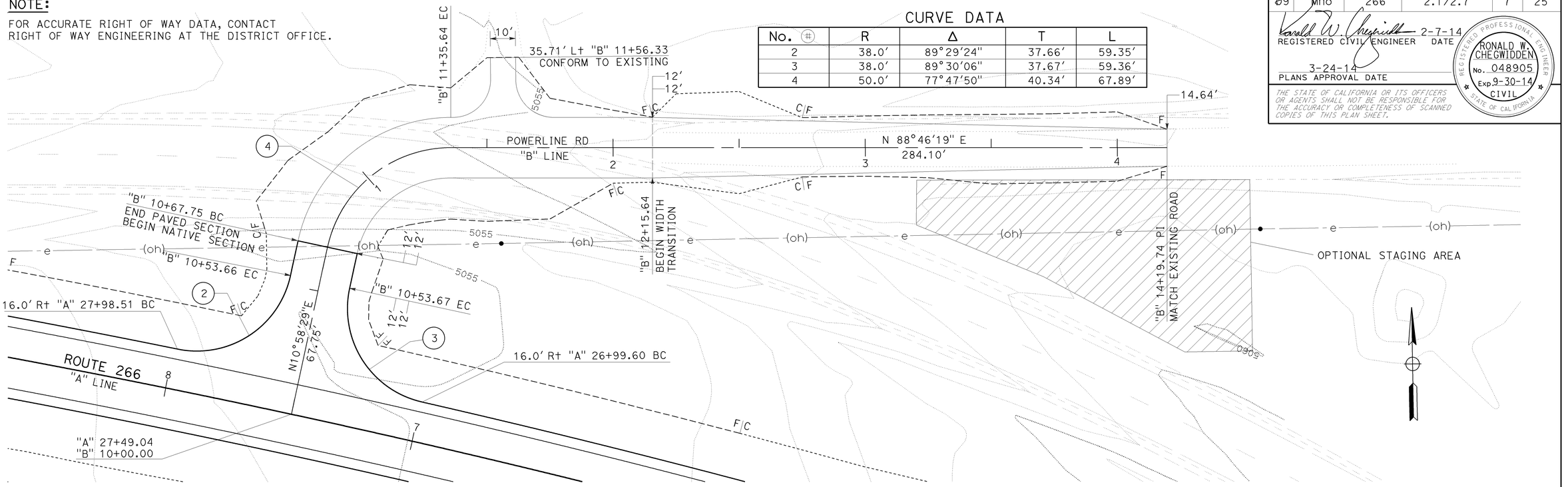
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

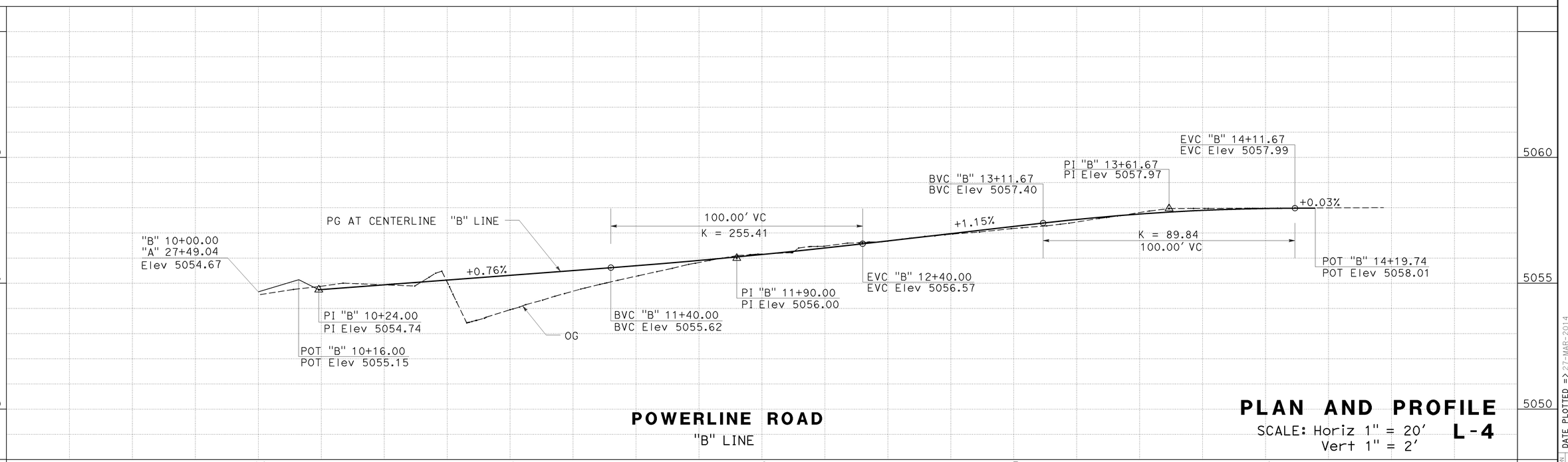
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No. (#)	R	Δ	T	L
2	38.0′	89°29′24"	37.66′	59.35′
3	38.0′	89°30′06"	37.67′	59.36′
4	50.0′	77°47′50"	40.34′	67.89′



SCALE: 1" = 20′



POWERLINE ROAD
"B" LINE

PLAN AND PROFILE
SCALE: Horiz 1" = 20′ **L-4**
Vert 1" = 2′

STATION	10	1	2	3	4	TOTAL
CY Exc		25				25
CY Emb		273				273

ADAM ZUMSTEIN — CALCULATED-DESIGNED BY
RON CHEGWIDDEN — CHECKED BY
REVISED BY — DATE REVISED
BRIAN WESLING — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION DATE PLOTTED => 27-MAR-2014
03-24-14 TIME PLOTTED => 12:22

BORDER LAST REVISED 7/2/2010

USERNAME => s123915
DGN FILE => 934650eq004.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1444

PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	8	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

RONALD W. CHEGWIDDEN No. 048905 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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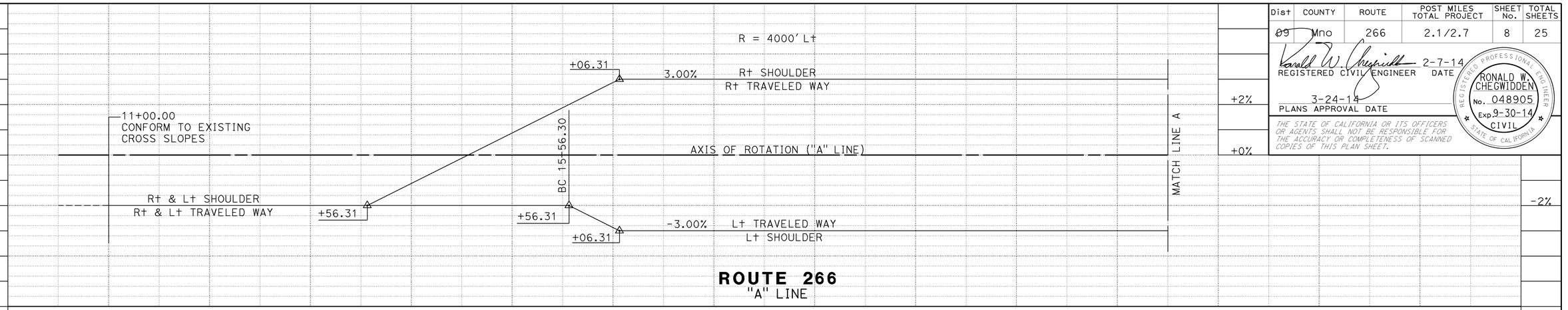

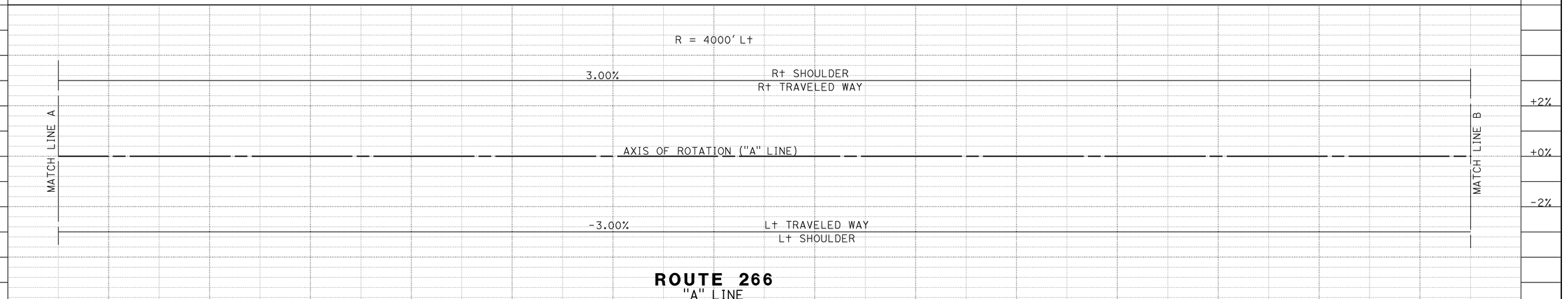

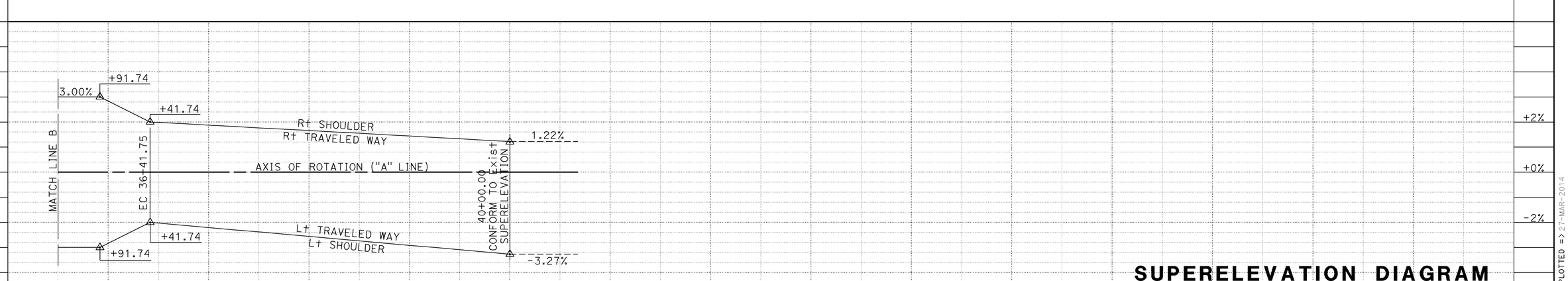

SUPERELEVATION DIAGRAM

SCALE: 1" = 50' **SE-1**

CALCULATED-DESIGNED BY: ADAM ZUMSTEIN
CHECKED BY: RON CHEGWIDDEN
FUNCTIONAL SUPERVISOR: BRIAN WESLING
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 03-24-14
DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:22

