

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2 - 7	LAYOUT
8 - 10	CONSTRUCTION DETAILS
11 - 16	TEMPORARY WATER POLLUTION CONTROL PLAN
17 - 18	DRAINAGE PLAN, PROFILE, DETAIL AND QUANTITIES
19	UTILITY PLAN
20 - 26	CONSTRUCTION AREA SIGNS AND DETOUR PLAN
27 - 39	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
40 - 47	PAVEMENT DELINEATION PLAN
48 - 52	SIGN PLAN, DETAILS AND QUANTITIES
53	SUMMARY OF QUANTITIES
54 - 60	ELECTRICAL PLANS
61 - 99	REVISED STANDARD PLANS

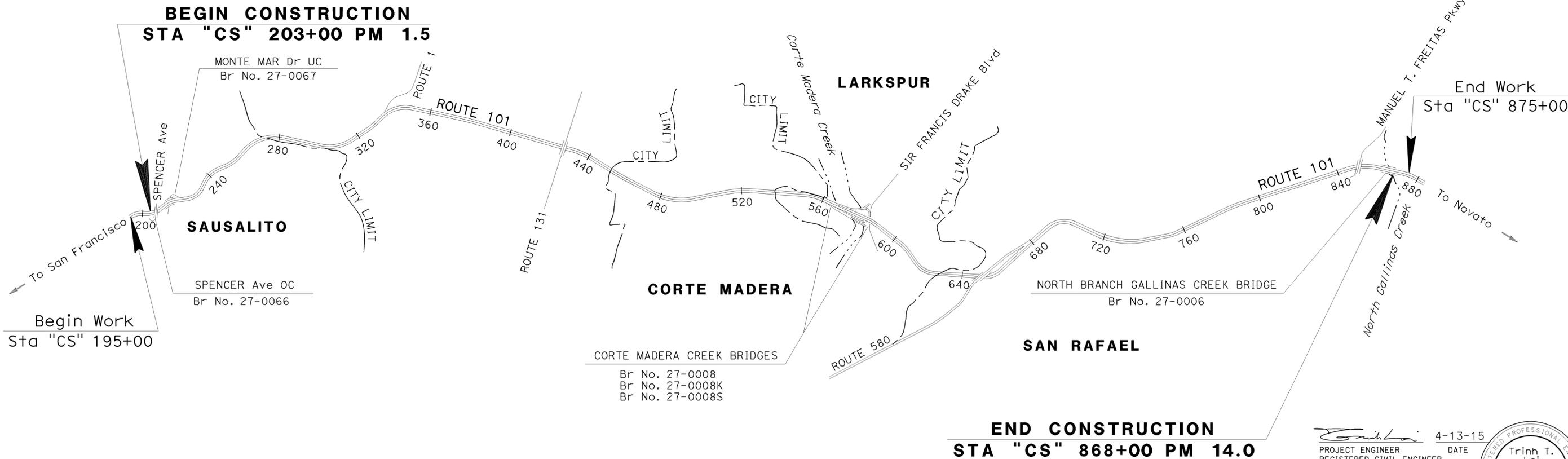
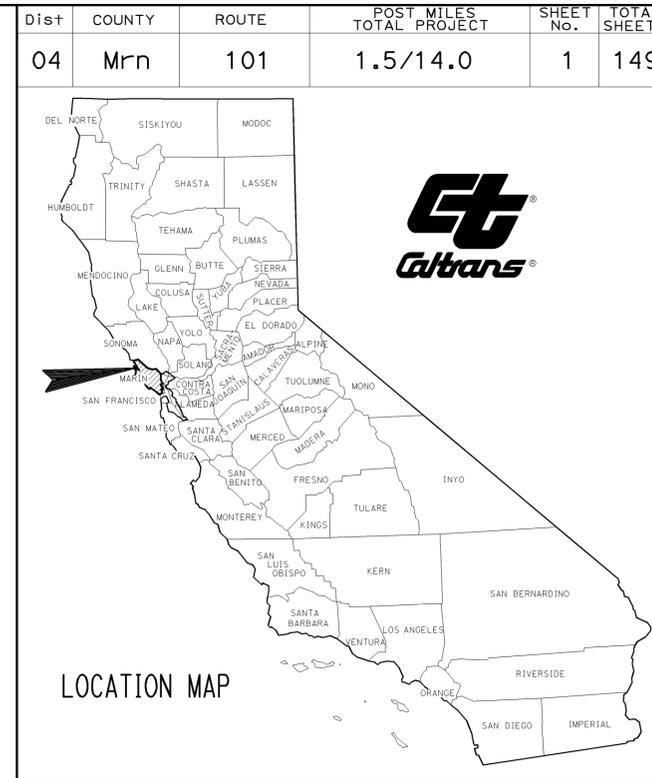
STRUCTURE PLANS

100 - 102	NORTH BRANCH GALLINAS CREEK BRIDGE STRUCTURE PLANS
103 - 124	CORTE MADERA CREEK BRIDGES STRUCTURE PLANS
125 - 137	SPENCER Ave OC RETROFIT STRUCTURE PLANS
138 - 140	MONTE MAR DRIVE UC STRUCTURE PLANS
141 - 146	SPENCER Ave OC BRIDGE MOUNTED SIGNS
147 - 149	SPENCER Ave OC BARRIER RAIL MOUNTED SIGN

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

STATE OF CALIFORNIA ACNHP-Q101(277)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN MARIN COUNTY
AT VARIOUS LOCATIONS
FROM SPENCER AVENUE OVERCROSSING TO
NORTH BRANCH GALLINAS CREEK BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

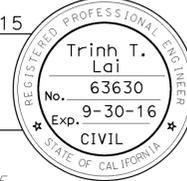


PROJECT MANAGER
JOY LEE

DESIGN MANAGER
JAIME GUTIERREZ

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

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE: 4-13-15
 April 27, 2015
 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.



CONTRACT No.	04-4G4604
PROJECT ID	0412000480

NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 "COORDINATE VALUES SHOWN ARE CCS NAD, 83 ZONE 3".

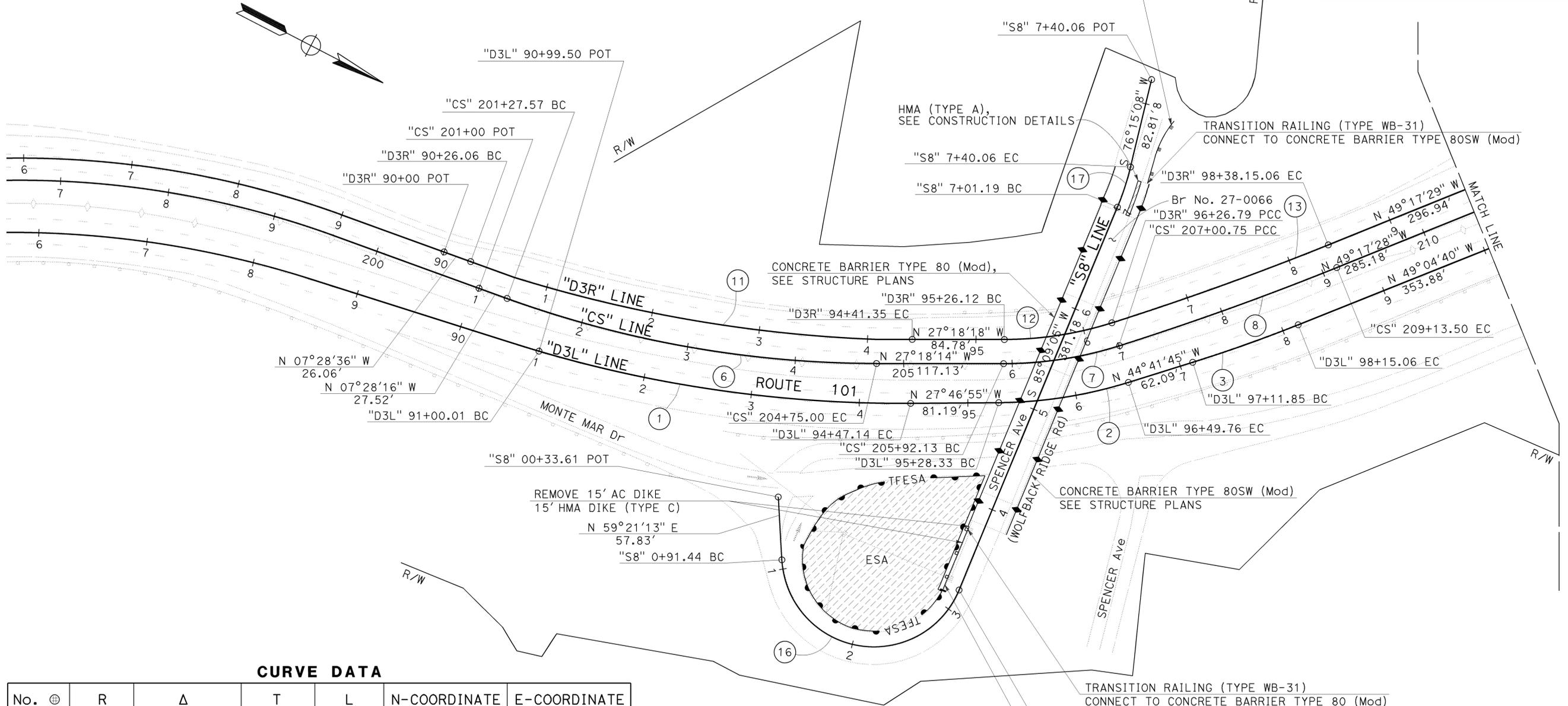
LEGEND:

HMA (TYPE A)

COLD PLANE AC AND HMA (TYPE A)

S A U S A L I T O

ALTERNATIVE FLARED TERMINAL SYSTEM
 TYPE 12BB LAYOUT



CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	1185.04'	16° 47' 01"	174.82'	347.14'	2137906.298	5986082.373
2	411.34'	16° 54' 51"	61.16'	121.43'	2138338.757	5986729.043
3	1349.54'	4° 22' 55"	51.63'	103.21'	2137723.014	5986018.456
6	1003.70'	19° 49' 30"	175.47'	347.43'	2137953.521	5986220.879
7	352.33'	17° 39' 45"	54.74'	108.61'	2138356.393	5986745.951
8	2818.60'	4° 19' 29"	106.42'	212.75'	2136613.492	5985001.017
11	1200'	19° 49' 42"	209.74'	415.28'	2137882.465	5986011.601
12	326.91'	17° 38' 34"	50.73'	100.66'	2138358.305	5986748.520
13	2798.16'	4° 20' 38"	106.12'	212.14'	2136612.470	5984999.482
16	85.01'	154° 03' 18"	369.04'	228.58'	2138492.512	5987269.780
17	247.77'	8° 59' 12"	19.47'	38.86'	2138298.113	5986903.720

LAYOUT
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 TRINH LAI: RODRIGO PUENTE
 REVISOR: [Blank]
 DATE REVISED: 4/24/15
 TL: 4/24/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	3	149

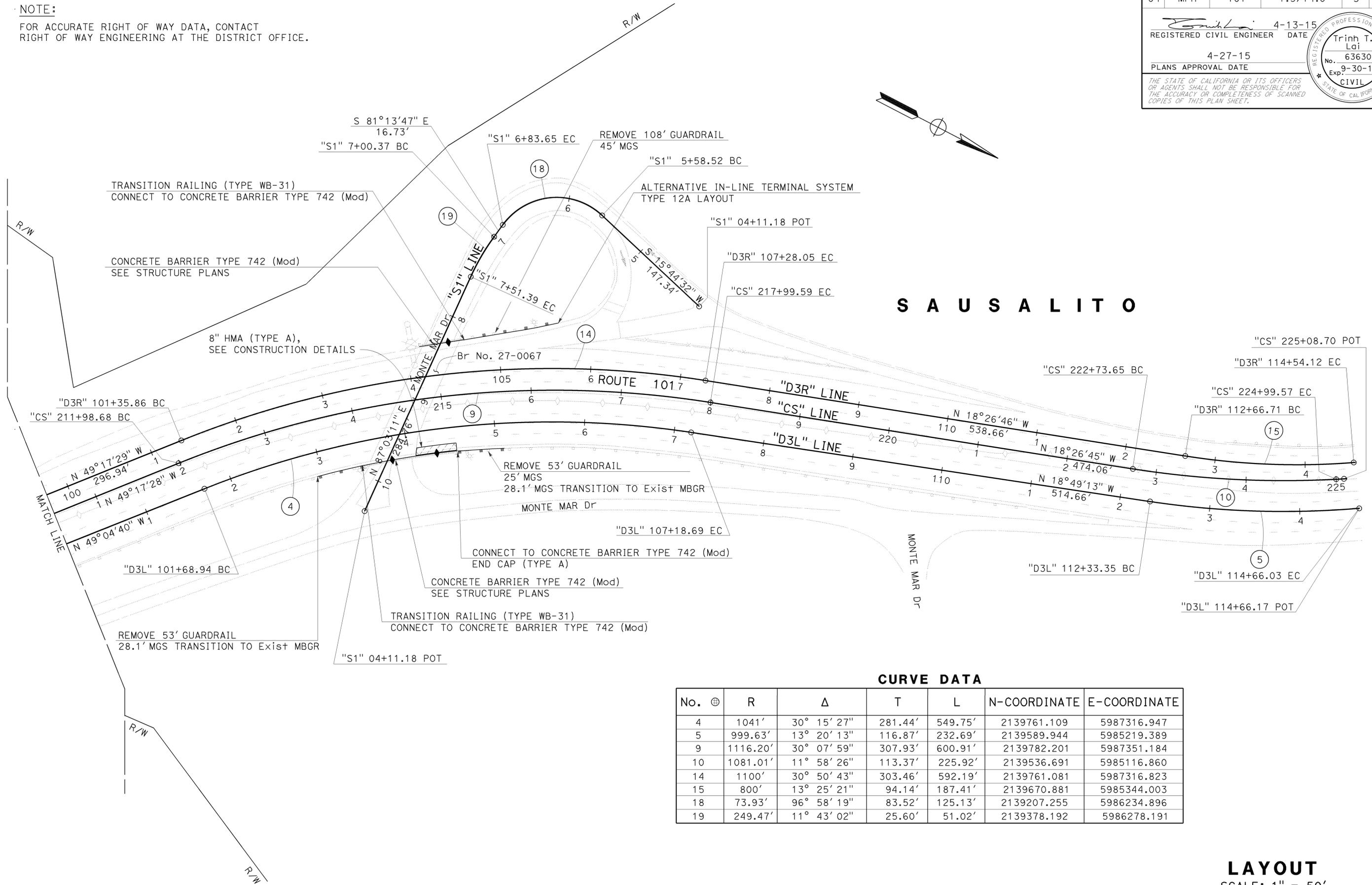
REGISTERED CIVIL ENGINEER DATE 4-13-15
 4-27-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Trinh T. Lai
 No. 63630
 Exp. 9-30-16
 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
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Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 TRINH LAI: RODRIGO PUENTE
 TL: 4/24/15
 REVISOR: DATE
 CALCULATED/DESIGNED BY: CHECKED BY:



CURVE DATA

No. Ⓢ	R	Δ	T	L	N-COORDINATE	E-COORDINATE
4	1041'	30° 15' 27"	281.44'	549.75'	2139761.109	5987316.947
5	999.63'	13° 20' 13"	116.87'	232.69'	2139589.944	5985219.389
9	1116.20'	30° 07' 59"	307.93'	600.91'	2139782.201	5987351.184
10	1081.01'	11° 58' 26"	113.37'	225.92'	2139536.691	5985116.860
14	1100'	30° 50' 43"	303.46'	592.19'	2139761.081	5987316.823
15	800'	13° 25' 21"	94.14'	187.41'	2139670.881	5985344.003
18	73.93'	96° 58' 19"	83.52'	125.13'	2139207.255	5986234.896
19	249.47'	11° 43' 02"	25.60'	51.02'	2139378.192	5986278.191

LAYOUT
 SCALE: 1" = 50'

FOR LEGEND, SEE SHEET L-1

L-2

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-16-15 TIME PLOTTED => 16:04

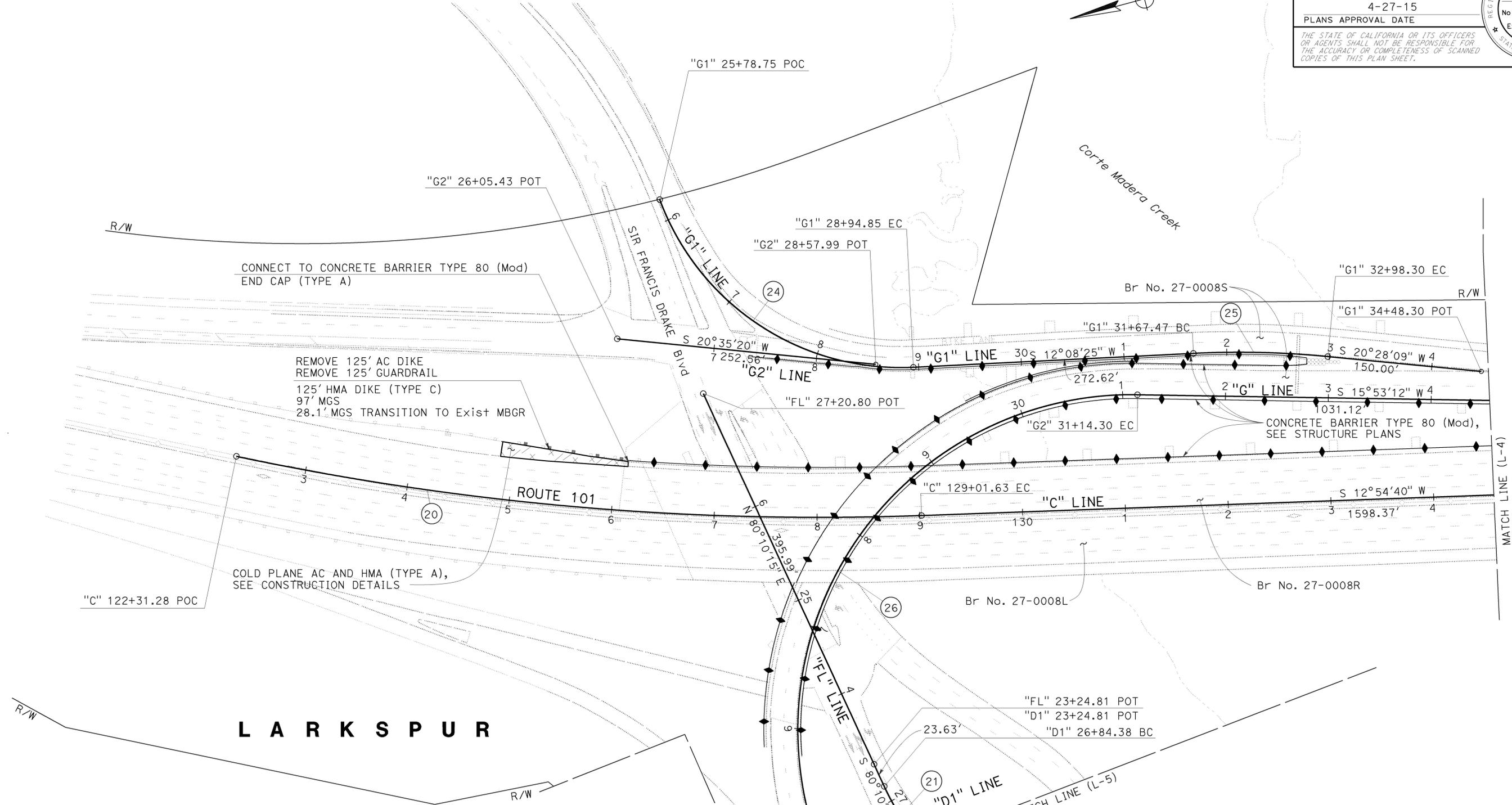
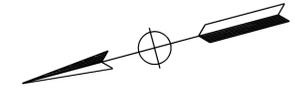
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	4	149

REGISTERED CIVIL ENGINEER	DATE
Trinh T. Lai	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

PLANS APPROVAL DATE	DATE
4-27-15	

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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	N-COORDINATE	E-COORDINATE
20	2750'	13° 57' 60"	336.85'	670.35'	2171939.998	5983350.960
21	250'	110° 08' 36"	357.99'	480.59'	2172410.943	5980468.765
24	250'	72° 26' 41"	183.12'	316.10'	2172472.351	5981055.818
25	900'	06° 21' 58"	65.53'	130.83'	2172447.681	5979874.203
26	325'	17° 37' 46"	603.38'	699.87'	2172410.292	5980416.833

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CALCULATED/DESIGNED BY: [blank]
 CHECKED BY: [blank]
 TRINH LAI
 RODRIGO PUENTE
 REVISOR BY: [blank]
 DATE REVISED: 4/24/15
 TL
 4/24/15

FOR LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1" = 50'

L-3

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-16-15 TIME PLOTTED => 16:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	5	149

REGISTERED CIVIL ENGINEER	DATE
<i>Trinh T. Lai</i>	4-13-15
PLANS APPROVAL DATE	
	4-27-15

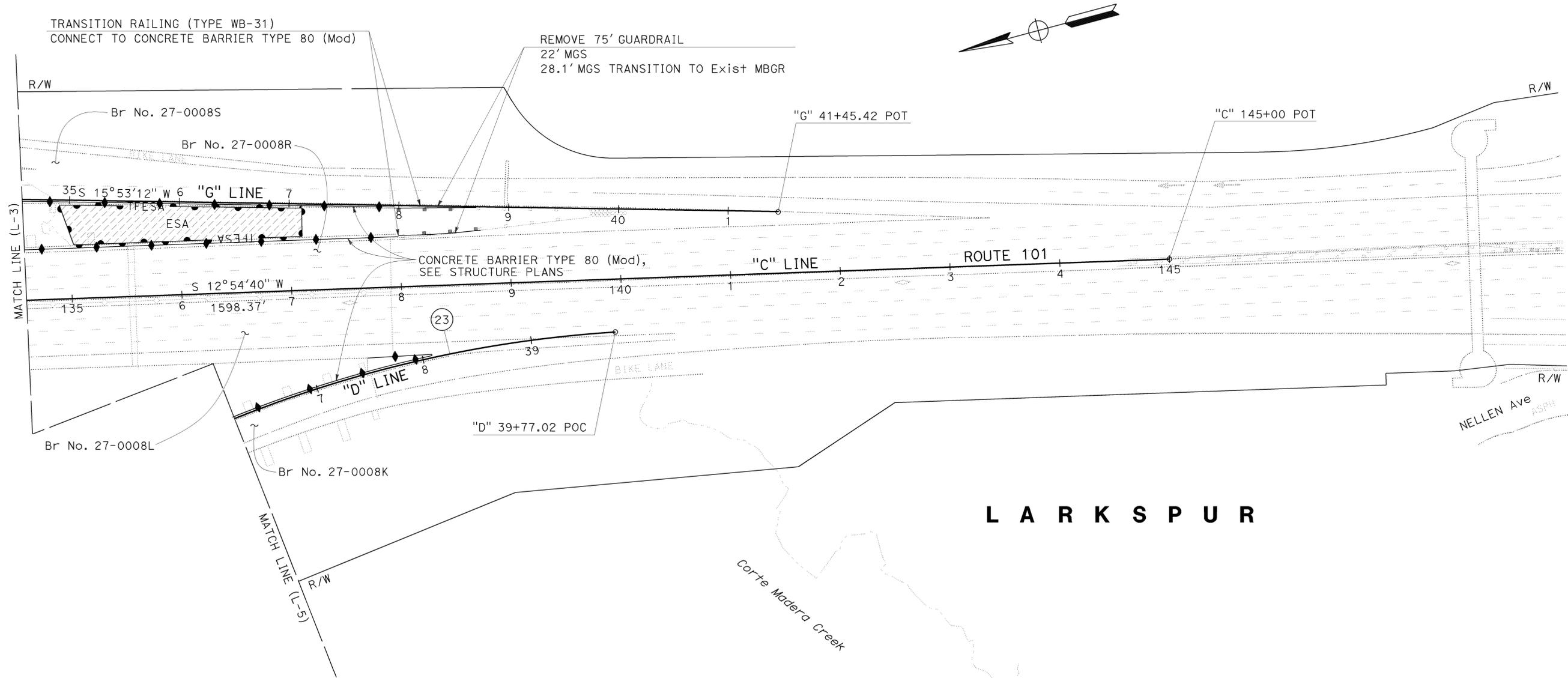
REGISTERED PROFESSIONAL ENGINEER
Trinh T. Lai
No. 63630
Exp. 9-30-16
CIVIL

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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	N-COORDINATE	E-COORDINATE
23	1128'	42° 52' 19"	442.87'	844.03'	2171721.645	5979273.536



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans®

TL
4/24/15

REVISOR BY
DATE REVISED

TRINH LAI
RODRIGO PUENTE

CALCULATED/DESIGNED BY
CHECKED BY

FUNCTIONAL SUPERVISOR
JAIME GUTIERREZ

DESIGN

FOR LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1" = 50'

L-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	6	149

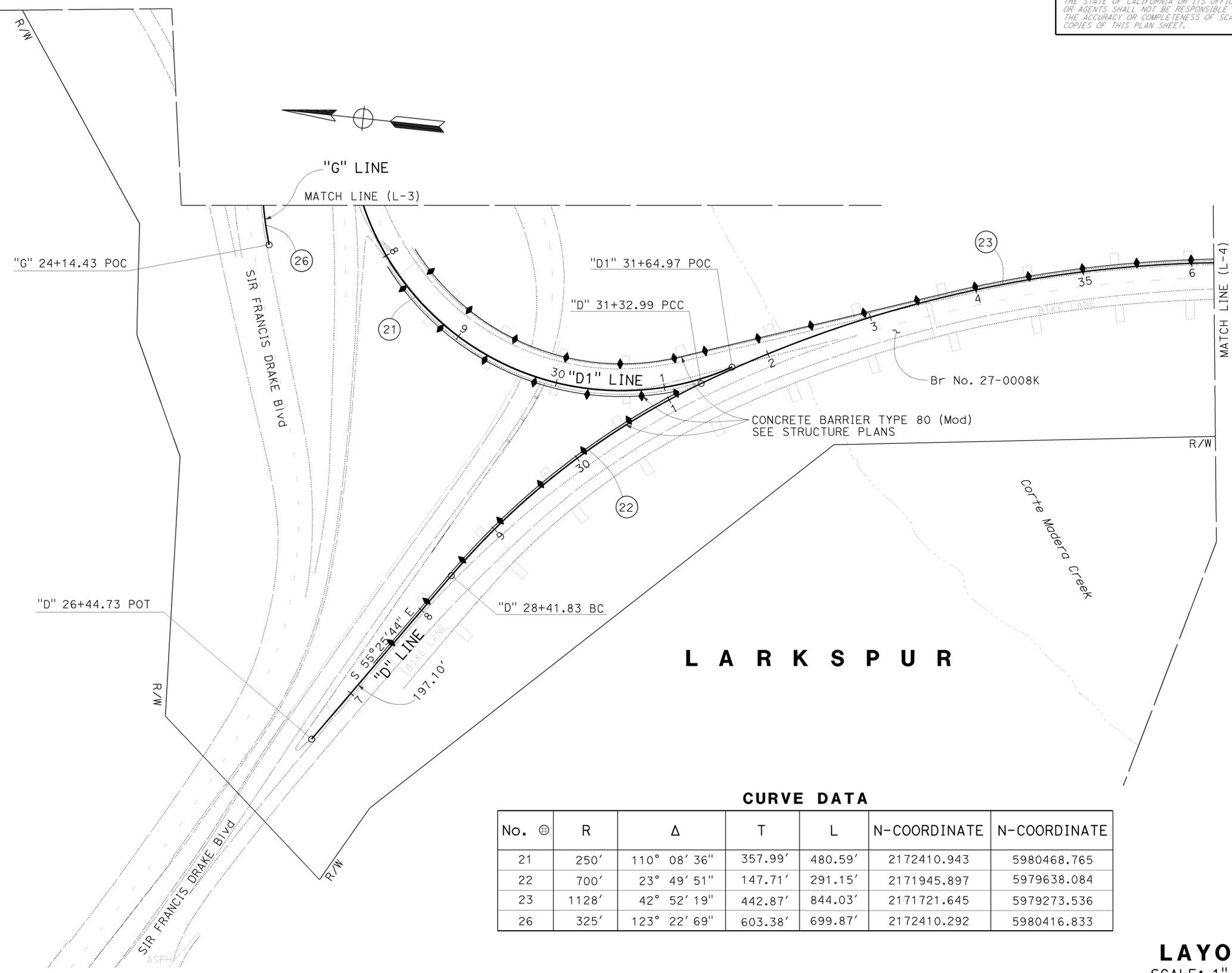
REGISTERED CIVIL ENGINEER DATE 4-13-15
 4-27-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Trinh T. Lai
 No. 63630
 Exp. 9-30-16
 CIVIL
 STATE OF CALIFORNIA

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Caltrans
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 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 TRINH LAI
 RODRIGO PUENTE
 REVISIONS: TL 4/24/15
 REVISIONS: DATE REVISIONS: DATE REVISIONS:



L A R K S P U R

CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	N-COORDINATE
21	250'	110° 08' 36"	357.99'	480.59'	2172410.943	5980468.765
22	700'	23° 49' 51"	147.71'	291.15'	2171945.897	5979638.084
23	1128'	42° 52' 19"	442.87'	844.03'	2171721.645	5979273.536
26	325'	123° 22' 69"	603.38'	699.87'	2172410.292	5980416.833

FOR LEGEND, SEE SHEET L-1

LAYOUT
 SCALE: 1" = 50'

L-5

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 05-14-15 TIME PLOTTED => 16:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	7	149

REGISTERED CIVIL ENGINEER	DATE	4-13-15
		
PLANS APPROVAL DATE	4-27-15	

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

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Caltrans
 DESIGN

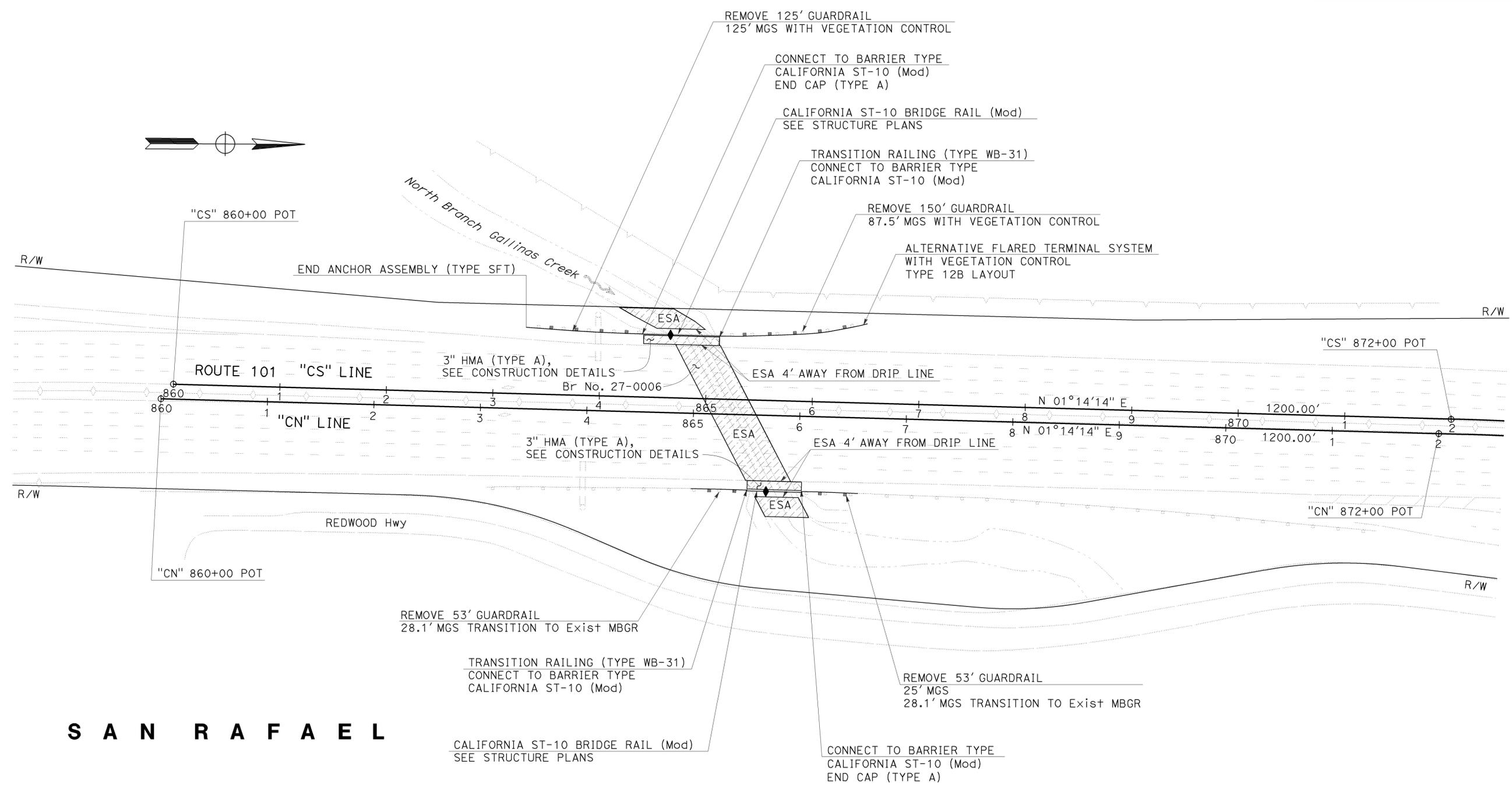
TL
 4/24/15

REVISOR
 DATE

TRINH LAI
 RODRIGO PUENTE

CALCULATED-DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 JAIME GUTIERREZ



S A N R A F A E L

FOR LEGEND, SEE SHEET L-1

LAYOUT
 SCALE: 1" = 50'

L-6

LAST REVISION | DATE PLOTTED => 21-MAY-2015 04-24-15 TIME PLOTTED => 09:40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 JAIME GUTIERREZ

CALCULATED/DESIGNED BY
 CHECKED BY

TRINH T. LAI
 RODRIGO PUENTE

REVISED BY
 DATE REVISED

TL
 4/24/15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	8	149

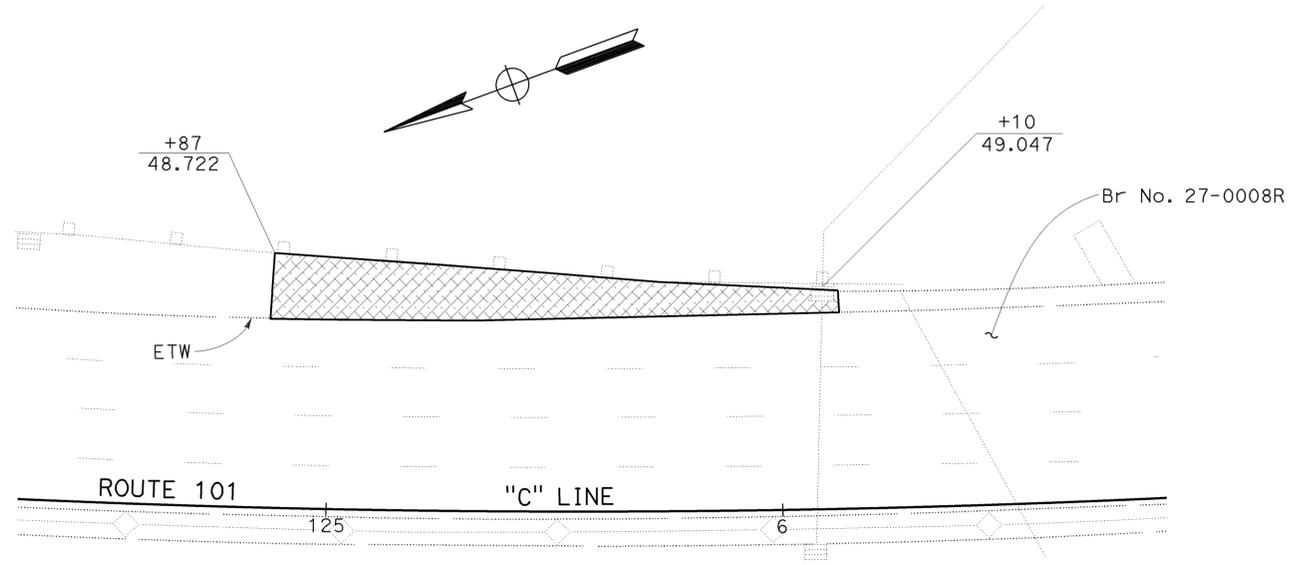
REGISTERED CIVIL ENGINEER DATE 4-13-15
 REGISTERED CIVIL ENGINEER DATE 4-27-15
 PLANS APPROVAL DATE

Trinh T. Lai
 No. 63630
 Exp. 9-30-16
 CIVIL

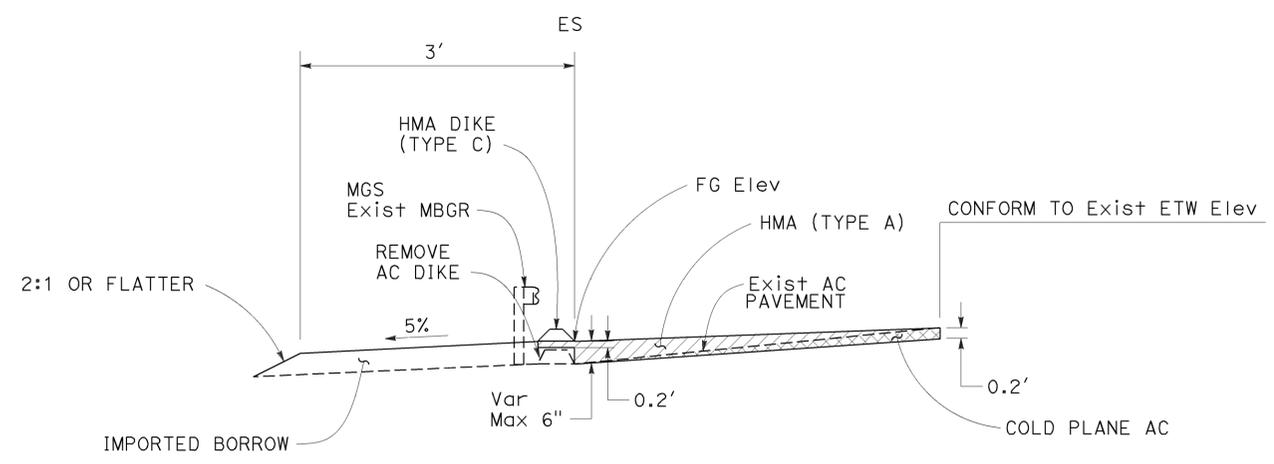
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LEGEND:

-  ROADWAY EXCAVATION
-  COLD PLANE AC
-  HMA (TYPE A)



STATION "C"	OFFSET (ft)	FG Elev (ft)
124+87	55.67	48.722
125+00	55.13	48.813
125+10	54.67	48.885
125+20	54.16	48.956
125+30	53.51	49.028
125+40	52.77	49.096
125+50	52.00	49.143
125+60	51.19	49.160
125+70	50.35	49.144
125+80	49.96	49.120
125+90	49.74	49.095
126+00	49.47	49.071
126+10	49.20	49.047

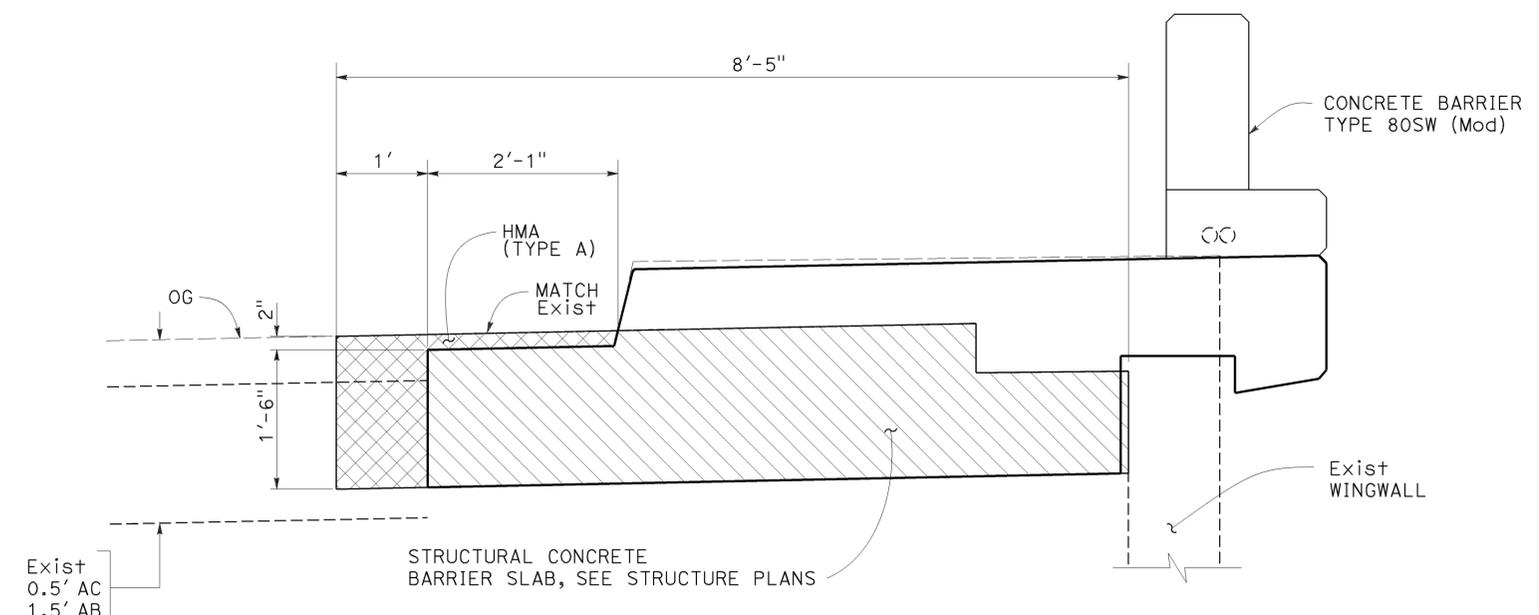


CONSTRUCTION DETAILS
 SCALE: 1" = 20'

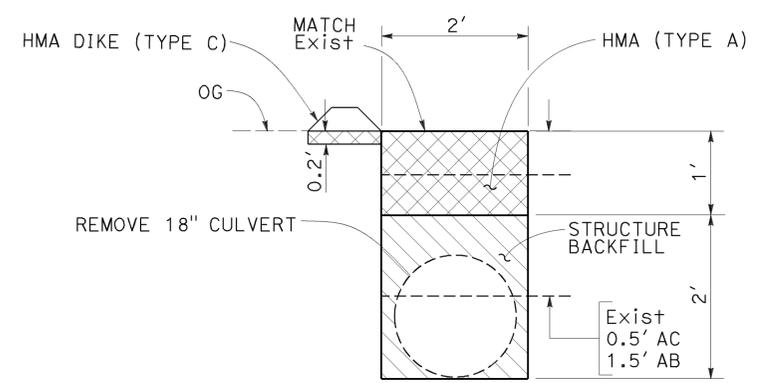
C-1

LAST REVISION | DATE PLOTTED => 21-MAY-2015 04-24-15 | TIME PLOTTED => 09:40

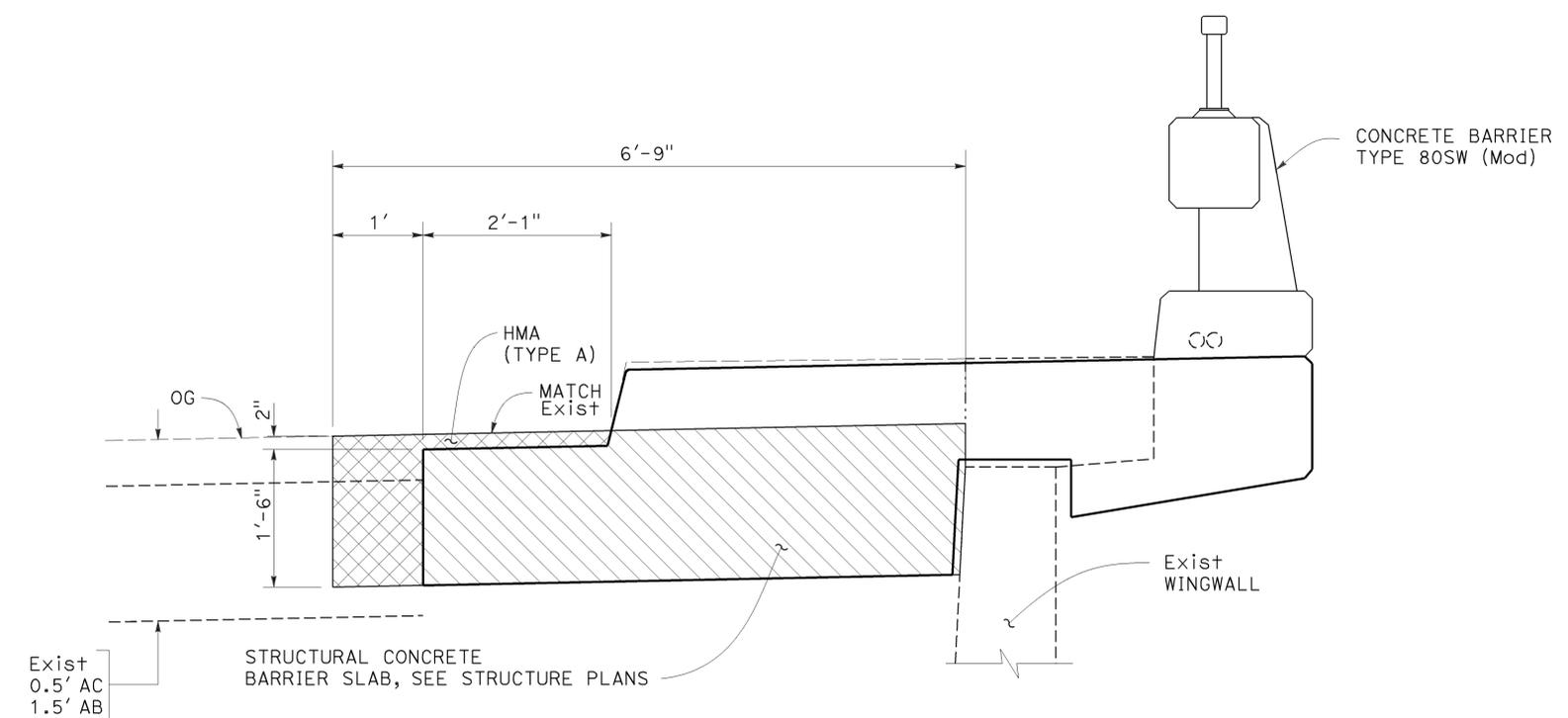
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	9	149
			4-13-15	REGISTERED CIVIL ENGINEER DATE	
			4-27-15	PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.					



**SPENCER Ave OC
(STRUCTURAL CONCRETE BARRIER SLAB)**
"S8" 7+19.1 TO 7+31.65



SPENCER Ave OVERCROSSING
"S8" 3+69 TO 3+84

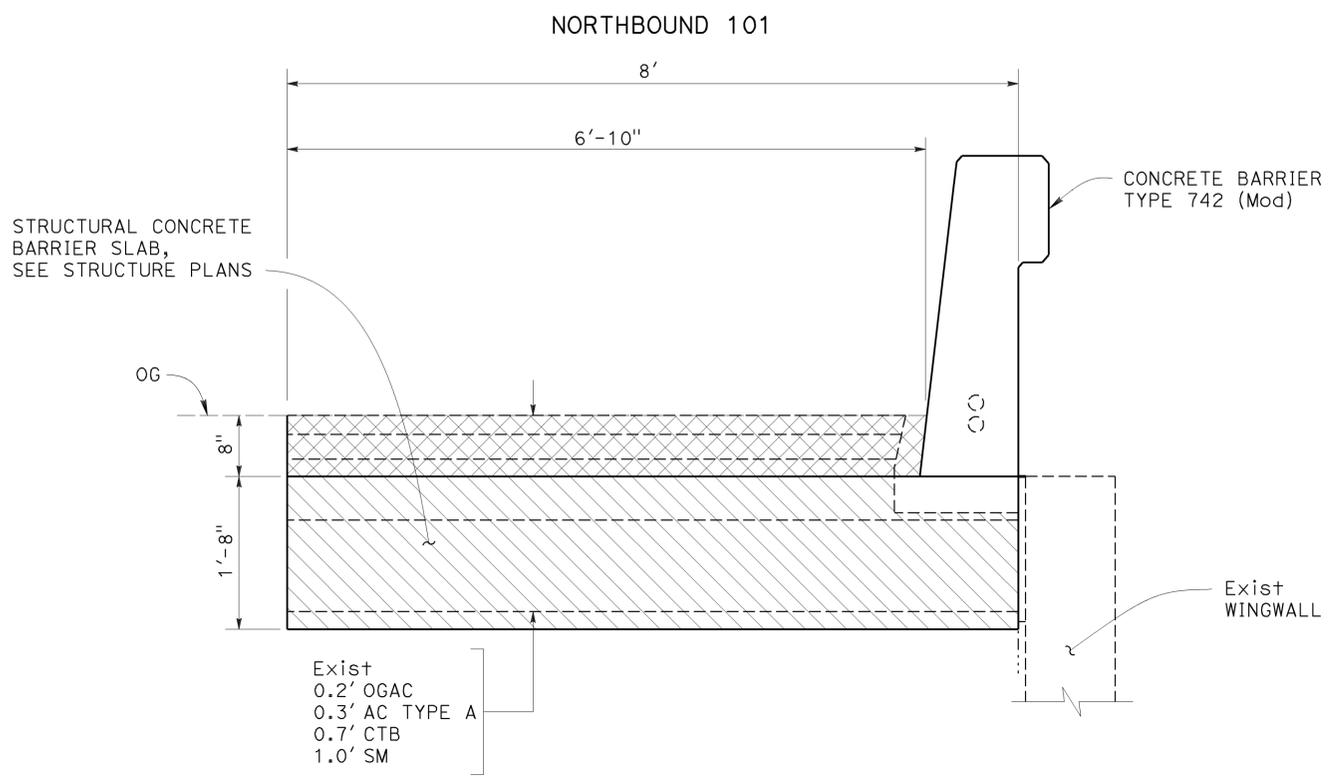


**SPENCER Ave OC
(STRUCTURAL CONCRETE BARRIER SLAB)**
"S8" 6+97.6 TO 7+19.1

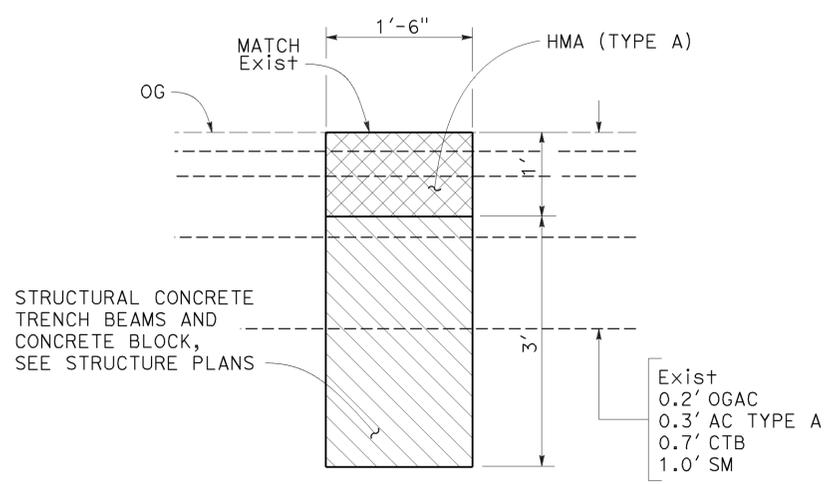
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 TRINH T. LAI
 RODRIGO PUENTE
 REVISIONS: TL 4/24/15
 USERNAME => s131974
 DGN FILE => 0412000480ga002.dgn

CONSTRUCTION DETAILS
NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	10	149
			4-13-15	REGISTERED CIVIL ENGINEER DATE	
			4-27-15	PLANS APPROVAL DATE	
<small>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.</small>					

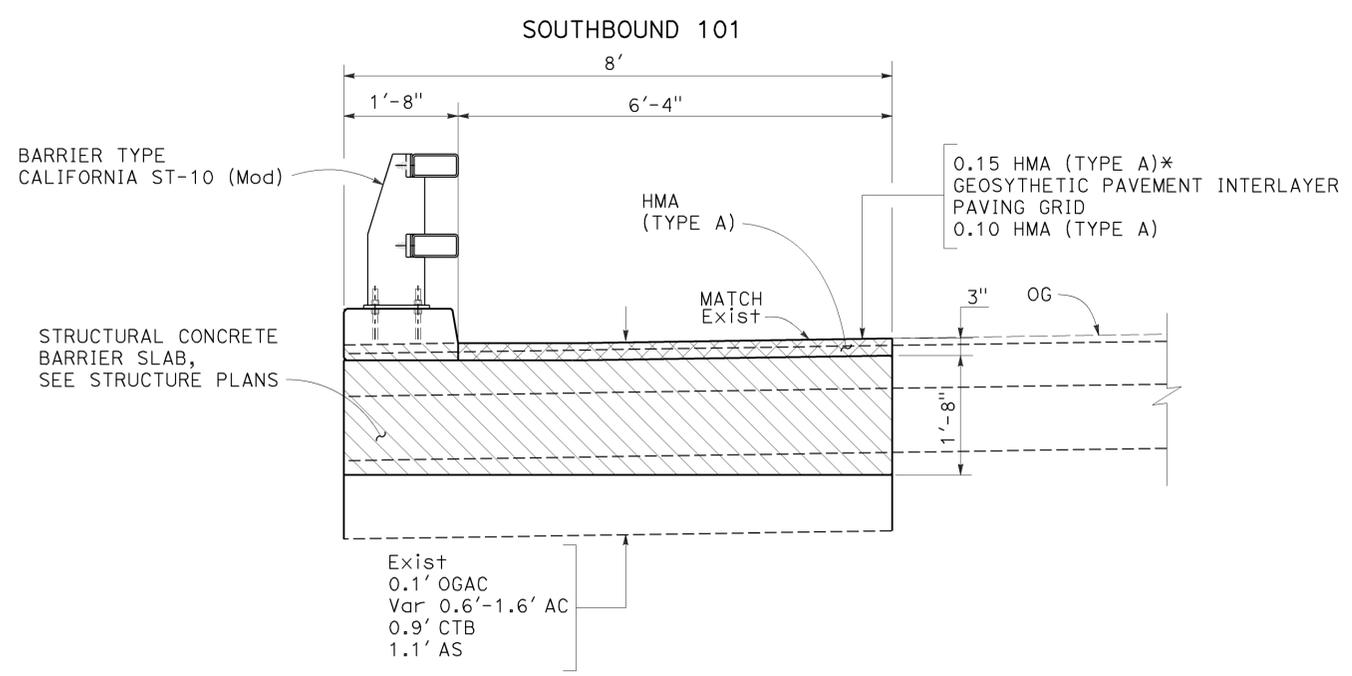


**MONTE MAR Dr UC
(STRUCTURAL CONCRETE BARRIER SLAB)**
"D3L" 104+09.1 TO 104+55.4

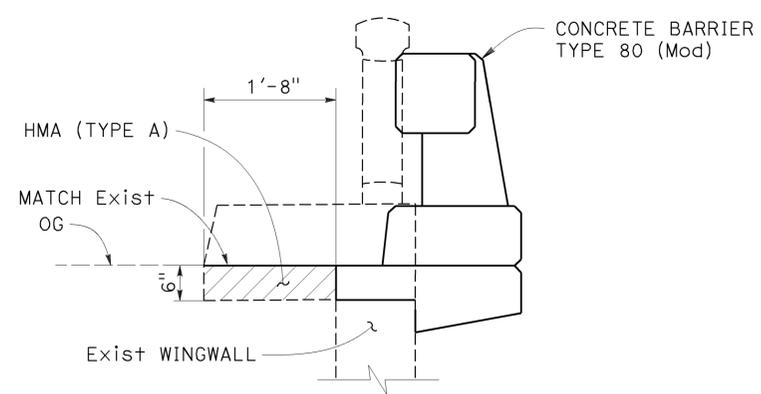


**CORTE MADERA CREEK BRIDGES
(STRUCTURAL CONCRETE TRENCH BEAMS AND BLOCKS)**

- "C" 126+09.8 TO 126+24.8
- "D" 27+33.1 TO 27+48.1
- "D1" 28+06.2 TO 28+21.2
- "G" 25+70.2 TO 26+03.2



**NORTH BRANCH GALLINAS CREEK
(STRUCTURAL CONCRETE BARRIER SLAB)**
SB "CS" 864+40.3 TO 864+685.3
NB "CN" 865+98.7 TO 866+03.2
* FOR HMA (TYPE A) ON BRIDGE, SEE SUMMARY OF QUANTITIES



**CORTE MADERA CREEK BRIDGES
(ALONG EDGE OF WINGWALLS)**

- "C" 126+09.8 TO 126+24.8
- "D" 27+33.1 TO 27+48.1
- "D1" 28+06.2 TO 28+21.2
- "G" 25+70.2 TO 26+03.2

CONSTRUCTION DETAILS
NO SCALE

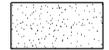
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
JAIMIE GUTIERREZ
FUNCTIONAL SUPERVISOR
TRINH T. LAI
RODRIGO PUENTE
REVISOR
TL
4/24/15
DATE REVISED
CALCULATED/DESIGNED BY
CHECKED BY

LAST REVISION | DATE PLOTTED => 21-MAY-2015
04-24-15 | TIME PLOTTED => 09:43

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY

FUNCTIONAL SUPERVISOR: KAMRAN NAKHJIRI
 CHECKED BY: JIANGFAN CHEN
 DESIGNED BY: NGOCCHAU TRAN
 REVISIONS: NT 4/24/15

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

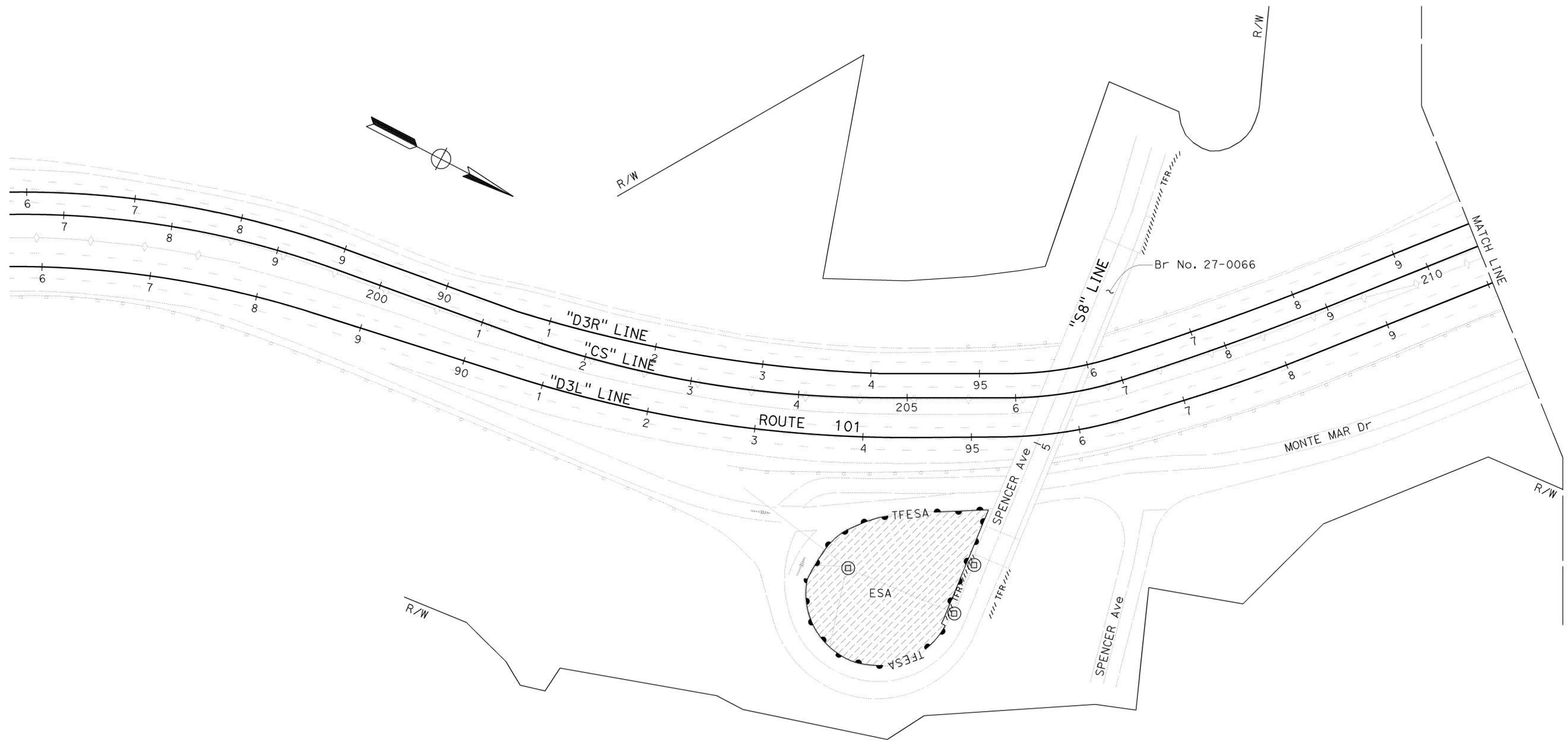
LEGEND:
 TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)

- NOTES:**
1. WORK IN GALLINAS CREEK BRIDGE SHOULD BE LIMITED TO FOOT TRAFFIC FOR INSTALLING AND REMOVING TEMPORARY WORK PLATFORM.
 2. STOCKPILE AND REPLACE SEDIMENT REMOVED FROM THE CULVERT UNDER THE GALLINAS CREEK BRIDGE.
 3. WORK IN GALLINAS CREEK AND THE CULVERT SHOULD BE PERFORMED ONLY WHEN THERE IS NO FLOWING WATER.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	11	149

REGISTERED CIVIL ENGINEER: Jiangfan Chen
 No. 77248
 Exp. 6-30-15
 DATE: 4-14-15
 PLANS APPROVAL DATE: 4-27-15

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.



TEMPORARY WATER POLLUTION CONTROL PLAN
 SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

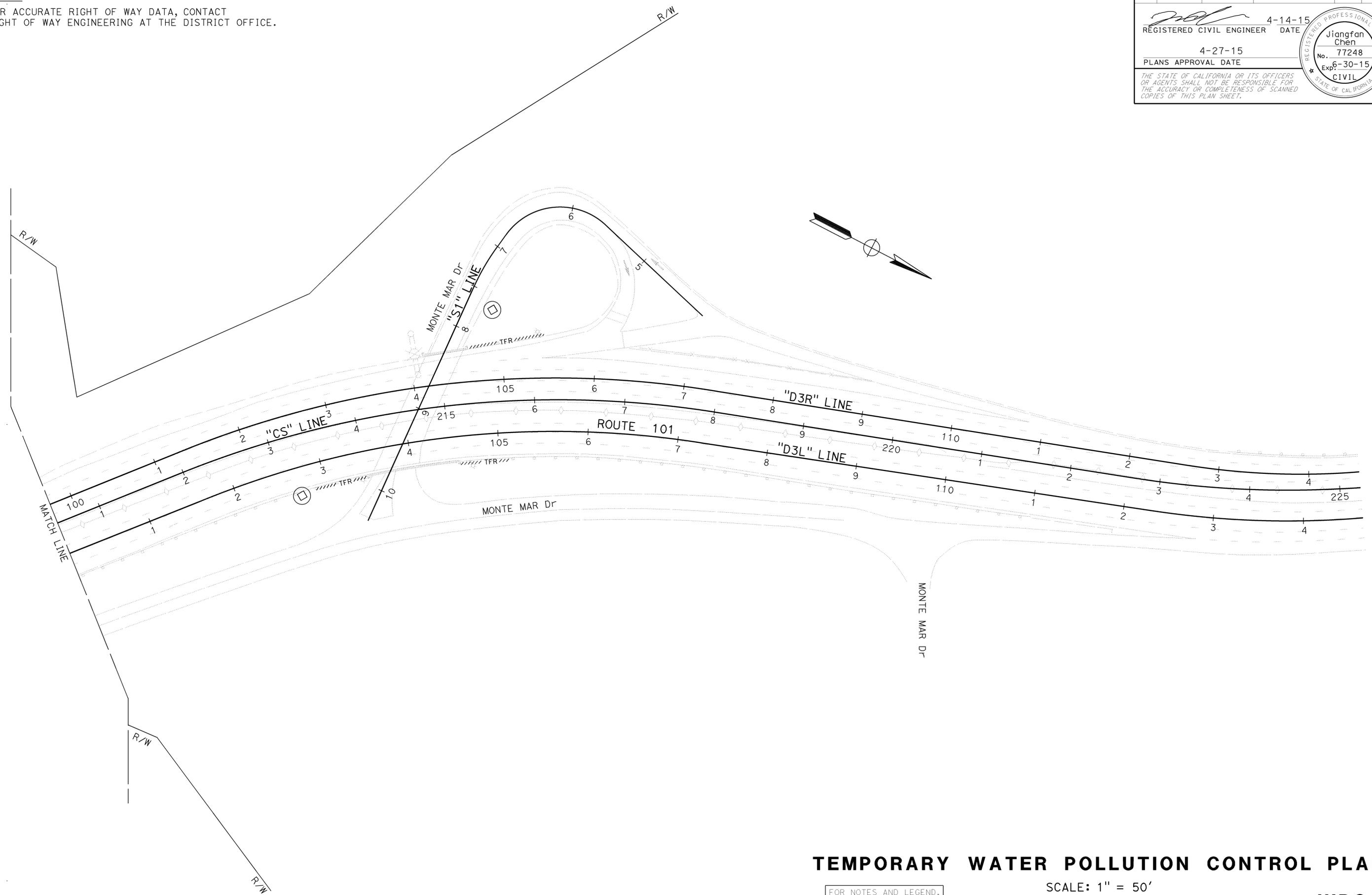
WPC-1

LAST REVISION | DATE PLOTTED => 21-MAY-2015 | 04-24-15 | TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	12	149
			4-14-15	DATE	
REGISTERED CIVIL ENGINEER			DATE		
			4-27-15	PLANS APPROVAL DATE	
<small>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.</small>					

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED- DESIGNED BY	REVISOR	DATE
Caltrans WATER QUALITY	KAMPAN NAKHJIRI	CHECKED BY	NG	4/24/15
			NGOCHAU TRAN	
			JIANGFAN CHEN	



TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 50'

WPC-2

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

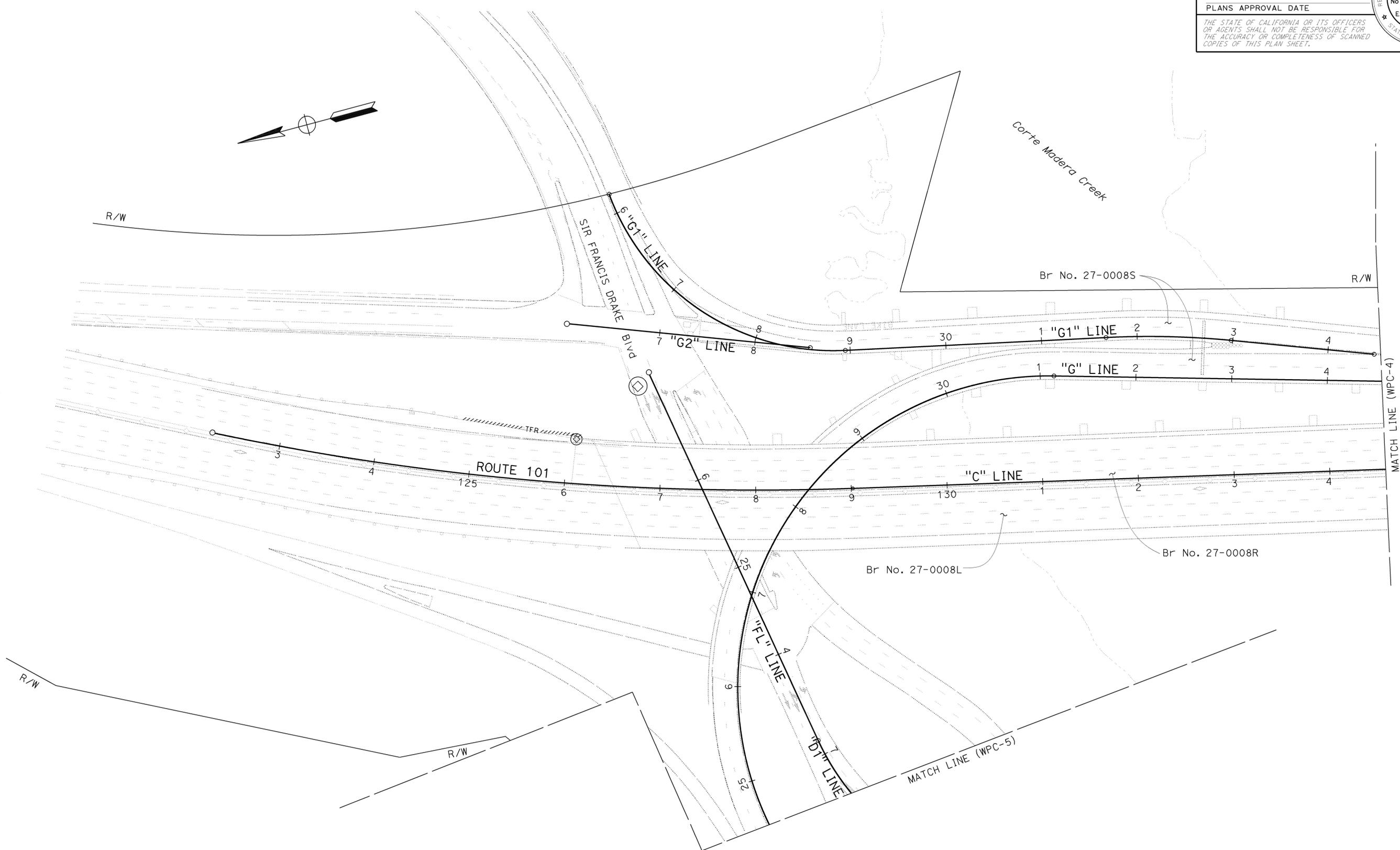
FOR NOTES AND LEGEND,
SEE SHEET WPC-1

LAST REVISION | DATE PLOTTED => 21-MAY-2015 04-24-15 | TIME PLOTTED => 09:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	13	149
			4-14-15	REGISTERED CIVIL ENGINEER DATE	
			4-27-15	PLANS APPROVAL DATE	
<small>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.</small>					

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY
FUNCTIONAL SUPERVISOR: KAMRAN NAKHJIRI
CALCULATED/DESIGNED BY: NGOCCHAU TRAN
CHECKED BY: JIANGFAN CHEN
REVISOR: NT
DATE REVISED: 4/24/15



TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES AND LEGEND,
SEE SHEET WPC-1

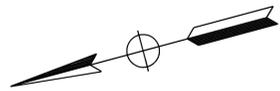
WPC-3

LAST REVISION | DATE PLOTTED => 21-MAY-2015
04-24-15 | TIME PLOTTED => 09:53

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY

FUNCTIONAL SUPERVISOR: KAMRAN NAKHJIRI
 CALCULATED/DESIGNED BY: NGOCCHAU TRAN
 CHECKED BY: JIANGFAN CHEN
 REVISIONS: NT 4/24/15

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

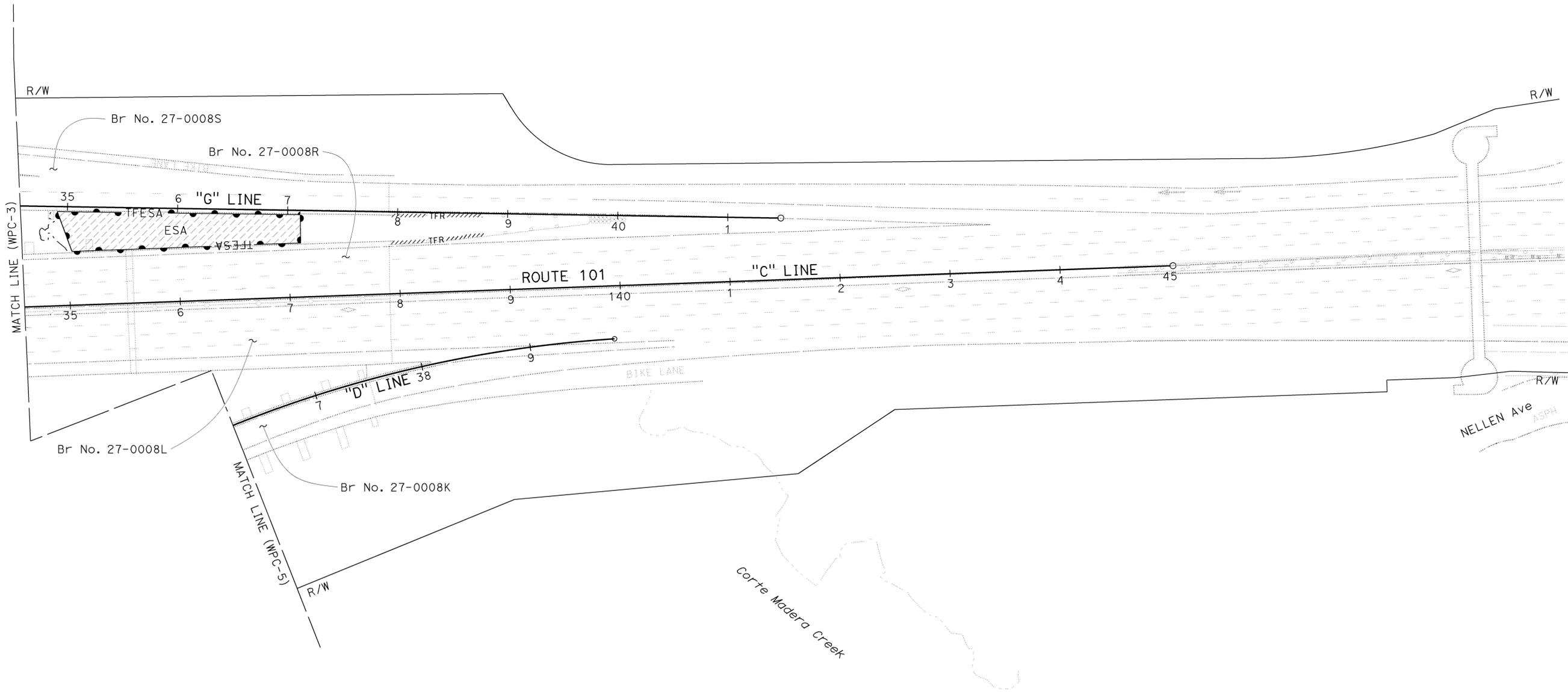


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	14	149

REGISTERED CIVIL ENGINEER: *Jiangfan Chen* DATE: 4-14-15
 PLANS APPROVAL DATE: 4-27-15

REGISTERED PROFESSIONAL ENGINEER: Jiangfan Chen
 No. 77248
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET WPC-1

WPC-4

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans WATER QUALITY

FUNCTIONAL SUPERVISOR	CHECKED BY	REVISOR	DATE
KAMRAN NAKHJIRI	JIANGFAN CHEN	NT	4/24/15
CALCULATED/DESIGNED BY	CHECKED BY	REVISOR	DATE

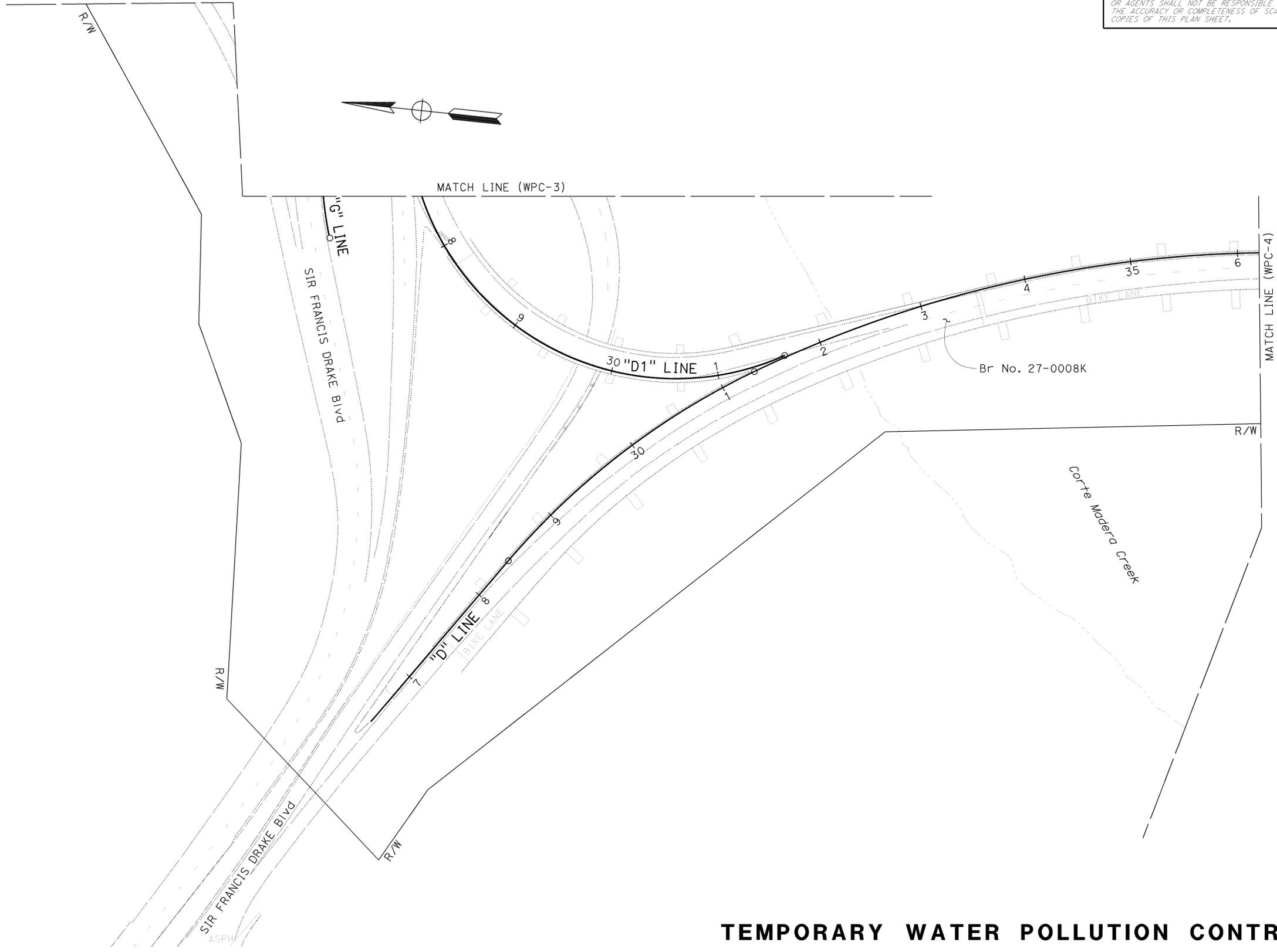
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	15	149

REGISTERED CIVIL ENGINEER: *Jiangfan Chen*
 DATE: 4-14-15
 PLANS APPROVAL DATE: 4-27-15

Professional Engineer Seal:
 REGISTERED PROFESSIONAL ENGINEER
 Jiangfan Chen
 No. 77248
 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.



APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 50'
WPC-5

FOR NOTES AND LEGEND,
 SEE SHEET WPC-1

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:51

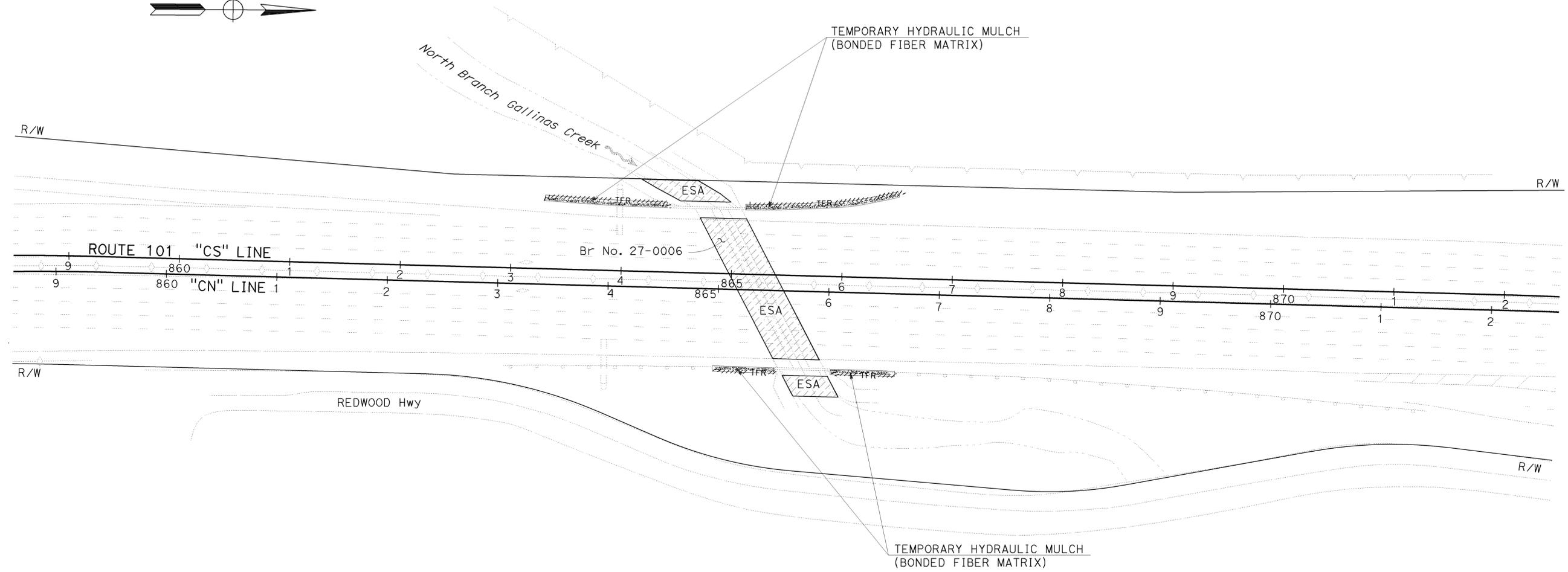
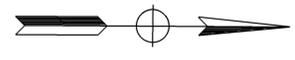
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	16	149

REGISTERED CIVIL ENGINEER DATE 4-14-15
 No. 77248
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

REGISTERED CIVIL ENGINEER
 Jiangfan Chen
 No. 77248
 Exp. 6-30-15
 CIVIL
 STATE OF CALIFORNIA

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 COPIES OF THIS PLAN SHEET.