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650fc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	9	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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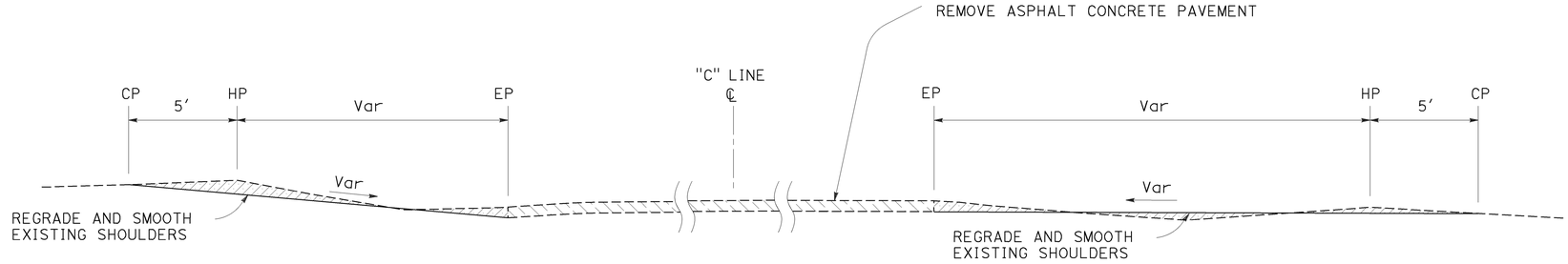
NOTE:

1. SEE EROSION CONTROL SHEETS FOR SELECTED MATERIAL TOPSOIL EMBANKMENT.



Sta 117+97.09 TO Sta 123+67.18
Sta 124+15.68 TO Sta 127+05.45

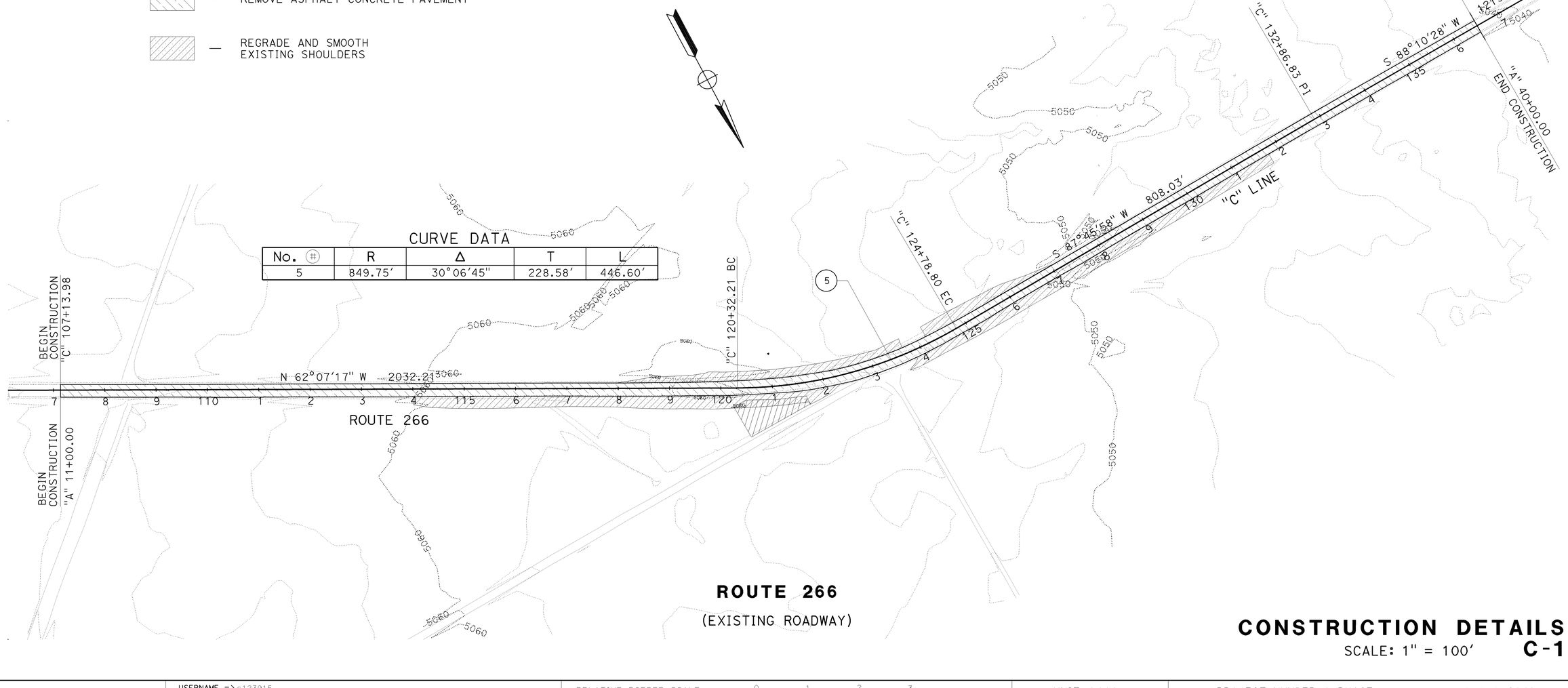
ROUTE 266

(EXISTING ROADWAY)

Sta 114+00.95 TO Sta 122+31.22
Sta 123+64.03 TO Sta 131+75.84

— REMOVE ASPHALT CONCRETE PAVEMENT

— REGRADE AND SMOOTH EXISTING SHOULDERS



ROUTE 266

(EXISTING ROADWAY)

CONSTRUCTION DETAILS

SCALE: 1" = 100'

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: BRIAN WESLING
CALCULATED-DESIGNED BY: ADAM ZUMSTEIN
CHECKED BY: RON CHEGWIDDEN
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 27-MAR-2014
03-24-14 | TIME PLOTTED => 13:26

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ga001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	10	25

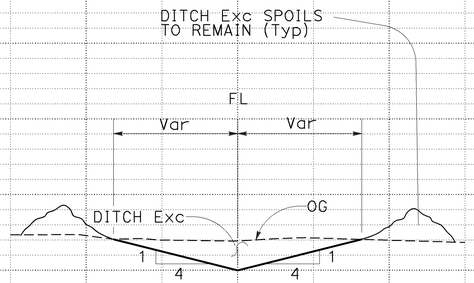
Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

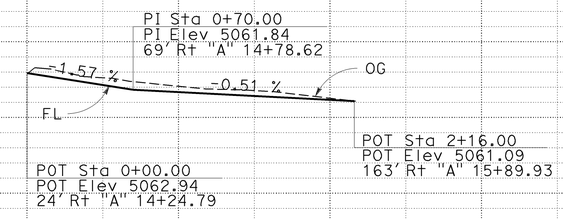
RONALD W. CHEGWIDDEN No. 048905 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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.

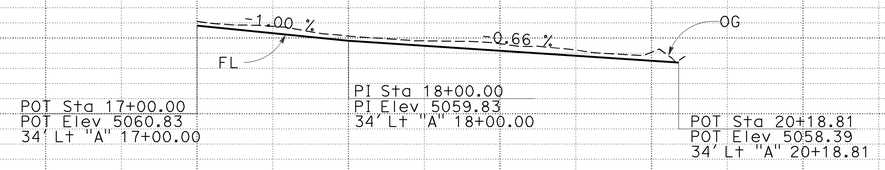
NOTE:
ALL ELEVATIONS BASED ON NAVD 1988

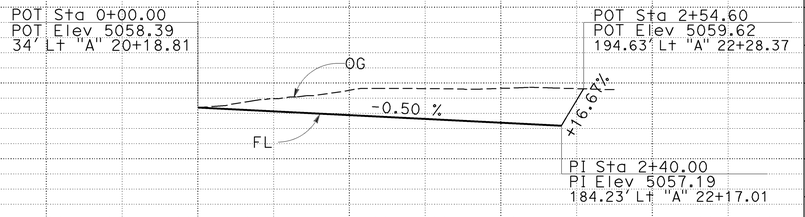


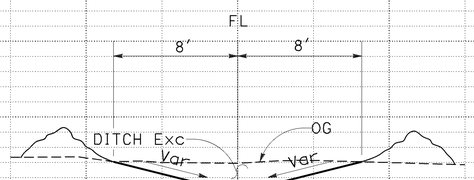
Typ DITCH SECTION
FOR DRAINAGE SYSTEM 3



1 STa 14+24.79
SOUTH EAST DITCH

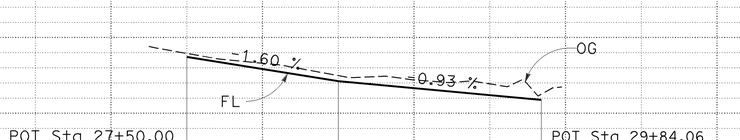




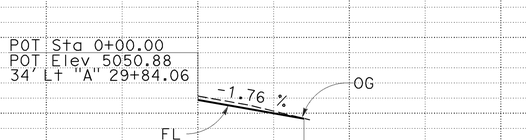


Typ DITCH SECTION
FOR DRAINAGE SYSTEMS 1,5

2 STa 17+00.00
SOUTH WEST FLOWLINE



3 STa 20+18.81
SOUTH WEST DITCH



4 STa 27+50.00
NORTH WEST FLOWLINE

5 STa 29+84.06
NORTH WEST DITCH

APPROVED FOR DRAINAGE WORK ONLY

DRAINAGE PROFILES

NO SCALE **DP-1**

STATION		TOTAL
CY	Exc	
	Emb	

ADAM ZUMSTEIN — REVISED BY
RON CHEGWIDDEN — DATE REVISED
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
BRIAN WESLING
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:22
03-24-14

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ib001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	11	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
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.

NOTES:

1. LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS AND PORTABLE CHANGEABLE MESSAGE SIGNS ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.
2. ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
3. MESSAGE MAY BE ALTERED BY THE ENGINEER.
4. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, PORTABLE CHANGEABLE MESSAGE SIGNS SHALL NOT DISPLAY A MESSAGE UNLESS DIRECTED BY THE ENGINEER.