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



TEMPORARY WATER POLLUTION CONTROL QUANTITIES

ITEM	UNIT	POST MILE	QUANTITY
TEMPORARY FIBER ROLL	LF	1.5, 1.7, 8.5, 14.0	1000
TEMPORARY DRAINAGE INLET PROTECTION	EA	1.5, 8.5	8
TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	14.0	150
TEMPORARY COVER	SQYD	14.0	2

TEMPORARY WATER POLLUTION CONTROL PLAN

SCALE: 1" = 50'

APPROVED FOR TEMPORARY WATER POLLUTION CONTROL WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET WPC-1

WPC-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 WATER QUALITY
 FUNCTIONAL SUPERVISOR: KAMRAN NAKHJIRI
 CALCULATED/DESIGNED BY: NGOCCHAU TRAN
 CHECKED BY: JIANGFAN CHEN
 REVISED BY: NT
 DATE REVISED: 4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:51

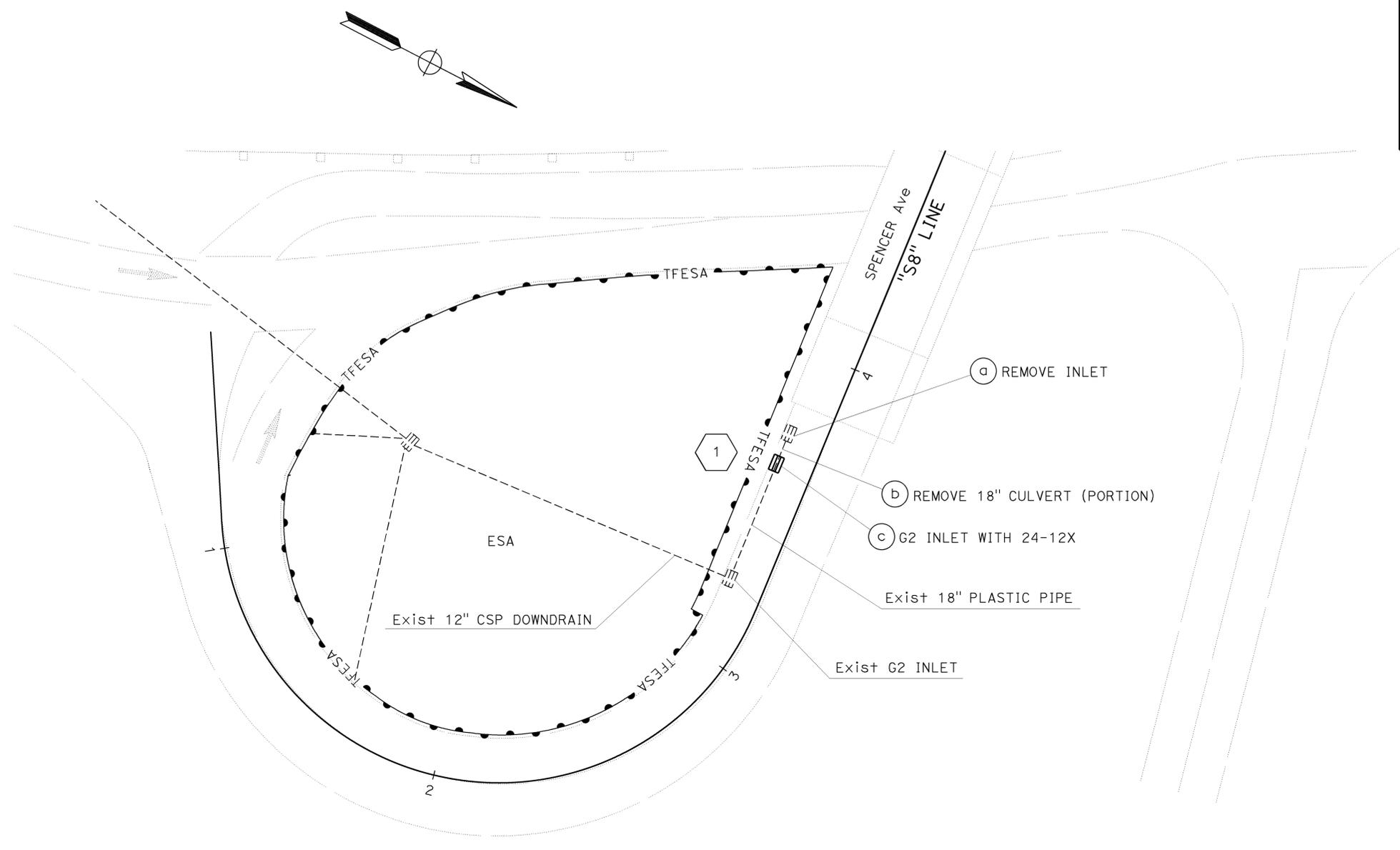
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	17	149

Charlotte A. Cashin 4-15-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

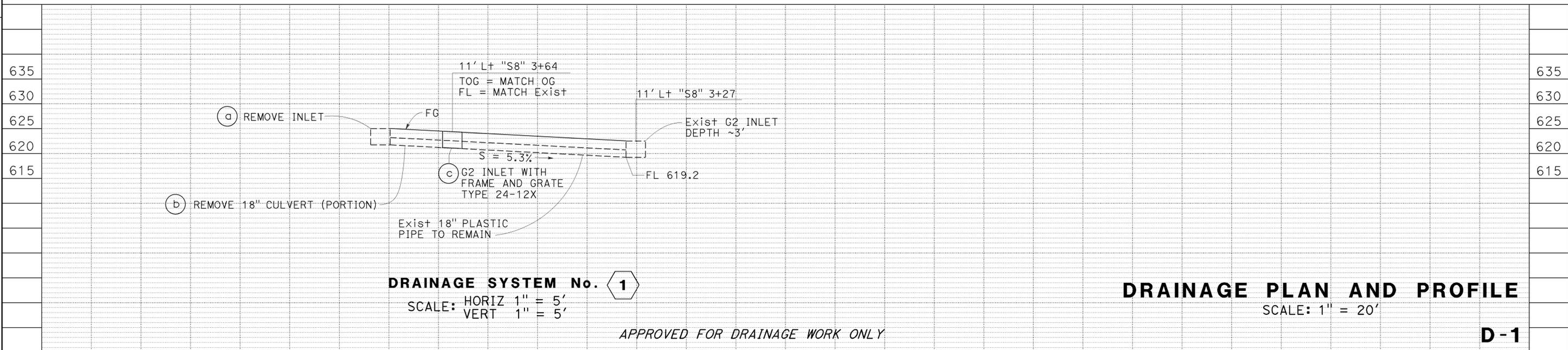
REGISTERED PROFESSIONAL ENGINEER
 Charlotte A. Cashin
 No. 34417
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	JOSEPH PETERSON	JOSEPH PETERSON	CC	4/24/15



ABBREVIATION:
TOG TOP OF GRATE



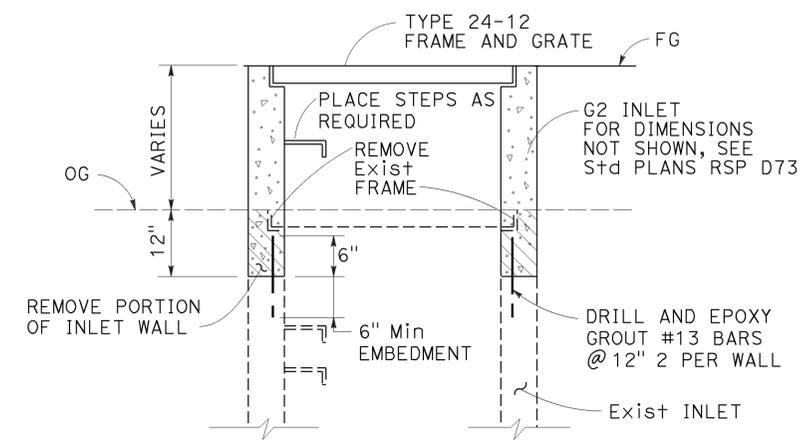
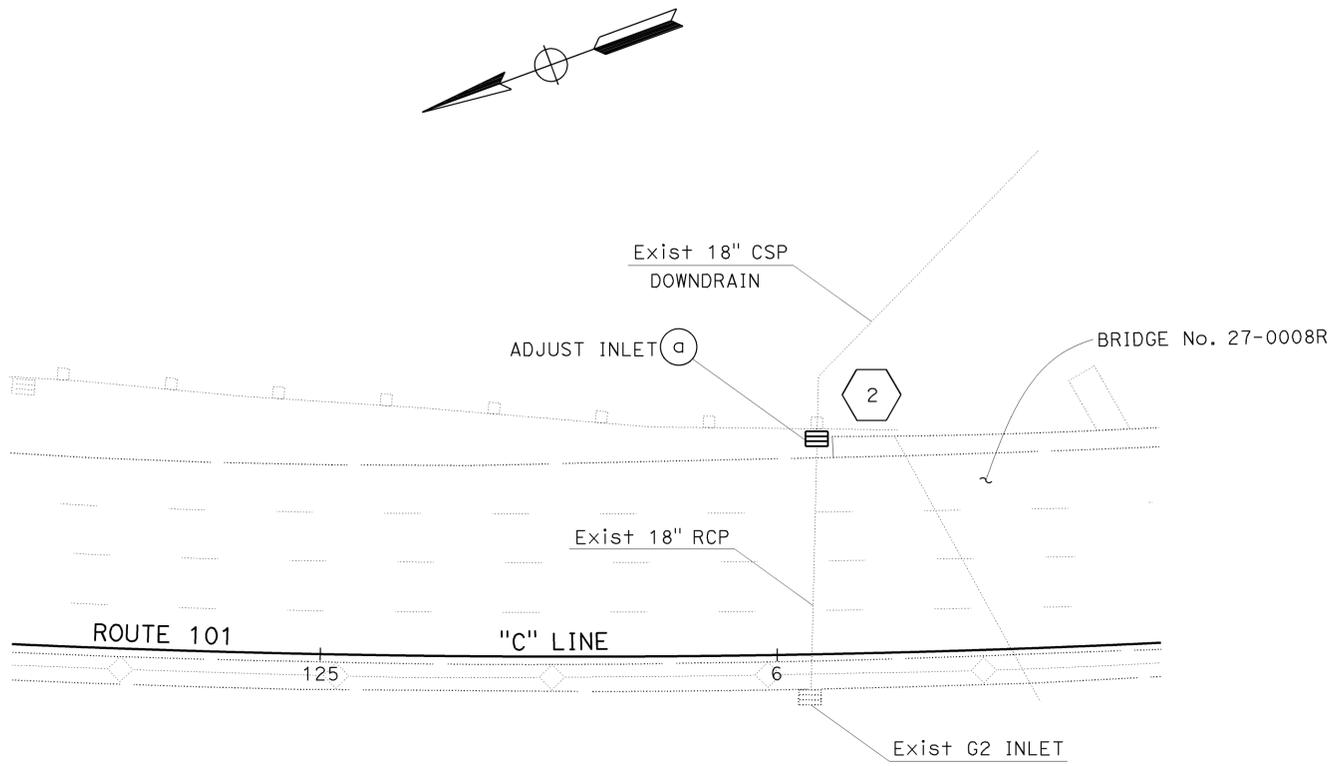
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	18	149

Charlotte A. Cashin 4-15-15
REGISTERED CIVIL ENGINEER DATE

4-27-15
PLANS APPROVAL DATE

Charlotte A. Cashin
No. 34417
Exp. 9-30-15
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.



SECTIONAL VIEW
ADJUST INLET TO GRADE

DRAINAGE QUANTITIES

DRAINAGE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	REMOVE INLET		REMOVE CULVERT	FRAME AND GRATE TYPE 24-12X (N)	MINOR CONCRETE (MINOR STRUCTURE)	Misc IRON AND STEEL	HEIGHT OF INLET (N)	FRAME AND GRATE TYPE 24-12 (N)	DESCRIPTION	STATION	DRAINAGE PLAN SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
			EA	LF											
D-1	1	a	1		15						REMOVE INLET	11' Lt "S8" 3+79±	D-1	1	a
		b				1	.95	239	3		REMOVE 18" CULVERT (PORTION)*	11' Lt "S8" 3+70±			b
		c									G2 INLET	11' Lt "S8" 3+64±			c
D-2	2	a		1						1	ADJUST INLET TO GRADE	48' Lt "C" 126+10±	D-2	2	a
TOTAL			1	1	15	1	.95	239	3	1					

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
* FOR HMA QUANTITY, SEE SUMMARY OF QUANTITIES.

DRAINAGE PLAN, DETAIL AND QUANTITIES

SCALE: 1" = 20'

APPROVED FOR DRAINAGE WORK ONLY

D-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
HYDRAULICS
FUNCTIONAL SUPERVISOR: JOSEPH PETERSON
DESIGNED BY: JOSEPH PETERSON
CHECKED BY: JOSEPH PETERSON
REVISOR: CHARLOTTE CASHIN
DATE: 4/24/15
CC

LAST REVISION | DATE PLOTTED => 20-MAY-2015
04-24-15 TIME PLOTTED => 16:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	19	149
			4-13-15	DATE	
			4-27-15	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER No. 60145 Exp. 6-30-16 CIVIL					

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

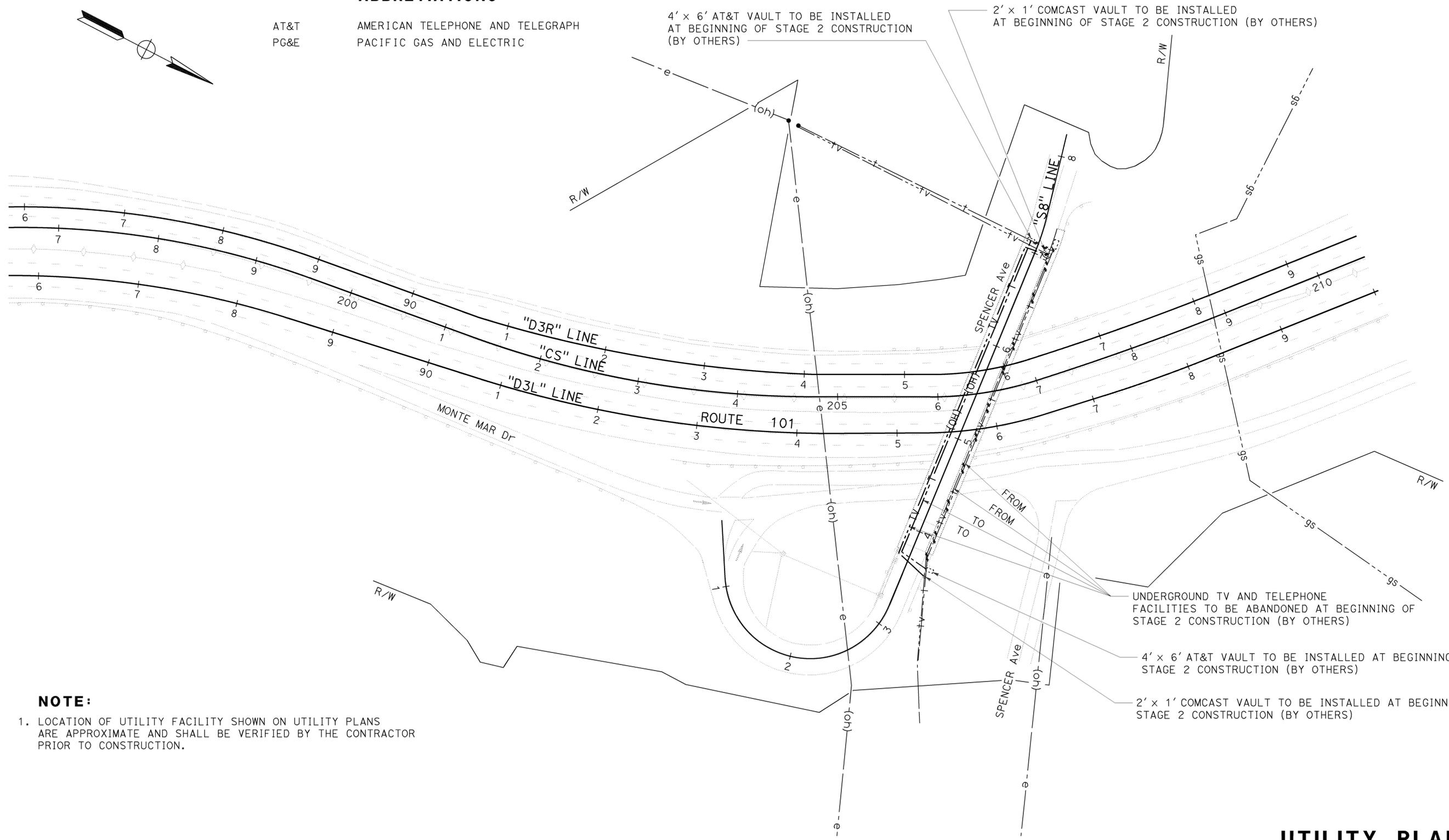
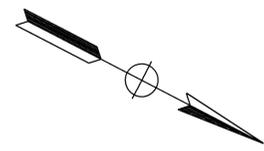
LEGEND:

UTILITIES	NEW UTILITIES	EXISTING UTILITIES	OWNERSHIP
GAS		---gs---	PG&E
ELECTRIC		---e---	PG&E
TELEVISION	--TV---	---tv---	COMCAST
TELEPHONE	---T---	---t---	AT&T
		(oh)---	
		---(oh)---	

ABBREVIATIONS:

AT&T
PG&E

AMERICAN TELEPHONE AND TELEGRAPH
PACIFIC GAS AND ELECTRIC



NOTE:
1. LOCATION OF UTILITY FACILITY SHOWN ON UTILITY PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CHECKED BY: HONG WONG, TRINH LAI
 REVISIONS: HW 4/24/15
 REVISIONS: DATE REVISIONS

APPROVED FOR UTILITY WORK ONLY

UTILITY PLAN
SCALE: 1" = 50'

U-1

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	20	149

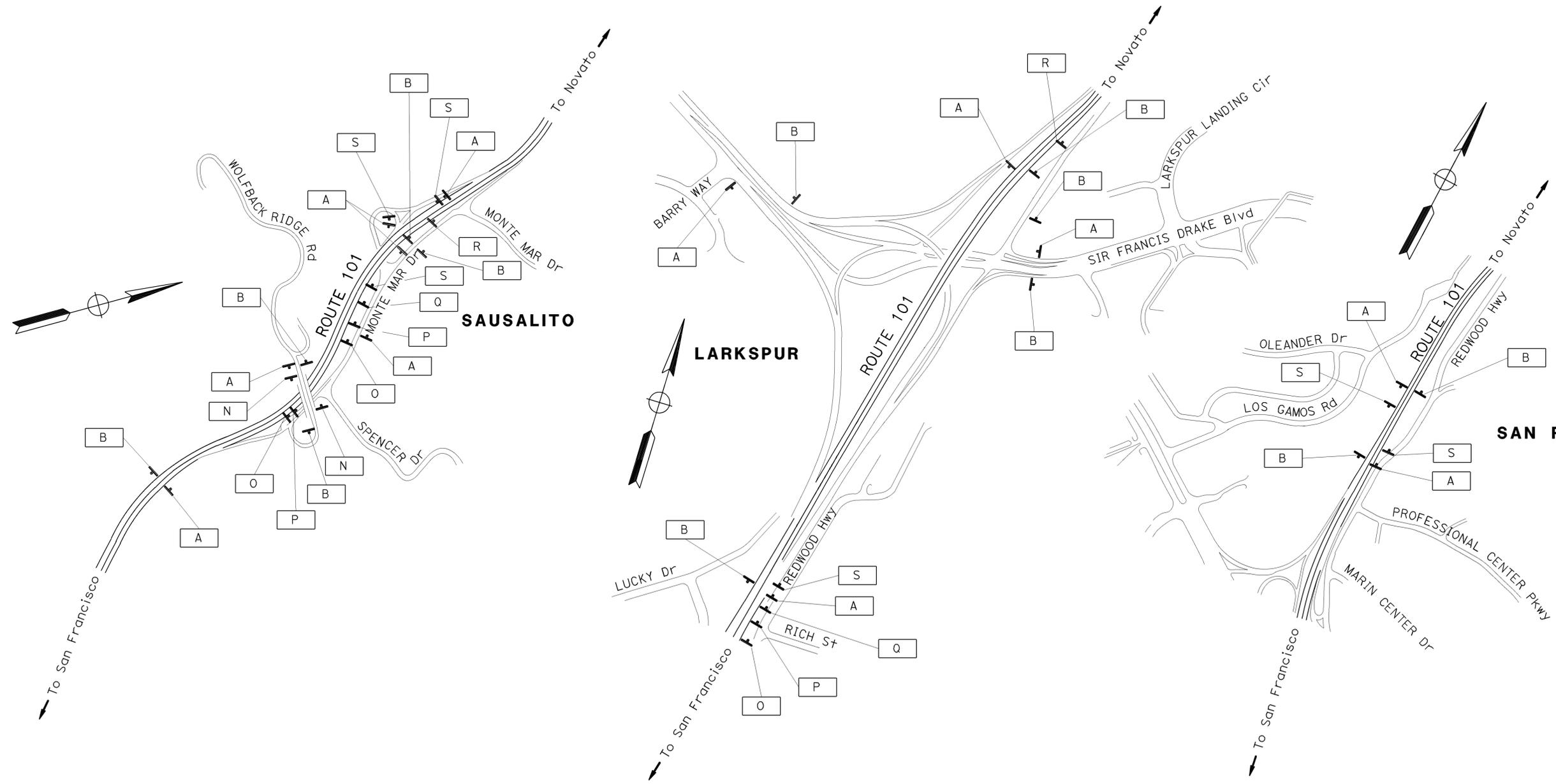
J. L. Struven 4-13-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE
 No. 49964
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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. EXACT LOCATION AND POSITION OF SIGNS TO BE DETERMINED BY THE ENGINEER.
2. SIGN POST LENGTH ARE APPROXIMATE, EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.

LEGEND:



LOCATIONS 1, 2
 (Mrn 101 PM 1.5/1.7)

LOCATIONS 3, 4, 5
 (Mrn 101 PM 8.5/8.8)

LOCATION 6
 (Mrn 101 PM 14.0)

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:51

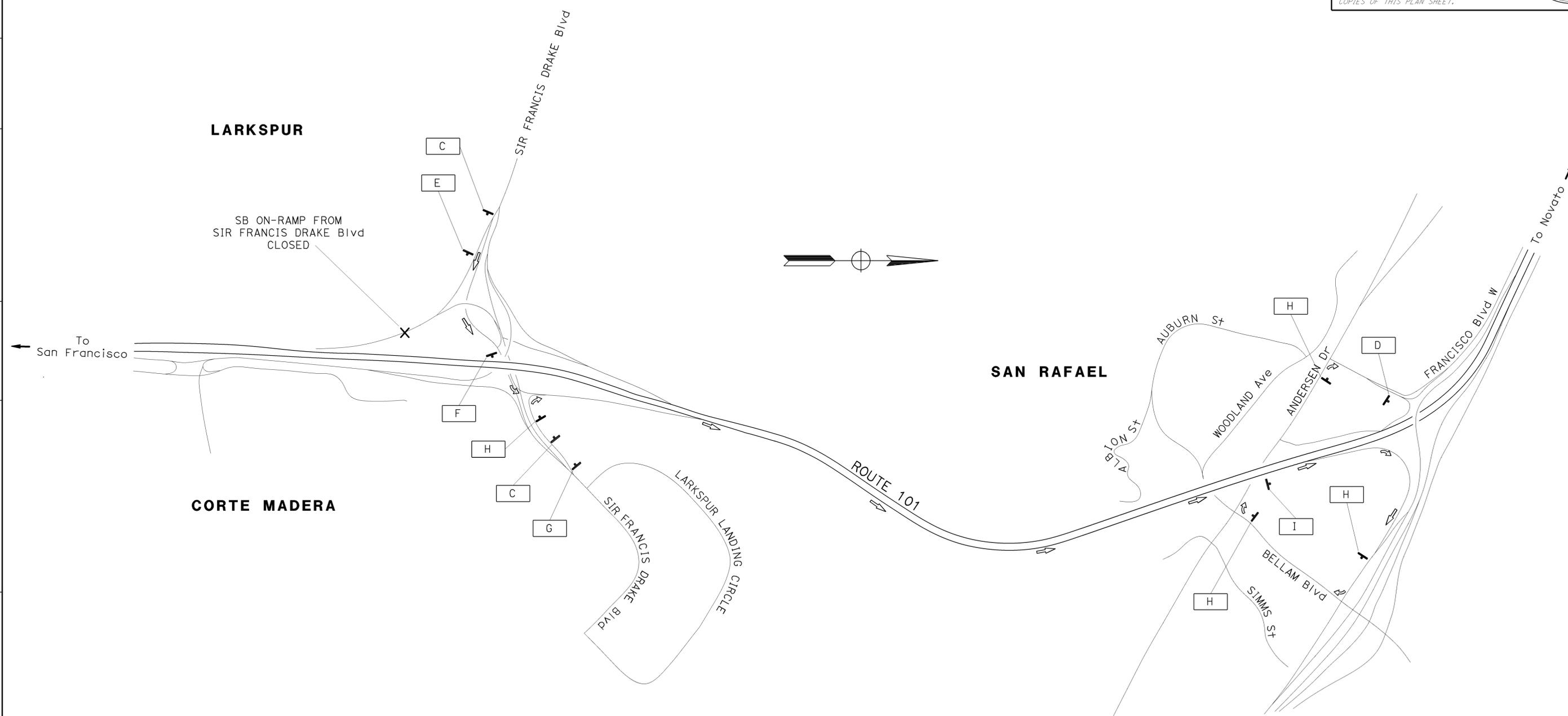
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	21	149

Jeryl L. Struven 4-13-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jeryl L. Struven
 No. 49964
 Exp. 12-31-16
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CHECKED BY	DESIGNED BY	HENRY TAM	REVISOR	DATE
Caltrans	ROLAND AU-YEUNG	JERILYN STRUVEN	JERILYN STRUVEN	HM	4/24/15	



DETOUR PLAN No. 1
 DETOUR - VIA
 NB Rte 101 ON-RAMP FROM EB AND WB SIR FRANCIS DRAKE Blvd
 EXIT TOWARDS Rte 580/RICHMOND BRIDGE/FRANCISCO Blvd
 RIGHT ON BELLAM Blvd
 RIGHT ON ANDERSEN Dr
 RIGHT ONTO FRANCISCO Blvd W
 RIGHT MERGE ONTO SB Rte 101 TOWARDS SAN FRANCISCO

CONSTRUCTION AREA SIGNS
 NO SCALE

FOR NOTES AND LEGEND, SEE SHEET CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-2

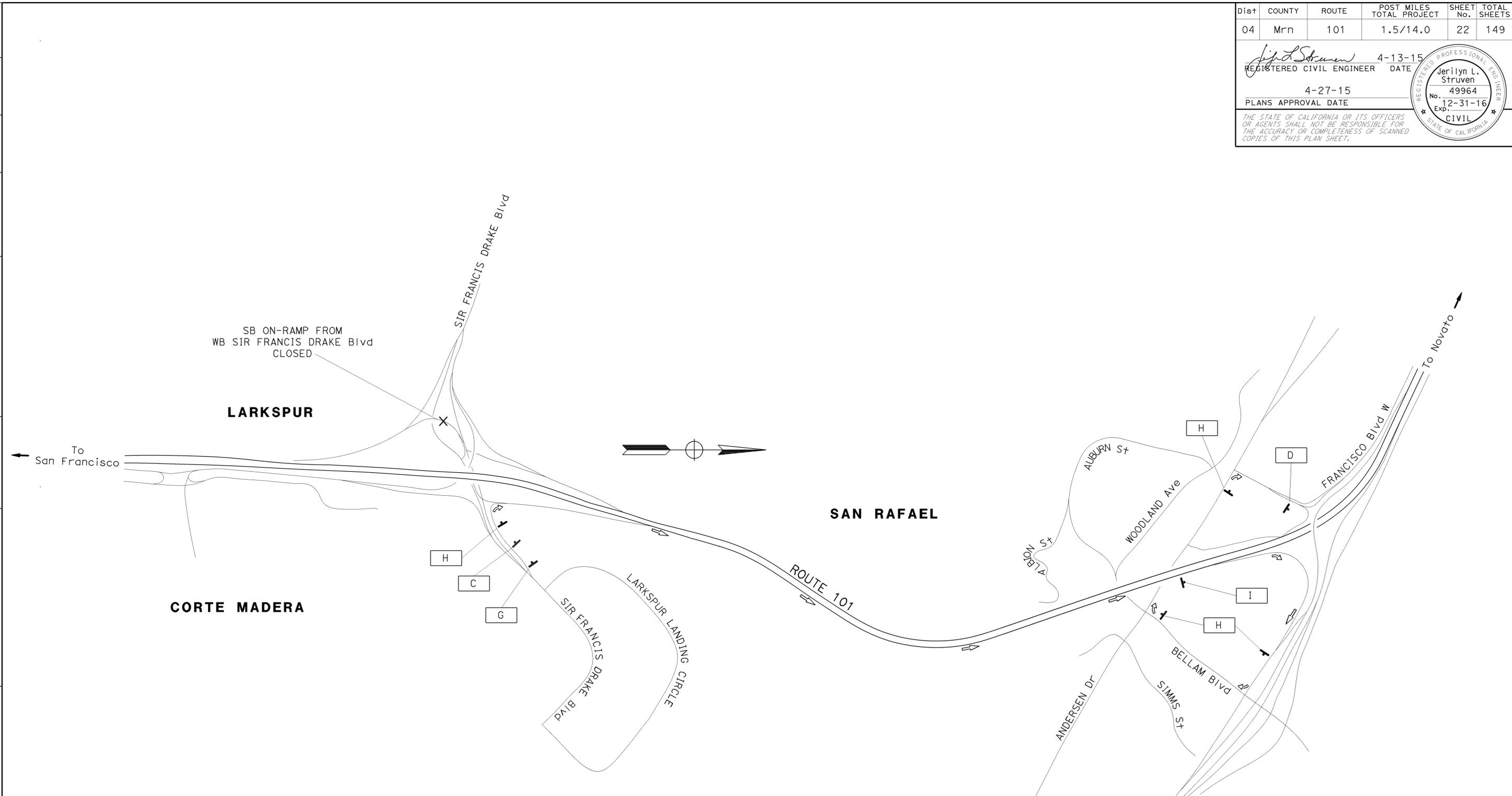
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	22	149

Jeryl L. Struven 4-13-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jeryl L. Struven
 No. 49964
 Exp. 12-31-16
 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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	HENRY TAM	REVISOR	HM
Caltrans	ROLAND AU-YEUNG	CHECKED BY	JERILYN STRUVEN	DATE REVISED	4/24/15
TRAFFIC					



DETOUR PLAN No. 2
 DETOUR - VIA
 NB Rte 101 ON-RAMP FROM WB SIR FRANCIS DRAKE Blvd
 EXIT TOWARDS Rte 580/RICHMOND BRIDGE/FRANCISCO Blvd
 RIGHT ON BELLAM Blvd
 RIGHT ON ANDERSEN Dr
 RIGHT ONTO FRANCISCO Blvd W
 RIGHT MERGE ONTO SB Rte 101 TOWARDS SAN FRANCISCO

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

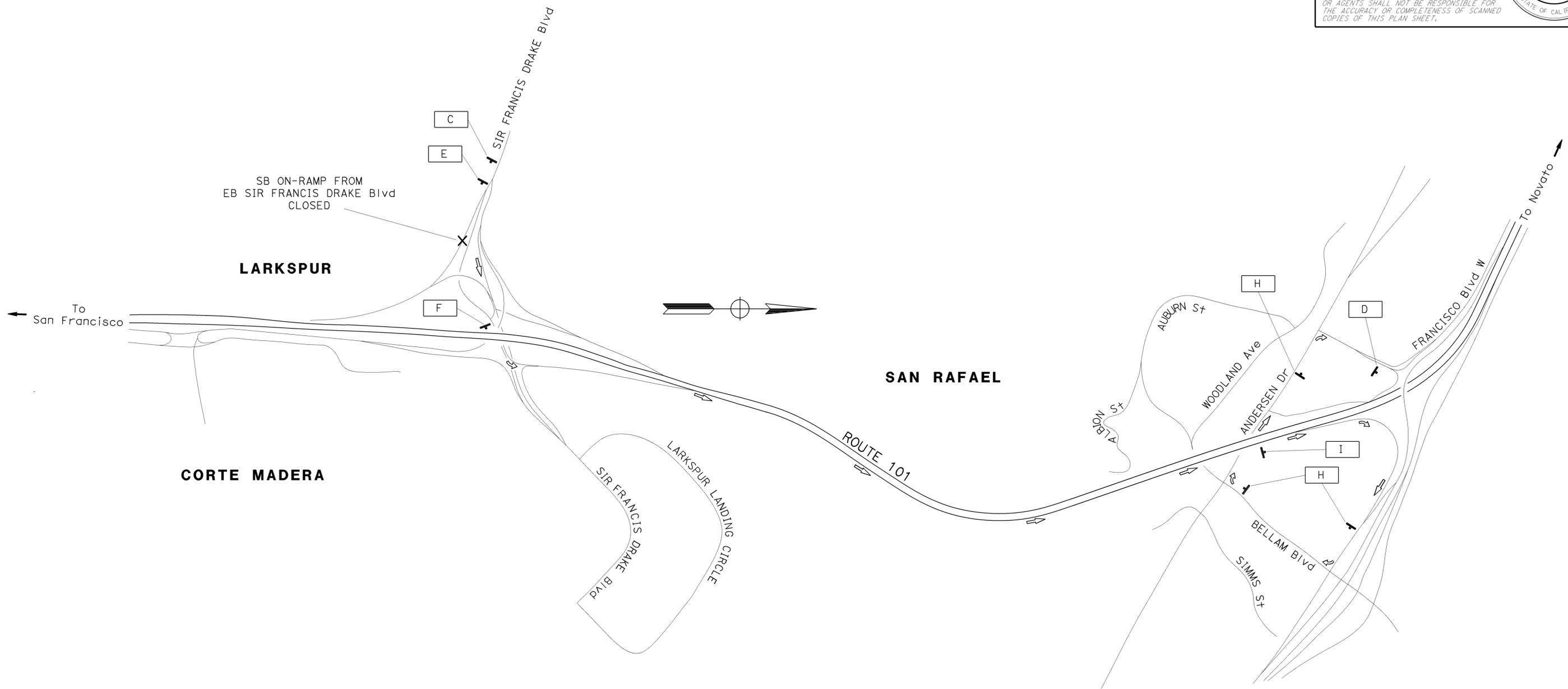
FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-3

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	23	149
 REGISTERED CIVIL ENGINEER			4-13-15	DATE	
PLANS APPROVAL DATE			4-27-15		
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.					
					

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	HENRY TAM	REVISOR	HM
	ROLAND AU-YEUNG	CHECKED BY	JERILYN STRUVEN	DATE REVISED	4/24/15



DETOUR PLAN No. 3
 DETOUR-VIA
 NB Rte 101 ON-RAMP FROM EB SIR FRANCIS DRAKE Blvd
 EXIT TOWARDS Rte 580/RICHMOND BRIDGE/FRANCISCO Blvd
 RIGHT ON BELLAM Blvd
 RIGHT ON ANDERSEN Dr
 RIGHT ONTO FRANCISCO Blvd W
 RIGHT MERGE ONTO SB Rte 101 TOWARDS SAN FRANCISCO

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

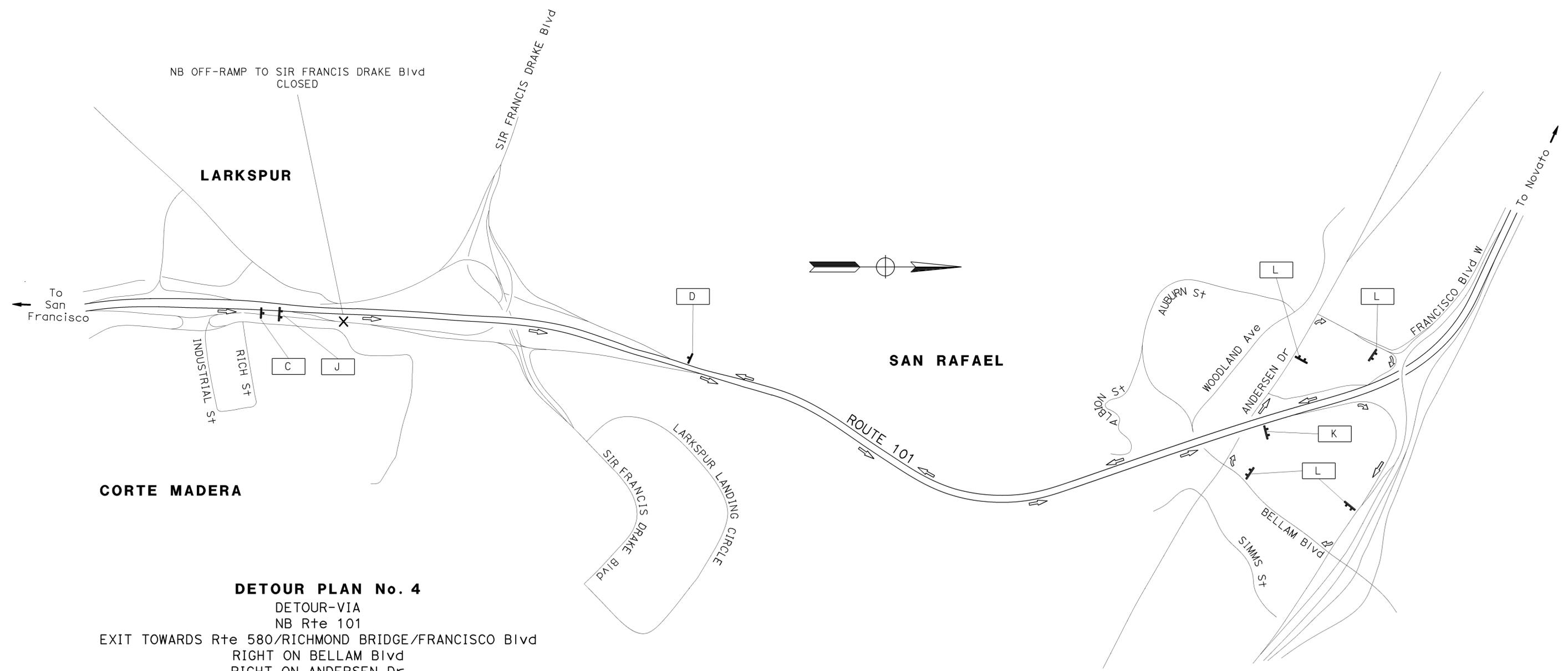
CS-4

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 | TIME PLOTTED => 16:51

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	24	149
			4-13-15	DATE	
REGISTERED CIVIL ENGINEER			No. 49964		
PLANS APPROVAL DATE			4-27-15	Exp. 12-31-16	
<small>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.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	HENRY TAM	REVISOR BY	HM
TRAFFIC	ROLAND AU-YEUNG	CHECKED BY	JERILYN STRUVEN	DATE REVISED	4/24/15



DETOUR PLAN No. 4
 DETOUR-VIA
 NB Rte 101
 EXIT TOWARDS Rte 580/RICHMOND BRIDGE/FRANCISCO Blvd
 RIGHT ON BELLAM Blvd
 RIGHT ON ANDERSEN Dr
 RIGHT ONTO FRANCISCO Blvd W
 RIGHT MERGE ONTO SB Rte 101 TOWARDS SAN FRANCISCO
 SB OFF-RAMP TO EB OR WB SIR FRANCIS DRAKE Blvd

CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND,
 SEE SHEET CS-1

CS-5

LAST REVISION DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:51

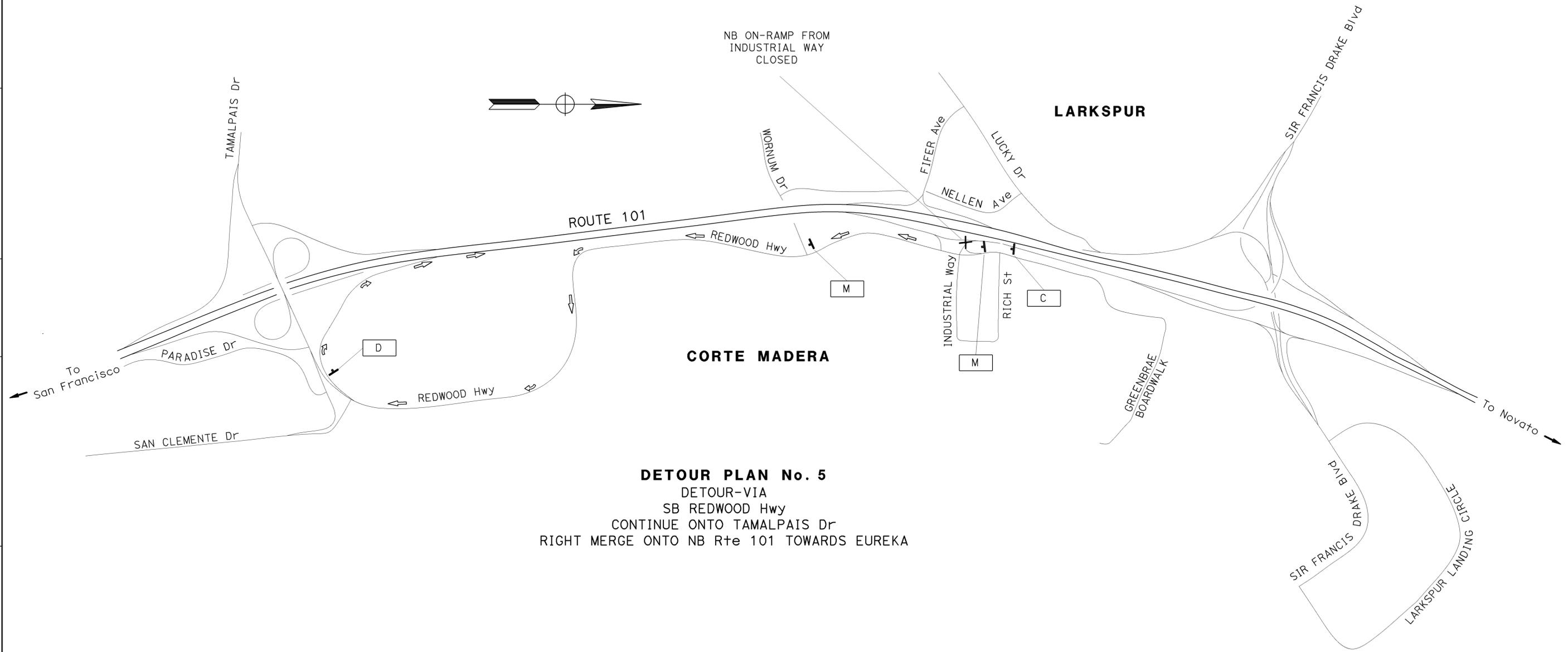
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	25	149

<i>J. L. Struven</i>	4-13-15
REGISTERED CIVIL ENGINEER	DATE
4-27-15	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
Jerilyn L. Struven
No. 49964
Exp. 12-31-16
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.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 CALCULATED/DESIGNED BY: HENRY TAM
 CHECKED BY: JERILYN STRUVEN
 REVISIONS: 4/24/15
 HM



CONSTRUCTION AREA SIGNS
 NO SCALE

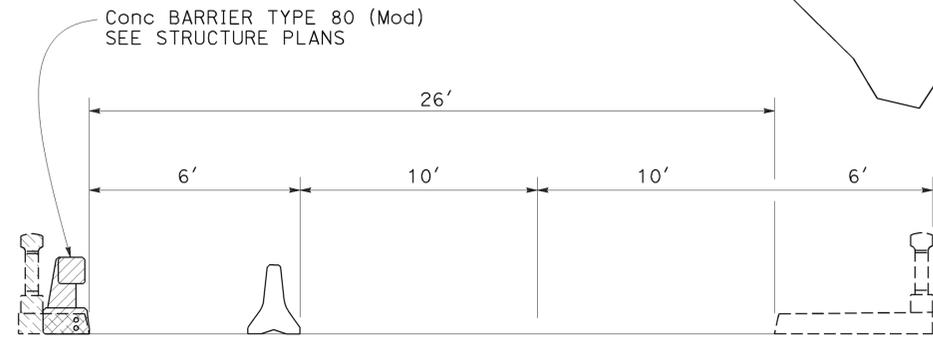
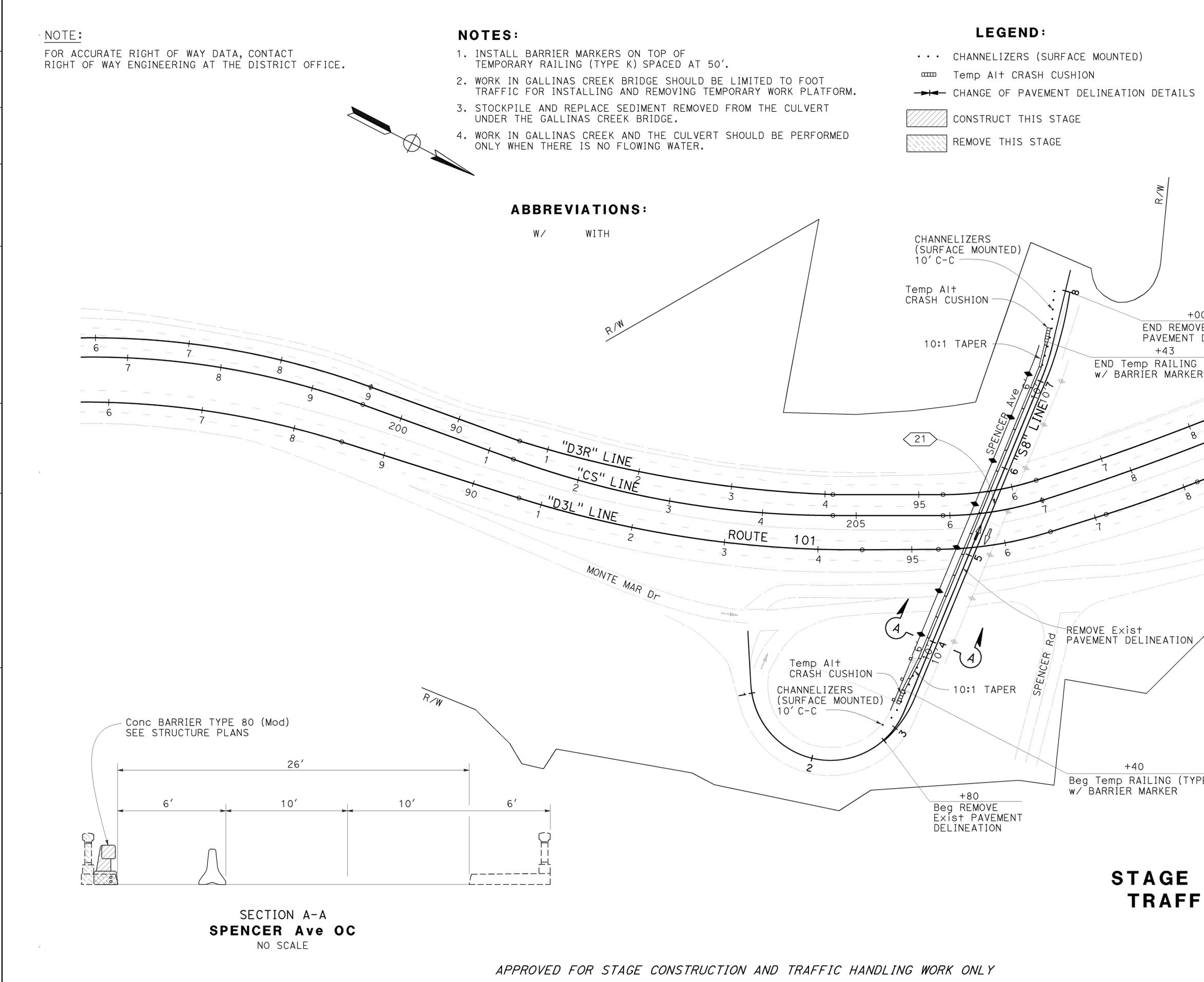
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES AND LEGEND, SEE SHEET CS-1

CS-6

LAST REVISION: DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:51

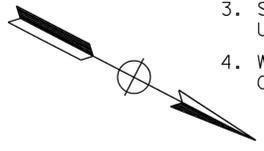
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN



SECTION A-A
 SPENCER Ave OC
 NO SCALE

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

- NOTES:**
1. INSTALL BARRIER MARKERS ON TOP OF TEMPORARY RAILING (TYPE K) SPACED AT 50'.
 2. WORK IN GALLINAS CREEK BRIDGE SHOULD BE LIMITED TO FOOT TRAFFIC FOR INSTALLING AND REMOVING TEMPORARY WORK PLATFORM.
 3. STOCKPILE AND REPLACE SEDIMENT REMOVED FROM THE CULVERT UNDER THE GALLINAS CREEK BRIDGE.
 4. WORK IN GALLINAS CREEK AND THE CULVERT SHOULD BE PERFORMED ONLY WHEN THERE IS NO FLOWING WATER.