LEGEND:

(X) - PLACEMENT TYPE

- CONSTRUCTION AREA SIGNS (ONE POST)

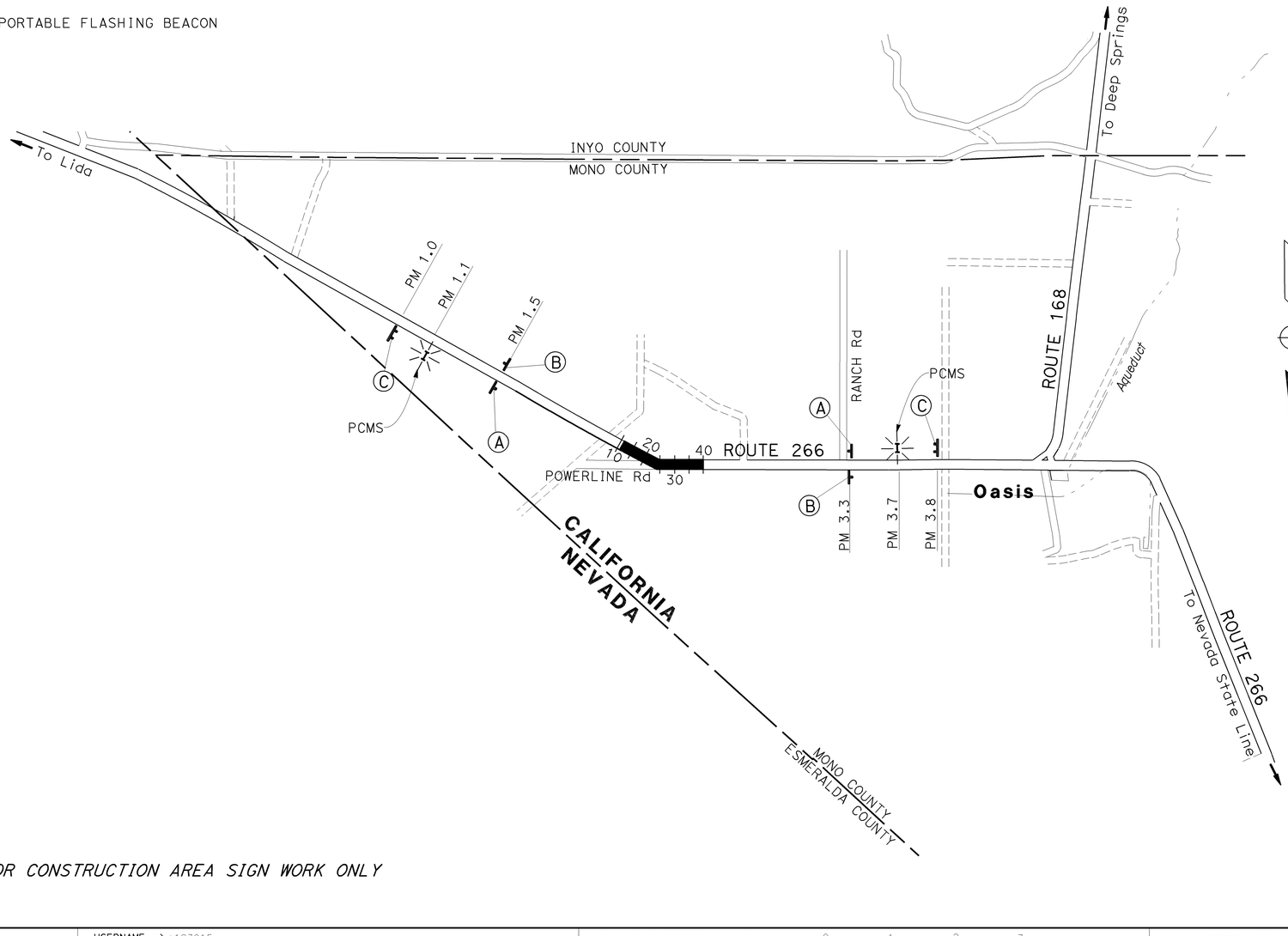
- PORTABLE CHANGEABLE MESSAGE SIGN

- PORTABLE FLASHING BEACON

Ⓐ ROAD WORK AHEAD — W20-1, 48" x 48", ON 6" x 6" POST

Ⓑ END ROAD WORK — G20-2, 36" x 18", 4" x 4" POSTS

Ⓒ TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES — C40, 108" x 42", ON 4" x 6" POSTS



PORTABLE CHANGEABLE MESSAGE SIGN

MESSAGING FOR REVERSIBLE TRAFFIC CONTROL		
FIRST PHASE	SECOND PHASE	THIRD PHASE
DIRT ROAD 1 MILE AHEAD	PREPARE TO STOP	EXPECT 20 MIN DELAYS

PORTABLE CHANGEABLE MESSAGE SIGN

LOCATION	EA
PM 1.1 FWBT	1
PM 3.7 FEBT	1
TOTAL	2

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

PLACEMENT TYPE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
Ⓐ	1 - 6" x 6"	2
Ⓑ	1 - 4" x 4"	2
Ⓒ	2 - 4" x 6"	2

PORTABLE FLASHING BEACON

LOCATION	EA
PM 1.5 FWBT	1
PM 3.3 FEBT	1
TOTAL	2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: ADAM ZUMSTEIN
CHECKED BY: RON CHEGWIDDEN
FUNCTIONAL SUPERVISOR: BRIAN WESLING

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

LAST REVISION: DATE PLOTTED => 27-MAR-2014
03-24-14 TIME PLOTTED => 12:22

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	12	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

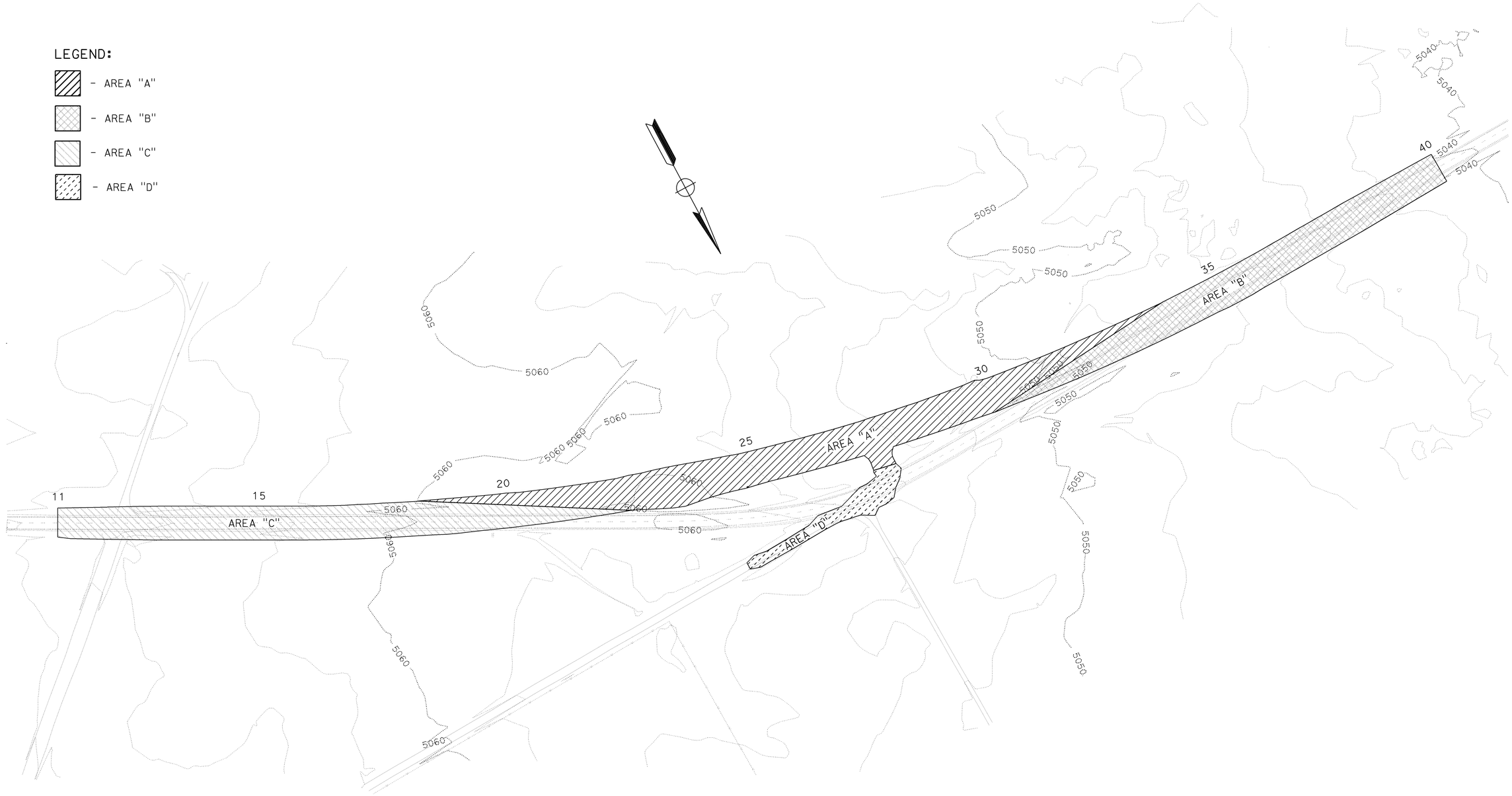
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STAGE CONSTRUCTION

1: CONSTRUCT AREA "A" TO TOP OF BASE. STOCKPILE EXCESS MATERIAL WHERE NEEDED. MAINTAIN TRAFFIC ON EXISTING ALIGNMENT.
2: REMOVE EXISTING ROAD AND CONSTRUCT AREA "B" TO TOP OF BASE. MAINTAIN 24 HOUR TRAFFIC CONTROL IN ACCORDANCE WITH Std PLAN T-13.
3: REMOVE EXISTING ROAD AND CONSTRUCT AREA "C" TO TOP OF BASE. MAINTAIN 24 HOUR TRAFFIC CONTROL IN ACCORDANCE WITH Std PLAN T-13.
4: PAVE NEW ROADWAY. MAINTAIN ONE-WAY REVERSIBLE TRAFFIC CONTROL DURING PAVING OPERATIONS.
5: REMOVE REMAINDER OF EXISTING ROAD, CONSTRUCT AREA "D", INSTALL ALL EROSION CONTROL.

LEGEND:

- AREA "A"
- AREA "B"
- AREA "C"
- AREA "D"



APPROVED FOR STAGE CONSTRUCTION WORK ONLY

STAGE CONSTRUCTION

SCALE: 1" = 100' **SC-1**

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
ADAM ZUMSTEIN
RON CHEGWIDDEN
FUNCTIONAL SUPERVISOR
BRIAN WESLING
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 27-MAR-2014
03-24-14 | TIME PLOTTED => 13:26

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650ma001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	13	25

11-7-13
REGISTERED CIVIL ENGINEER DATE

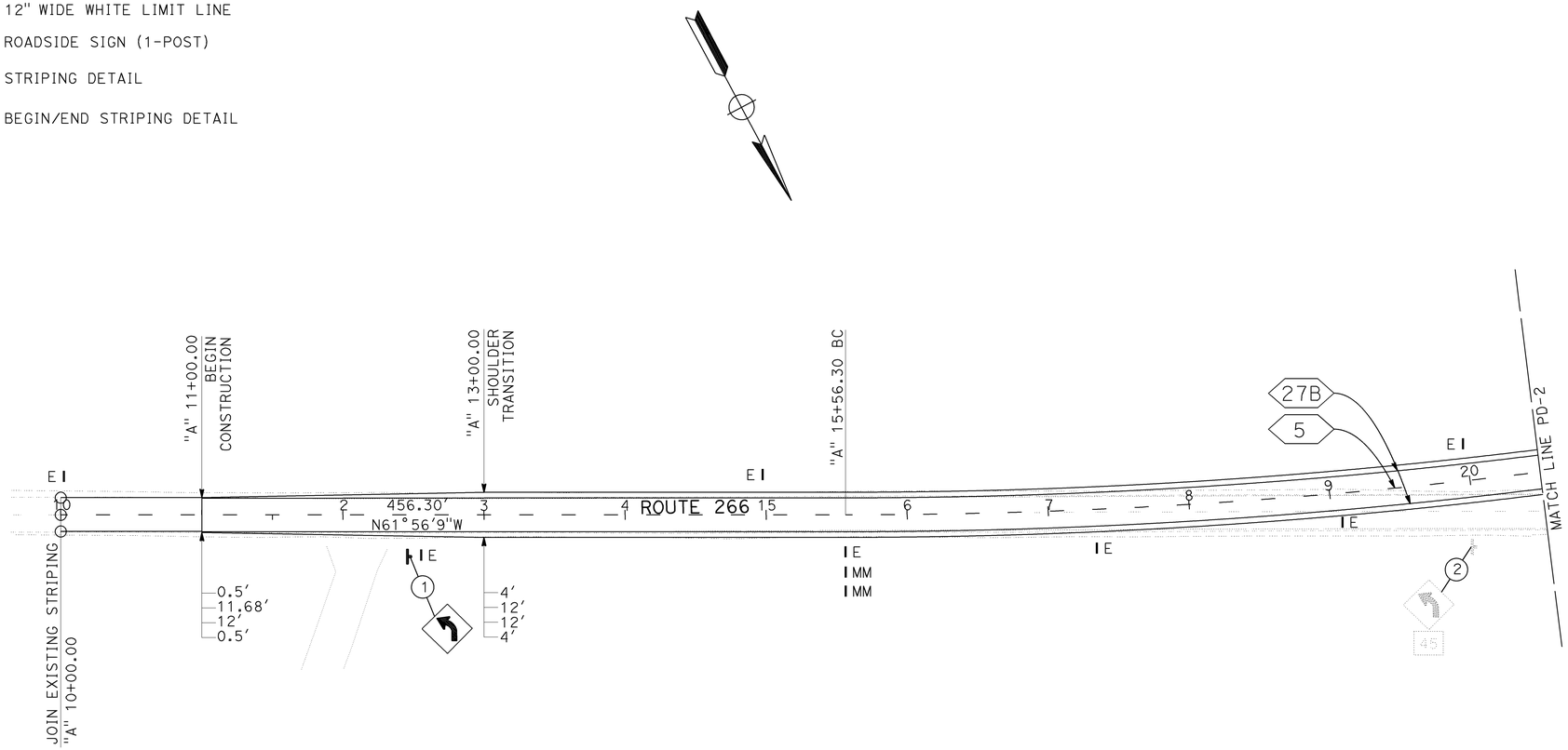
3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DONNA HOLLAND
No. 64205
Exp 6-30-15
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:

- IE, IF - DELINEATOR (CLASS 2)
- IMM - MILEPOST MARKER
- (X) - SIGN NUMBER
- — - 12" WIDE WHITE LIMIT LINE
- H - ROADSIDE SIGN (1-POST)
- XX - STRIPING DETAIL
- ○ - BEGIN/END STRIPING DETAIL



APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-1

CALCULATED-DESIGNED BY
CHECKED BY
JOEL NASH
DONNA HOLLAND
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR
TERRY ERLWEIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION
DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:25
03-24-14

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650na001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
PROJECT NUMBER & PHASE 09000002141

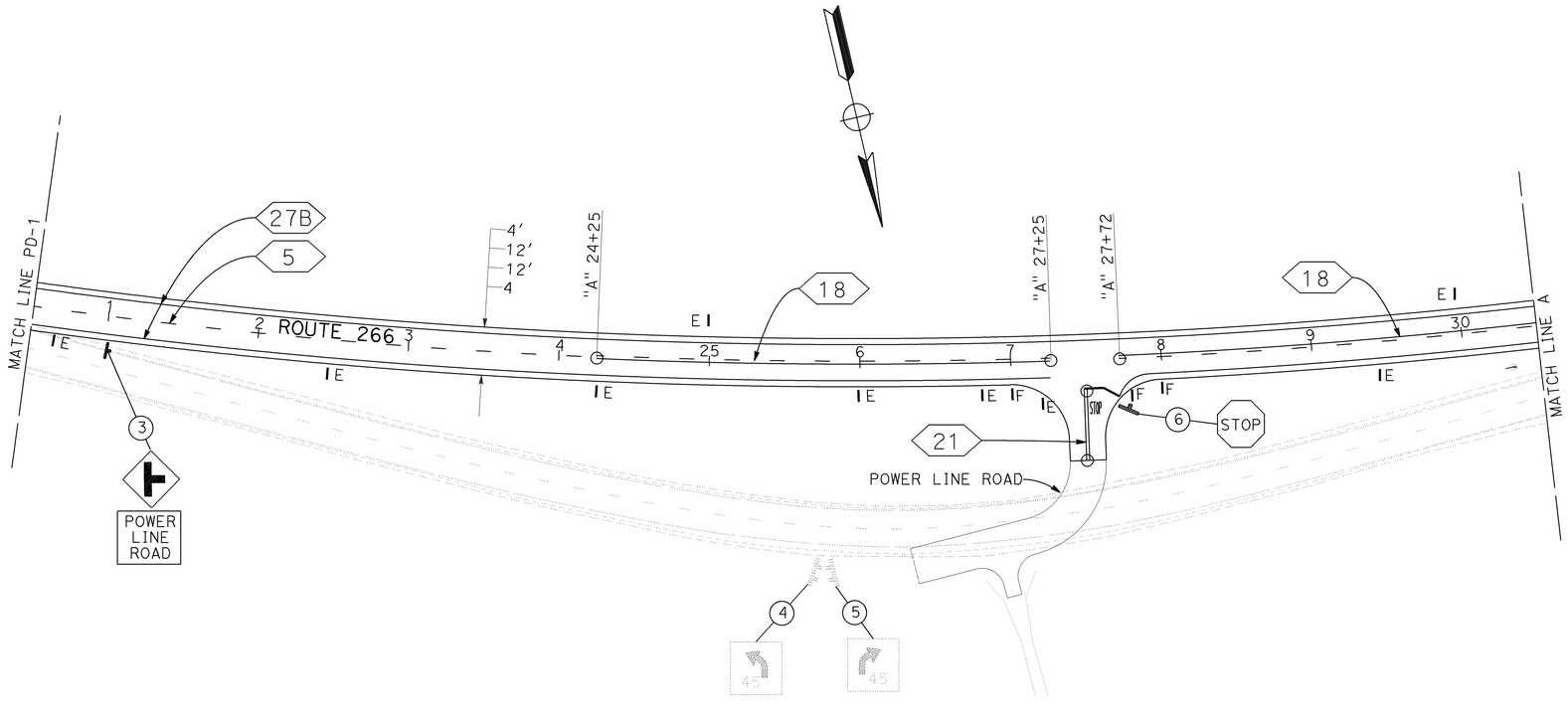
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	14	25

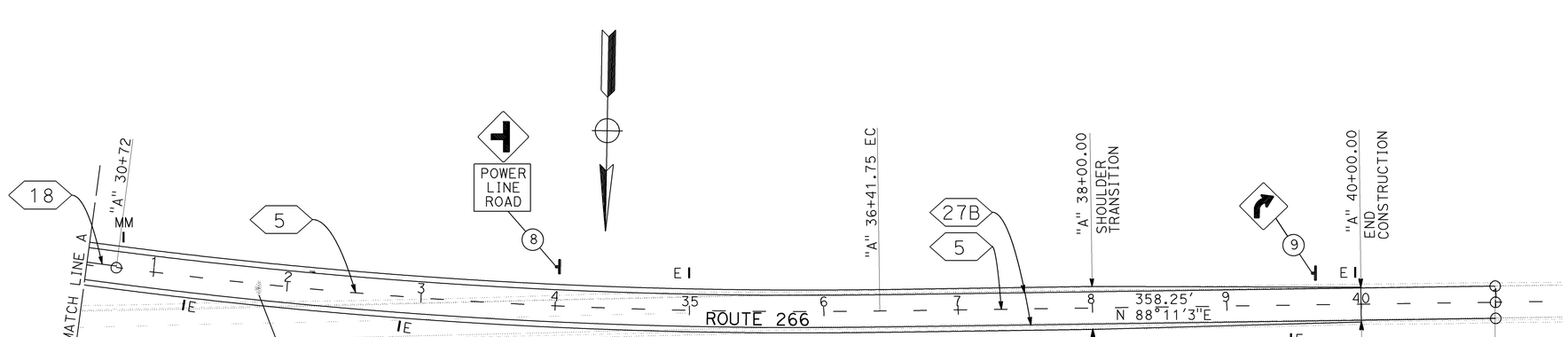
11-7-13
REGISTERED CIVIL ENGINEER DATE

DONNA HOLLAND
No. 64205
Exp 6-30-15
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-24-14
PLANS APPROVAL DATE

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.





APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1" = 50'

PD-2

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: JOEL NASH
CHECKED BY: DONNA HOLLAND
FUNCTIONAL SUPERVISOR: TERRY ERLWEIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

LAST REVISION 03-24-14
DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	15	25

REGISTERED CIVIL ENGINEER 11-7-13 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DONNA HOLLAND No. 64205 Exp. 6-30-15 CIVIL STATE OF CALIFORNIA

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NOTE:
1. (N) NOT A SEPARATE ITEM, FOR INFORMATION ONLY.