ABBREVIATIONS:

W/ WITH

LEGEND:

- ... CHANNELIZERS (SURFACE MOUNTED)
- Temp Alt CRASH CUSHION
- CHANGE OF PAVEMENT DELINEATION DETAILS
- CONSTRUCT THIS STAGE
- REMOVE THIS STAGE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	27	149

REGISTERED CIVIL ENGINEER	DATE
Trinh T. Lai	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

PLANS APPROVAL DATE: 4-27-15

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.

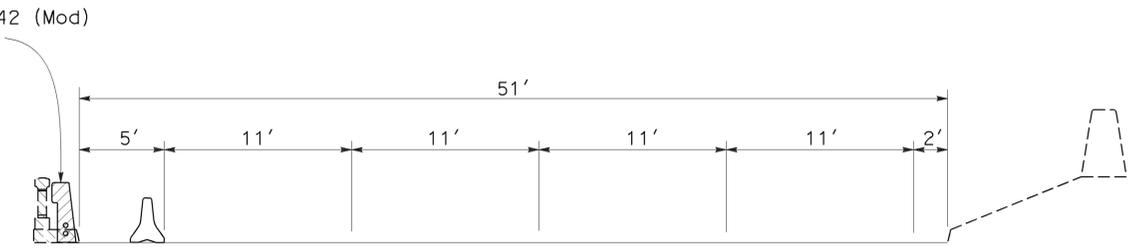
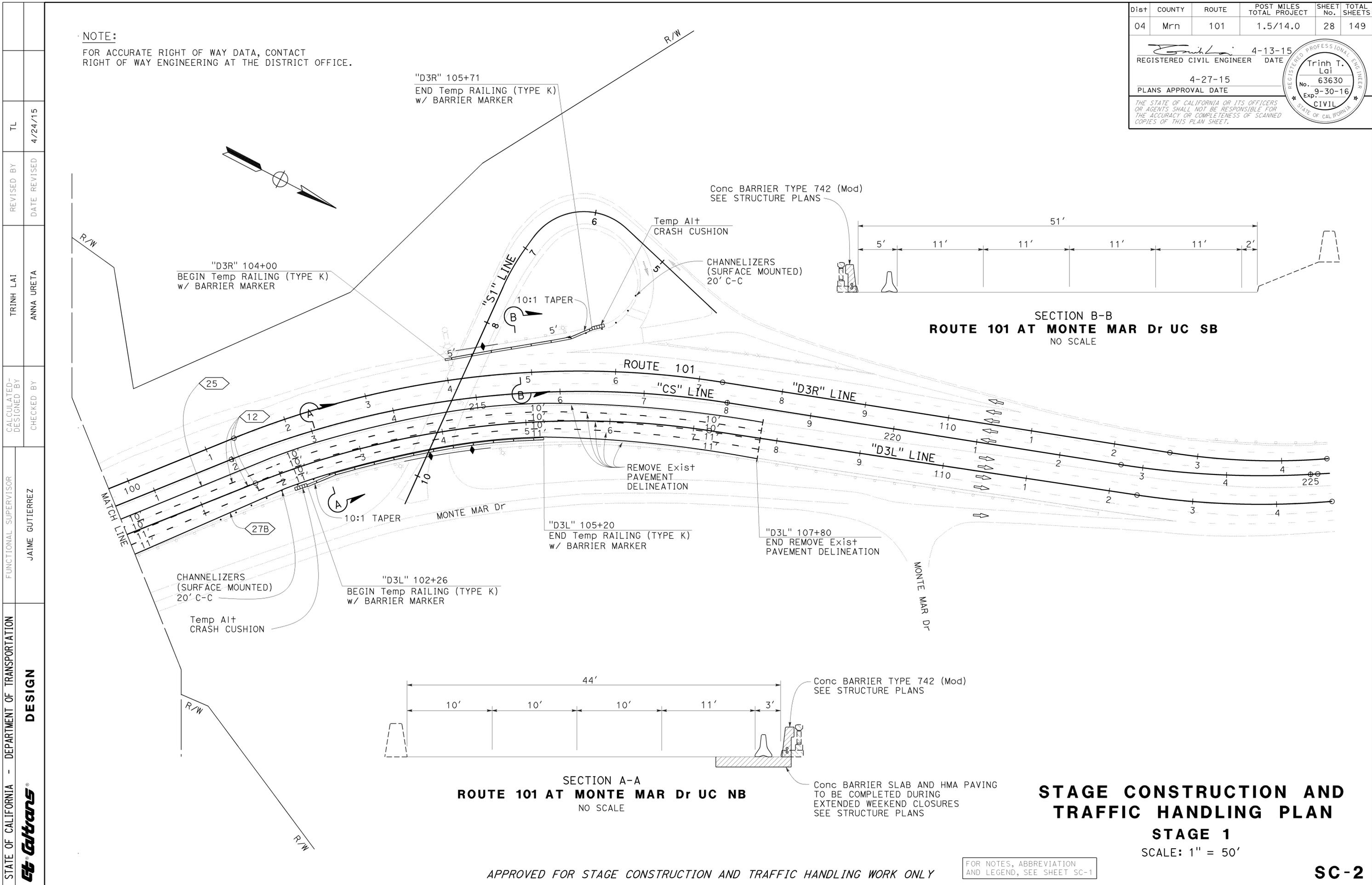
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1
 SCALE: 1" = 50'

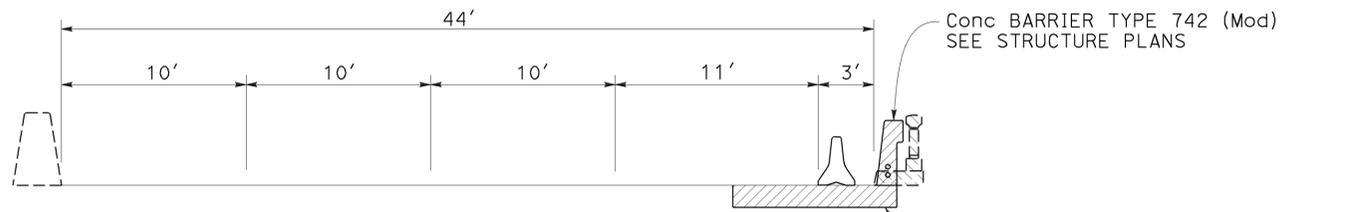
SC-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	28	149
			REGISTERED CIVIL ENGINEER	DATE	
			4-13-15		
			PLANS APPROVAL DATE		
			4-27-15		
			REGISTERED PROFESSIONAL ENGINEER Trinh T. Lai No. 63630 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA		
<small>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.</small>					

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



SECTION B-B
ROUTE 101 AT MONTE MAR Dr UC SB
 NO SCALE



SECTION A-A
ROUTE 101 AT MONTE MAR Dr UC NB
 NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
 SCALE: 1" = 50'

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	JAIMIE GUTIERREZ
CALCULATED/DESIGNED BY	CHECKED BY
TRINH LAI	ANNA URETA
REVISOR BY	DATE REVISED
TL	4/24/15

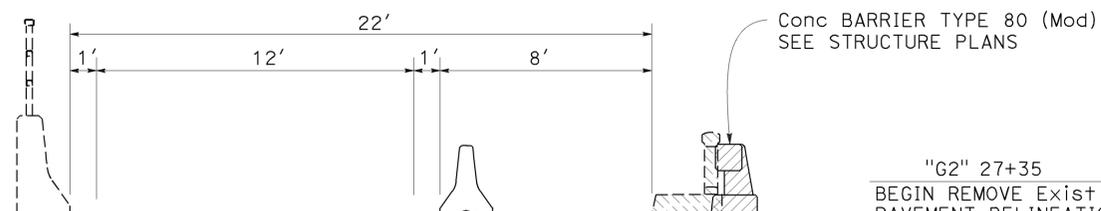
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	29	149

REGISTERED CIVIL ENGINEER	DATE
Trinh T. Lai	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

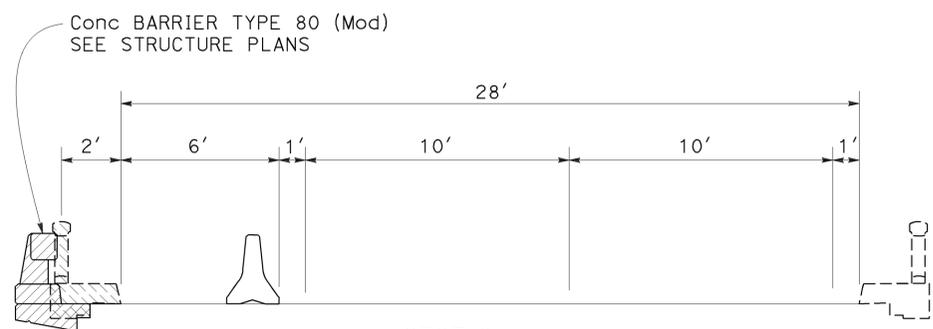
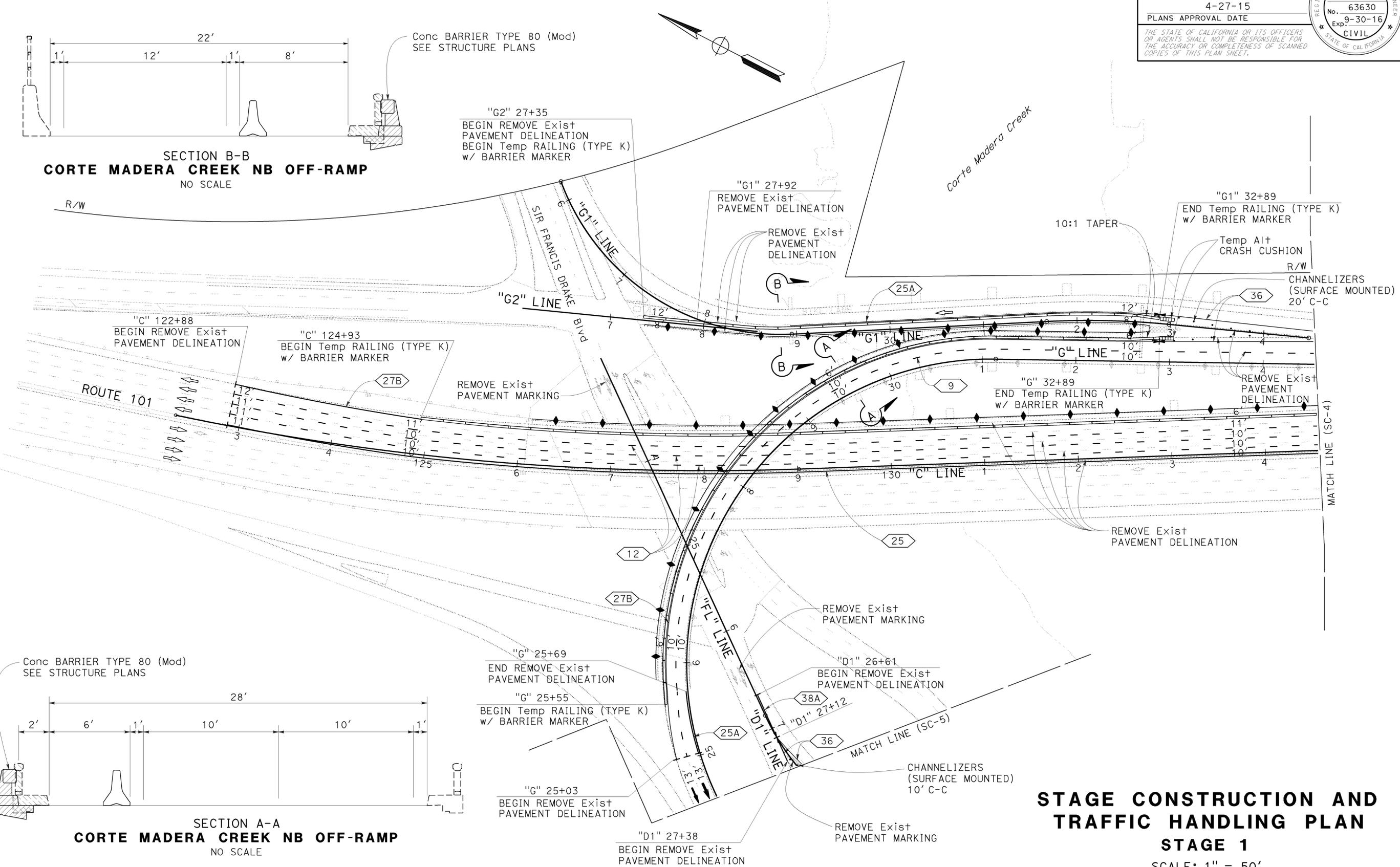
PLANS APPROVAL DATE
4-27-15

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.



SECTION B-B
CORTE MADERA CREEK NB OFF-RAMP
NO SCALE



SECTION A-A
CORTE MADERA CREEK NB OFF-RAMP
NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

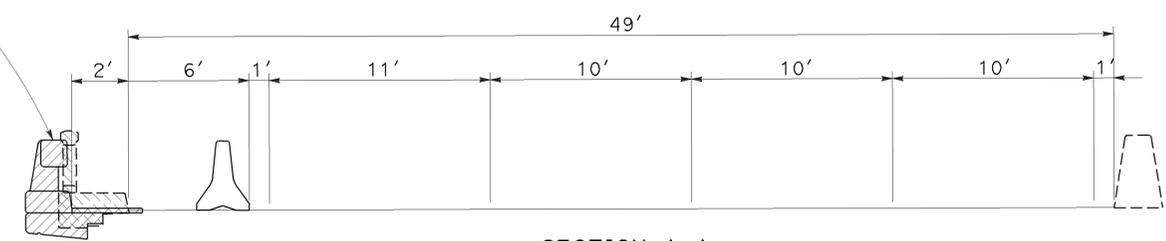
SC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
CALCULATED/DESIGNED BY: ANNA URETA
CHECKED BY: TRINH LAI
REVISED BY: ANNA URETA
DATE REVISED: 4/24/15
TL

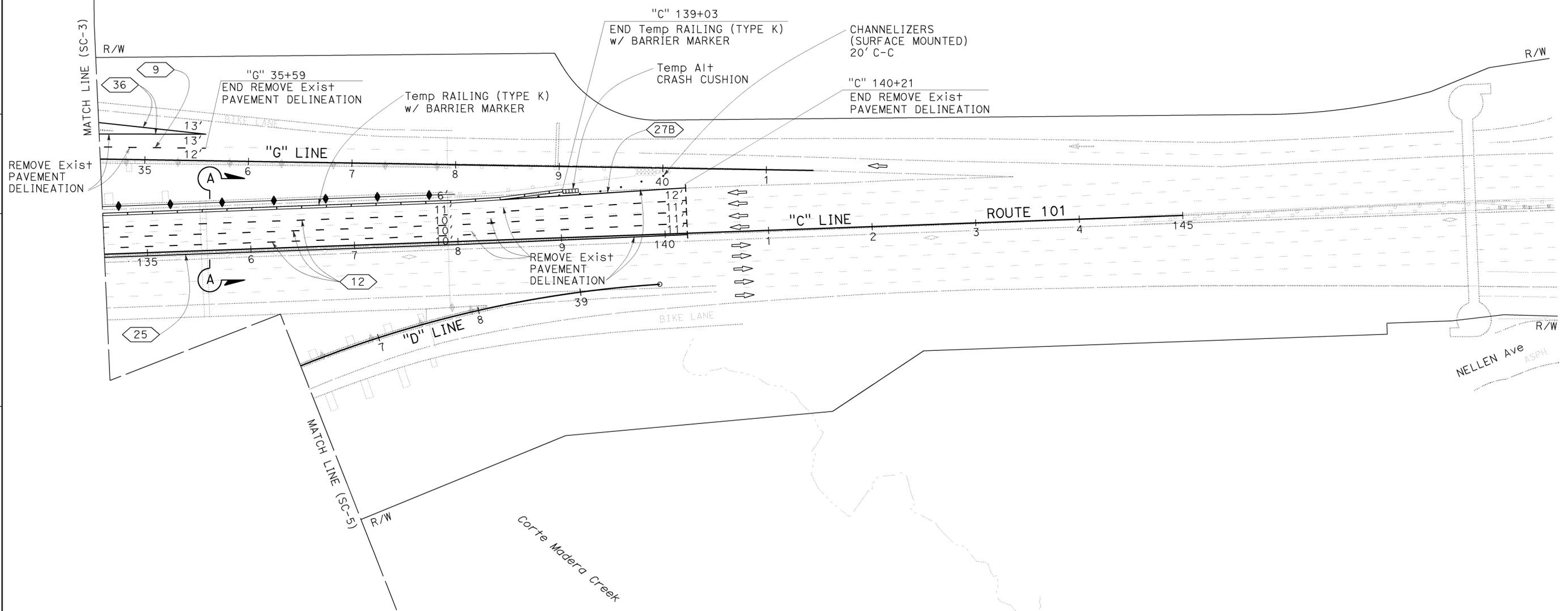
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	30	149
			4-13-15	DATE	
			4-27-15	PLANS APPROVAL DATE	
			REGISTERED CIVIL ENGINEER Trinh T. Lai No. 63630 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

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

Conc BARRIER TYPE 80 (Mod)
 SEE STRUCTURE PLANS



SECTION A-A
 CORTE MADERA CREEK NB MAINLINE
 NO SCALE



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

STAGE 1
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

SC-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRINH LAI
 ANNA URETA
 TRINH LAI
 ANNA URETA
 JAIME GUTIERREZ
 DESIGN

USERNAME => s131974
 DGN FILE => 0412000480ma004.dgn



UNIT 0730

PROJECT NUMBER & PHASE

04120004801

BORDER LAST REVISED 7/2/2010

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

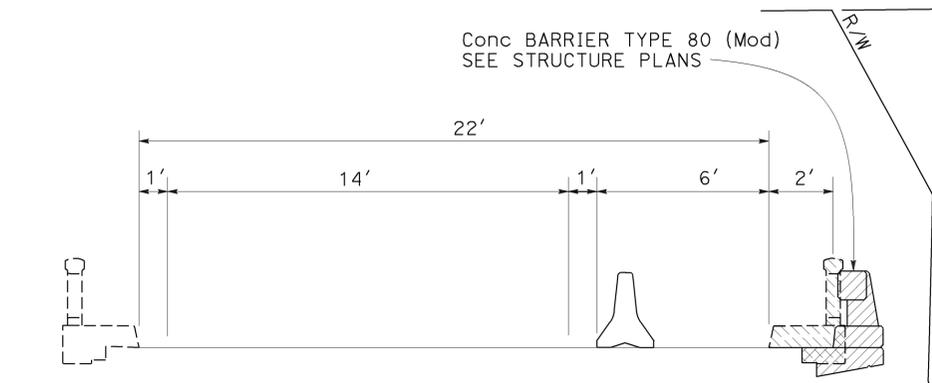
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	31	149

REGISTERED CIVIL ENGINEER	DATE
Trinh T. Lai	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

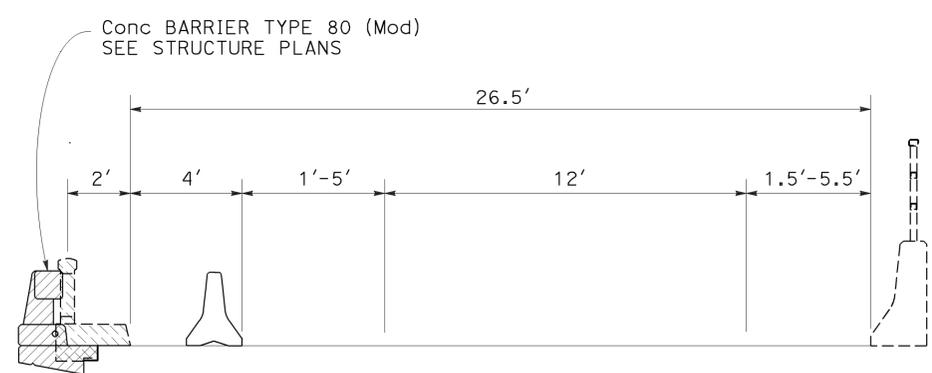
PLANS APPROVAL DATE 4-27-15

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.

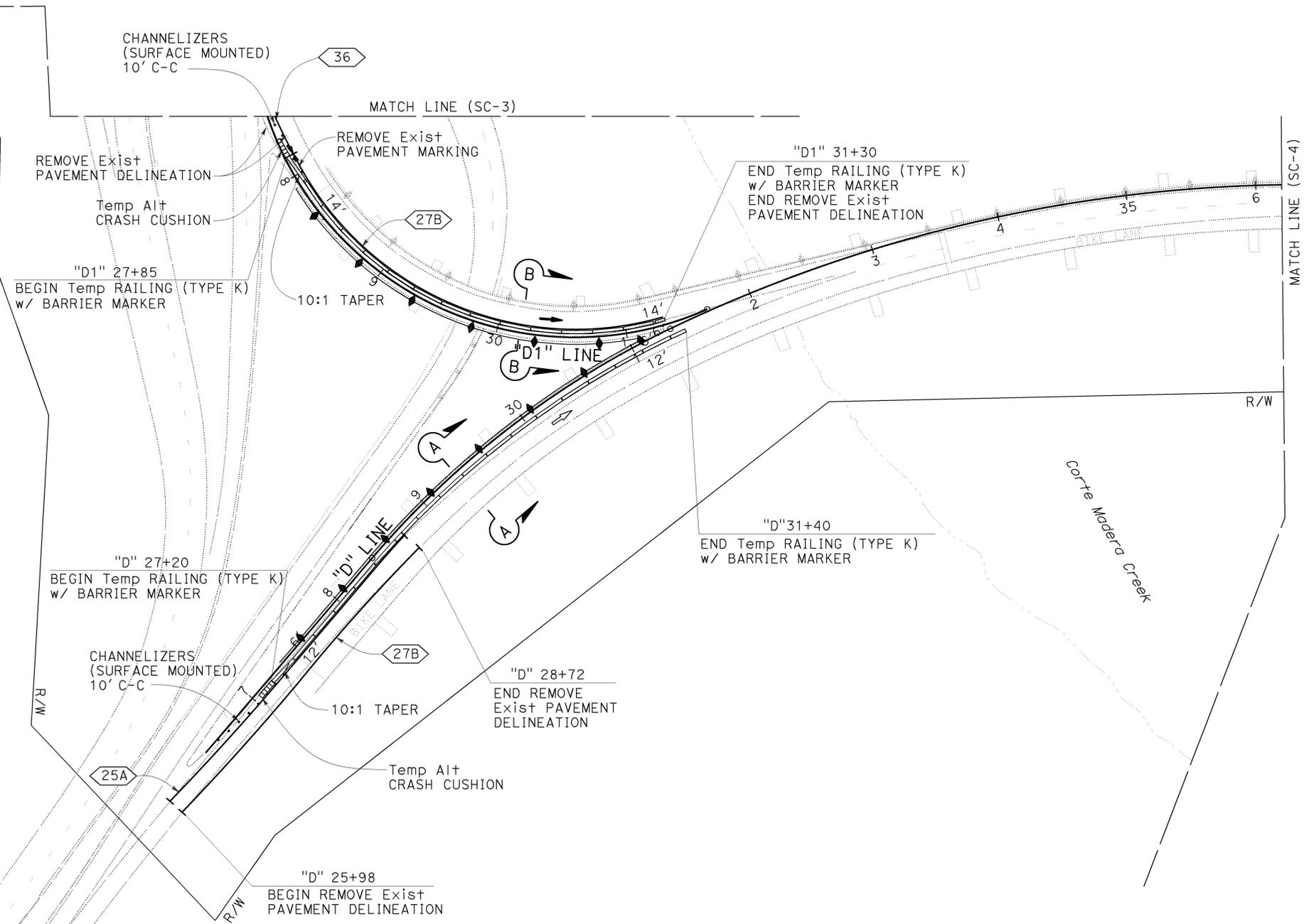
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



SECTION B-B
CORTE MADERA CREEK SB ON-RAMP
NO SCALE



SECTION A-A
CORTE MADERA CREEK SB ON-RAMP
NO SCALE



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1

SCALE: 1" = 50'

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CHECKED BY: ANNA URETA
 TRINH LAI
 REVISOR: ANNA URETA
 DATE: 4/24/15
 TL
 4/24/15

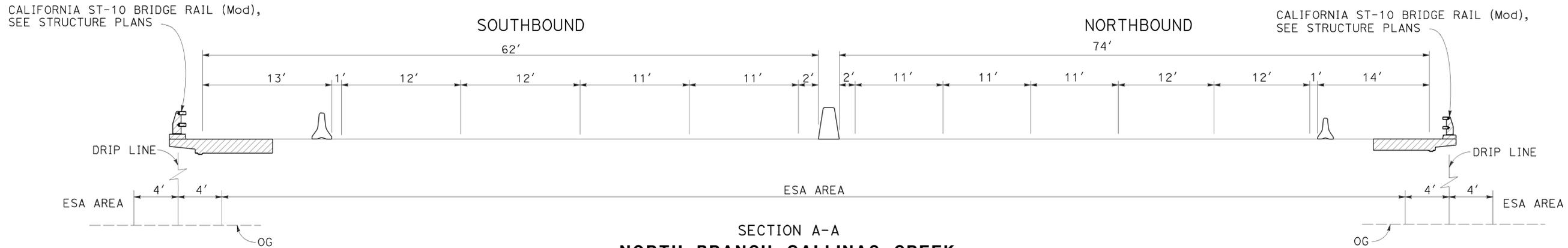
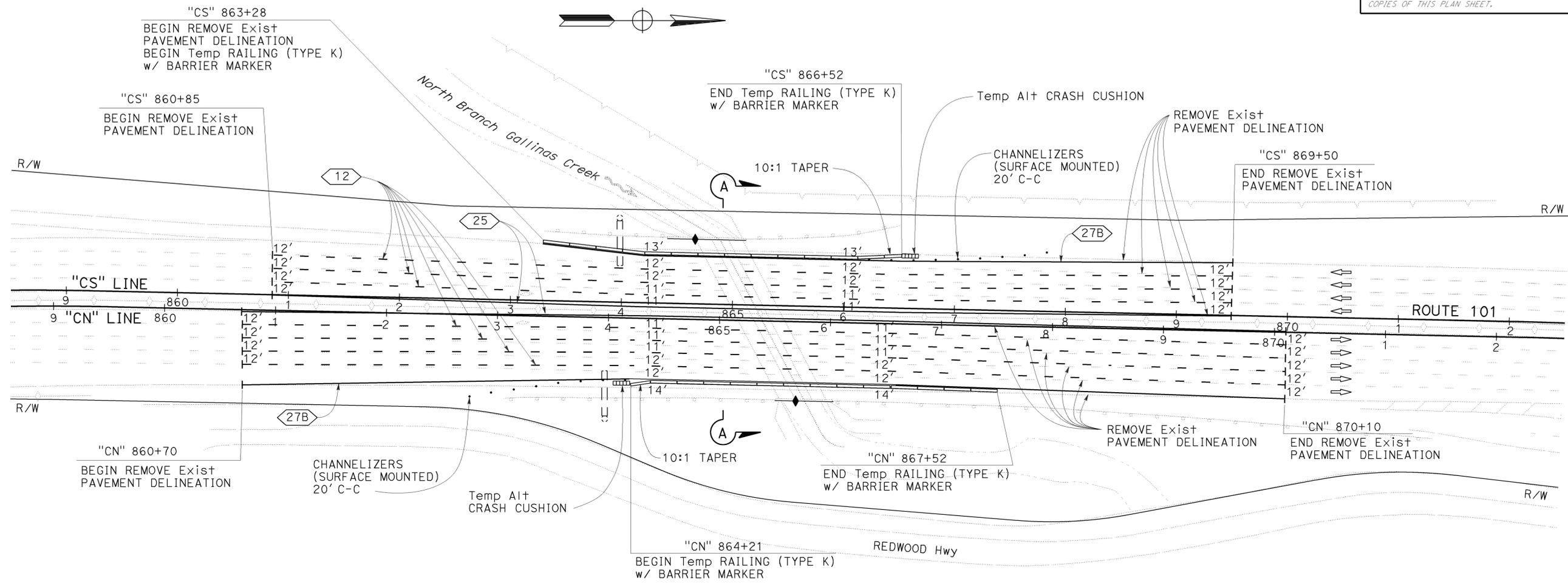
NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	32	149

REGISTERED CIVIL ENGINEER	DATE
Trinh T. Lai	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

PLANS APPROVAL DATE: 4-27-15

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SECTION A-A
NORTH BRANCH GALLINAS CREEK
NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

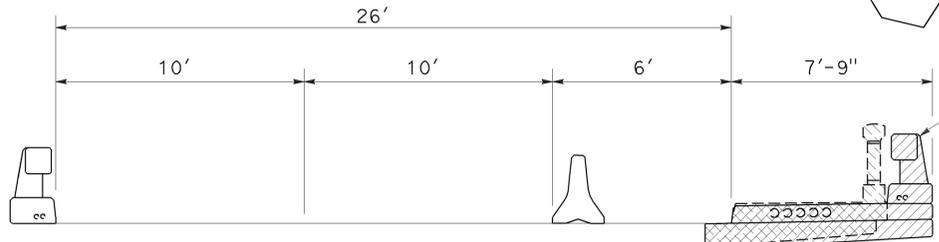
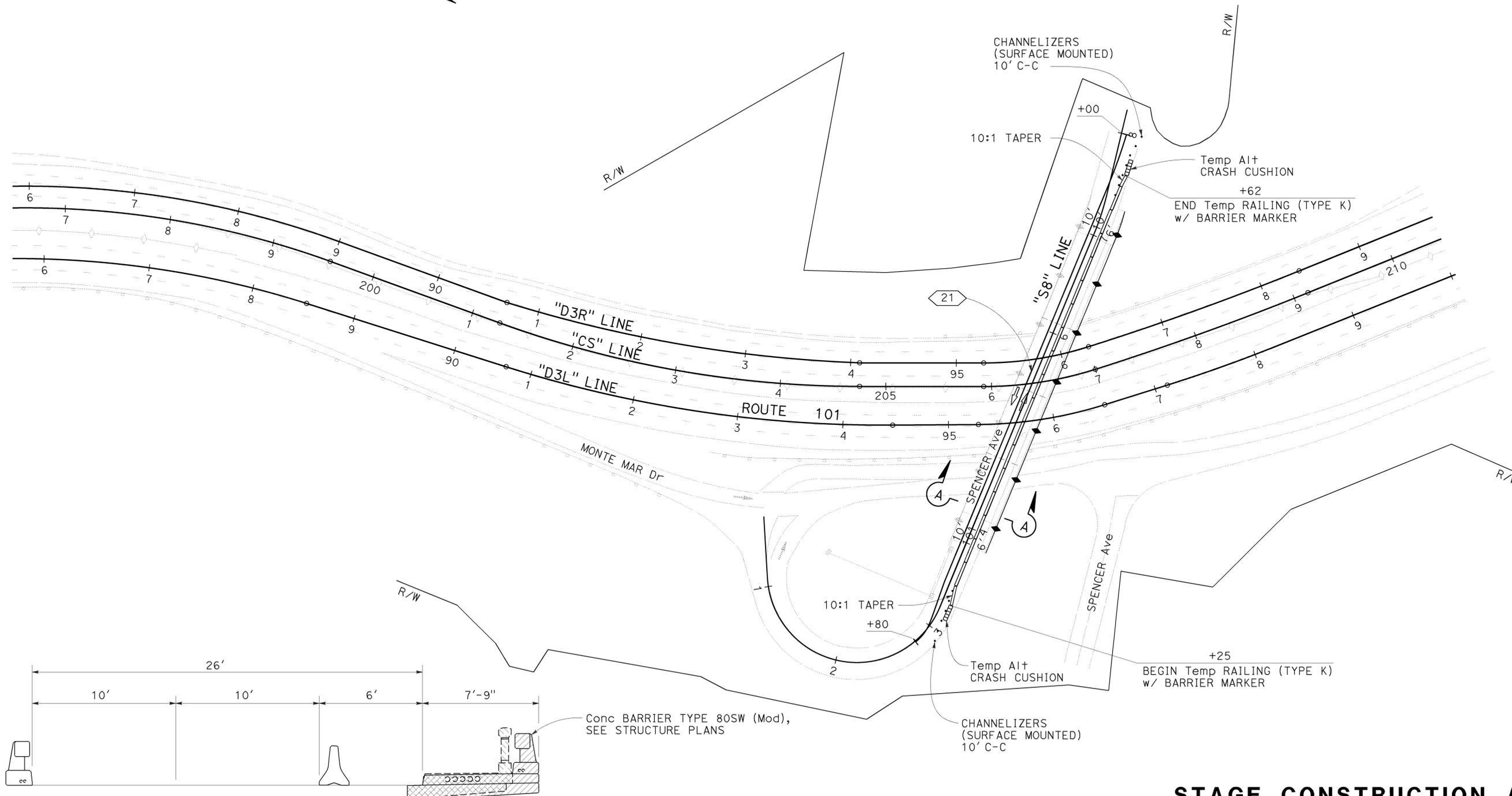
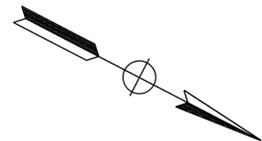
SC-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
CALCULATED/DESIGNED BY: ANNA URETA
TRINH LAI
REVISOR: ANNA URETA
DATE REVISED: 4/24/15
TL

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	33	149
			REGISTERED CIVIL ENGINEER	DATE	
			4-13-15		
			PLANS APPROVAL DATE		
			4-27-15		
			REGISTERED PROFESSIONAL ENGINEER Trinh T. Lai No. 63630 Exp. 9-30-16 CIVIL STATE OF CALIFORNIA		
<small>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.</small>					

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



SECTION A-A
SPENCER Ave OC
NO SCALE

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
SCALE: 1" = 50'

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

SC-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
Caltrans	
FUNCTIONAL SUPERVISOR	JAIMIE GUTIERREZ
CALCULATED/DESIGNED BY	CHECKED BY
TRINH LAI	ANNA URETA
REVISED BY	DATE REVISED
TL	4/24/15

LAST REVISION DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	35	149

REGISTERED CIVIL ENGINEER	DATE	4-13-15
PLANS APPROVAL DATE	4-27-15	

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

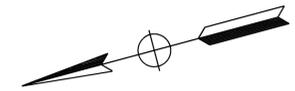
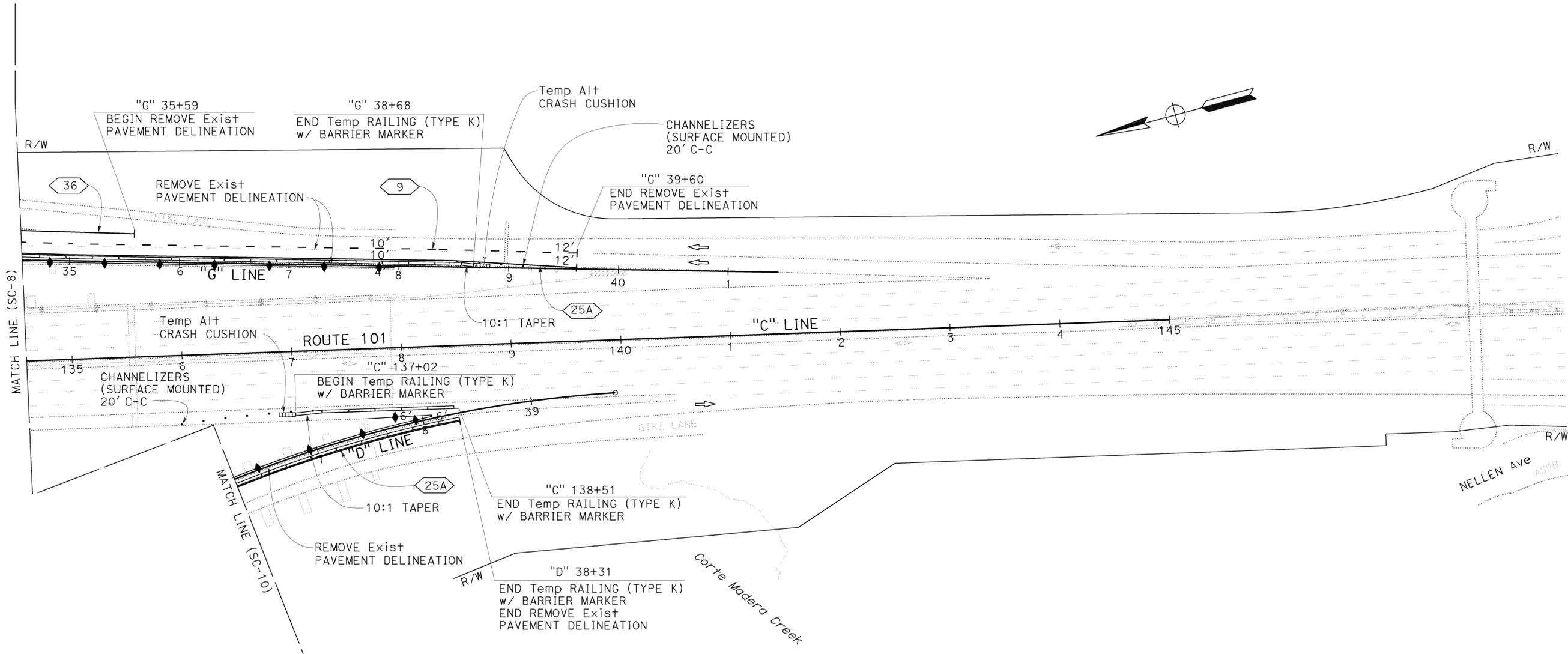
FUNCTIONAL SUPERVISOR
 JAIME GUTIERREZ

CALCULATED/DESIGNED BY
 CHECKED BY

TRINH LAI
 ANNA URETA

REVISOR BY
 DATE REVISED

TL
 4/24/15



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

FOR NOTES, ABBREVIATION AND LEGEND, SEE SHEET SC-1

SC-9

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

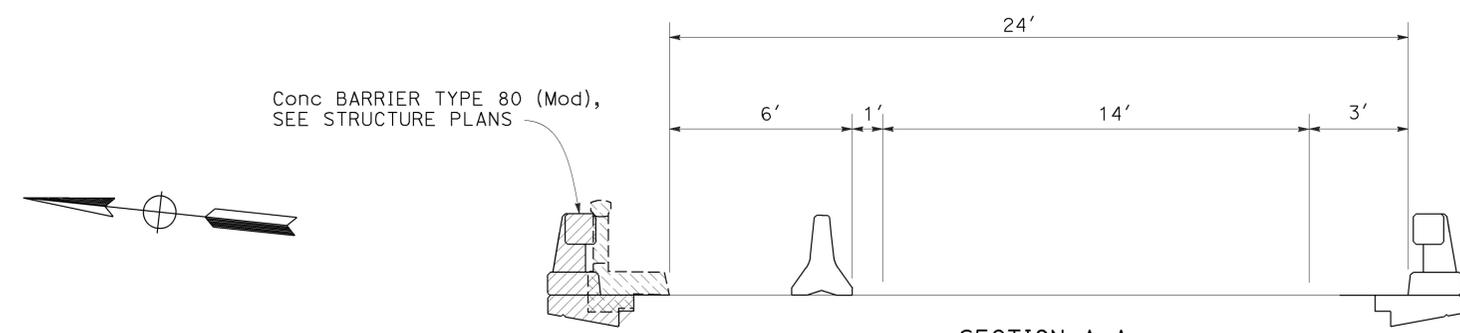
FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CHECKED BY: ANNA URETA
 DESIGNED BY: TRINH LAI
 REVISIONS: TL 4/24/15
 REVISIONS: ANNA URETA 4/24/15

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

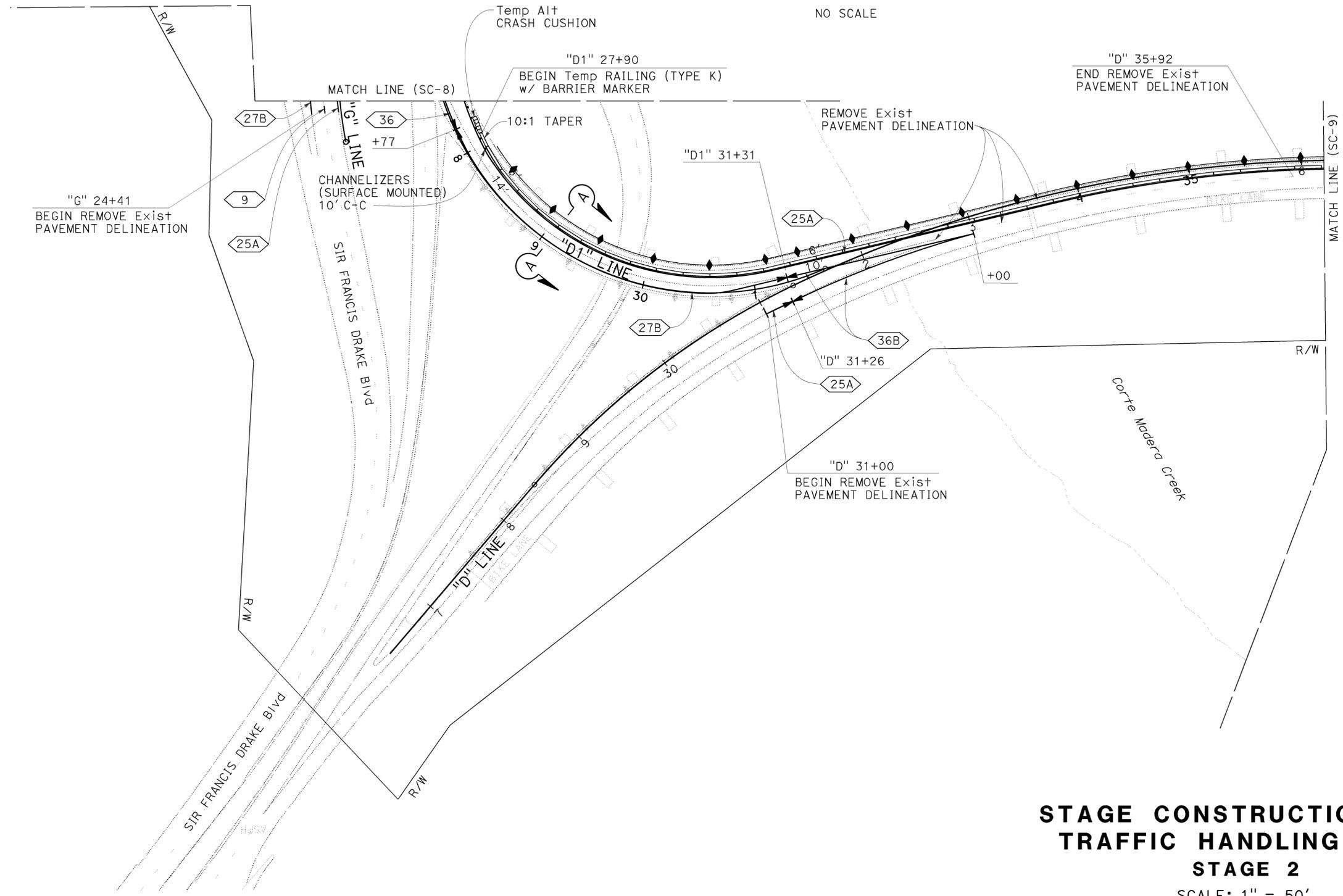
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	36	149

REGISTERED CIVIL ENGINEER: Trinh T. Lai
 No. 63630
 Exp. 9-30-16
 CIVIL
 DATE: 4-13-15
 PLANS APPROVAL DATE: 4-27-15

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.



SECTION A-A
CORTE MADERA CREEK SB ON-RAMP
 NO SCALE



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

FOR NOTE AND LEGEND, SEE SHEET SC-1

SC-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mirn	101	1.5/14.0	37	149

Esmail Nemat
 REGISTERED CIVIL ENGINEER DATE 4-15-15
 4-27-15
 PLANS APPROVAL DATE

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TEMPORARY RAILING (TYPE K)

SHEET No.	STAGE CONSTRUCTION	STATION LIMITS	TEMPORARY RAILING (TYPE K)
			LF
SC-1	STAGE 1	Lt "S8" 3+40 TO 7+43	400
SC-2	STAGE 1	Rt "D3L" 102+26 TO 105+20	280
SC-2	STAGE 1	Lt "D3R" 104+00 TO 105+71	180
SC-3	STAGE 1	Lt "G2" 27+35 TO Lt "G1" 32+89	560
SC-3	STAGE 1	Lt "G" 25+55 TO 32+89	780
SC-3, SC-4	STAGE 1	Lt "C" 124+93 TO 139+03	1600
SC-5	STAGE 1	Lt "D1" 27+85 TO 31+30	340
SC-5	STAGE 1	Rt "D" 27+20 TO 31+40	420
SC-6	STAGE 1	Rt "CN" 864+21 TO 867+52	340
SC-6	STAGE 1	Lt "CS" 863+28 TO 866+52	340
SC-7	STAGE 2	Rt "S8" 3+25 TO 7+62	440
SC-8, SC-9	STAGE 2	Lt "G" 25+70 TO 38+68	1300
SC-9	STAGE 2	Rt "C" 137+02 TO 138+51	160
SC-9, SC-10	STAGE 2	Lt "D1" 27+90 TO Rt "D" 38+31	1020
TOTAL			8160

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	STAGE CONSTRUCTION	STATION LIMITS	EA
SC-1	STAGE 1	Lt "S8" 2+94 TO 3+68	8
SC-1	STAGE 1	Lt "S8" 7+17 TO 9+97	9
SC-2	STAGE 1	Rt "D3L" 101+10 TO 102+52	8
SC-2	STAGE 1	Lt "D3R" 105+46 TO 106+18	6
SC-3	STAGE 1	Lt "G1" 32+86 TO 33+85	6
SC-3	STAGE 1	Lt "G" 32+82 TO 34+05	7
SC-3, SC-5	STAGE 1	Rt "D1" 27+38 TO Lt "D1" 27+99	7
SC-4	STAGE 1	Lt "C" 138+59 TO 140+00	8
SC-5	STAGE 1	Rt "D" 26+59 TO 27+30	8
SC-6	STAGE 1	Rt "CN" 862+76 TO 864+16	8
SC-6	STAGE 1	Lt "CS" 866+22 TO 867+82	9
SC-7	STAGE 2	Rt "S8" 2+92 TO 3+39	6
SC-7	STAGE 2	Rt "S8" 7+42 TO 8+01	7
SC-8, SC-10	STAGE 2	Lt "D1" 27+30 TO 28+05	8
SC-9	STAGE 2	Lt "G" 38+53 TO Rt "G" 39+33	5
SC-9	STAGE 2	Rt "C" 135+98 TO 137+18	7
TOTAL			117

TEMPORARY ALTERNATIVE CRASH CUSHION

SHEET No.	STAGE CONSTRUCTION	STATION	EA
SC-1	STAGE 1	Lt "S8" 3+40	1
SC-1	STAGE 1	Lt "S8" 7+43	1
SC-2	STAGE 1	Rt "D3L" 102+26	1
SC-2	STAGE 1	Lt "D3R" 105+71	1
SC-3	STAGE 1	Rt "G1" 32+89	1
SC-3	STAGE 1	Lt "G" 32+89	1
SC-4	STAGE 1	Lt "C" 139+03	1
SC-5	STAGE 1	Lt "D1" 27+85	1
SC-5	STAGE 1	Rt "D" 27+20	1
SC-6	STAGE 1	Rt "CN" 864+21	1
SC-6	STAGE 1	Lt "CS" 866+52	1
SC-7	STAGE 2	Rt "S8" 3+25	1
SC-7	STAGE 2	Rt "S8" 7+62	1
SC-9	STAGE 2	Lt "G" 38+68	1
SC-9	STAGE 2	Rt "C" 137+02	1
SC-10	STAGE 2	Lt "D1" 27+90	1
TOTAL			16

STAGE CONSTRUCTION QUANTITIES

SCQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CALCULATED/DESIGNED BY: ANNA URETA
 CHECKED BY: TRINH T. LAI
 REVISED BY: AU
 DATE REVISED: 4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	38	149

Angela 4-14-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

Anna G. Ureta
 No. 67663
 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.

TEMPORARY PAVEMENT DELINEATION QUANTITIES

SHEET No.	STAGE CONSTRUCTION	STATION LIMITS	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)					PAVEMENT MARKER		REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER		
				4" WHITE	4" WHITE (BROKEN 17-7)	4" WHITE (BROKEN 18-12)	8" WHITE	4" YELLOW	RETROREFLECTIVE					
				LF					EA				LF	EA
SC-1	STAGE 1	R+ "S8" 2+80 TO 8+00	21					520				1040		
SC-1, SC-2	STAGE 1	R+ "CS" 209+95 TO 218+45	12			2550				54		648	54	
		R+ "CS" 209+95 TO 218+45	27B	850								850		
		R+ "CS" 209+95 TO 218+45	25						850		19		850	19
SC-3, SC-4	STAGE 1	L+ "C" 122+88 TO 140+21	25					1733			37	1733	37	
		L+ "C" 122+88 TO 140+21	12			5200						1296	109	
		L+ "C" 122+88 TO 140+21	27B	1733									1733	
		L+ "G" 25+03 TO 32+89	27B	786									786	
		L+ "G" 25+03 TO 25+69	25A						66		4		66	4
		L+ "G2" 27+35 TO L+ "G1" 32+89	25A						554		24		554	24
		L+ "G" 32+89 TO 35+59	36										1080	24
		L+ "G" 25+03 TO 35+59	9			1056					23		308	23
		L+ "D1" 26+61 TO 27+12	38A						51				102	
		L+ "D1" 27+12 TO 27+38	36						26		2		52	2
SC-3, SC-5	STAGE 1	L+ "D1" 27+12 TO 27+85	36					73		4		146	4	
		L+ "D" 25+98 TO 28+72	27B	274								274		
		L+ "D1" 27+85 TO 31+30	27B	345								345		
		L+ "D" 25+98 TO 28+72	25A						274		12		274	12
SC-6	STAGE 1	R+ "CN" 860+70 TO 870+10	12			3760				84		960	84	
		L+ "CS" 860+85 TO 869+50	12			2595				57		648	57	
		L+ "CN" 860+70 TO 870+10	25						940		20		940	20
		R+ "CS" 860+85 TO 869+50	25						865		19		865	19
		L+ "CS" 863+28 TO 869+50	27B	622									622	
SC-7	STAGE 2	R+ "CN" 860+70 TO 870+10	27B	940								940		
		R+ "S8" 2+80 TO 8+00	21						520				1040	
SC-8, SC-9 SC-10	STAGE 2	L+ "G" 24+41 TO 39+60	9			1519				32		448	32	
		R+ "D1" 27+77 TO 31+31	27B	354								354		
		L+ "G" 24+41 TO 32+90	27B	849									849	
		R+ "D" 31+00 TO 31+26	25A						26		2		26	2
		L+ "G" 24+41 TO 39+60	25A						1519		64		1519	64
		R+ "D1" 27+11 TO Rt "D" 38+31	25A						1120		47		1120	47
		L+ "G" 32+90 TO 35+59	36						269		12		538	12
		R+ "D" 31+26 TO 33+00	36B						348		8		696	8
L+ "D1" 27+11 TO 27+77	36						66		4		132	4		
SUBTOTAL				6753	2575	14105	1373	8987	413	248	23834	661		
TOTAL						33793				661	23834	661		

STAGE CONSTRUCTION QUANTITIES

SCQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CALCULATED/DESIGNED BY: ANNA URETA
 CHECKED BY: TRINH LAI
 REVISED BY: AU
 DATE REVISED: 4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

 4-14-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 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.



REMOVE PAVEMENT DELINEATION

SHEET No.	STAGE Const	STATION LIMITS	DETAIL No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)		REMOVE THERMOPLASTIC TRAFFIC STRIPE		REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE PAVEMENT MARKER											
				LF		4" WHITE	8" WHITE		SQFT	EA	TYPE A	TYPE G	TYPE H							
SC-1	STAGE 1	"S8" 2+80 TO 8+00	21	1040																
SC-1, SC-2	STAGE 1	"D3L" 99+50 TO 107+80	13M			714			204	54										
		"D3L" 99+50 TO 107+80	27B				830													
SC-3	STAGE 1	"D3L" 99+50 TO 107+80	25			830												18		
		"G" 25+03 TO 32+56	27B					753											4	
		"G" 25+03 TO 25+69	25A						66											
		"G2" 27+42 TO 27+74	8						14											
		"G1" 27+92 TO 28+68	38A																	23
		"G2" 27+35 TO "G1" 32+55	25A																	
		"G1" 28+68 TO 32+55	9																	
SC-3, SC-4	STAGE 1	"FL" 26+90	TYPE II (L) ARROW						45											
		"D1" 26+30	TYPE II (L) ARROW							45										
		"C" 122+88 TO 140+21	25																37	
		"C" 122+88 TO 140+21	13M							1512										
		"C" 122+88 TO 139+77	27B							1689										
SC-3, SC-5	STAGE 1	"C" 139+77 TO 140+21	36																	
		"G" 25+03 TO 35+59	9																	
		"G" 32+56 TO 34+69	36							308										
		"D1" 26+61 TO 27+76	38																	
SC-5	STAGE 1	"D1" 27+38 TO 28+10	36																	
		"D1" 27+60 TO 28+00	TYPE VI ARROW																	
		"D1" 28+10 TO 31+30	27B							320										
		"D" 25+98 TO 26+55	36																	
SC-6	STAGE 1	"D" 26+55 TO 28+72	25A																	
		"D" 25+98 TO 28+72	27B																	
		"CN" 860+70 TO 870+10	13M																	
		"CN" 860+70 TO 870+10	25																	
		"CN" 860+70 TO 870+10	27B																	
SC-8, SC-9	STAGE 2	"CS" 860+85 TO 869+50	13M																	
		"CS" 860+85 TO 869+50	25																	
		"CS" 860+85 TO 869+50	25																	
		"CS" 863+28 TO 869+50	27B																	
SC-8, SC-10	STAGE 2	"G" 25+69 TO 39+60	25A																	
		"G" 24+41 TO 25+03	9																	
		"G" 24+41 TO 25+03	25A																	
SC-8, SC-9, SC-10	STAGE 2	"G" 24+41 TO 25+03	27B																	
		"D1" 27+11 TO "D" 37+70	25A																	
SC-9	STAGE 2	"G" 35+59 TO 37+92	9																	
		"G" 37+92 TO 39+60	13M																	
		"D" 37+70 TO 38+31	36A																	
SC-10	STAGE 2	"D1" 31+30 TO "D" 32+65	27B																	
		"D" 31+00 TO 31+26	25A																	
		"D" 31+26 TO 32+82	36B																	
SC-10	STAGE 2	"D" 32+82 TO 35+92	9M																	
SUBTOTAL																				
TOTAL FROM SCQ-2																				
GRAND TOTAL																				

STAGE CONSTRUCTION QUANTITIES

SCQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION


LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	40	149

REGISTERED CIVIL ENGINEER	DATE
<i>Trinh T. Lai</i>	4-13-15
No. 63630	
Exp. 9-30-16	
CIVIL	

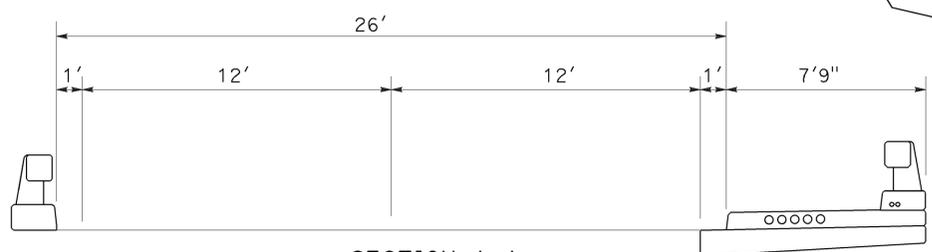
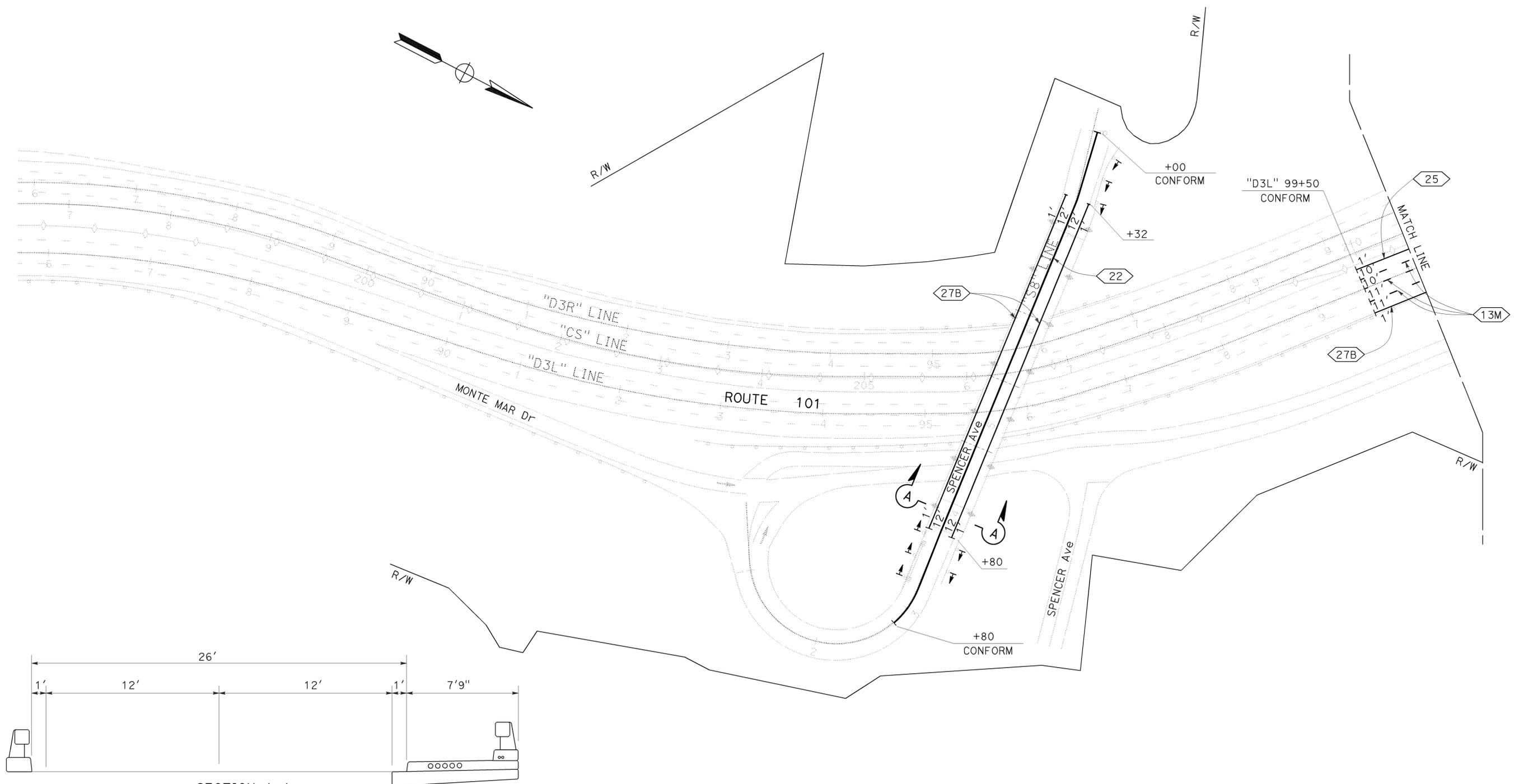
PLANS APPROVAL DATE	DATE
	4-27-15

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.

LEGEND:

-  CHANGE OF PAVEMENT DELINEATION DETAIL
-  DELINEATOR (CLASS 1)



SECTION A-A
SPENCER Ave OC
NO SCALE

PAVEMENT DELINEATION PLAN
SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	JAIMIE GUTIERREZ
CALCULATED/DESIGNED BY	CHECKED BY
TRINH LAI	RODRIGO PUENTE
REVISOR	DATE
TL	4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015
04-24-15 TIME PLOTTED => 16:52

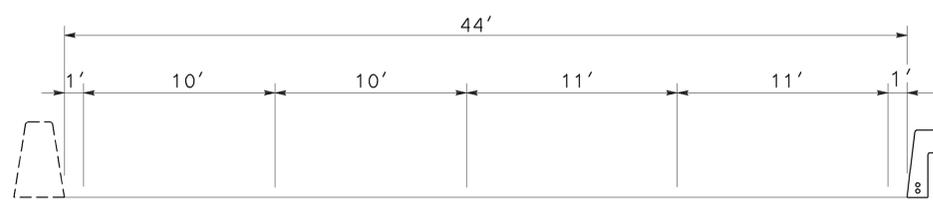
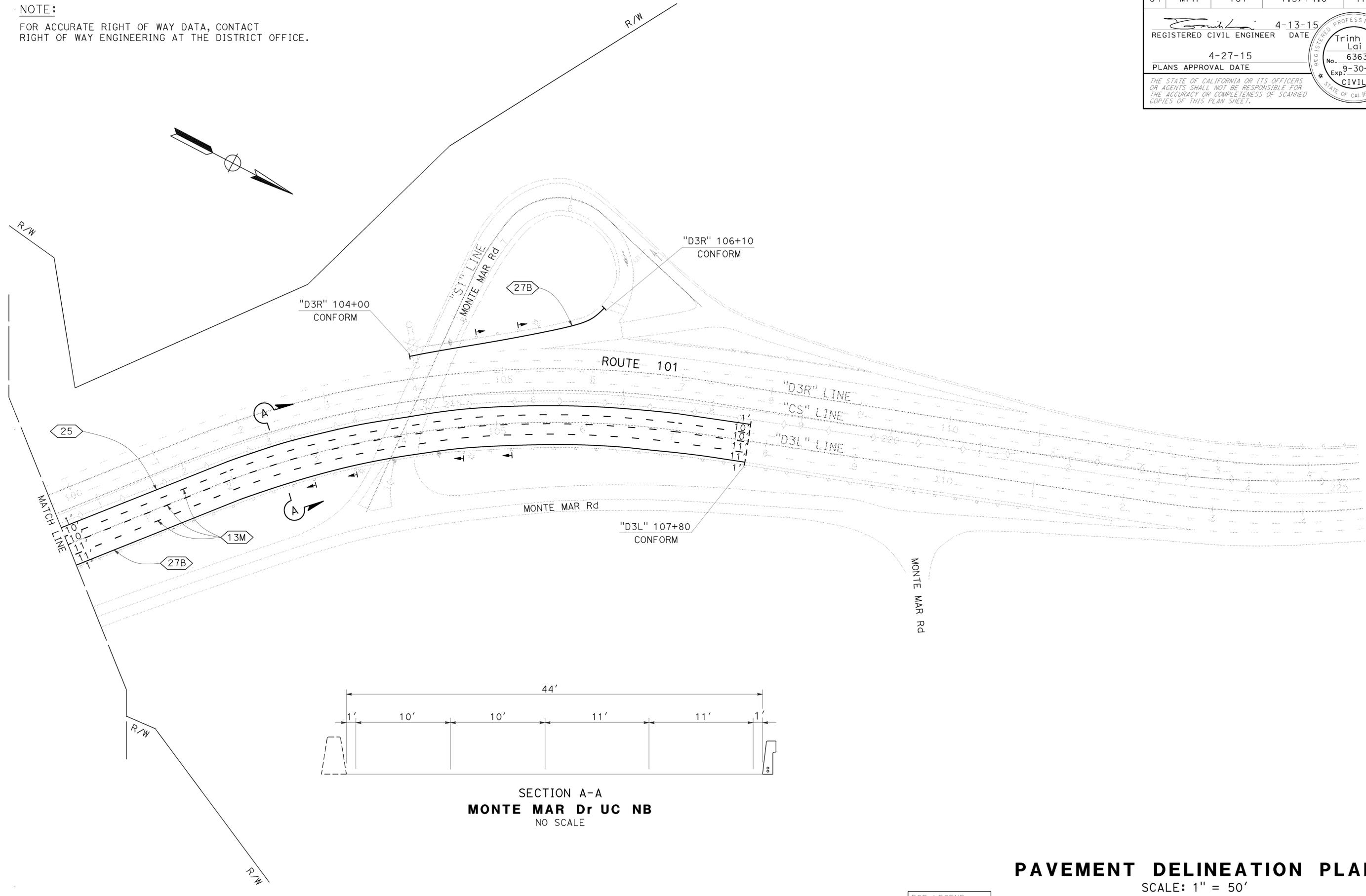
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	41	149

REGISTERED CIVIL ENGINEER		DATE
Trinh T. Lai		4-13-15
No. 63630		
Exp. 9-30-16		
CIVIL		

PLANS APPROVAL DATE: 4-27-15

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.



SECTION A-A
MONTE MAR Dr UC NB
NO SCALE

PAVEMENT DELINEATION PLAN
SCALE: 1" = 50'

PD-2

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

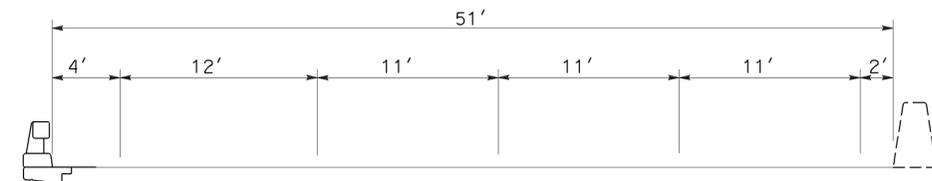
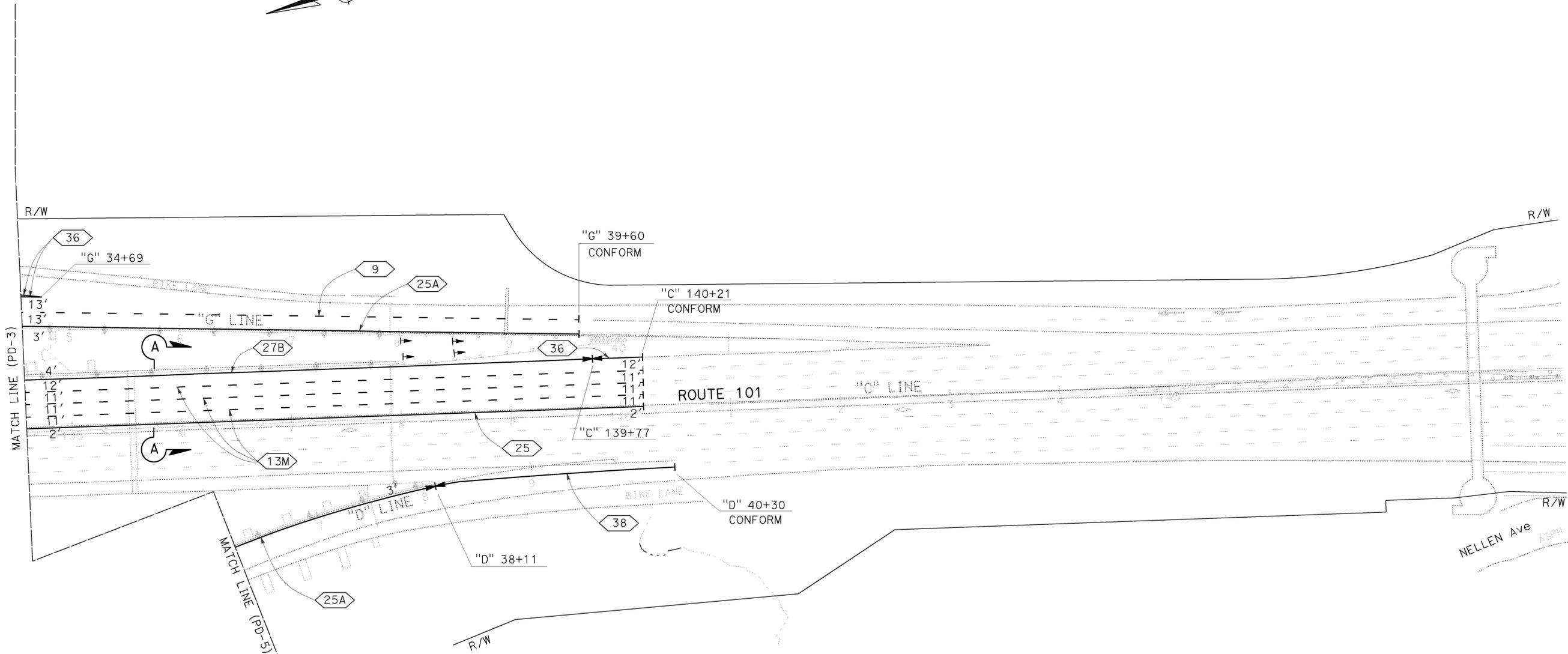
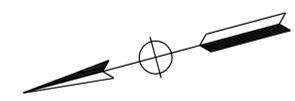
FOR LEGEND,
SEE SHEET PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	JAIMIE GUTIERREZ
CALCULATED/DESIGNED BY	CHECKED BY
TRINH LAI	RODRIGO PUENTE
REVISOR	DATE
TL	4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015
04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	43	149
			4-13-15		
REGISTERED CIVIL ENGINEER			DATE		
			4-27-15		
PLANS APPROVAL DATE					
<small>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.</small>					

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



SECTION A-A
CORTE MADERA CREEK NB MAINLINE
NO SCALE

PAVEMENT DELINEATION PLAN
SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR LEGEND,
SEE SHEET PD-1

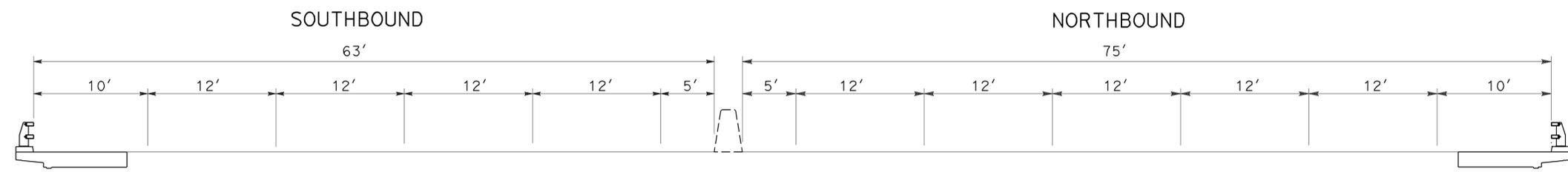
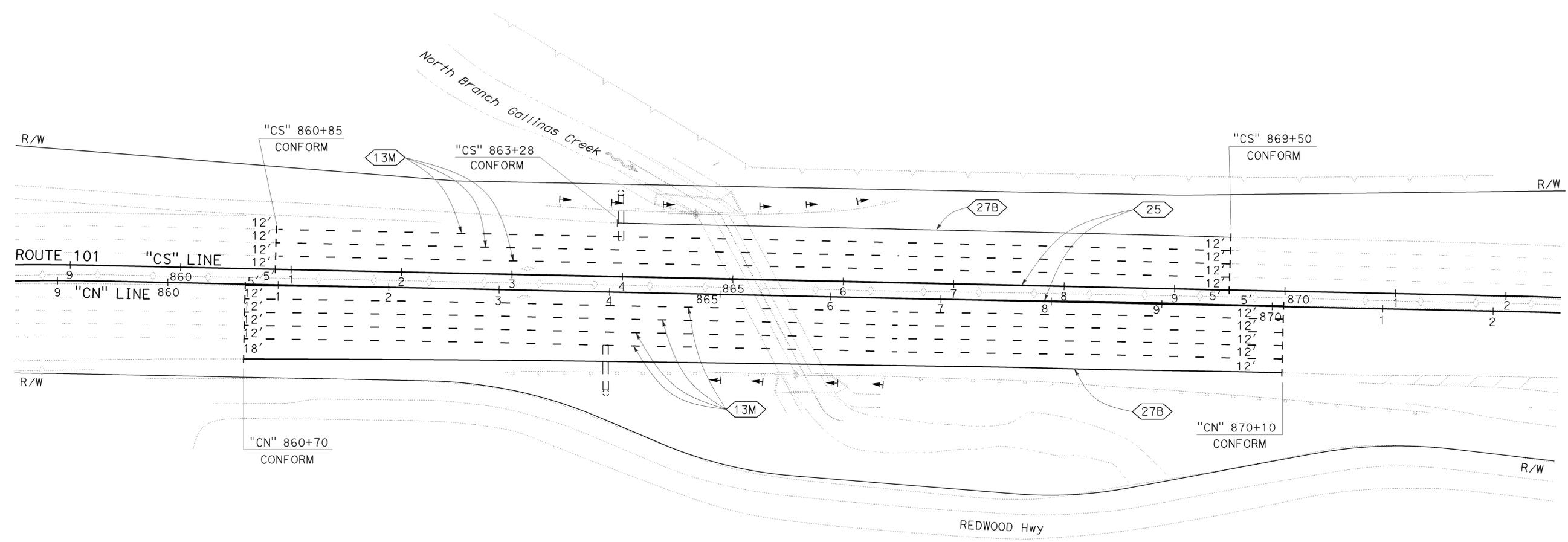
PD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN
FUNCTIONAL SUPERVISOR	JAIMIE GUTIERREZ
CALCULATED/DESIGNED BY	CHECKED BY
TRINH LAI	RODRIGO PUENTE
REVISOR	DATE
TL	4/24/15

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 | TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	45	149
			4-13-15	DATE	
REGISTERED CIVIL ENGINEER			Trinh T. Lai		
PLANS APPROVAL DATE			4-27-15		
			No. 63630	Exp. 9-30-16	
			CIVIL		
<small>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.</small>					

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



NORTH BRANCH GALLINAS CREEK

PAVEMENT DELINEATION PLAN
SCALE: 1" = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR LEGEND,
SEE SHEET PD-1

PD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
CALCULATED/DESIGNED BY: CHECKED BY:
TRINH LAI
RODRIGO PUENTE
REVISOR: TL
DATE: 4/24/15

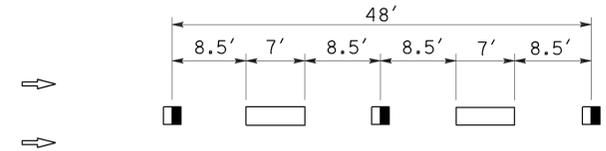
LAST REVISION | DATE PLOTTED => 20-MAY-2015
04-24-15 TIME PLOTTED => 16:52

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	46	149

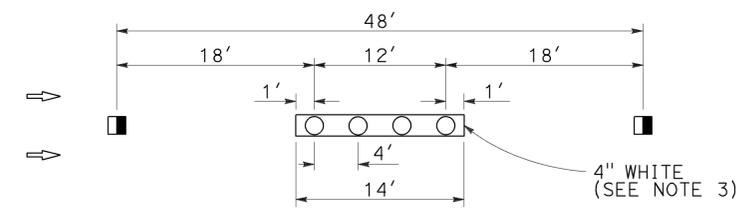
Anna G. Ureta 4-14-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE



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.



DETAIL 9M



DETAIL 13M

NOTES:

1. DETAILS 9M AND 13M ARE MODIFIED PAVEMENT DELINEATION NUMBER 9 AND 13, RESPECTIVELY.
2. FOR DETAILS NOT SHOWN, SEE S+D PLAN A20A.
3. INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.

PAVEMENT DELINEATION DETAILS
 NO SCALE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	47	149

Rodrigo Puente 4-14-15
REGISTERED CIVIL ENGINEER DATE

4-27-15
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.

DELINEATOR (CLASS 1)

SHEET No.	TYPE F
	EA
PD-1	8
PD-2	6
PD-3	3
PD-4	4
PD-6	10
TOTAL	31

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

SHEET No.	STATION LIMITS OR LOCATION	DETAIL No. OR PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING	PAVEMENT MARKER				
			4"		4" WHITE	4" WHITE	4" WHITE		8"	NON-REFLECTIVE	RETROREFLECTIVE		
			YELLOW	WHITE	(BROKEN 17-14)	(BROKEN 17-7)	(BROKEN 8.5-7)		WHITE	TYPE A	TYPE D	TYPE G	TYPE H
			LF					SQFT	EA				
PD-1	Lt "S8" 3+80 TO 7+32	27B		352									
PD-1	"S8" 2+80 TO 8+00	22	1040							46			
PD-1	Rt "S8" 3+80 TO 7+32	27B		352									
PD-1 AND PD-2	Lt "D3L" 99+50 TO 107+80	25	841										18
PD-1 AND PD-2	"D3L" 99+50 TO 107+80	13M			2490					216		54	
PD-1 AND PD-2	Rt "D3L" 99+50 TO 107+80	27B		817									
PD-2	Lt "D3R" 104+00 TO 106+10	27B		225									
PD-3	Rt "G2" 27+35 TO "G1" 32+55	25A	520										22
PD-3	Lt "G1" 27+92 TO 28+68	38A					75						
PD-3	Lt "G2" 27+42 TO 27+93	8			50								
PD-3	Lt "G1" 28+68 TO 32+55	9			387							9	
PD-3 AND PD-4	Lt "G1" 32+55 TO 34+69	36					220					10	
PD-3 AND PD-4	Lt "C" 122+88 TO 139+77	27B		1678									
PD-3 AND PD-4	Rt "C" 122+88 TO 140+21	13M			5130					432		108	
PD-3 AND PD-4	Rt "C" 122+88 TO 140+21	25	1714										37
PD-4	Lt "C" 139+77 TO 140+21	36					44					3	
PD-4 AND PD-5	Lt "G" 24+41 TO 32+56	27B		867									
PD-3 AND PD-4	Lt "G" 32+56 TO 34+69	36					219					10	
PD-3 TO PD-5	Lt "G" 24+41 TO 39+60	9			1550							33	
PD-3 TO PD-5	"G" 24+41 TO 39+60	25A	1524										64
PD-3 TO PD-5	Lt "D1" 26+61 TO 27+73	38					110					5	
PD-3 TO PD-5	Lt "D1" 27+11 TO Rt "D" 38+11	25A	1066										45
PD-4	Rt "D" 38+11 TO 40+30	38					23					2	
PD-3 AND PD-5	Rt "D1" 27+38 TO 27+76	36					38					2	
PD-5	"D1" 27+76 TO 31+26	27B		350									
PD-5	Rt "D" 25+98 TO 28+72	27B		273									
PD-5	Rt "D" 25+98 TO 26+28	36					30					2	
PD-5	Rt "D" 26+28 TO 28+72	25A	245										11
PD-5	Rt "D" 31+00 TO 31+26	25A	23										2
PD-5	Rt "D" 31+26 TO 32+85	36B					322					16	
PD-5	Rt "D" 32+85 TO 35+92	9M										14	
PD-6	Lt "CS" 863+28 TO 869+50	27B		622									
PD-6	Lt "CS" 860+85 TO 869+50	13M			2595					228		57	
PD-6	"CS" 860+85 TO 869+50	25	880										19
PD-6	"CN" 860+70 TO 870+10	25	940										21
PD-6	Rt "CN" 860+70 TO 870+10	13M			3760					320		80	
PD-6	Rt "CN" 860+70 TO 870+10	27B		940									
PD-3	Lt "FL" 23+50 TO 26+90						90						
PD-3 AND PD-5	"D1" 27+38 TO 28+00	TYPE VI ARROW					84						
SUBTOTAL			8793	6476	13975	1987	303	1081	174	1196	46	405	239
TOTAL			15269		13975	1987	303	1081	174	1196	690		

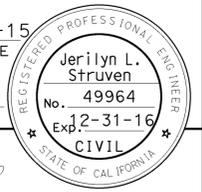
PAVEMENT DELINEATION QUANTITIES

PDQ-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	48	149

<i>Jerilyn L. Struven</i>		4-14-15
REGISTERED CIVIL ENGINEER	DATE	
4-27-15		
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.



NOTES:

- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- SIGN POST LENGTH ARE APPROXIMATE. EXACT SIZE AND LENGTH TO BE DETERMINED BY THE ENGINEER.