PAINT TRAFFIC STRIPE (2-COAT)

STATION TO STATION (LOCATION)			LENGTH (N)	DETAIL No. 5	18	21	27B
			LF	LF	LF	LF	LF
"A" 10+00	-	"A" 24+25	1425	1425			2850
"A" 24+25	-	"A" 27+25	300		300		600
"A" 27+25	-	"A" 27+72	47				47
"A" 27+72	-	"A" 30+72	300		300		600
"A" 30+72	-	"A" 41+00	1028	1028			2056
POWERLINE ROAD			50			50	
SUBTOTAL				2453	600	50	6153
TOTAL				9256			

PAINT PAVEMENT MARKING (2-COAT)

(LOCATION)	MARKING 12" WHITE LIMIT LINE	"STOP"
	SQ FT	SQ FT
POWERLINE ROAD	25	22
SUBTOTAL	25	22
TOTAL	47	

MILEPOST MARKER

STATION	Lt	Rt	MILEPOST MARKER EA	MESSAGE
"A" 15+56		X	1	MNO 266 PM 2.213 BK
"A" 15+56		X	1	MNO 266 PM R 2.213 AHD
"A" 30+71	X		1	MNO 266 PM R 2.5
"A" 36+42		X	1	MNO 266 PM R 2.608 BK
"A" 36+42		X	1	MNO 266 PM 2.615 AHD
TOTAL			5	

DELINEATORS (CLASS 2)

Sta	Lt	Rt	DELINEATOR (CLASS 2) TYPE E	TYPE F	REMARKS
			EA	EA	
"A" 06+56		X	1		NOT SHOWN ON PD 1
"A" 09+56		X	1		NOT SHOWN ON PD 1
"A" 10+00	X		1		
"A" 12+56		X	1		
"A" 15+00	X		1		
"A" 15+56		X	1		
"A" 17+30		X	1		
"A" 19+04		X	1		
"A" 20+00	X		1		
"A" 20+77		X	1		
"A" 22+51		X	1		
"A" 24+25		X	1		
"A" 25+00	X		1		
"A" 25+99		X	1		
"A" 26+80		X	1		
"A" 27+00		X		1	
"A" 27+20		X	1		
"A" 27+80		X		1	
"A" 28+00		X		1	
"A" 29+47		X	1		
"A" 30+00	X		1		
"A" 31+20		X	1		
"A" 32+94		X	1		
"A" 34+67		X	1		
"A" 35+00	X		1		
"A" 36+41		X	1		
"A" 39+41		X	1		
"A" 40+00	X		1		
"A" 42+41		X	1		NOT SHOWN ON PD 2
"A" 45+41		X	1		NOT SHOWN ON PD 2
SUBTOTAL			27	3	
TOTAL			30		

REMOVE MARKERS AND DELINEATORS

Sta TO Sta	REMOVE MARKER	REMOVE DELINEATOR
	EA	EA
"C" 106+14 TO "C" 136+52	2	38
TOTAL	2	38

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

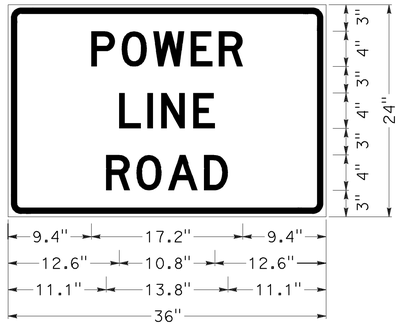
PAVEMENT DELINEATION QUANTITIES
NO SCALE
PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS

FUNCTIONAL SUPERVISOR: TERRY ERLWEIN
CALCULATED-DESIGNED BY: JOEL NASH
CHECKED BY: DONNA HOLLAND
REVISED BY
DATE REVISED

LAST REVISION 03-24-14
DATE PLOTTED => 27-MAR-2014
TIME PLOTTED => 12:23

NOTES:
1. EXACT LOCATION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.



NOTES FOR W16-8 Mod
BLACK ON YELLOW
LINE 1 4 D FONT
LINE 2 4 D FONT
LINE 3 4 D FONT
0.625" BORDER, 0.375" INDENT
1.5" CORNER RADIUS, UNTRIMMED CORNERS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	16	25

11-7-13
REGISTERED CIVIL ENGINEER DATE

DONNA HOLLAND
No. 64205
Exp 6-30-15
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-24-14
PLANS APPROVAL DATE

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.

SIGN SUMMARY

SIGN NUMBER	STATION	LEFT	RIGHT	CODE	MESSAGE	SIZE (L x D)	REMOVE ROADSIDE SIGN (ONE POST)	FURNISH SINGLE SHEET ALUMINUM SIGN: ROADSIDE SIGN (ONE POST) 0.063"-UNFRAMED	SINGLE FACED	SIGN MATERIALS: BACKGROUND SHEETING COLOR	BACKGROUND RETROREFLECTIVE ASTM TYPE	LEGEND SHEETING COLOR	LEGEND RETROREFLECTIVE ASTM TYPE	GRAFFITI FILM STANDARD	GRAFFITI FILM PREMIUM	POSTS SIZE	FNBT	FSBT	FEBT	FWBT	REMARKS
						in x in	EA	SQFT								in x in					
1	"A" 12+50		X	W1-2 L	CURVE LEFT	36" x 36"		9.00	X	YELLOW	III	BLACK		X		4" x 6"	X				
2	"A" 20+00		X	W1-2 L	CURVE LEFT	-	1										X				
				W13-1	45 MPH	-											X				
3	"A" 21+00		X	W2-2 R	TEE INTERSECTION RIGHT	36" x 36"		9.00	X	YELLOW	III	BLACK		X		6" x 6"	X				
				W16-8 Mod	POWER LINE ROAD	36" x 24"		6.00	X	YELLOW	III	BLACK		X							SEE DETAIL THIS SHEET
4	"A" 25+55		X	W4-7.1 (CA) L	CURVE LEFT 45	-	1										X				
5	"A" 25+60		X	W4-7.1 (CA) R	CURVE RIGHT 45	-	1											X			
6	"A" 27+73		X	R1-1	STOP	36" x 36"		9.00	X	RED	VII	WHITE	VII	X		4" x 6"				X	
7	"A" 31+79		X	W1-2 R	CURVE RIGHT	-	1											X			
				W13-1	45 MPH	-												X			
8	"A" 34+00	X		W2-2 L	TEE INTERSECTION LEFT	36" x 36"		9.00	X	YELLOW	III	BLACK		X		6" x 6"		X			
				W16-8 Mod	POWER LINE ROAD	36" x 24"		6.00	X	YELLOW	III	BLACK		X							SEE DETAIL THIS SHEET
9	"A" 39+70	X		W1-2 R	CURVE RIGHT	36" x 36"		9.00	X	YELLOW	III	BLACK		X		4" x 6"		X			
						TOTAL	4	5	57.00												

APPROVED FOR SIGN WORK ONLY

SIGN DETAILS AND QUANTITIES
NO SCALE **SQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC OPERATIONS
FUNCTIONAL SUPERVISOR: TERRY ERLWEIN
CALCULATED-DESIGNED BY: JOEL NASH
CHECKED BY: DONNA HOLLAND
REVISED BY / DATE REVISED

LAST REVISION: DATE PLOTTED => 27-MAR-2014
03-24-14 TIME PLOTTED => 12:23

BORDER LAST REVISED 7/2/2010
USERNAME => s123915
DGN FILE => 934650oc001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1444
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

RONALD W. CHEGWIDDEN No. 048905 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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.

ROADWAY QUANTITIES

LOCATION	STATION TO STATION	REMOVE ASPHALT CONCRETE PAVEMENT	ROADWAY EXCAVATION	EMBANKMENT (N)	CLASS 2 AGGREGATE BASE	HMA, SUPERPAVE (TYPE A)	TACK COAT	REMARKS
		CY	CY	CY	CY	TON	TON	
NEW ROUTE 266	"A" 11+00 TO "A" 40+00		2539	2293	1524	2401	2.12	
NEW ROUTE 266	"A" 17+00 TO "A" 36+42		1537	1537				SELECTED MATERIAL TOPSOIL
POLE LINE ROAD	"B" 10+16 TO "B" 14+19.74		25	265	31	48	0.04	
Exist ROUTE 266	"C" 107+13.98 TO "C" 136+52.10	1440						
Exist ROUTE 266	"C" 114+00.95 TO "C" 131+75.84		305					REGRADE EXIST SLOPES
NEW ROUTE 266	SEE SAFETY EDGE TABLE					46		
	TOTAL	1440	4406	4095	1555	2495	2.16	

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

TEMPORARY FENCE (TYPE ESA)

SHEET No.	STATION TO STATION	TEMPORARY FENCE (TYPE ESA)
		LF
L-2	"A" 24+74.30 TO "A" 24+82.30	22
TOTAL		22

DITCH EXCAVATION

LOCATION	STATION TO STATION	DITCH EXCAVATION
		CY
(1) SOUTH EAST DITCH	0+00 TO 2+16	22
(3) SOUTH WEST DITCH	0+00 TO 2+54.60	281
(5) NORTH WEST DITCH	0+00 TO 0+70	4
TOTAL		307

TEMPORARY CHECK DAM

STATION	L†	R†	TEMPORARY CHECK DAM LF	DESCRIPTION
"A" 14+04.79		X	10	TYPE I
"A" 14+14.79		X	10	TYPE I
"A" 29+64.06	X		10	TYPE I
"A" 29+74.06	X		10	TYPE I
"A" 39+80.00	X		10	TYPE I
"A" 39+90.00	X		10	TYPE I
"A" 39+80.00		X	10	TYPE I
"A" 39+90.00		X	10	TYPE I
TOTAL			80	

SAFETY EDGE

SHEET No.	STATION	DIRECTION	(N) TOTAL THICKNESS OF SAFETY EDGE	(N) LENGTH SAFETY EDGE	HMA, SUPERPAVE * (TYPE A)
			FT	LF	TON
L-1 TO L-3	"A" 11+00 TO "A" 40+00	EB	0.35	2,900	23.6
L-1 TO L-2	"A" 11+00 TO "A" 27+00	WB	0.35	1,600	13.0
L-2 TO L-3	"A" 27+99 TO "A" 40+00	WB	0.35	1,201	9.8
TOTAL					46.4

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* QUANTITY INCLUDED IN ROADWAY QUANTITIES TABLE

TREATED WOOD WASTE

SIGN NUMBER	LOCATION	CODE	POST SIZE	TREATED WOOD WASTE
				LB
2	"A" 20+00 R	W1-2 L	4" x 6"	50
4	"A" 25+55 R	W4-7.1 L	6" x 6"	85
5	"A" 25+60 R	W4-7.1 R	6" x 6"	85
7	"A" 31+79 R	W1-2 R	4" x 6"	50
TOTAL				270

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
ADAM ZUMSTEIN | RON CHEGWIDDEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: BRIAN WESLING
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION | DATE PLOTTED => 27-MAR-2014
03-24-14 | TIME PLOTTED => 12:23

BORDER LAST REVISED 7/2/2010 | USERNAME => s123915 | DGN FILE => 934650pq001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1444 | PROJECT NUMBER & PHASE 09000002141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	18	25

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
James S. Hibbert III LA 5768
Signature
5-31-15
Renewal Date
3-24-14
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.