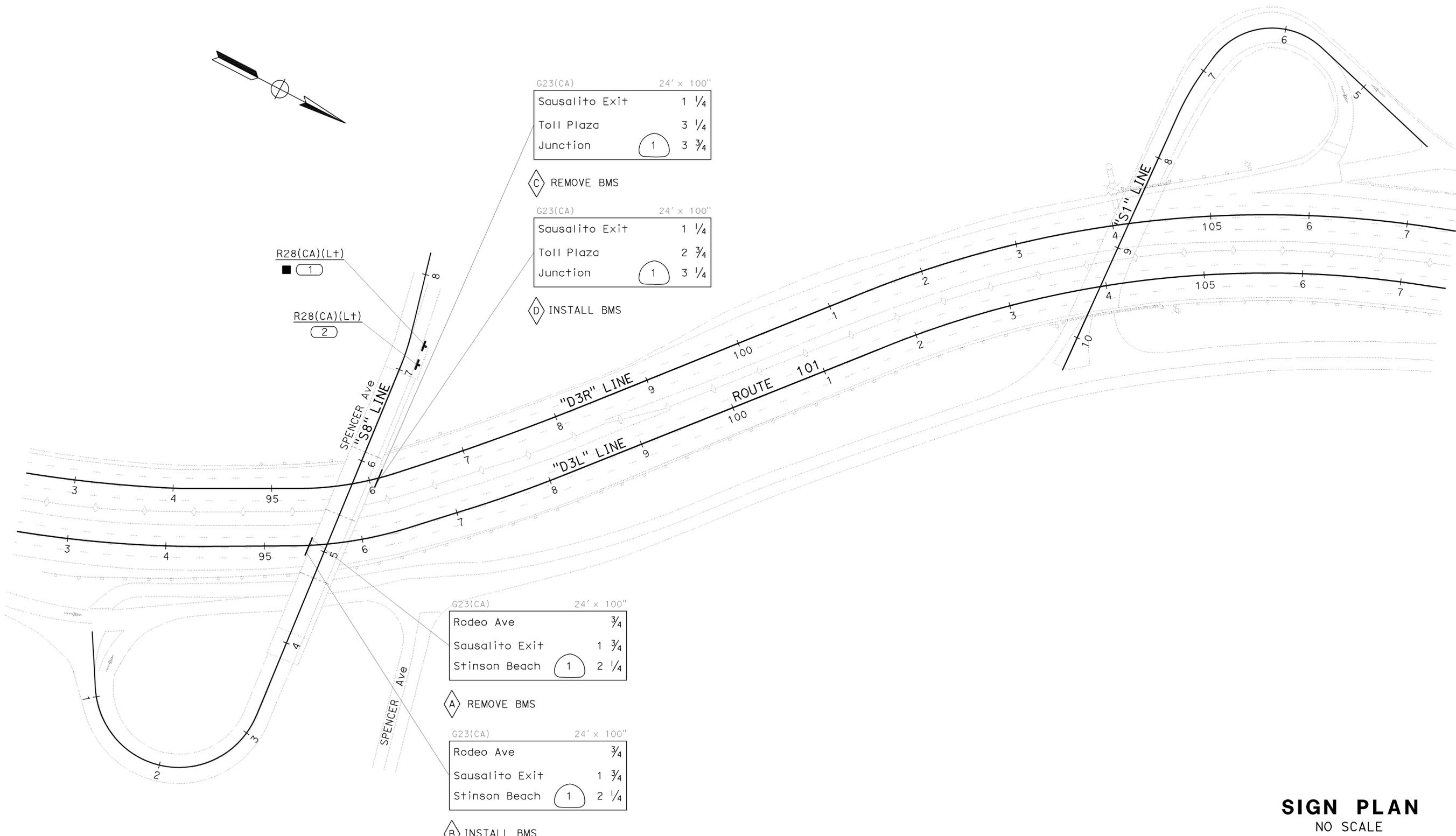
LEGEND:

- REMOVE ROADSIDE SIGN
- ROADSIDE SIGN NUMBER
- ◇ OVERHEAD SIGN LETTER

ABBREVIATIONS:

- BMS-BRIDGE MOUNTED SIGN
- RMS-RAIL MOUNTED SIGN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 HENRY TAM
 REVISOR: JERILYN STRUVEN
 HM
 DATE: 4/24/15



G23(CA) 24' x 100"

Sausalito Exit	1 1/4
Toll Plaza	3 1/4
Junction	3 3/4

G23(CA) 24' x 100"

Sausalito Exit	1 1/4
Toll Plaza	2 3/4
Junction	3 1/4

G23(CA) 24' x 100"

Rodeo Ave	3/4
Sausalito Exit	1 3/4
Stinson Beach	2 1/4

G23(CA) 24' x 100"

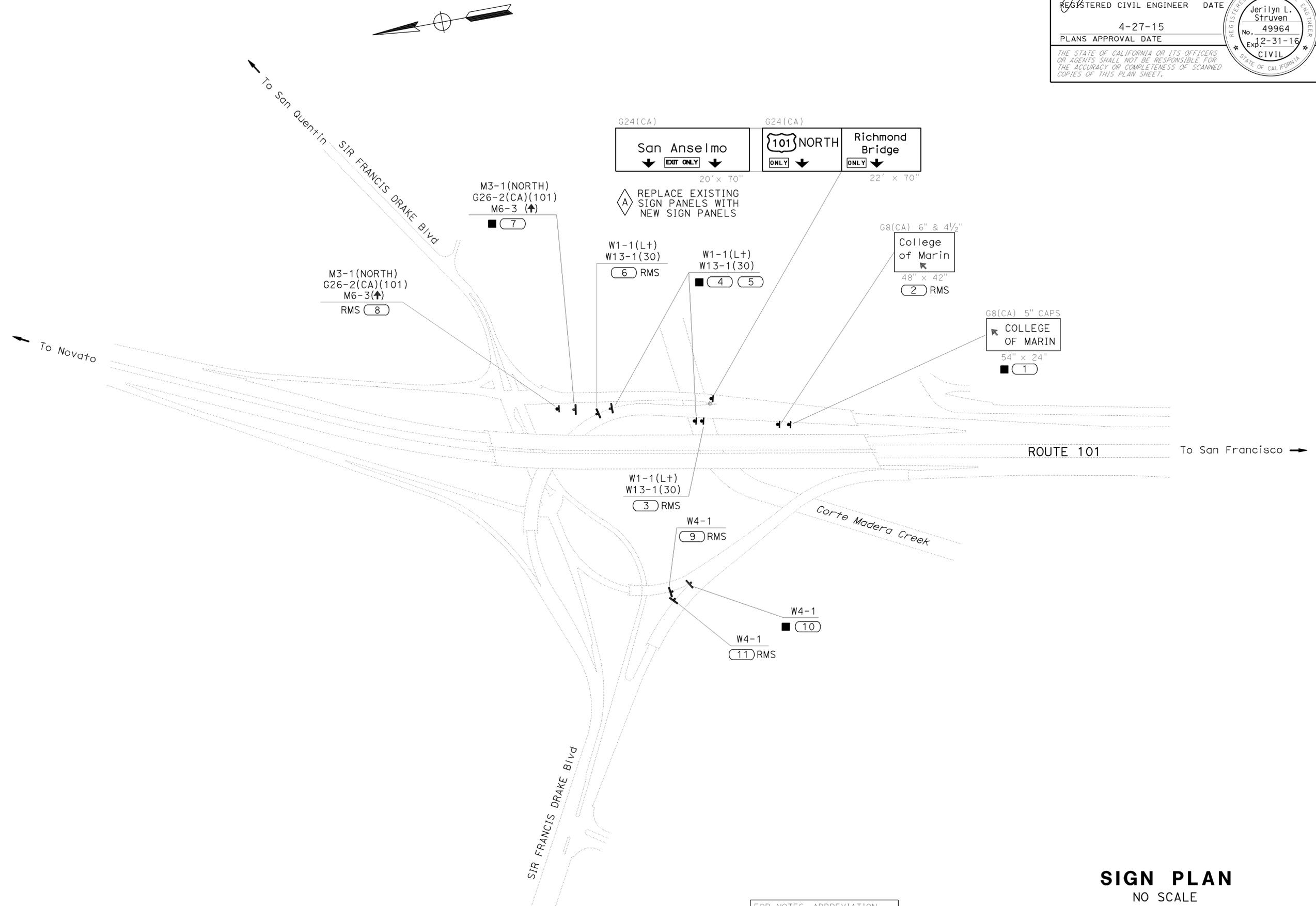
Rodeo Ave	3/4
Sausalito Exit	1 3/4
Stinson Beach	2 1/4

SIGN PLAN
NO SCALE

APPROVED FOR SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	HENRY TAM	REVISOR	HM
Caltrans	ROLAND AU-YEUNG	CHECKED BY	JERILYN STRUVEN	DATE	4/24/15
TRAFFIC					

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	49	149
<i>Jerilyn L. Struven</i> REGISTERED CIVIL ENGINEER			4-14-15	DATE	
PLANS APPROVAL DATE			4-27-15		
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.					
REGISTERED PROFESSIONAL ENGINEER No. 49964 Exp. 12-31-16 CIVIL STATE OF CALIFORNIA					



APPROVED FOR SIGN WORK ONLY

SIGN PLAN
NO SCALE

S-2

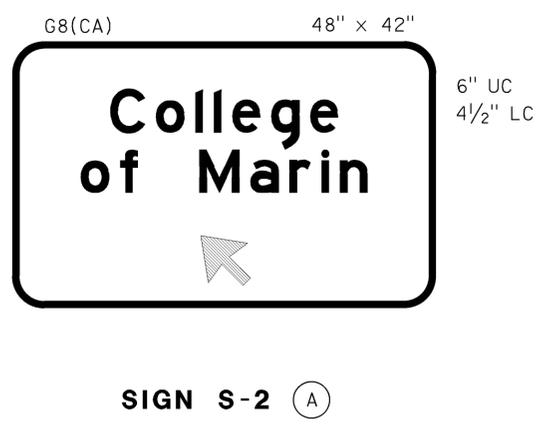
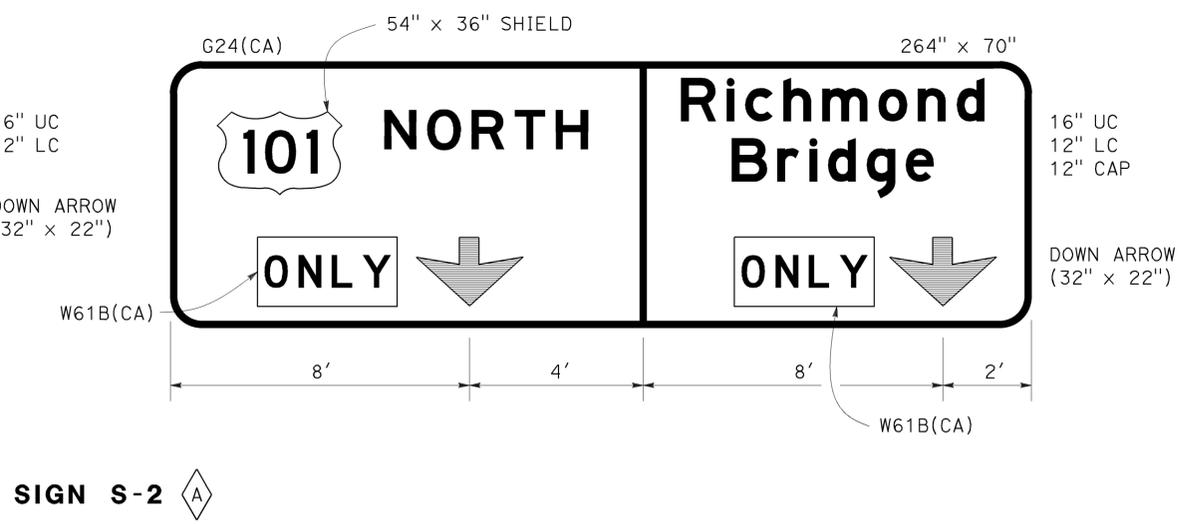
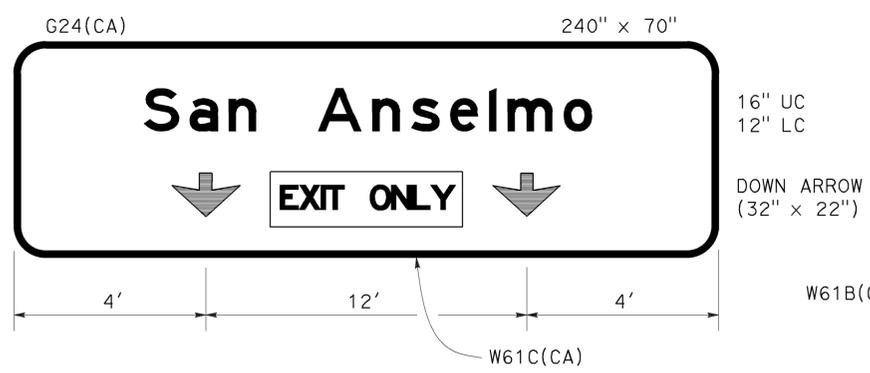
LAST REVISION: DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	50	149

<i>J. L. Struven</i>	4-14-15
REGISTERED CIVIL ENGINEER	DATE
4-27-15	
PLANS APPROVAL DATE	

Jerilyn L. Struven
No. 49964
Exp. 12-31-16
CIVIL

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 DETAILS
NO SCALE

SD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED/DESIGNED BY: HENRY TAM
CHECKED BY: JERILYN STRUVEN
REVISOR: HT
DATE REVISED: 4/24/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	51	149

J. L. Struven 4-14-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-16
 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.

ROADSIDE SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE	POST LENGTH	ROADSIDE SIGN ONE POST	REMOVE ROADSIDE SIGN	METAL (RAIL MOUNTED SIGN)	REMARKS	
			INCHES	4" x 4" ft	EA	LB			
S-1	1	R28(CA)(←)				1			
	2	R28(CA)(←)	12 x 18	12	1				
S-2	1	G8(CA)				1			
	2	G8(CA)	48 x 42				177	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS	
	3	W1-1(L+)	36 x 36					193	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS
		W13-1(30)	30 x 30						
	4	W1-1(L+)				1			
		W13-1(30)							
	5	W1-1(L+)				1			
		W13-1(30)							
	6	W1-1(L+)	36 x 36					193	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS
		W13-1(30)	30 x 30						
	7	M3-1(NORTH)					1		
G26-2(CA)(101)									
M6-3(↑)									
8	G26-2(CA)(101)	28 x 24					168	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS	
	M3-1(NORTH)	24 x 12							
	M6-3(↑)	21 x 15							
9	W4-1	48 x 48					201	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS	
10	W4-1				1				
11	W4-1	48 x 48					201	RAIL MOUNTED SIGN, SEE STRUCTURE PLANS	
TOTAL					1	6	1133		

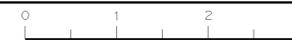
OVERHEAD SIGN QUANTITIES

SHEET No.	SIGN No.	SIGN CODE	PANEL SIZE	SIGN AREA	FURNISH SIGN STRUCTURE (BRIDGE MOUNTED WITHOUT WALKWAY)	INSTALL SIGN STRUCTURE (BRIDGE MOUNTED WITHOUT WALKWAY)	REMOVE BRIDGE MOUNTED SIGN	INSTALL SIGN PANEL ON EXISTING FRAME	REMARKS
			INCHES	SQFT	LB	EA	SQFT		
S-1	A						1		
	B	G23(CA)	288 x 100	200	2736	2736			SEE STRUCTURE PLANS
	C						1		
	D	G23(CA)	288 x 100	200	2891	2891			SEE STRUCTURE PLANS
S-2	A	G24(CA)	240 x 70	117				117	
		G24(CA)	264 x 70	129				129	
TOTAL					5627	5627	2	246	

SIGN QUANTITIES

SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
 HENRY TAM
 JERILYN STRUVEN
 CALCULATED/DESIGNED BY: HENRY TAM
 CHECKED BY: JERILYN STRUVEN
 REVISIONS BY: HT
 DATE REVISED: 4/24/15



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	52	149

J. L. Struven 4-14-15
 REGISTERED CIVIL ENGINEER DATE
 4-27-15
 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 PANEL SUMMARY

SHEET No.	SIGN DESIGNATIONS	SIGN CODE	SIGN SIZE	SIGN AREA	SINGLE FACED	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN		FURNISH LAMINATED PANEL SIGN (1"-TYPE A)	FURNISH FORMED PANEL SIGN (OVERHEAD)
						SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	0.063" UNFRAMED	0.080" UNFRAMED		
											SQFT			
S-1	2	R28(CA)(←)	1.0 x 1.5	1.5	✓	WHITE	IV	RED	IV	✓	1.5			
	B	G23(CA)	24.0 x 8.3	200.0	✓	GREEN	XI	WHITE	XI	✓			200	
	D	G23(CA)	24.0 x 8.3	200.0	✓	GREEN	XI	WHITE	XI	✓			200	
S-2	2	G8(CA)	4.0 x 3.5	14.0	✓	GREEN	XI	WHITE	XI	✓		14		
	3	W1-1(L+)	3.0 x 3.0	9.0	✓	YELLOW	XI	BLACK	PLAIN	✓	9.0			
		W13-1(30)	2.5 x 2.5	6.3	✓	YELLOW	XI	BLACK	PLAIN	✓	6.3			
	6	W1-1(L+)	3.0 x 3.0	9.0	✓	YELLOW	XI	BLACK	PLAIN	✓	9.0			
		W13-1(30)	2.5 x 2.5	6.3	✓	YELLOW	XI	BLACK	PLAIN	✓	6.3			
	8	G26-2(CA)(101)	2.4 x 2.0	4.8	✓	WHITE	XI	BLACK	PLAIN	✓	4.8			
		M3-1(NORTH)	2.0 x 1.0	2.0	✓	WHITE	XI	BLACK	PLAIN	✓	2.0			
		M6-3(↑)	1.8 x 1.3	2.4	✓	WHITE	XI	BLACK	PLAIN	✓	2.4			
	9	W4-1	4.0 x 4.0	16.0	✓	YELLOW	XI	BLACK	PLAIN	✓		16		
	11	W4-1	4.0 x 4.0	16.0	✓	YELLOW	XI	BLACK	PLAIN	✓		16		
	A	G24(CA)	20.0 x 5.83	117.0	✓	GREEN	XI	WHITE	XI	✓				117
G24(CA)		22.0 x 5.83	129.0	✓	GREEN	XI	WHITE	XI	✓				129	
TOTAL											41.3	46	400	246

SIGN QUANTITIES (CONTRACTOR FURNISHED SIGNS)

SQ-2



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	53	149

Rodrigo Puente 4-14-15
REGISTERED CIVIL ENGINEER DATE

4-27-15
PLANS APPROVAL DATE

Rodrigo Puente
No. 58612
Exp. 12-31-16
CIVIL

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.

**PLACE HOT MIX ASPHALT DIKE
(TYPE C)**

SHEET No.	STATION LIMITS	LF
L-1	L+ "S8" 3+69 TO 3+84	15
L-3	L+ "C" 124+86 TO 126+13	125
TOTAL		140

TEMPORARY FENCE (TYPE ESA)

SHEET No.	STATION LIMITS	LF
L-1	R+ "CS" 204+18 TO 205+75	499
L-4	L+ "C" 134+91 TO 137+11	493
TOTAL		992

ROADWAY QUANTITIES

SHEET No.	STATION LIMITS	HOT MIX ASPHALT (TYPE A)	TACK COAT	ASPHALT BINDER (GEOSYNTHETIC PAVEMENT INTERLAYER)	GEOSYNTHETIC PAVEMENT INTERLAYER (PAVING GRID)	ROADWAY EXCAVATION	IMPORTED BORROW	COLD PLANE AC PAVEMENT (0.2' Max)	REMOVE ASPHALT CONCRETE DIKE
		TON			SQYD	CY		SQYD	LF
L-1	L+ "S8" 3+69 TO 3+84	2.22				3.33			15
L-1	R+ "S8" 6+97.6 TO 7+19.1	3.21				9.32			
L-1	R+ "S8" 7+19.1 TO 7+31.65	1.87				6.32			
L-2	R+ "D3L" 104+09.1 TO 104+55.4	15.70	0.029			31.97			
L-3	L+ "C" 124+86 TO 126+13	18.96	0.061				4.7	133.78	125
L-3	L+ "C" 126+09.8 TO 126+24.8	5.07	0.002			7.93			
L-3	L+ "G" 25+70.2 TO 26+03.2	16.36	0.004			22.96			
L-5	R+ "D" 27+33.1 TO 27+48.1	3.52	0.002			4.82			
L-5	L+ "D1" 28+06.2 TO 28+21.2	5.74	0.002			9.26			
L-6	L+ "CS" 864+40.3 TO 864+65.3	2.93	0.005	0.018	17.58	6.79			
L-6	L+ "CS" 864+65.3 TO 865+11.3	5.39	0.009	0.034	32.35				
L-6	R+ "CN" 865+52.2 TO 866+03.2	5.98	0.010	0.037	35.87	1.22			
TOTAL		86.95	0.124	0.089	85.80	103.92	4.7	133.78	140

GUARD RAILING

SHEET No.	STATION LIMITS	LAYOUT TYPE	TREATED WOOD WASTE	REMOVE GUARDRAIL	MGS (7' WOOD POST)	ALTERNATIVE FLARED TERMINAL SYSTEM	ALTERNATIVE IN-LINE TERMINAL SYSTEM	TRANSITION RAILING (TYPE WB-31)	END ANCHOR ASSEMBLY (TYPE SFT)	VEGETATION CONTROL (MINOR CONCRETE)
			LB	LF			EA			SQYD
L-1	L+ "S8" 3+15 TO 3+78	12AA						1		
L-1	R+ "S8" 7+30 TO 7+91	12BB				1		1		
L-2	R+ "CS" 213+44 TO 214+00		912	53	28			1		
L-2	R+ "CS" 215+13 TO 215+69		912	53	53					
L-2	L+ "CS" 215+29 TO 216+30	12A	1596	108	45		1	1		
L-3	L+ "C" 124+86 TO 126+13		1824	125	125					
L-4	R+ "G" 37+96 TO 38+71		1216	75	50			1		
L-4	L+ "C" 137+99 TO 138+74		1216	75	50			1		
L-6	L+ "CS" 863+15 TO 864+40		1824	125	125				1	66
L-6	R+ "CS" 864+88 TO 865+41		912	53	28			1		
L-6	L+ "CS" 865+11 TO 866+61	12B	2128	150	87	1		1		86
L-6	R+ "CS" 865+92 TO 866+45		912	53	53					
TOTAL			13452	870	644	2	2	8	1	152

SUMMARY OF QUANTITIES
NO SCALE

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JAIME GUTIERREZ
 CHECKED BY: TRINH LAI
 REVISIONS: 4/24/15
 RP



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	54	149
			<i>m Now</i> 4-15-15 REGISTERED ELECTRICAL ENGINEER DATE		
			4-27-15 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.					

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL

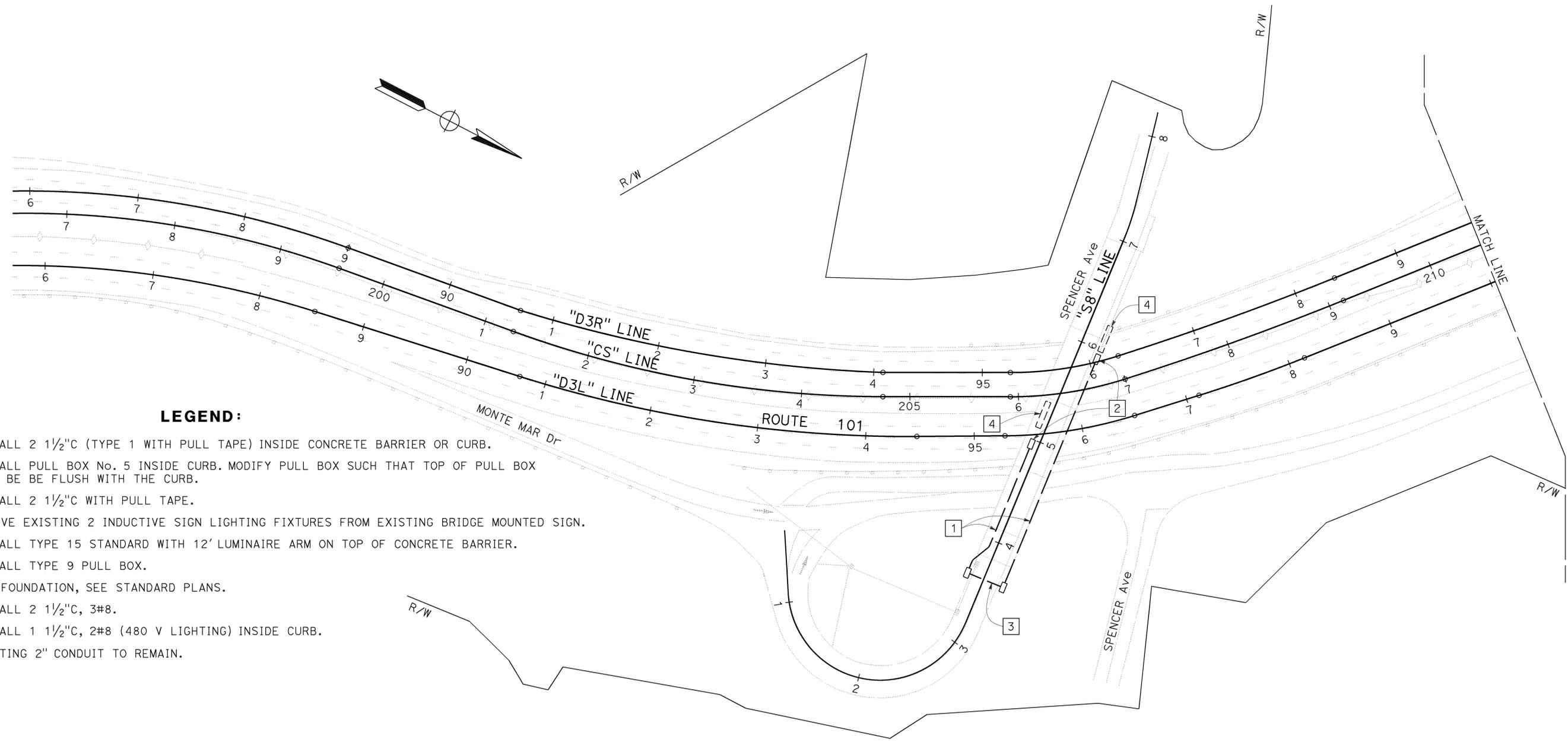
FUNCTIONAL SUPERVISOR
 BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY
 CHECKED BY

GUILLELMO BAUTISTA
 MAHMOOD NOII

REVISOR BY
 DATE REVISED

GB
 4/24/15



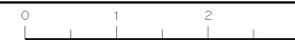
LEGEND:

- 1 INSTALL 2 1/2"C (TYPE 1 WITH PULL TAPE) INSIDE CONCRETE BARRIER OR CURB.
- 2 INSTALL PULL BOX No. 5 INSIDE CURB. MODIFY PULL BOX SUCH THAT TOP OF PULL BOX WILL BE BE FLUSH WITH THE CURB.
- 3 INSTALL 2 1/2"C WITH PULL TAPE.
- 4 REMOVE EXISTING 2 INDUCTIVE SIGN LIGHTING FIXTURES FROM EXISTING BRIDGE MOUNTED SIGN.
- 5 INSTALL TYPE 15 STANDARD WITH 12' LUMINAIRE ARM ON TOP OF CONCRETE BARRIER.
- 6 INSTALL TYPE 9 PULL BOX.
- 7 FOR FOUNDATION, SEE STANDARD PLANS.
- 8 INSTALL 2 1/2"C, 3#8.
- 9 INSTALL 1 1/2"C, 2#8 (480 V LIGHTING) INSIDE CURB.
- 10 EXISTING 2" CONDUIT TO REMAIN.

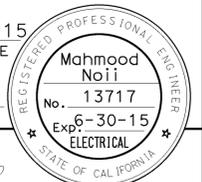
APPROVED FOR ELECTRICAL WORK ONLY

LIGHTING
 SCALE: 1" = 50'

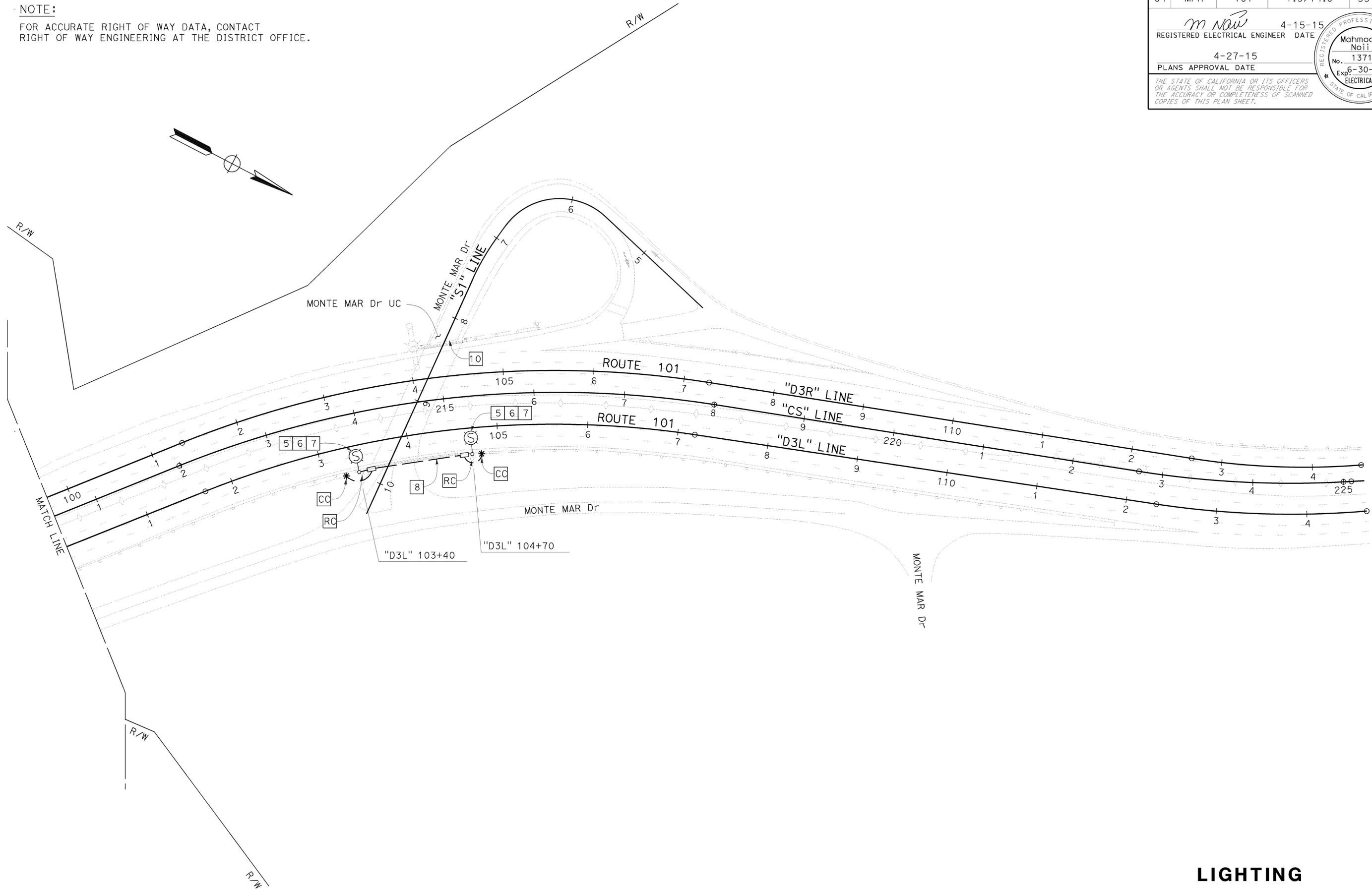
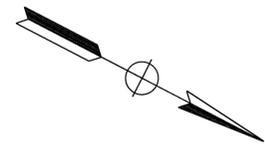
E-1



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	55	149
			<i>m Now</i> 4-15-15 REGISTERED ELECTRICAL ENGINEER DATE		
			4-27-15 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.					



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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	BEHZAD GOLEMHANMADI	GUILLERMO BAUTISTA	4/24/15
ELECTRICAL		MAHMOOD NOII	
		CHECKED BY	
		DESIGNED BY	
		CB	

APPROVED FOR ELECTRICAL WORK ONLY

FOR LEGEND, SEE SHEET E-1

LIGHTING
 SCALE: 1" = 50'

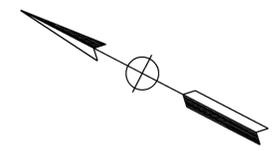
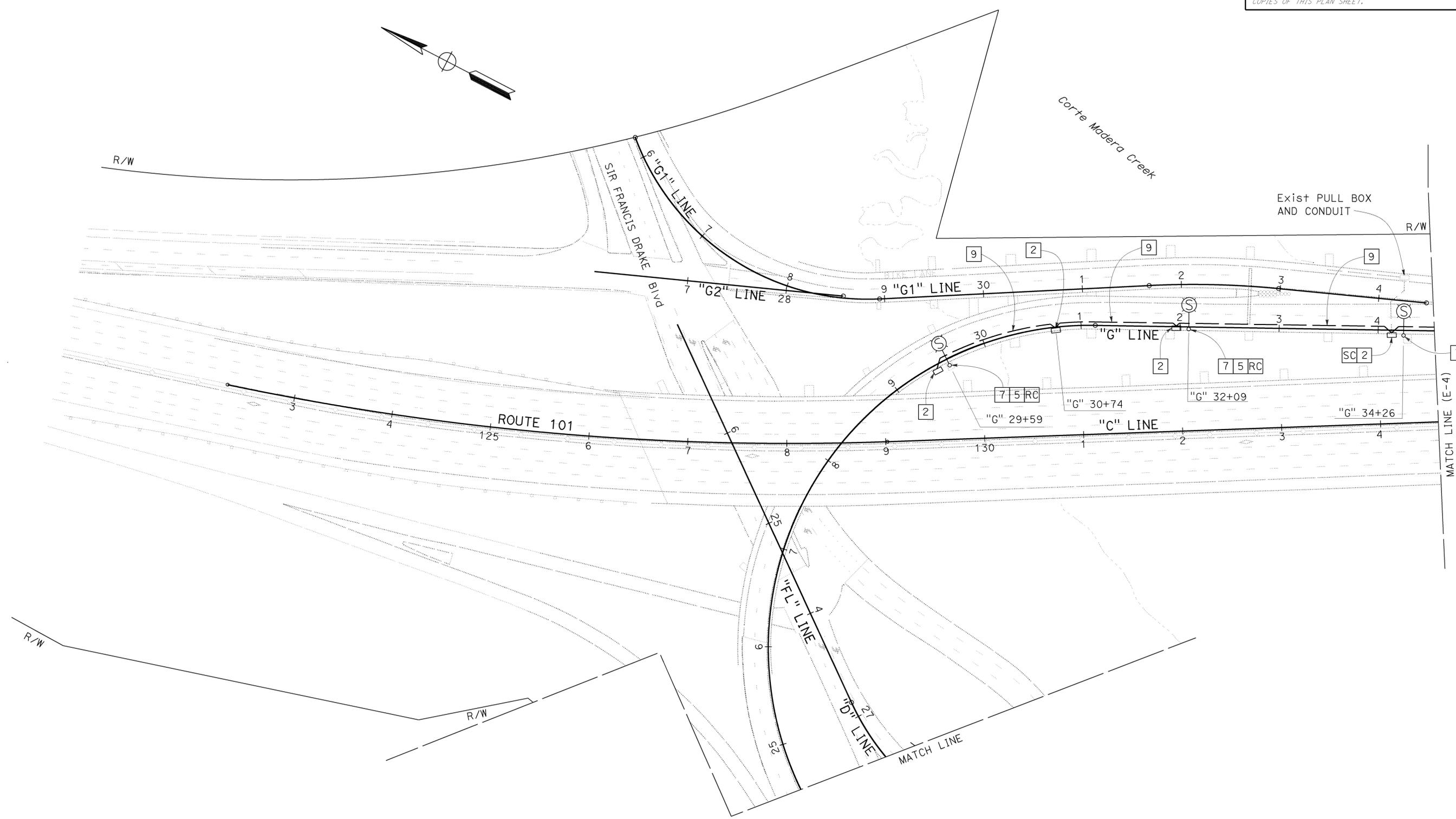
E-2

LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	56	149
			<i>m Noii</i> 4-15-15 REGISTERED ELECTRICAL ENGINEER DATE		
			4-27-15 PLANS APPROVAL DATE		
<small>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.</small>					

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	BEHZAD GOLEMOHAMMADI	MAHMOOD NOII	CB	4/24/15
ELECTRICAL				



APPROVED FOR ELECTRICAL WORK ONLY

FOR LEGEND, SEE SHEET E-1

LIGHTING
 SCALE: 1" = 50'

E-3

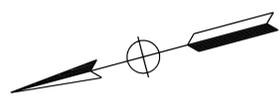
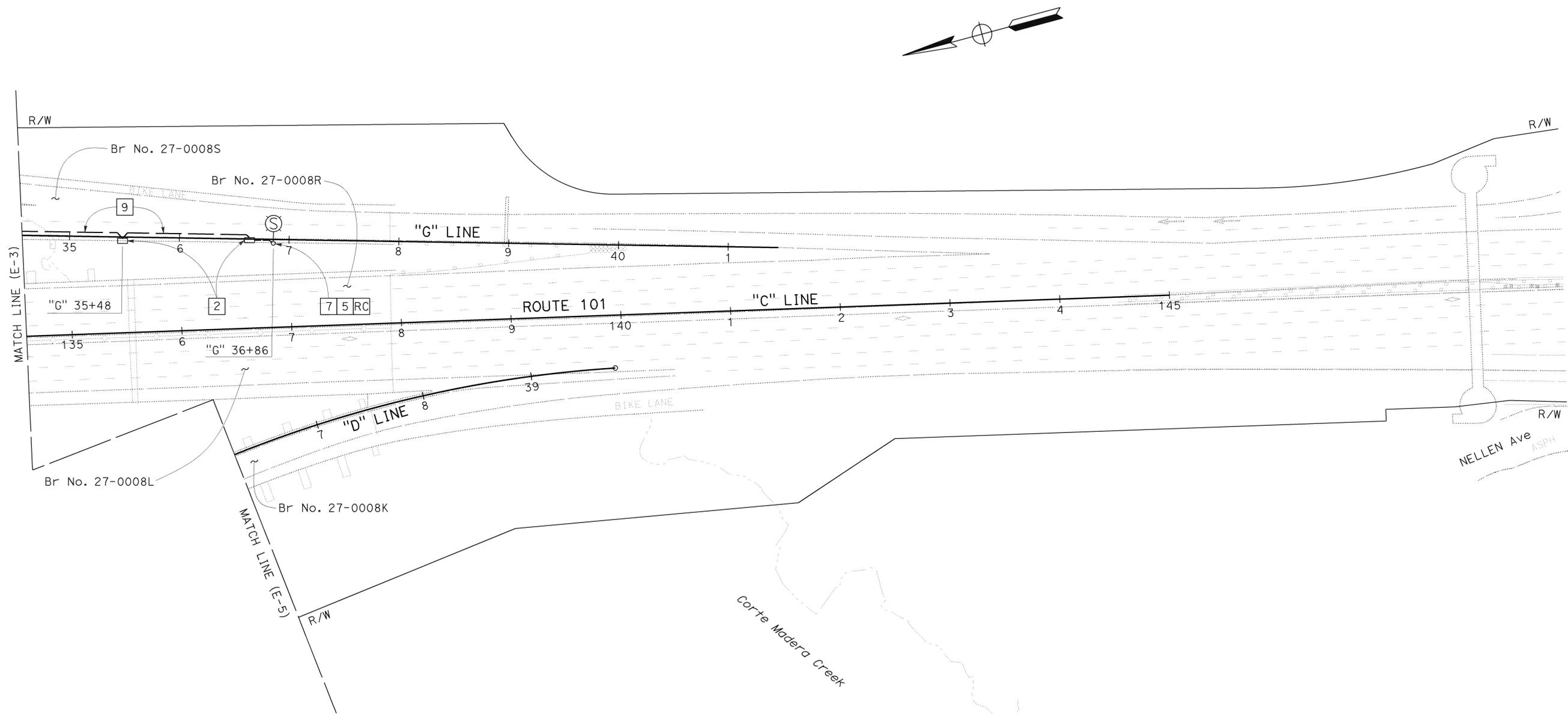
LAST REVISION | DATE PLOTTED => 20-MAY-2015
 04-24-15 TIME PLOTTED => 16:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mirn	101	1.5/14.0	57	149
			<i>m Noii</i> 4-15-15 REGISTERED ELECTRICAL ENGINEER DATE		
			4-27-15 PLANS APPROVAL DATE		
			<div style="border: 1px solid black; border-radius: 50%; padding: 5px; text-align: center;"> REGISTERED PROFESSIONAL ENGINEER Mahmood Noii No. 13717 Exp. 6-30-15 ELECTRICAL STATE OF CALIFORNIA </div>		
<small>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.</small>					

NOTE:

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR BY	DATE
Caltrans	BEHZAD GOLEMOHAMMADI	GUILLERMO BAUTISTA	MAHMOOD NOII	4/24/15
ELECTRICAL	BEHZAD GOLEMOHAMMADI	GUILLERMO BAUTISTA	MAHMOOD NOII	4/24/15



LIGHTING
SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

FOR LEGEND, SEE SHEET E-1

E-4

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:52

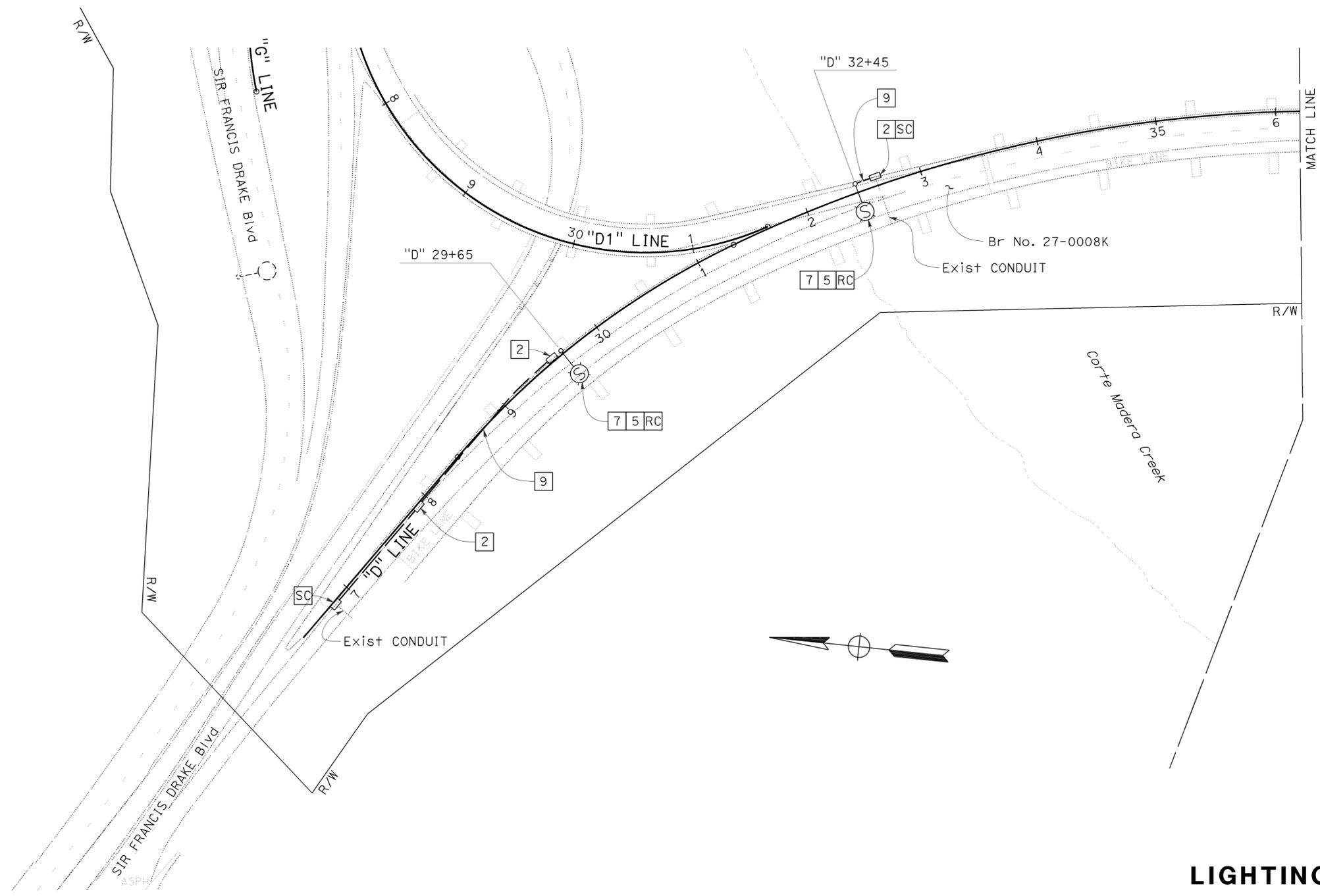
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	BEHZAD GOLEMOHAMMADI	CHECKED BY	GUILLERMO BAUTISTA	4/24/15
ELECTRICAL			MAHMOOD NOII	

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	58	149
			4-15-15	DATE	
			4-27-15	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.



LIGHTING
SCALE: 1" = 50'

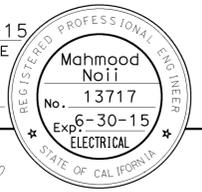
APPROVED FOR ELECTRICAL WORK ONLY

FOR LEGEND, SEE SHEET E-1

E-5

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 TIME PLOTTED => 16:52

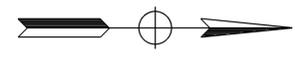
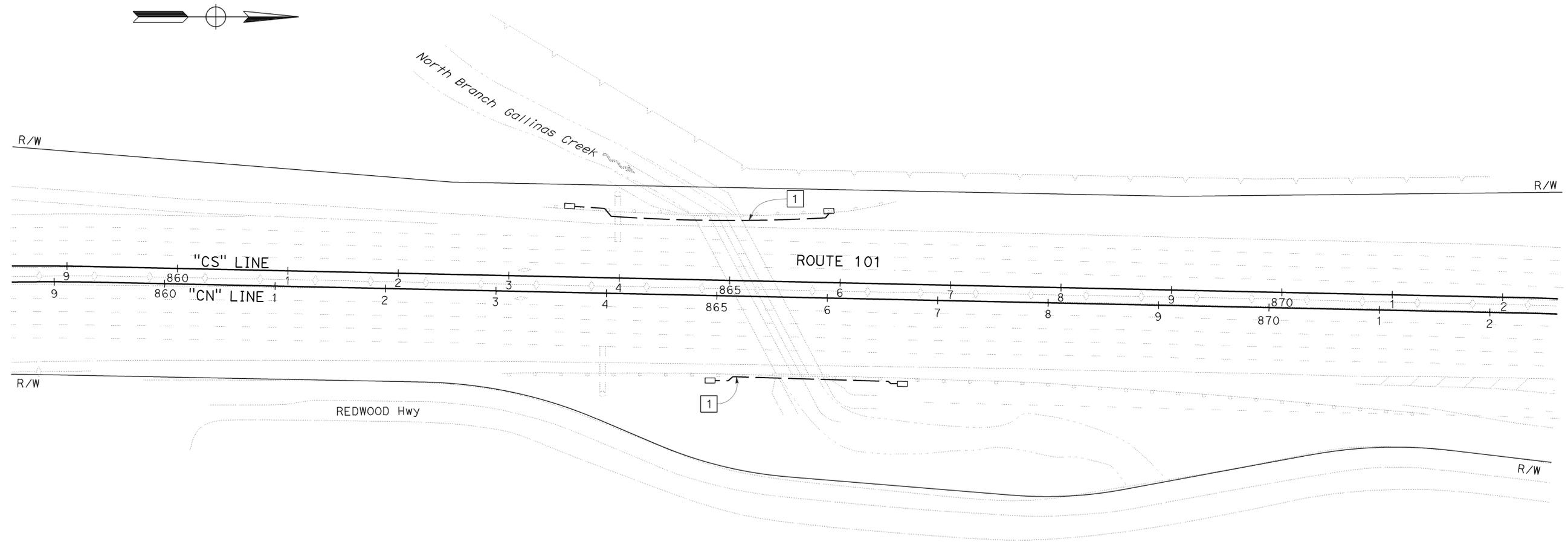
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	59	149
			<i>m Now</i> 4-15-15 REGISTERED ELECTRICAL ENGINEER DATE		
			4-27-15 PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



NOTE:

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans	BEHZAD GOLEMHAMMADI	GUILLERMO BAUTISTA	MAHMOOD NOII	4/24/15
ELECTRICAL				



APPROVED FOR ELECTRICAL WORK ONLY

FOR LEGEND, SEE SHEET E-1

LIGHTING
SCALE: 1" = 50'

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL

FUNCTIONAL SUPERVISOR
 BEHZAD GOLEMOHAMMADI

CALCULATED/DESIGNED BY
 CHECKED BY

GUILLEMO BAUTISTA
 MAHMOOD NOII

REVISOR BY
 DATE REVISED

CB
 4/24/15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	60	149

m Noii 4-15-15
 REGISTERED ELECTRICAL ENGINEER DATE

4-27-15
 PLANS APPROVAL DATE

Mahmood Noii
 No. 13717
 Exp. 6-30-15
 ELECTRICAL
 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.