SEED MIX

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	ACHNATHERUM HYMENOIDES (RICE GRASS)	70	4
	ARTEMISIA SPINESCENS (BUD SAGE)	50	2
	ARTEMISIA TRIDENTATA (GREAT BASIN SAGEBRUSH)	65	2
	ATRIPLEX CONFERTIFOLIA (SHADESCALE SALTBUSH)	25	2
	CHRYSOTHAMNUS NAUSEOSUS (RABBIT BRUSH)	50	2
	DISTICHLIS SPICATA (INLAND SALTGRASS)	70	2
	LUPINUS ARGENTEUS SILVER LUPINE	45	2

EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL		APPLICATION RATE	DEPTH	REMARKS
		DESCRIPTION	TYPE			
STEP 1	DUFF	DUFF				
STEP 2	INCORPORATE MATERIALS	DUFF			12 INCHES	
STEP 3	DRY SEED	SEED	MIX 1	16 LBS/ACRE		
STEP 4	STRAW	STRAW	RICE	2 TONS/ACRE		
STEP 5	INCORPORATE MATERIALS	STRAW				

ROADWAY EROSION CONTROL QUANTITIES

EROSION CONTROL LOCATION NUMBER	DESCRIPTION	AREA (N)	DUFF	EROSION CONTROL (DRY SEED)	STRAW	INCORPORATE MATERIALS		REMARKS
						DUFF	STRAW	
		SQFT	ACRE	SQFT	SQFT	SQFT	SQFT	
1	EROSION CONTROL TYPE 1	1,100	0.03	1,100	1,100	1,100	1,100	
2	EROSION CONTROL TYPE 1	800	0.02	800	800	800	800	
3	EROSION CONTROL TYPE 1	29,000	0.67	29,000	29,000	29,000	29,000	
4	EROSION CONTROL TYPE 1	57,500	1.32	57,500	57,500	57,500	57,500	
5	EROSION CONTROL TYPE 1	4,600	0.10	4,600	4,600	4,600	4,600	
6	EROSION CONTROL TYPE 1	42,500	0.97	42,500	42,500	42,500	42,500	
	TOTAL	135,500	3.11	135,500	135,500	271,000		

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

EROSION CONTROL QUANTITIES AND LEGEND ECL-1

CALCULATED-DESIGNED BY: JIM HIBBERT
CHECKED BY: RON CHEGWIDDEN
SENIOR LANDSCAPE ARCHITECT: RON FLORY
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

REVISED BY | DATE REVISED

LAST REVISION 03-24-14 | DATE PLOTTED => 27-MAR-2014 | TIME PLOTTED => 12:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
~~09~~	Mno	266	2.1/2.7	19	25

Ronald W. Chegwidden 2-7-14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RONALD W. CHEGWIDDEN
No. 048905
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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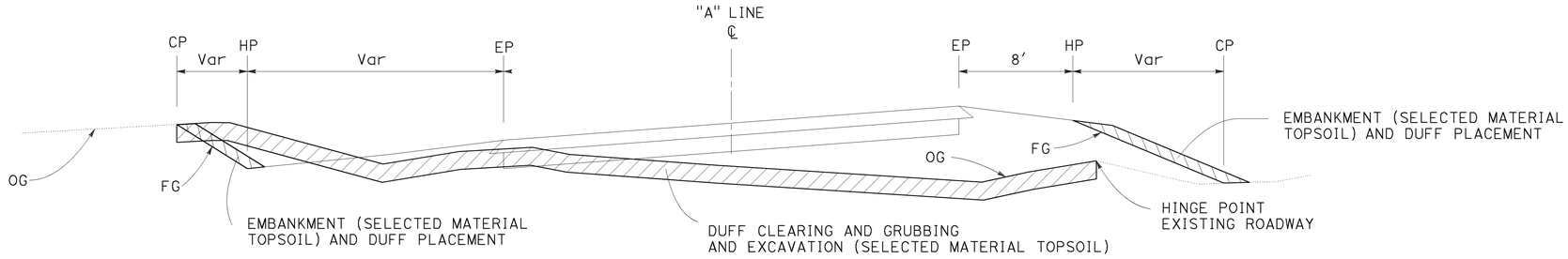
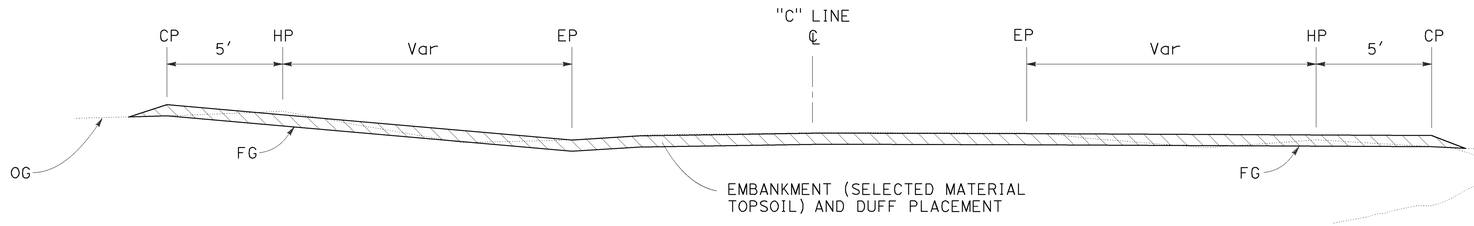
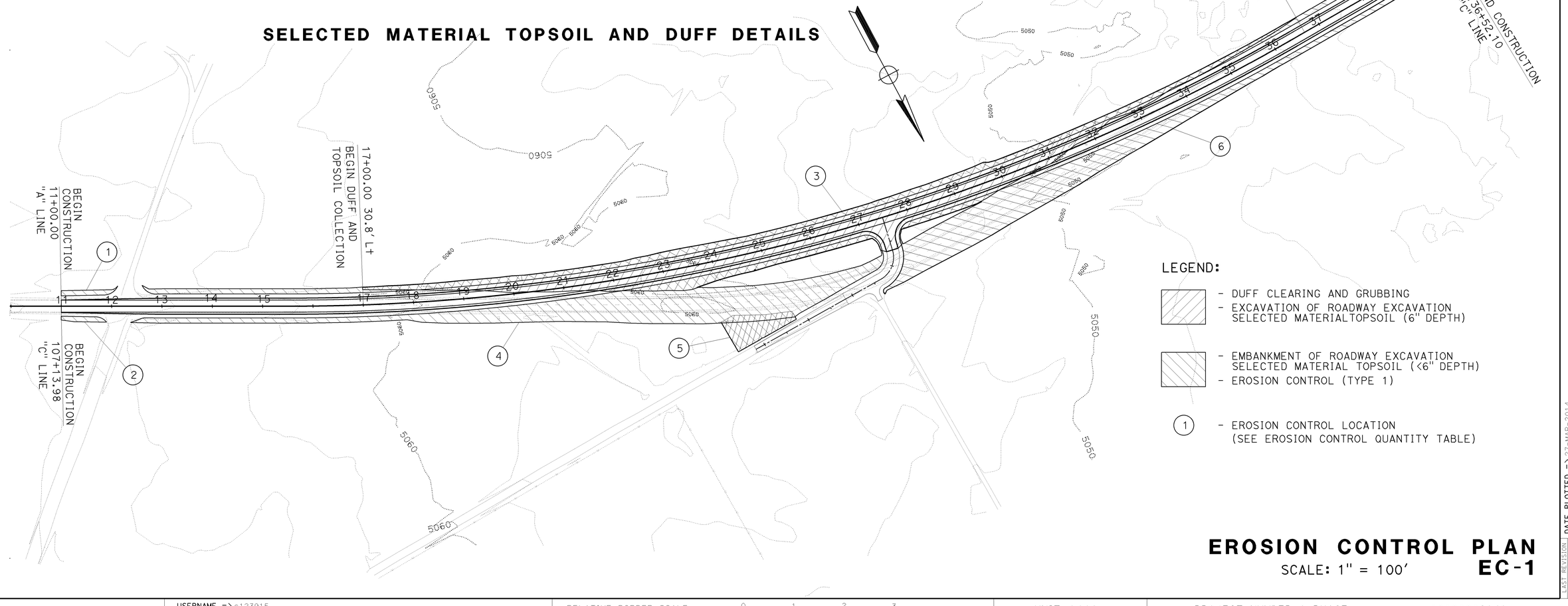




SELECTED MATERIAL TOPSOIL AND DUFF DETAILS



EROSION CONTROL PLAN

SCALE: 1" = 100′ **EC-1**

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ADAM ZUMSTEIN	RON CHEGWIDDEN		

FUNCTIONAL SUPERVISOR: BRIAN WESLING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 03-24-13 | DATE PLOTTED => 27-MAR-2014 | TIME PLOTTED => 13:26

BORDER LAST REVISED 7/2/2010 | USERNAME => s123915 | DGN FILE => 934650te001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1444 | PROJECT NUMBER & PHASE 09000002141

M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED, MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE, PRECAST
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
℄,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE, TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE, PLASTIC PIPE, POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED, REINFORCEMENT, REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT, REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD, RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH, SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND, SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL, SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK, SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE, DESIGN SPEED
Var	VARIABLE, VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST, WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	20	25

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Grace M. Tsushima — No. C49814 — Exp. 9-30-14 — CIVIL — STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-24-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	21	25

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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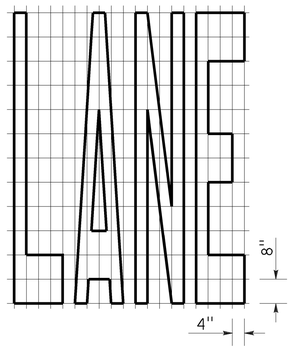
TO ACCOMPANY PLANS DATED 3-24-14