LIGHTING SUMMARY QUANTITIES

SHEET No.	TYPE 15 STANDARD	TYPE 15 STANDARD FOUNDATION	165 W LED LUMINAIRE	1 1/2" CONDUIT	#8 CONDUCTORS	#5 PB	#9 PB
	EA			ft		EA	
E-1				800		4	
E-2	2	2	2	380	260		2
E-3	3	3	3	530	1060	4	
E-4	1	1	1	230	460	2	
E-5	2	2	2	250	500	4	
E-6				840		4	
TOTAL	8	8	8	3030	2280	18	2

ITEMS SHOWN IN THIS TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

LIGHTING QUANTITIES

E-7

APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION | DATE PLOTTED => 20-MAY-2015 04-24-15 | TIME PLOTTED => 16:52

	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	
MtI	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	
Obir	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 MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, 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	
TeI	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
04	Mrn	101	1.5/14.0	61	149

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 4-27-15

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
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

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DEPARTMENT OF TRANSPORTATION

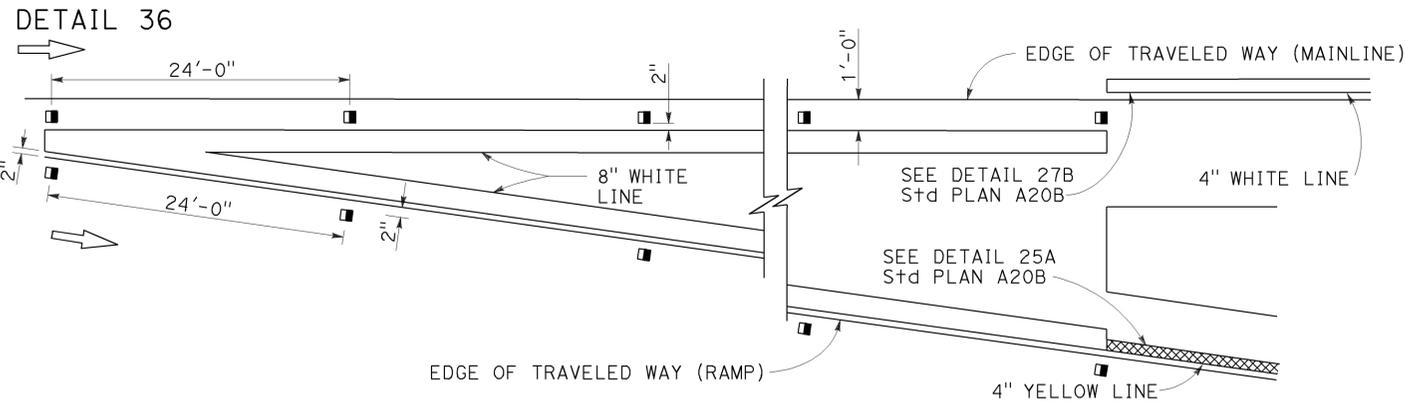
**ABBREVIATIONS
(SHEET 2 OF 2)**

NO SCALE

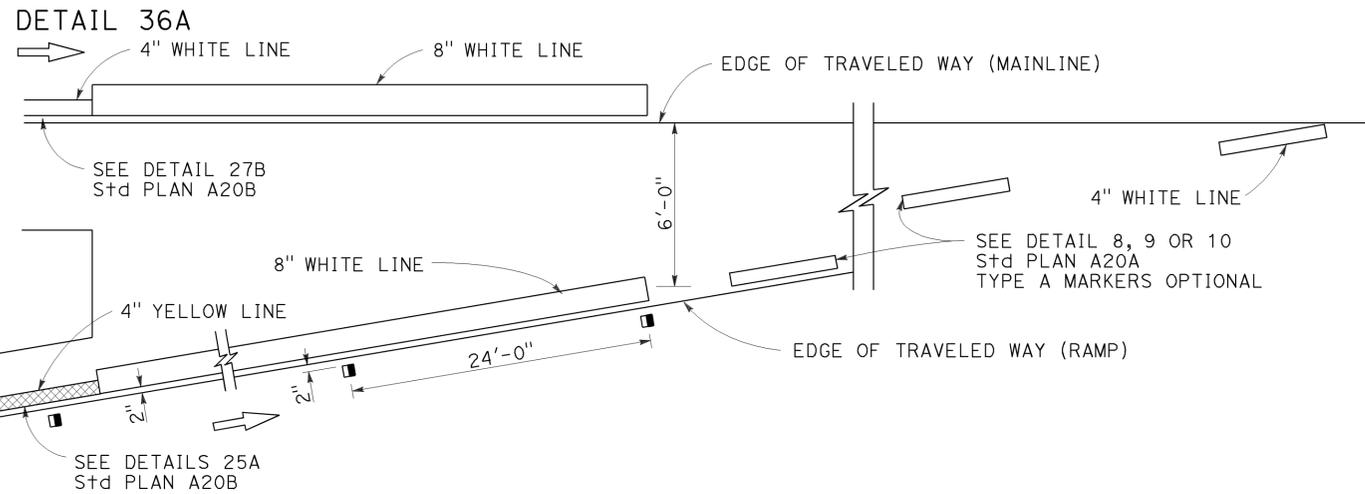
RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A10B

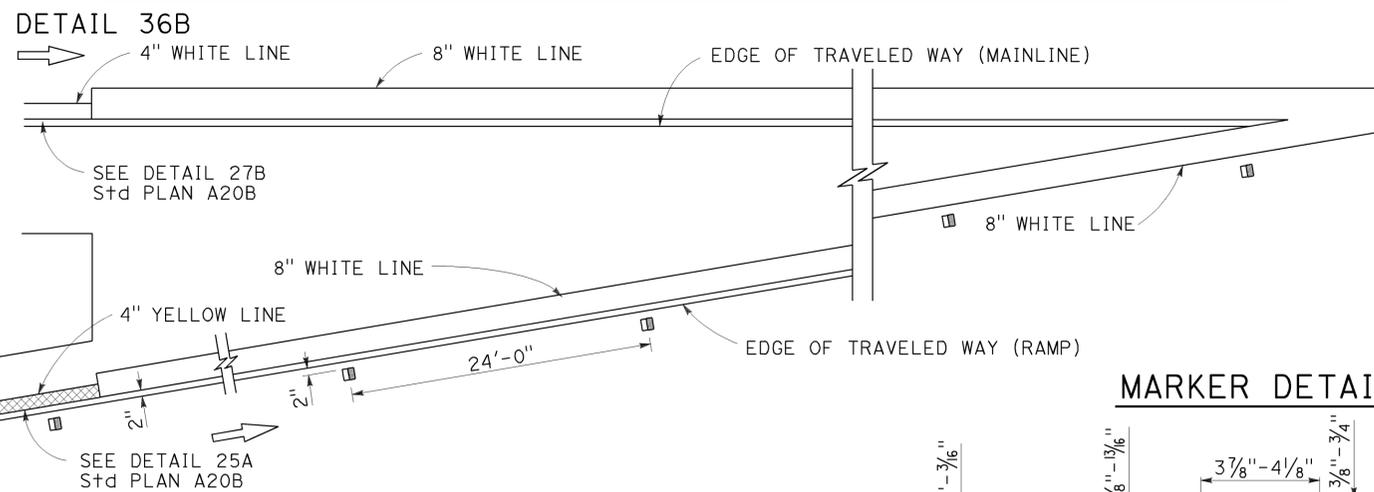
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

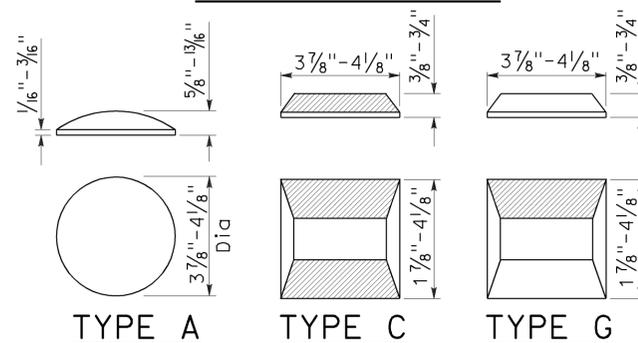


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	62	149

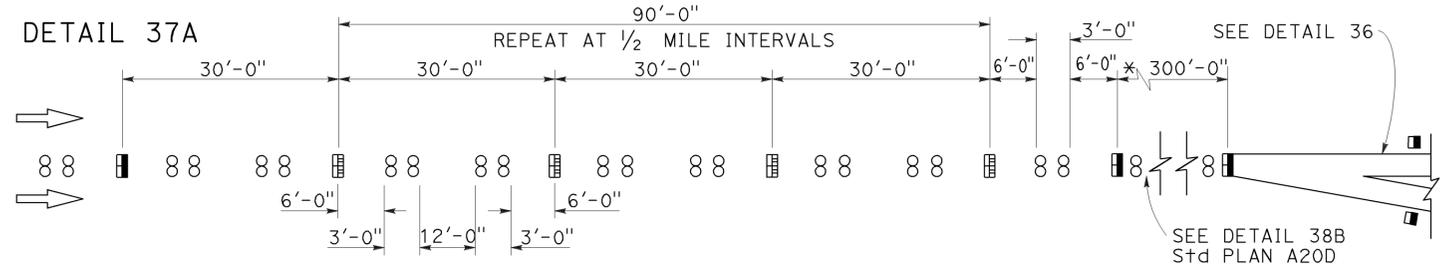
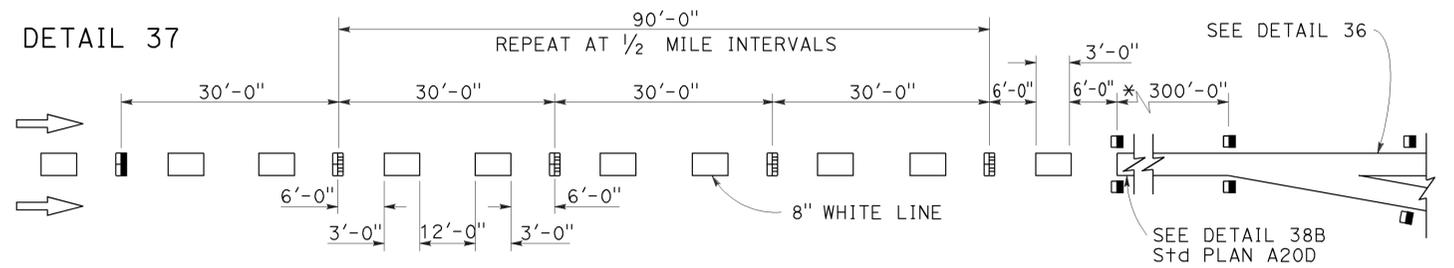
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 No. C40375
 Exp. 3-31-15
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 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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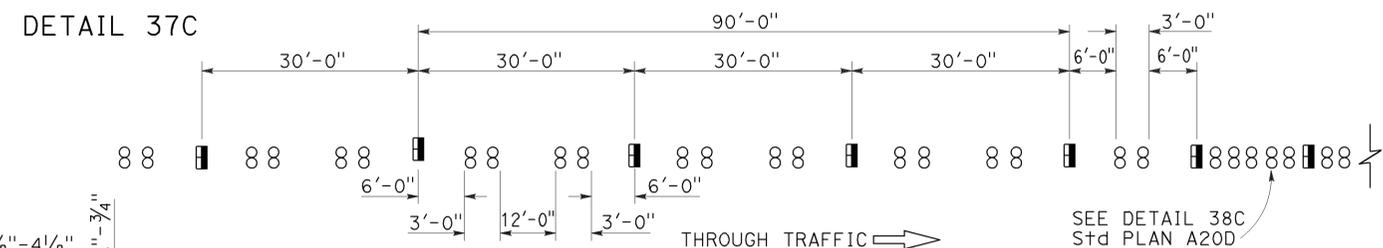
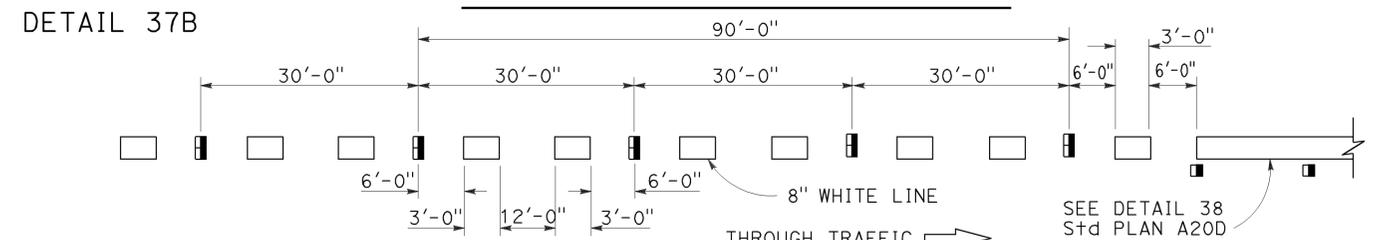
TO ACCOMPANY PLANS DATED 4-27-15

LANE DROP AT EXIT RAMP



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

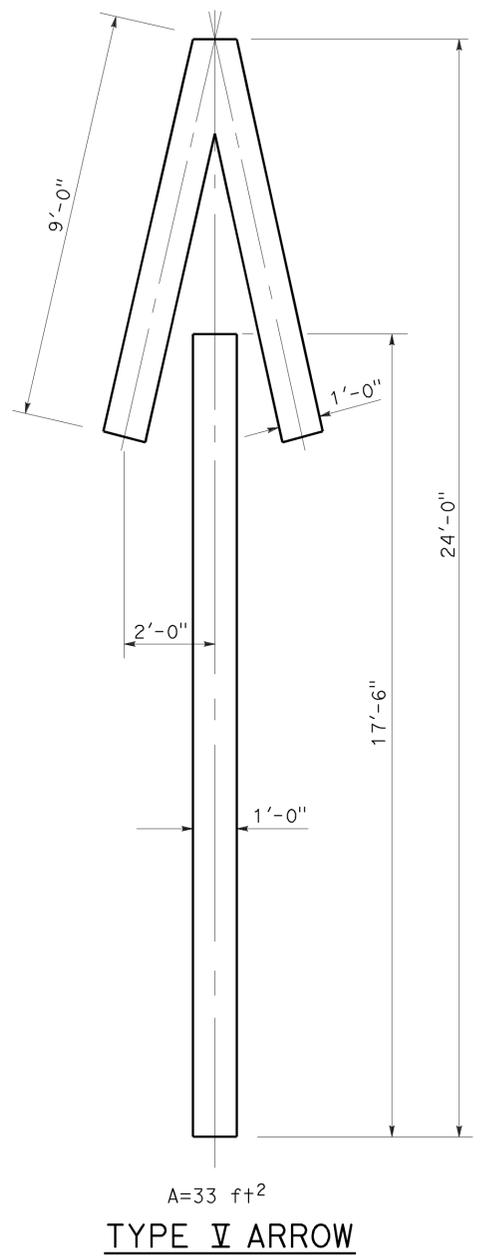
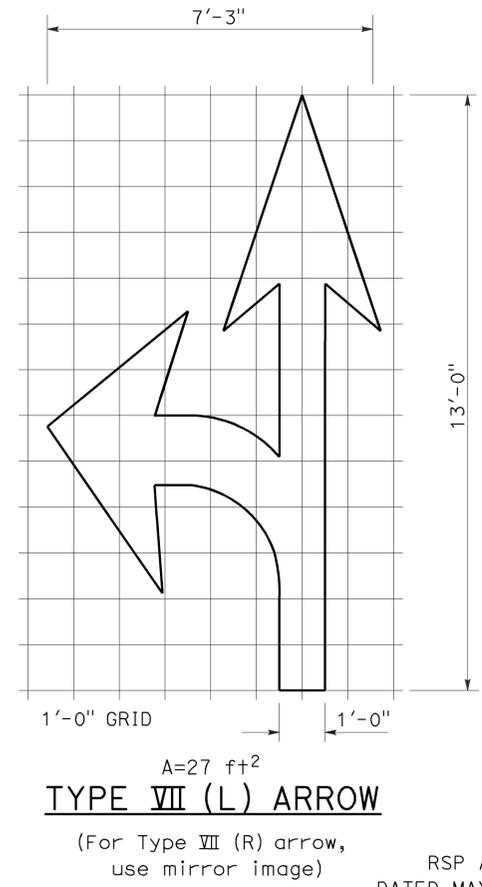
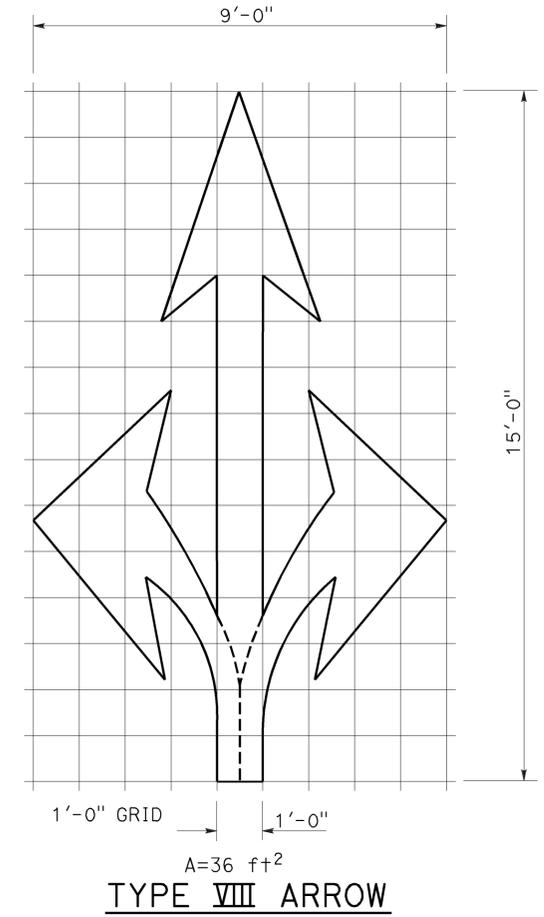
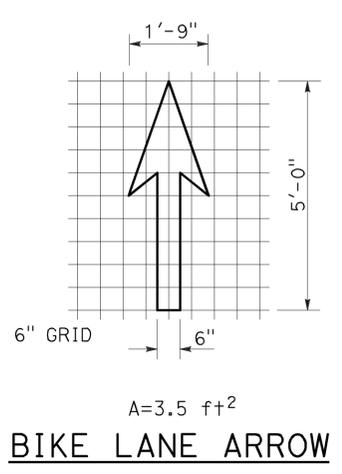
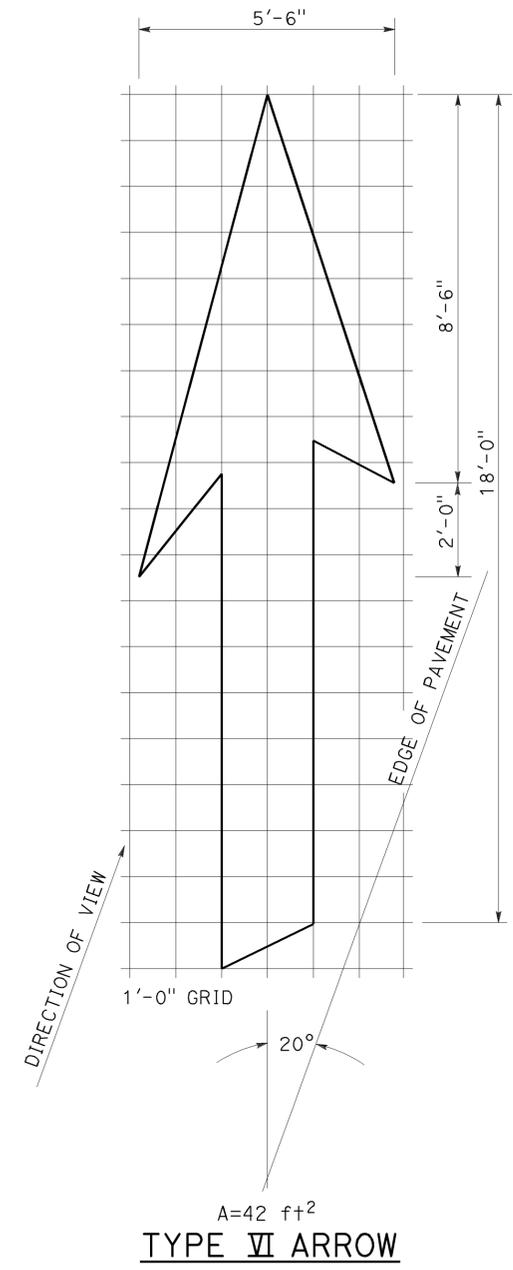
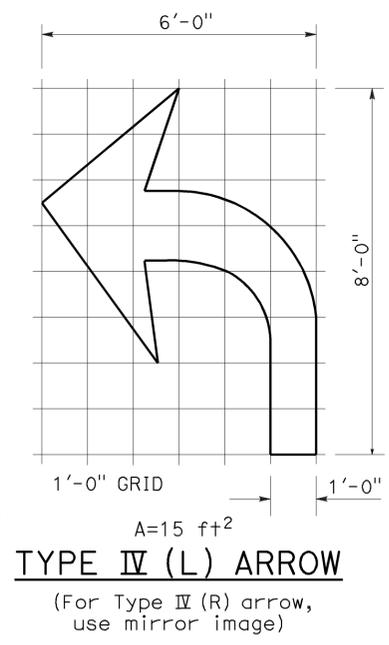
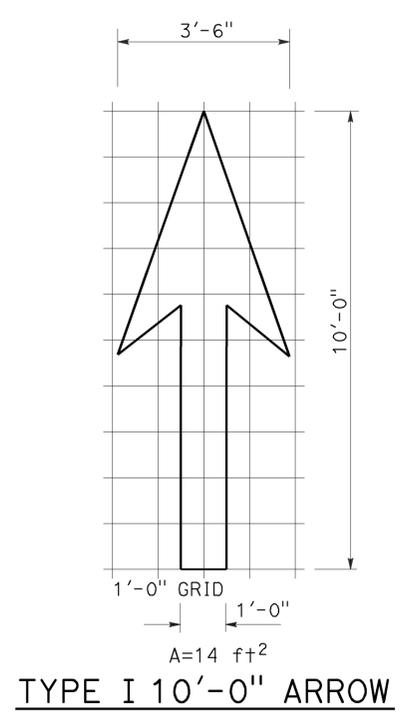
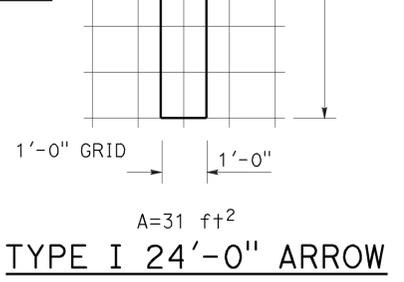
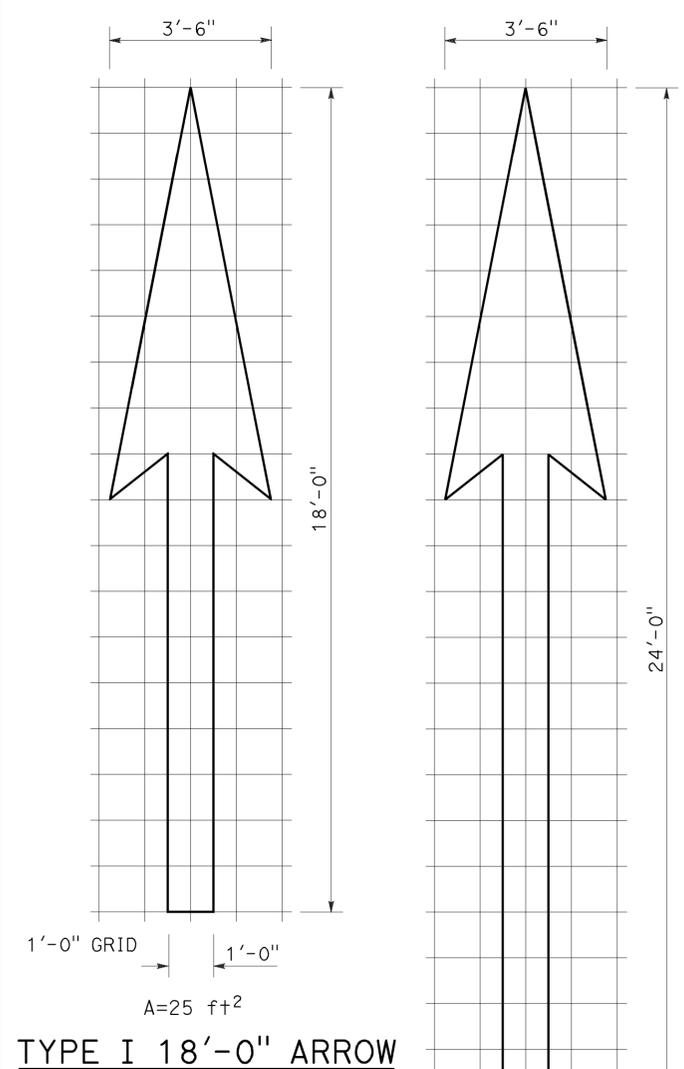
2010 REVISED STANDARD PLAN RSP A20C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	63	149

Robert L. McLaughlin
 REGISTERED CIVIL ENGINEER
 April 20, 2012
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-13
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 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-27-15



NOTE:
 Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 ARROWS**
 NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	64	149

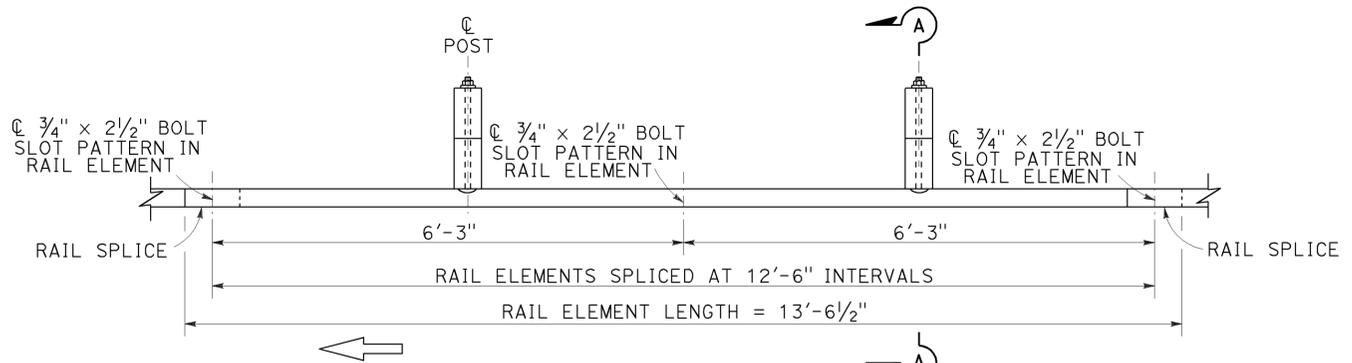
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

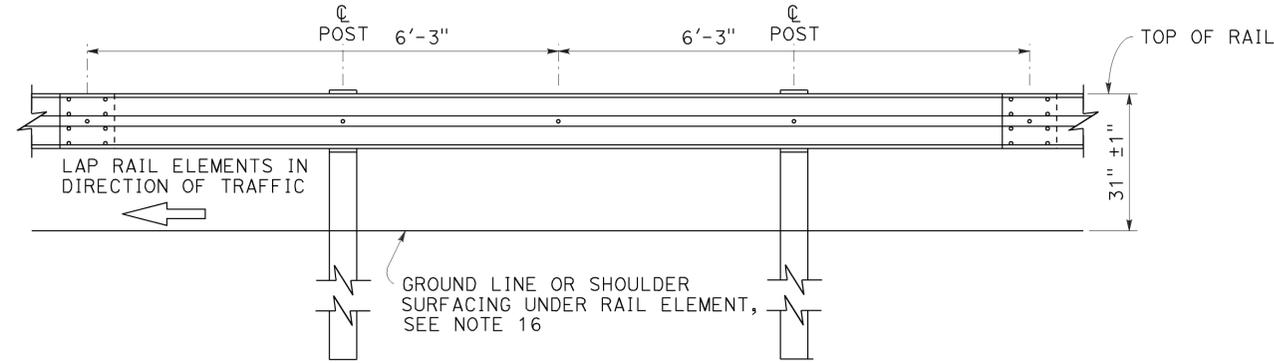
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-27-15

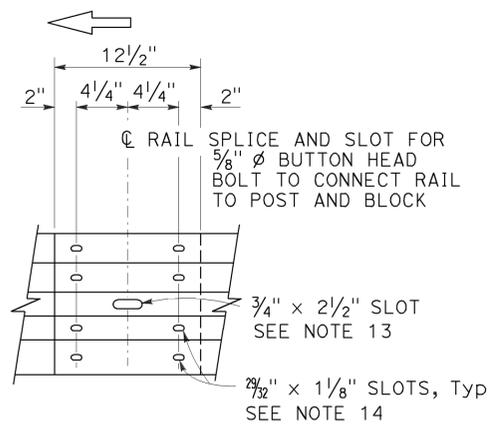


PLAN



ELEVATION

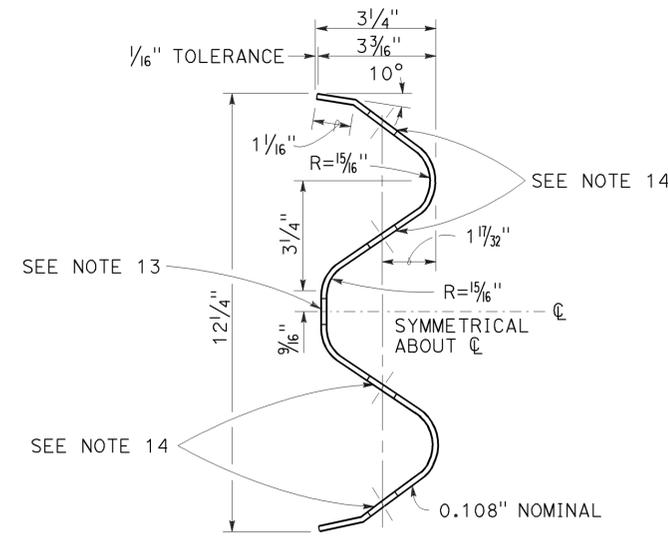
MIDWEST GUARDRAIL SYSTEM WITH WOOD POST AND BLOCKS



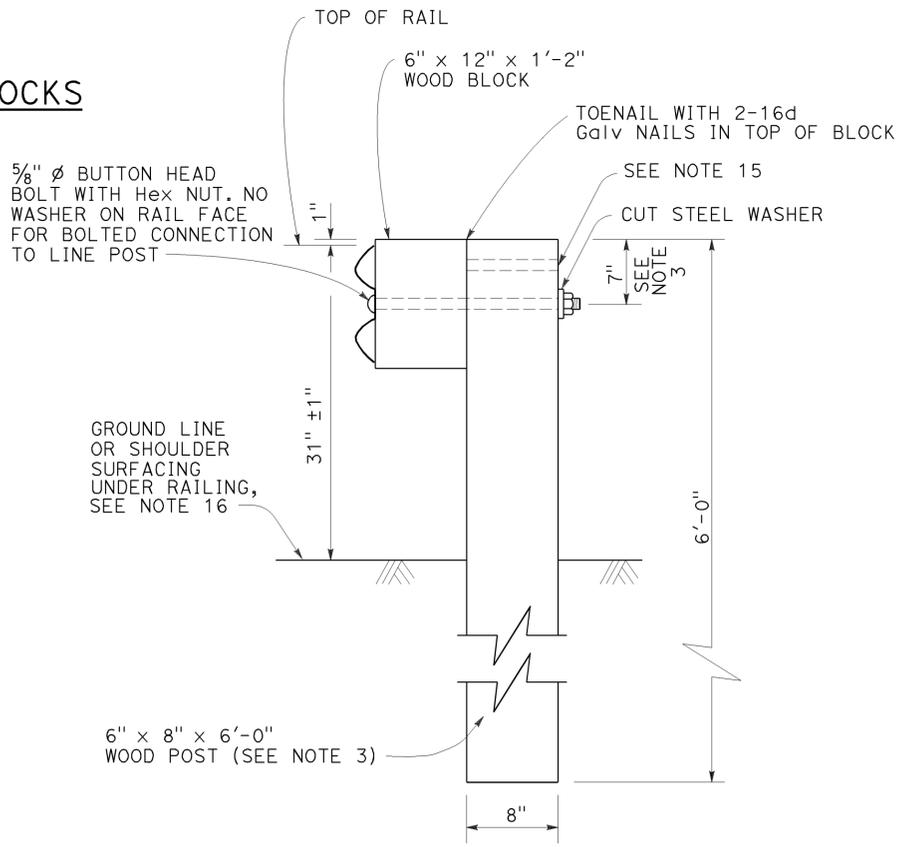
ELEVATION

RAIL ELEMENT SPLICE DETAIL

- Connect the over lapped end of the rail elements with $\frac{5}{8}$ " ϕ x $1\frac{3}{8}$ " button head oval shoulder splice bolts inserted into the $\frac{7}{32}$ " x $1\frac{1}{8}$ " slots and bolted together with $\frac{5}{8}$ " ϕ recessed hex nuts. Recess of hex nut points toward rail element. A total of 8 bolts and nuts are to be used at each rail splice connection.
- The ends of the rail elements are to be overlapped in the direction of traffic (see details).
- Where end cap is to be attached to the end of a rail element, a total of 4 of the above described splice bolts and nuts are to be used.



SECTION THRU RAIL ELEMENT



SECTION A-A
TYPICAL WOOD LINE POST INSTALLATION

See Note 4

NOTES:

- For details of steel post installations, see Revised Standard Plan RSP A77L2.
- For details of standard hardware used to construct MGS, see Revised Standard Plan RSP A77M1.
- For details of wood posts and wood blocks used to construct MGS, see Revised Standard Plan RSP A77N1.
- For additional installation details, see Revised Standard Plan RSP A77N3.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- For MGS typical layouts, see the A77P, A77Q and A77R Series of Standard Plans.
- If railing is connected to terminal system end treatment, use 31" height terminal system end treatment.
- For MGS end anchor details, see Revised Standard Plans RSP A77S1 and RSP A77T2.
- For details of MGS transition to bridge railing, see Revised Standard Plan RSP A77U4.
- For additional details of MGS connection to bridge railing, see Revised Standard Plans RSP A77U1, RSP A77U2 and RSP A77V1.
- For MGS connection details to abutments and walls, see Revised Standard Plan RSP A77U3.
- For typical MGS delineation and dike positioning details, see Revised Standard Plan RSP A77N4.
- Slotted hole for bolted connection of rail element to block and post. See "Section Thru Rail Element".
- Slotted holes for splice bolts to overlap ends of rail element. See "Section Thru Rail Element".
- Additional hole in uppermost portion of line post is for potential future adjustments of railing height. See Revised Standard Plan RSP A77N1.
- Install posts in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
STANDARD RAILING SECTION
(WOOD POST WITH WOOD BLOCK)

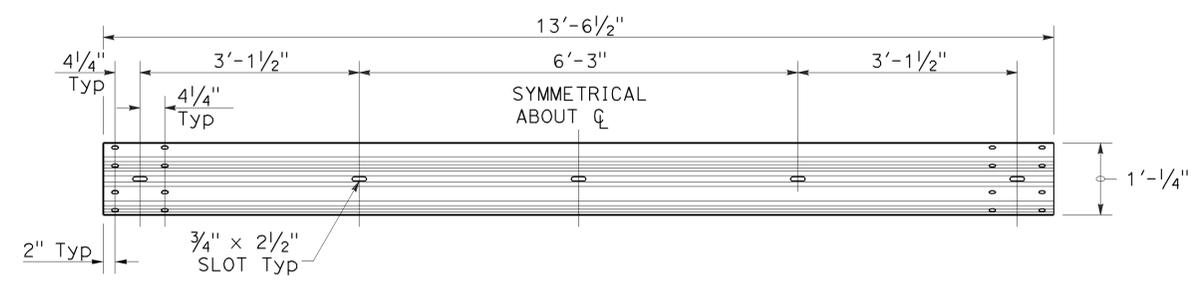
NO SCALE

RSP A77L1 DATED JULY 19, 2013 SUPPLEMENTS STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77L1

2010 REVISED STANDARD PLAN RSP A77L1

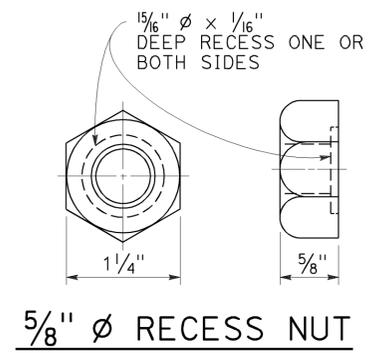
TO ACCOMPANY PLANS DATED 4-27-15



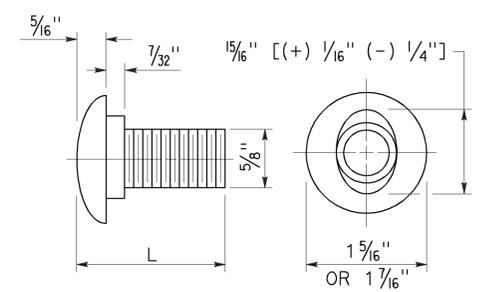
TYPICAL RAIL ELEMENT

NOTE:

- Slotted holes for splice bolts to overlap ends of rail element.



5/8" Ø RECESS NUT

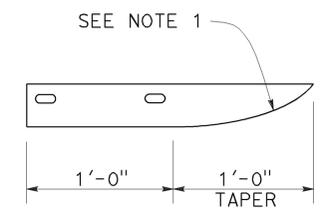


5/8" Ø BUTTON HEAD BOLT

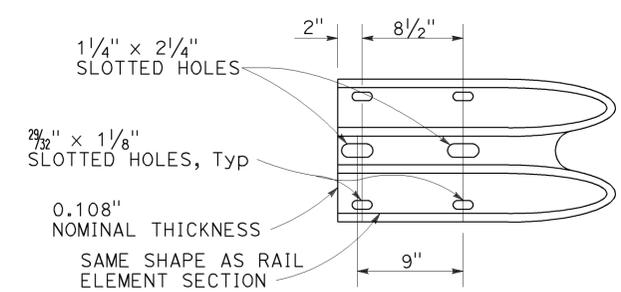
BUTTON HEAD BOLT

L	THREAD LENGTH
1 3/8"	FULL THREAD LENGTH
2"	FULL THREAD LENGTH
10"	4" Min THREAD LENGTH
18"	4" Min THREAD LENGTH
20"	4" Min THREAD LENGTH
22"	4" Min THREAD LENGTH
26"	4" Min THREAD LENGTH
36"	4" Min THREAD LENGTH
** 2 3/4"	2" Min THREAD LENGTH
** 19"	4" Min THREAD LENGTH

** For nested rail applications.



PLAN



**ELEVATION
END CAP
(TYPE A)**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
STANDARD HARDWARE**

NO SCALE

RSP A77M1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77M1

2010 REVISED STANDARD PLAN RSP A77M1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	66	149

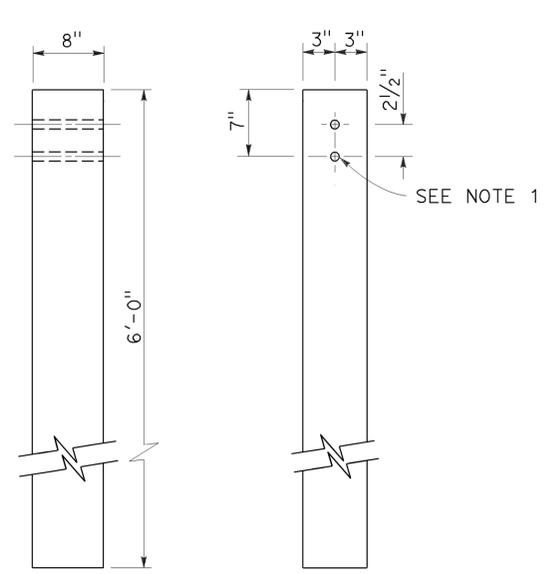
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

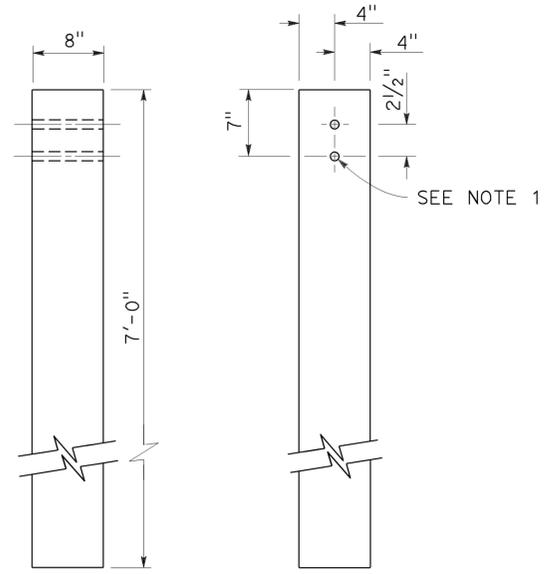
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

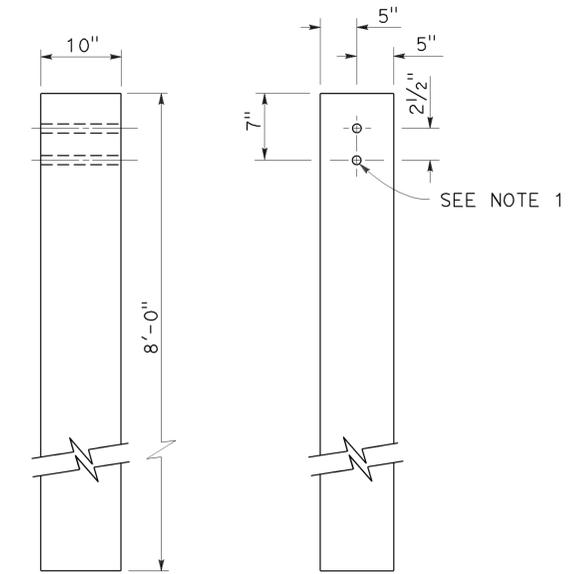
TO ACCOMPANY PLANS DATED 4-27-15



SIDE FRONT
6" x 8" WOOD POST
See Note 3



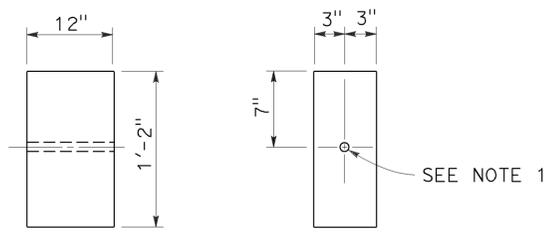
SIDE FRONT
8" x 8" WOOD POST
See Note 4



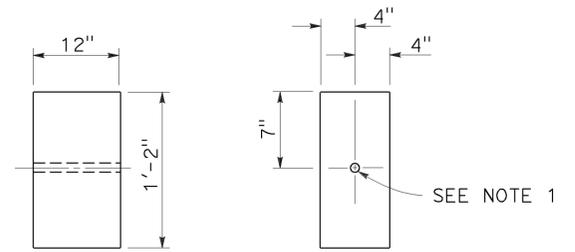
SIDE FRONT
10" x 10" WOOD POST
See Note 5

NOTES:

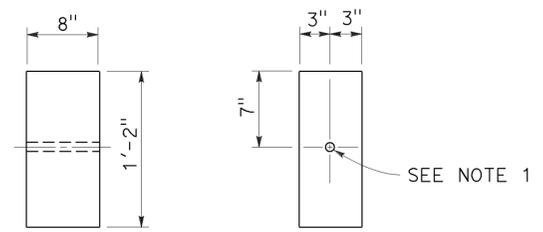
1. All holes in wood posts and blocks shall be 3/4" Dia ± 1/16".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow roadways.
5. This post and 8" x 12" block combination is typically used where strengthened line post sections of MGS are warranted to shield fixed objects.
6. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" wood blocks.