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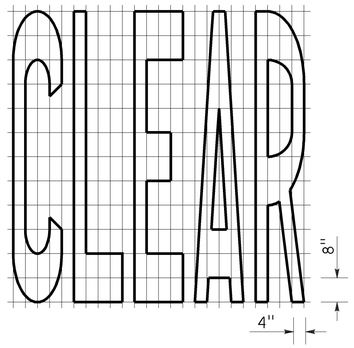

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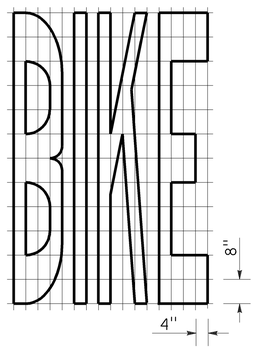

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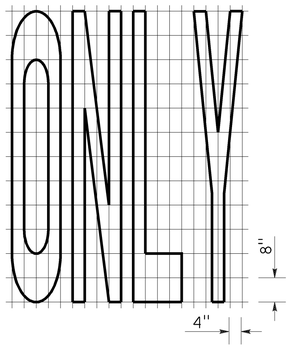

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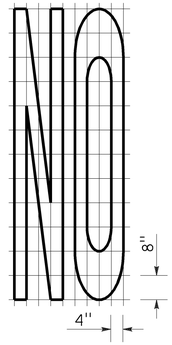

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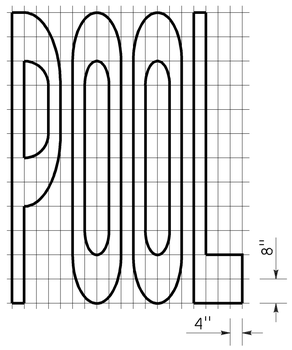

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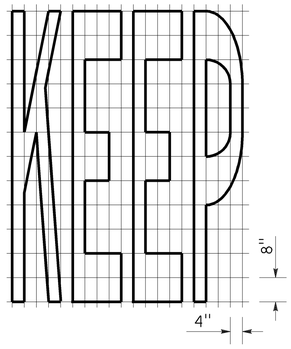

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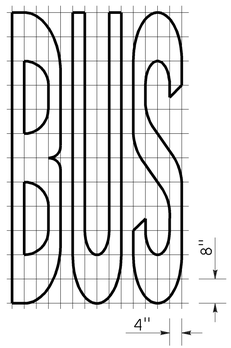

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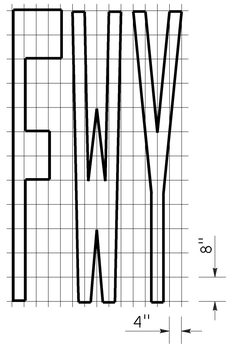

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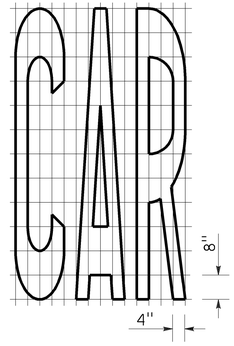
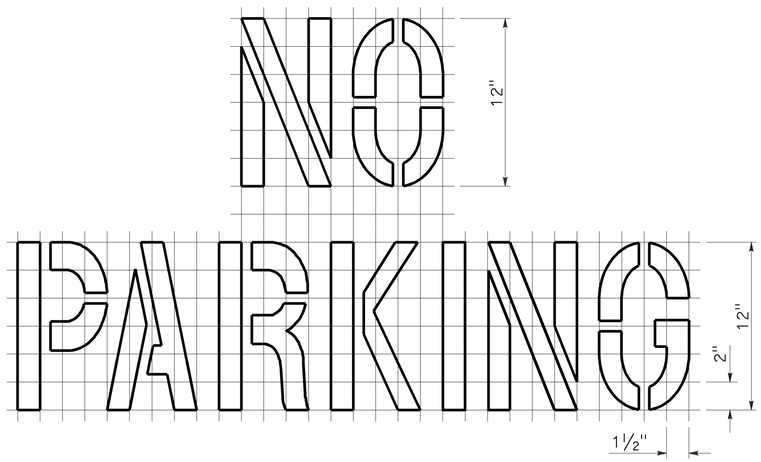


A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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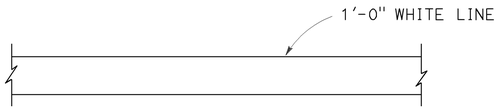
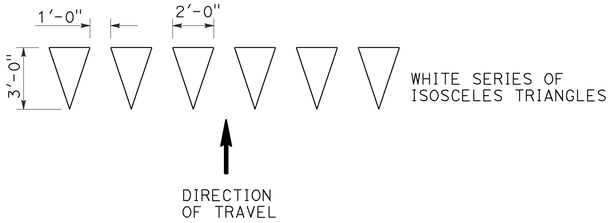
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS
WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	22	25

REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

Cornelis M. Hakim
No. C55610
Exp. 12-31-14
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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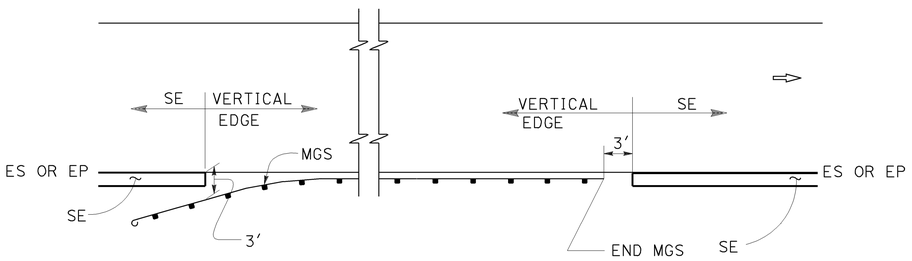
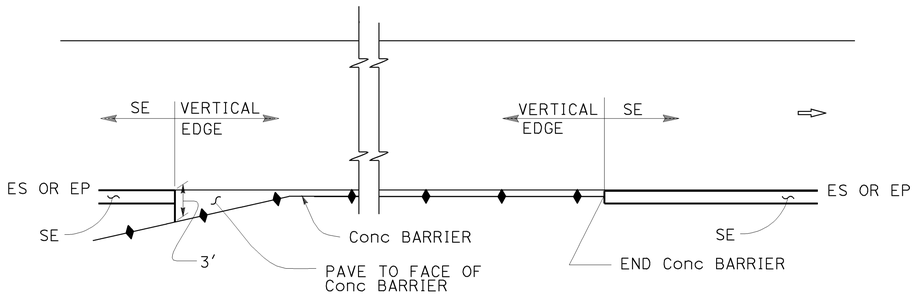
TO ACCOMPANY PLANS DATED 3-24-14

ABBREVIATIONS:

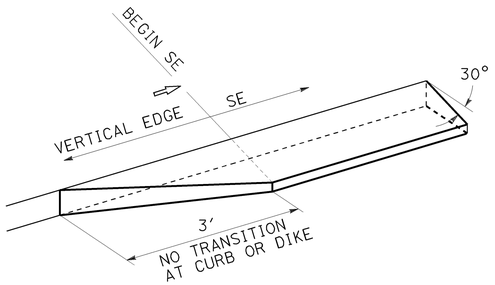
SE SAFETY EDGE



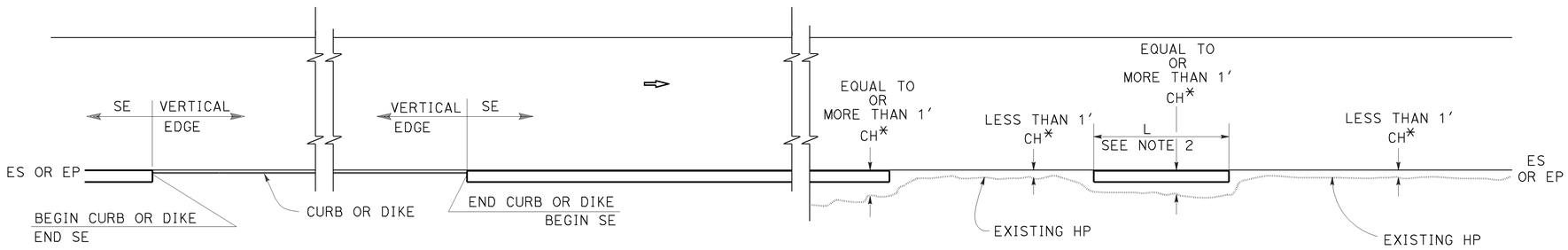
MGS



CONCRETE BARRIER



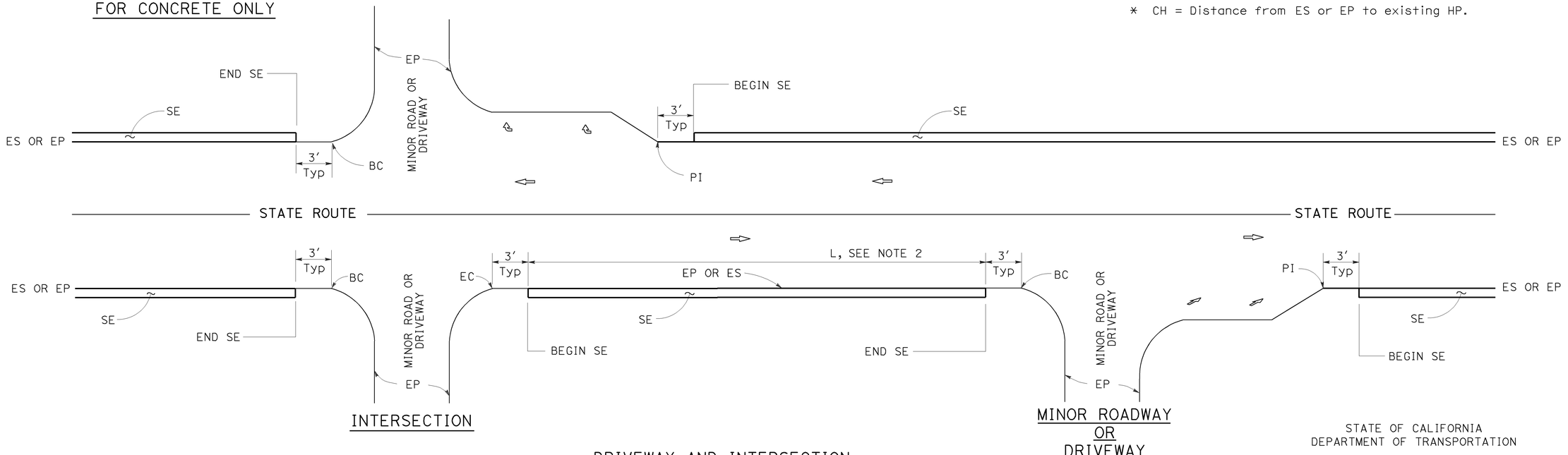
TRANSITION DETAIL FOR CONCRETE ONLY



CURB OR DIKE

NARROW SIDE SLOPE

* CH = Distance from ES or EP to existing HP.



INTERSECTION

DRIVEWAY AND INTERSECTION

MINOR ROADWAY OR DRIVEWAY

NOTES:

1. For details not shown, see Revised Standard Plans RSP P75 and RSP P76.
2. Safety edge is optional when L is less than 30′.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS

NO SCALE

RSP P74 DATED NOVEMBER 15, 2013 SUPERSEDES RSP P74 DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P74

2010 REVISED STANDARD PLAN RSP P74

10-11-13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	23	25

REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Cornelis M. Hakim
No. C55610
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-24-14

LEGEND:

HMA PAVEMENT

HMA OR CONCRETE PAVEMENT

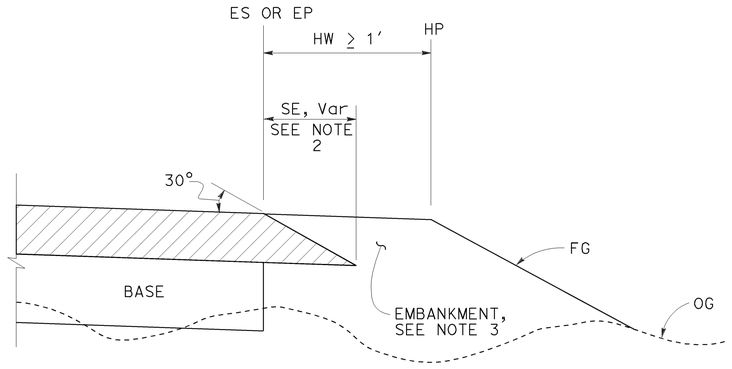
CONCRETE PAVEMENT

ABBREVIATIONS:

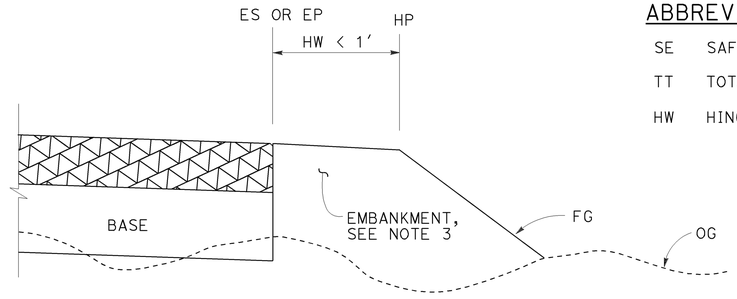
SE SAFETY EDGE

TT TOTAL THICKNESS OF SE

HW HINGE WIDTH, DISTANCE FROM ES OR EP TO HP

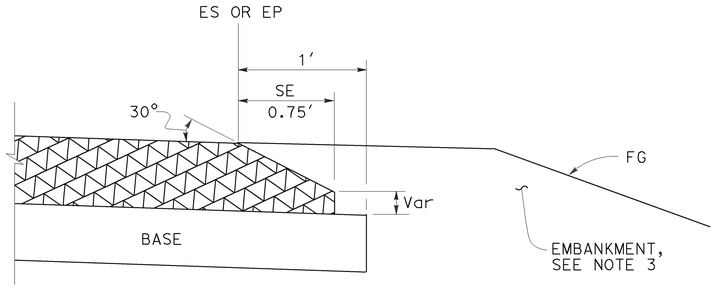


CASE K
Safety Edge - Fill Section, HW ≥ 1′

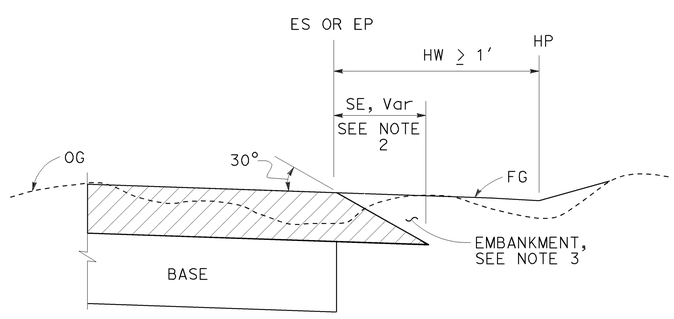


CASE L
Vertical Edge - Fill Section, HW < 1′

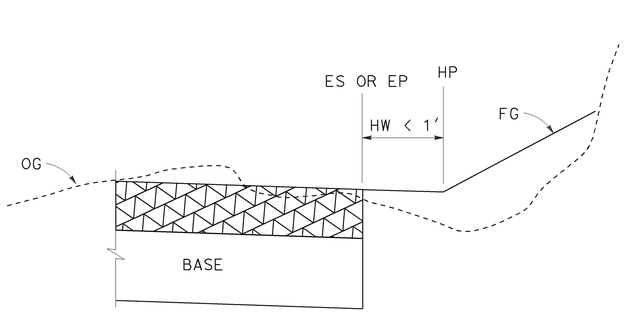
FILL SECTION



DETAIL "B"
For HMA pavement thickness more than 0.43′ or concrete pavement

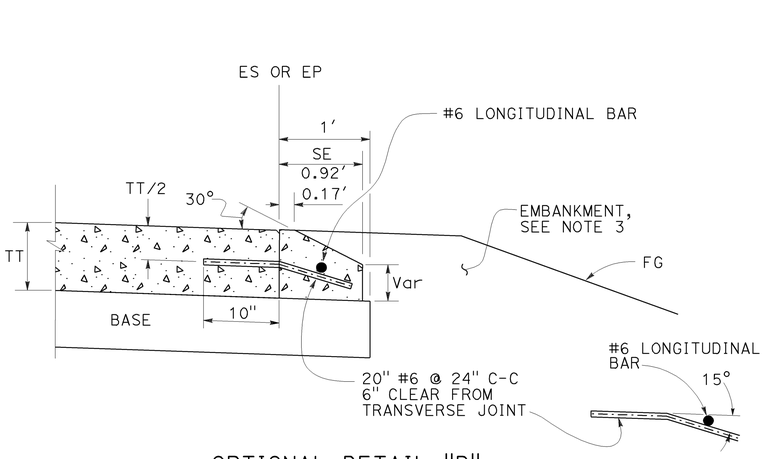


CASE M
Safety Edge - Cut Section, HW ≥ 1′



CASE N
Vertical Edge - Cut Section, HW < 1′

CUT SECTION



OPTIONAL DETAIL "B"
For concrete pavement
See Note 4

NOTES:

1. For limits of safety edge and vertical edge treatments, see Revised Standard Plan RSP P74
2. Details shown for HMA pavement thickness less than 0.43′. See Detail "B" for HMA pavement thickness more than 0.43′ or concrete pavement.
3. For locations and limits of embankment see project plans.
4. Safety edge transverse joint must match pavement transverse joint. End of #6 longitudinal bar must be 2" ±½" clear from transverse joint.
5. Safety edge is not needed in the area of MGS, barrier, right turn lane and acceleration lane. See Revised Standard Plan RSP P74.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT EDGE TREATMENTS- NEW CONSTRUCTION

NO SCALE

RSP P76 DATED NOVEMBER 15, 2013 SUPERSEDES RSP P76 DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P76

2010 REVISED STANDARD PLAN RSP P76

10-4-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	24	25

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 3-24-14

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING

SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
					X	Y	Z **
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
For speed of 40 mph or less, $L = WS^2/60$
For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
W = Width of offset in feet
S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING

SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
20	115	116	120	126
25	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
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Longitudinal buffer space or flagger station spacing

*** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING

ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommmended distances.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

4-30-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	266	2.1/2.7	25	25

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 3-24-14

NOTES:

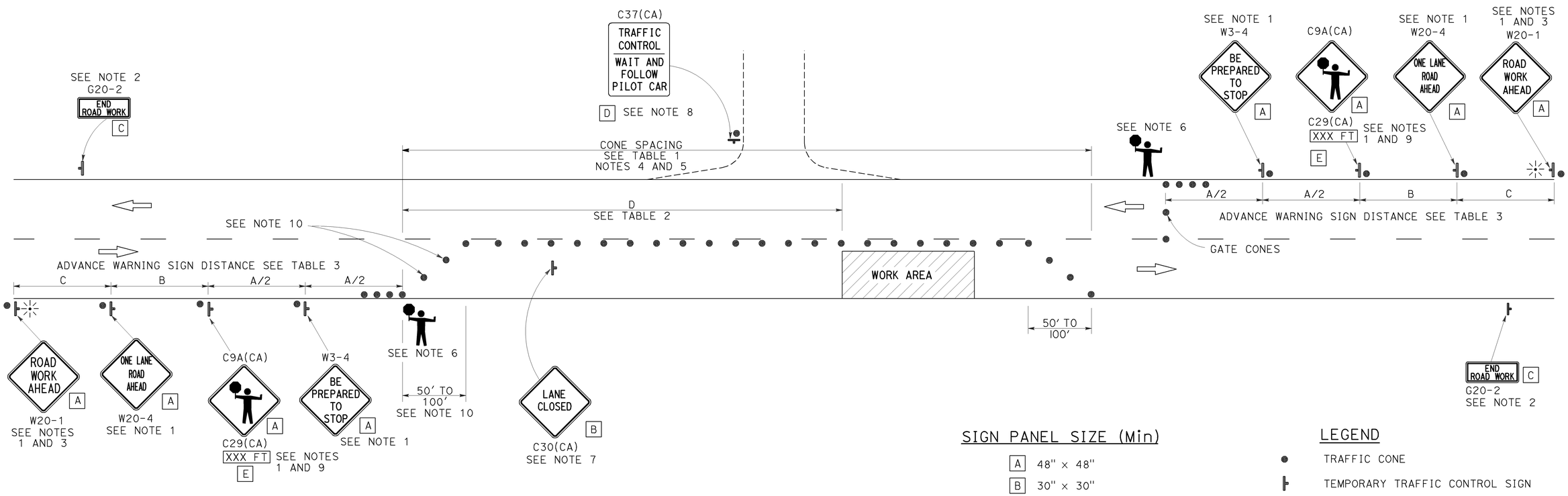
See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel 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.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

2010 REVISED STANDARD PLAN RSP T13

4-2-13