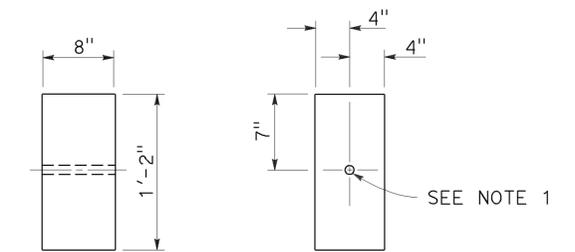
SIDE FRONT
6" x 12" WOOD BLOCK
See Note 3



SIDE FRONT
8" x 12" WOOD BLOCK



SIDE FRONT
6" x 8" WOOD BLOCK
Only for use with metal beam guard rail see Note 6



SIDE FRONT
8" x 8" WOOD BLOCK
Only for use with metal beam guard rail see Note 6

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
WOOD POST AND
WOOD BLOCK DETAILS**

NO SCALE

RSP A77N1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N1

2010 REVISED STANDARD PLAN RSP A77N1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	67	149

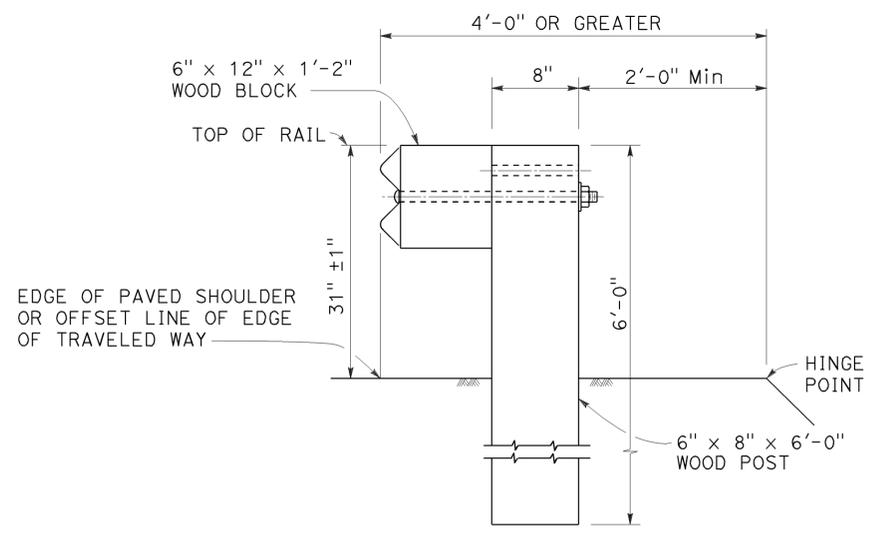
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

November 15, 2013
PLANS APPROVAL DATE

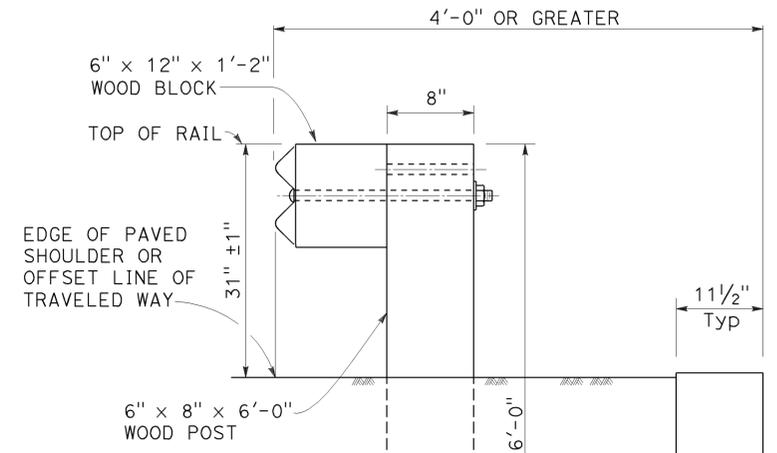
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
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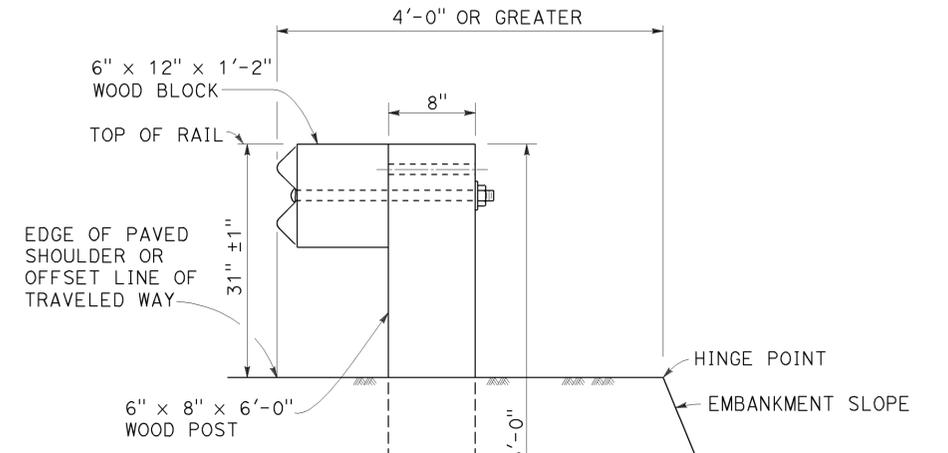
TO ACCOMPANY PLANS DATED 4-27-15



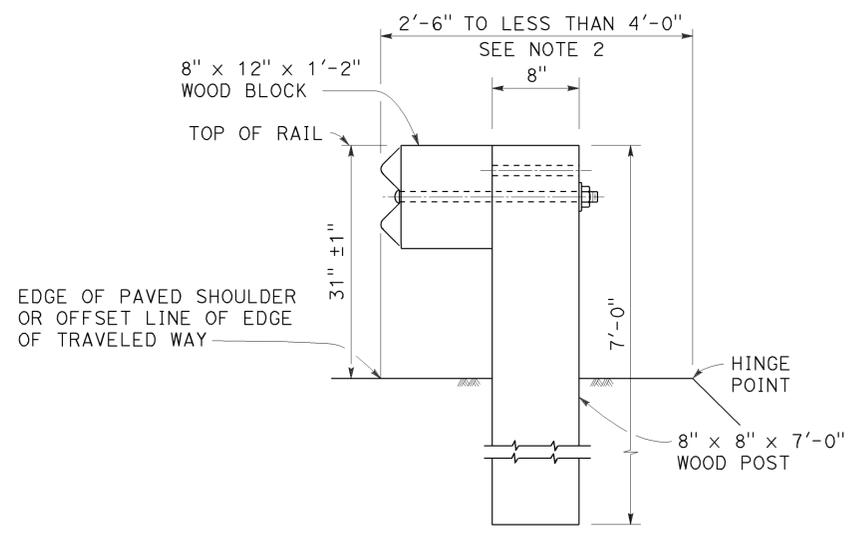
DETAIL A
TYPICAL ROADWAY
INSTALLATION
See Note 1



DETAIL C
INSTALLATION AT EARTH RETAINING WALLS



DETAIL D



DETAIL B
NARROW ROADWAY
INSTALLATION
See Note 1

POST EMBEDMENT

NOTES:

1. These installation details also applicable to steel line post installations. For Detail A, C, and D, where steel line post installations are constructed, W6 x 8.5 or W6 x 9 steel post, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For Detail B, where steel line post installations are constructed, W6 x 15 steel post, 8'-0" in length, with 8" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks are to be used in place of the size of wood post and wood block shown. For additional installation details, see Revised Standard Plan RSP A77L1 and RSP A77L2.
2. Where the distance between the face of the rail and the hinge point is less than 2'-6", see the Project Plans for special details.
3. For dike positioning with MGS installations, see Revised Standard Plan RSP A77N4.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
TYPICAL LINE POST
EMBEDMENT AND
HINGE POINT OFFSET DETAILS

NO SCALE

RSP A77N3 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77N3
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N3

2010 REVISED STANDARD PLAN RSP A77N3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mtn	101	1.5/14.0	68	149

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

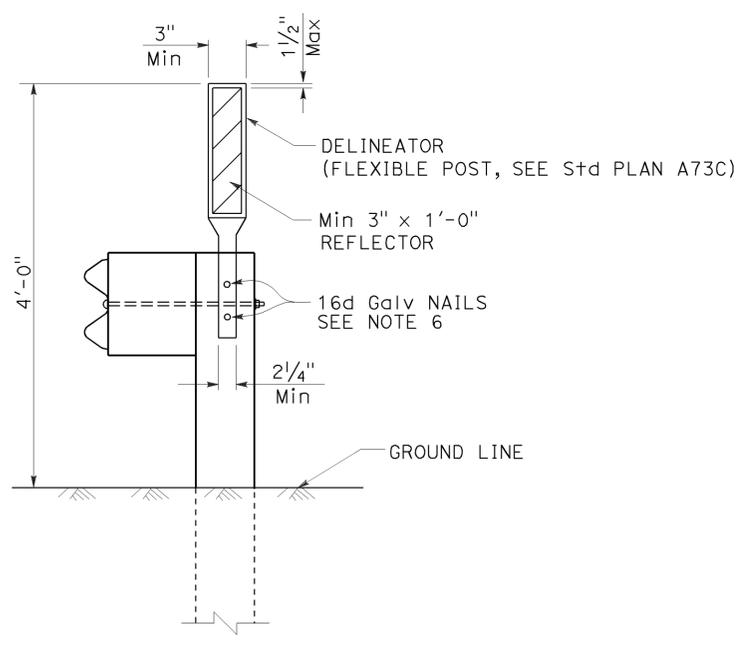
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No. C50200
Exp. 6-30-15
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STATE OF CALIFORNIA

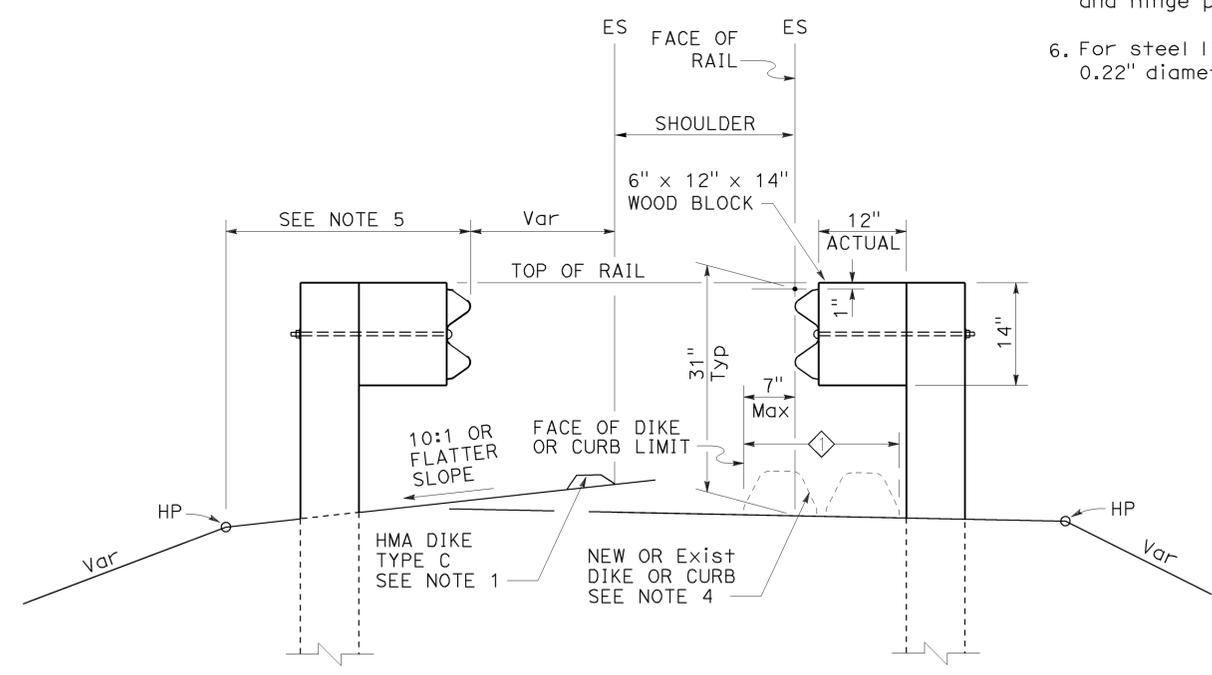
TO ACCOMPANY PLANS DATED 4-27-15

NOTES:

1. When necessary to place dike more than 7" in front of face of MGS, only Type C dike may be used. For dike details, see Revised Standard Plan RSP A87B.
2. For standard railing post embedment, see Revised Standard Plan RSP A77N3.
3. MGS delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under MGS, the maximum height of the dike or curb shall be 6". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and RSP A87B.
5. For details of typical distance between the face of rail and hinge point, see Revised Standard Plan RSP A77N3.
6. For steel line posts, use 1/4" - 20 self-tapping screws in 0.22" diameter holes or 1/4" bolts in 3/32" diameter holes.



MGS DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

◇ PERMISSIBLE DIKE OR CURB PLACEMENT AREA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**
NO SCALE

RSP A77N4 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N4

2010 REVISED STANDARD PLAN RSP A77N4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	69	149

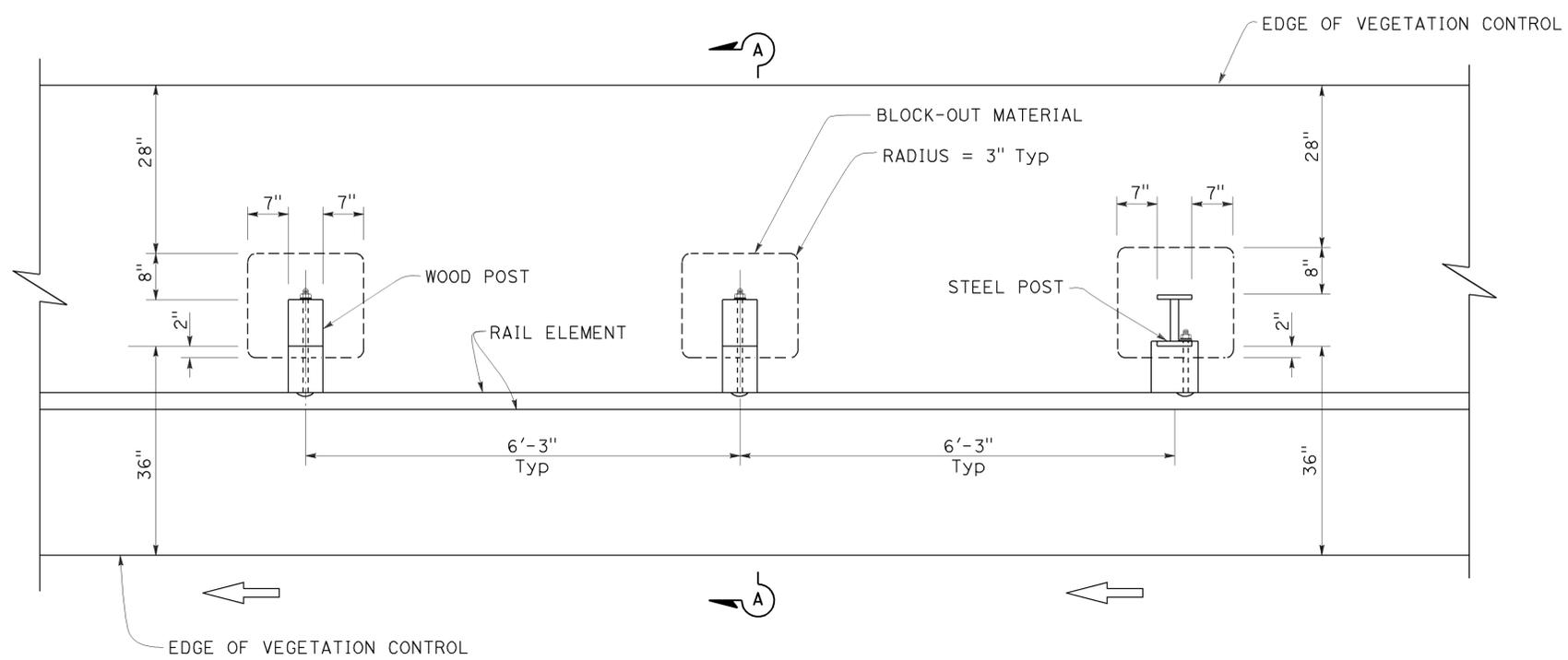
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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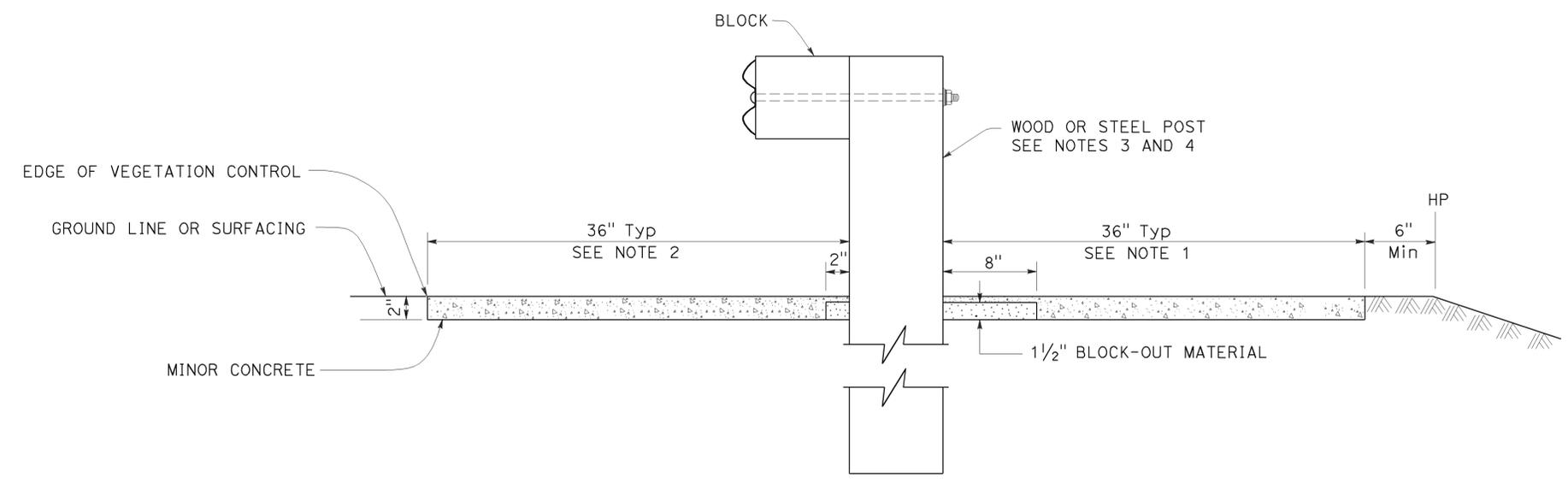
TO ACCOMPANY PLANS DATED 4-27-15



PLAN

NOTES:

1. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
3. For wood post sizes, see Revised Standard Plan RSP A77N1.
4. For steel post sizes, see Revised Standard Plan RSP A77N2.
5. For details not shown, see Revised Standard Plans RSP A77L1 and RSP A77L2.



SECTION A-A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TYPICAL VEGETATION CONTROL
STANDARD RAILING SECTION**

NO SCALE

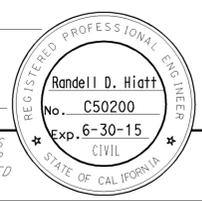
RSP A77N5 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N5

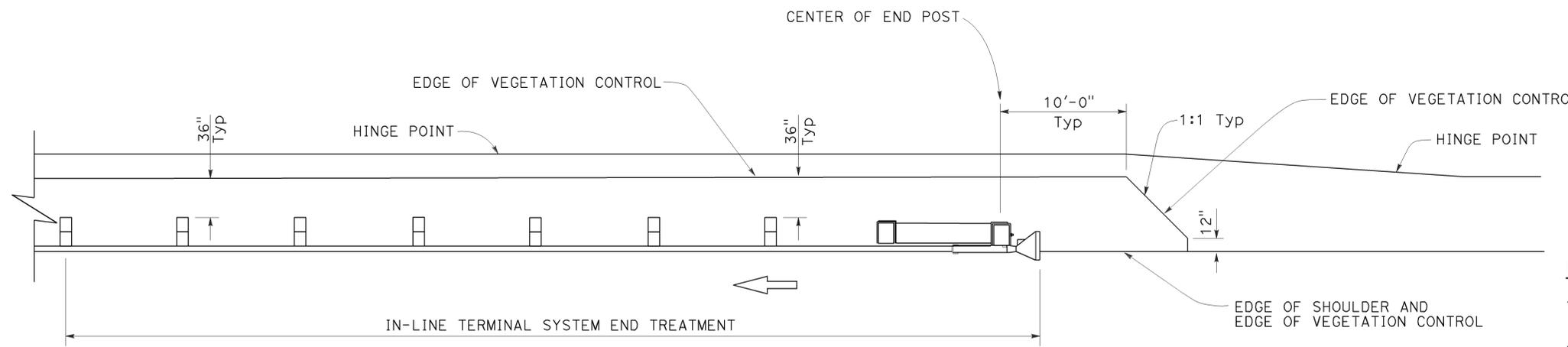
2010 REVISED STANDARD PLAN RSP A77N5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	70	149

Randell D. Hiatt
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
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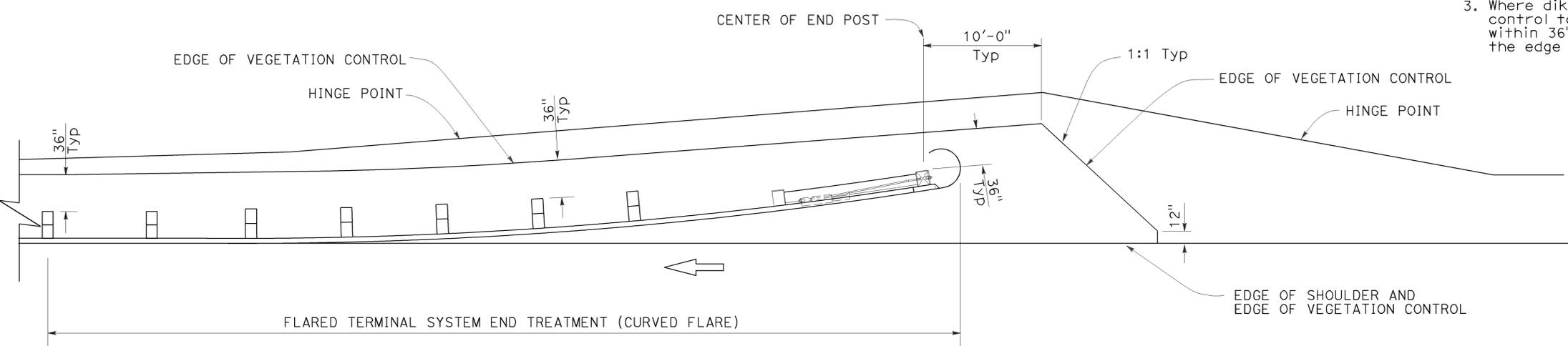
TO ACCOMPANY PLANS DATED 4-27-15



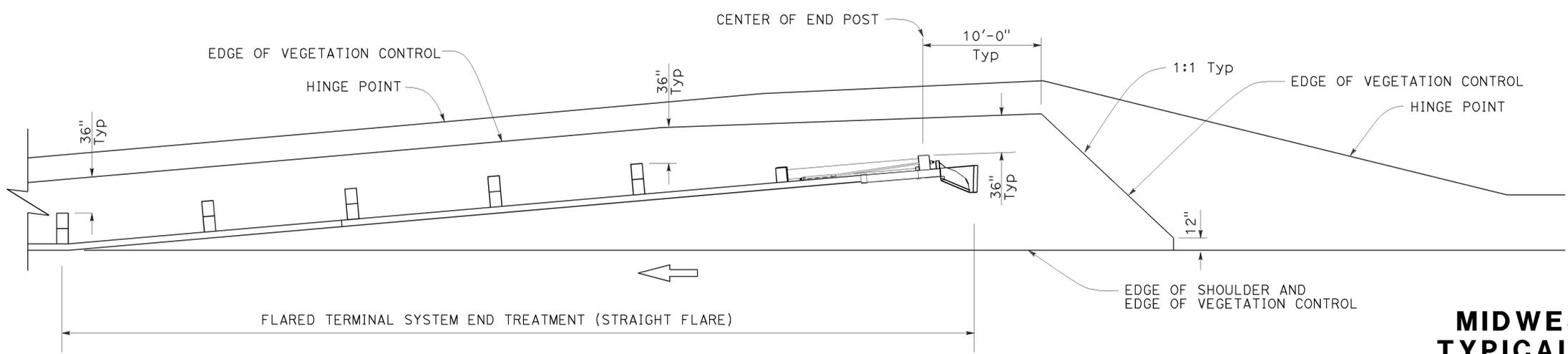
PLAN

NOTES:

1. See Revised Standard Plan RSP A77N5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.



PLAN



PLAN

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
 TYPICAL VEGETATION CONTROL
 FOR TERMINAL SYSTEM END TREATMENTS**
 NO SCALE

RSP A77N6 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N6

2010 REVISED STANDARD PLAN RSP A77N6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	71	149

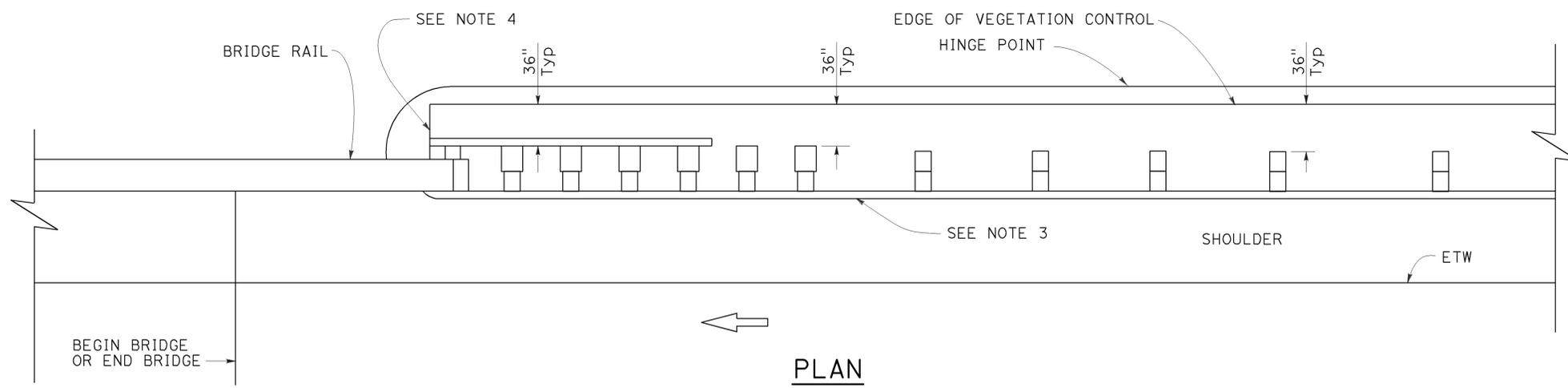
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

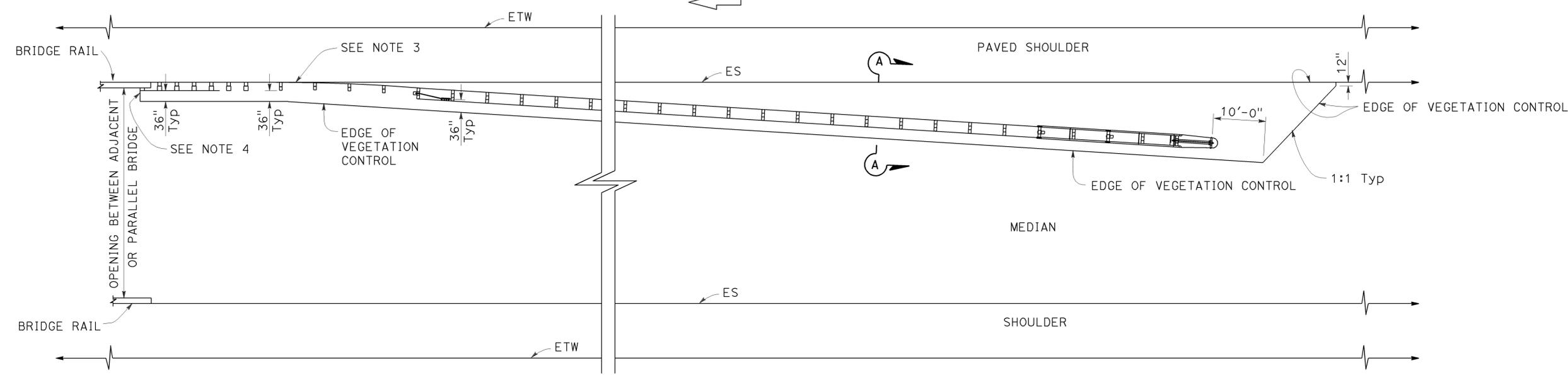
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TO ACCOMPANY PLANS DATED 4-27-15

2010 REVISED STANDARD PLAN RSP A77N7



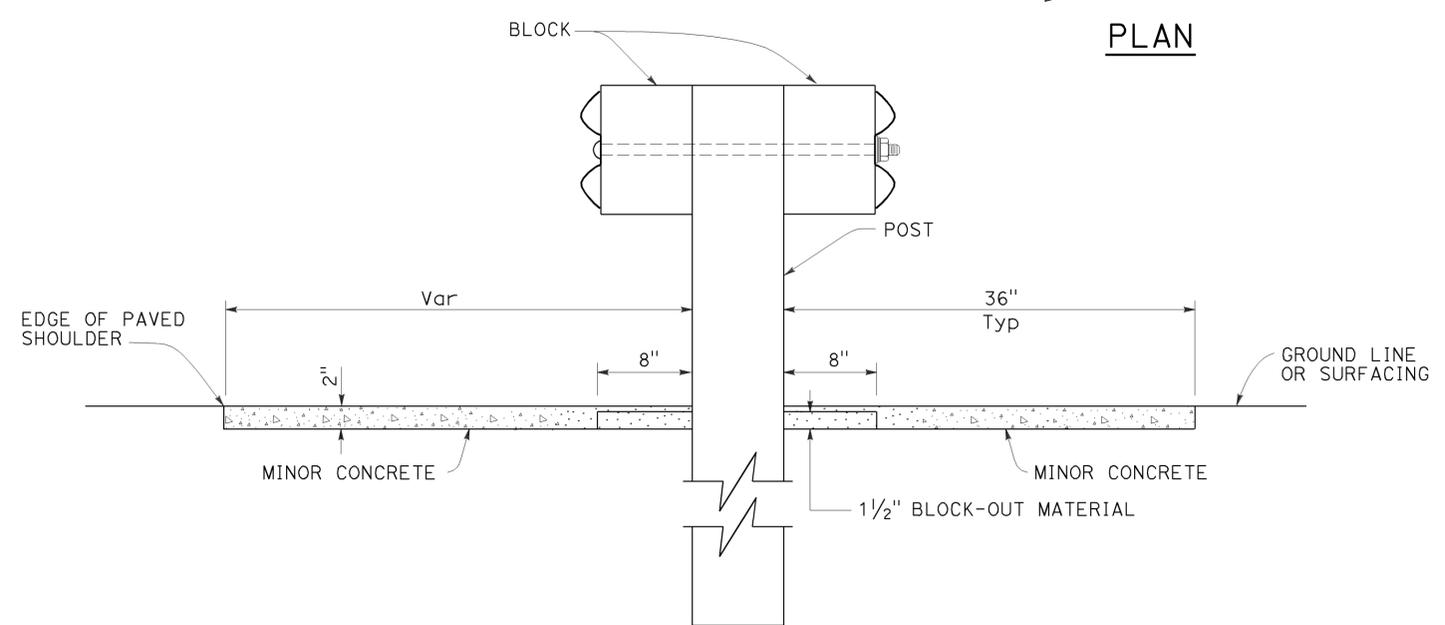
PLAN



PLAN

NOTES:

1. See Revised Standard Plan RSP A77N5 for additional vegetation control details.
2. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
3. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
4. End vegetation control at end of backside rail element.



SECTION A-A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
TYPICAL VEGETATION CONTROL
AT STRUCTURE APPROACH**

NO SCALE

RSP A77N7 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

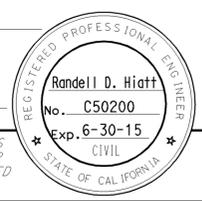
REVISED STANDARD PLAN RSP A77N7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	72	149

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

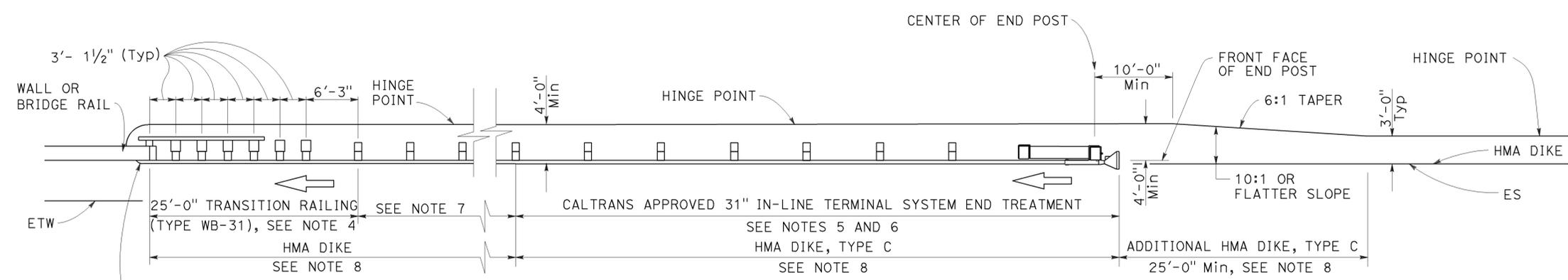
July 19, 2013
PLANS APPROVAL DATE

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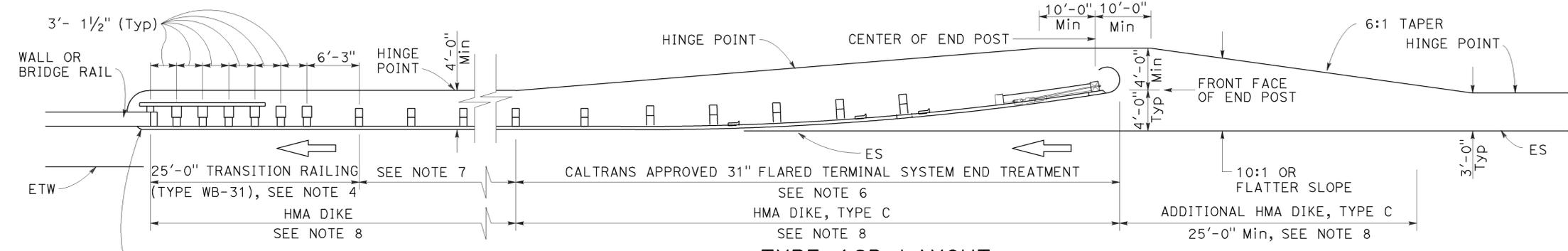
TO ACCOMPANY PLANS DATED 4-27-15

2010 REVISED STANDARD PLAN RSP A77Q1



TYPE 12A LAYOUT

(MGS installation at structure approach with 31" in-line end treatment at traffic approach end of railing)
See Notes 5 and 6
See Note 8



TYPE 12B LAYOUT

(MGS installation at structure approach with 31" Flared end treatment at traffic approach end of railing)
See Note 6
See Note 8

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans RSP A77L1, RSP A77L2, RSP A77M1, RSP A77N1 and RSP A77N2.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 12" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 12" x 1'-2" wood blocks where applicable and when specified.
- For Transition Railing (Type WB-31) details for Types 12A and 12B Layouts, see Revised Standard Plan RSP A77U4.
- 31" in-line terminal system end treatments are used where site conditions will not accommodate a 31" flared end treatment.
- The type 31" of terminal system end treatment to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, or other fixed objects), it may be advisable to construct additional guard railing (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and end treatment. A 12.5 degree angle of departure can be drawn on the Project Plans from the edge of traveled way through the outer most point of the fixed object to determine the additional length of railing needed.
- Where placement of dike is required with guard railing installations, see Revised Standard Plan RSP A77N4 for dike positioning details.
- Type 12A or Type 12B Layouts are typically used:
 - To the right of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the left of approaching traffic, at the end of a structure, on two-lane conventional highway where the roadbed width across the structure is less than 40 feet.
 - To the right of approaching traffic at the end of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
 - To the right of approaching traffic at the end of the structure on multilane freeways or expressways with decked median on the bridge.
- See Revised Standard Plan RSP A77Q3 for typical layout used left of approaching traffic at the ends of each structure on multilane freeways or expressways with separate adjacent or parallel bridges.
- For additional details of typical connections to bridge rail, see Connection Detail AA on Revised Standard Plans RSP A77U1 and RSP A77U2 and Connection Detail FF on Revised Standard Plans RSP A77V1 and RSP A77V2.
- For additional details of a typical connection to walls or abutments, see Revised Standard Plan RSP A77U3.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE APPROACH**

NO SCALE

RSP A77Q1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77Q1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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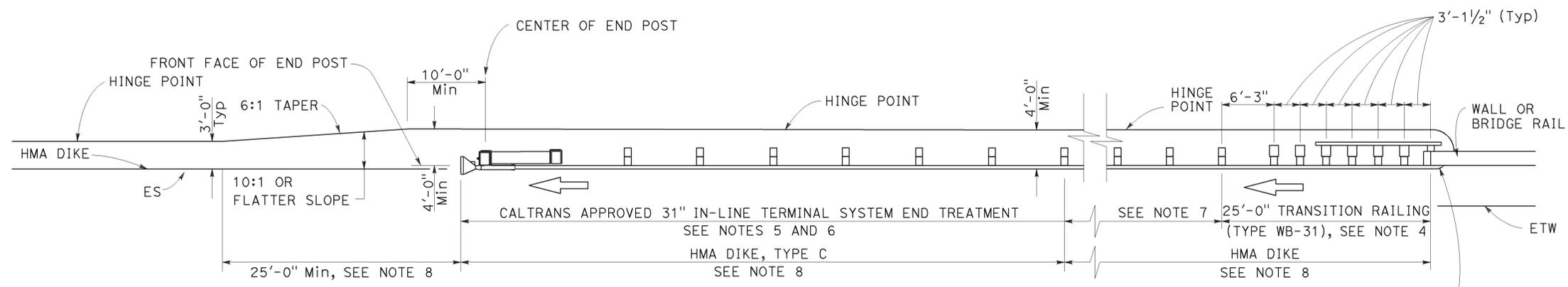
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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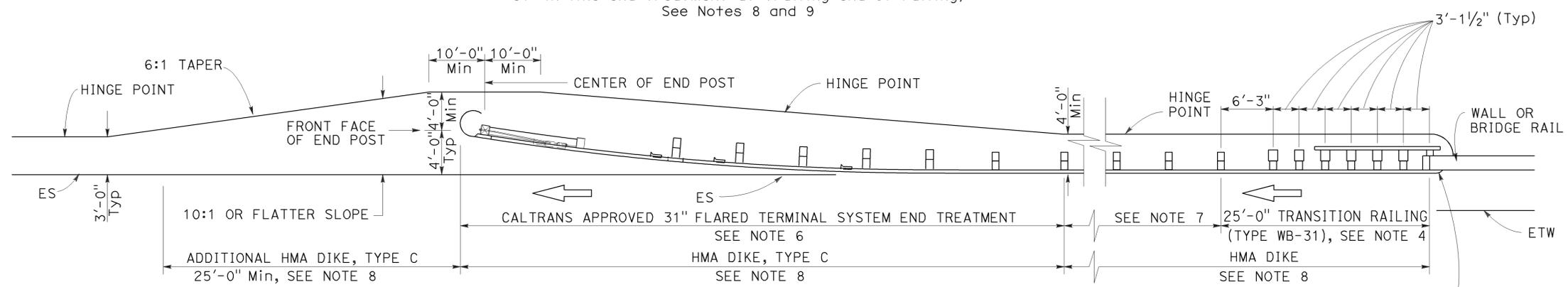
REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-27-15



TYPE 12AA LAYOUT

(MGS installation at structure departure with 31" in-line end treatment at trailing end of railing)
See Notes 8 and 9



TYPE 12BB LAYOUT

(MGS installation at structure departure with 31" flared end treatment at trailing end of railing)
See Notes 8 and 9

NOTES:

- Line post, blocks and hardware to be used are shown on Revised Standard Plans RSP A77L1, RSP A77L2, RSP A77M1, RSP A77N1 and RSP A77N2.
- MGS post spacing to be 6'-3" center to center, except as otherwise noted.
- Except as noted, line posts are 6" x 8" x 6'-0" wood with 6" x 12" x 1'-2" wood blocks. W6 x 8.5 or W6 x 9 steel posts, 6'-0" in length, with 6" x 12" x 1'-2" notched wood blocks or notched recycled plastic blocks may be used for 6" x 8" x 6'-0" wood posts with 6" x 12" x 1'-2" wood blocks where applicable and when specified.
- For Transition Railing (Type WB-31) details for Types 12AA and 12BB Layouts, see Revised Standard Plan RSP A77U4.
- 31" in-line terminal system treatments are used where site conditions will not accommodate a 31" flared end treatment.
- The type of 31" terminal system to be used will be shown on the Project Plans.
- Dependent on site conditions (embankment height, side slopes, other fixed objects), it may be advisable to construct additional MGS (a length equal to multiples of 12'-6" with 6'-3" post spacing) between the transition railing and 31" end treatments.
- Where placement of dike is required with MGS installations, see Revised Standard Plan RSP A77N4 for dike positioning details.
- Type 12AA or Type 12BB Layouts are typically used to the right of traffic departing a structure on two-way conventional highways where the roadbed width across the structure is less than 40 feet.
- For additional details of typical connections to bridge rail, see Connection Detail CC on Revised Standard Plan RSP A77U2 and Connection Detail HH on Revised Standard Plan RSP A77V2.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
TYPICAL LAYOUTS FOR
STRUCTURE DEPARTURE**
NO SCALE

RSP A77Q4 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77Q4

2010 REVISED STANDARD PLAN RSP A77Q4

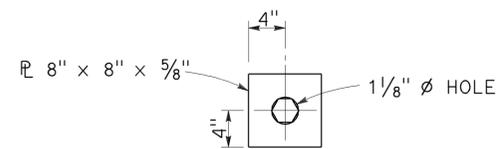
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	74	149

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

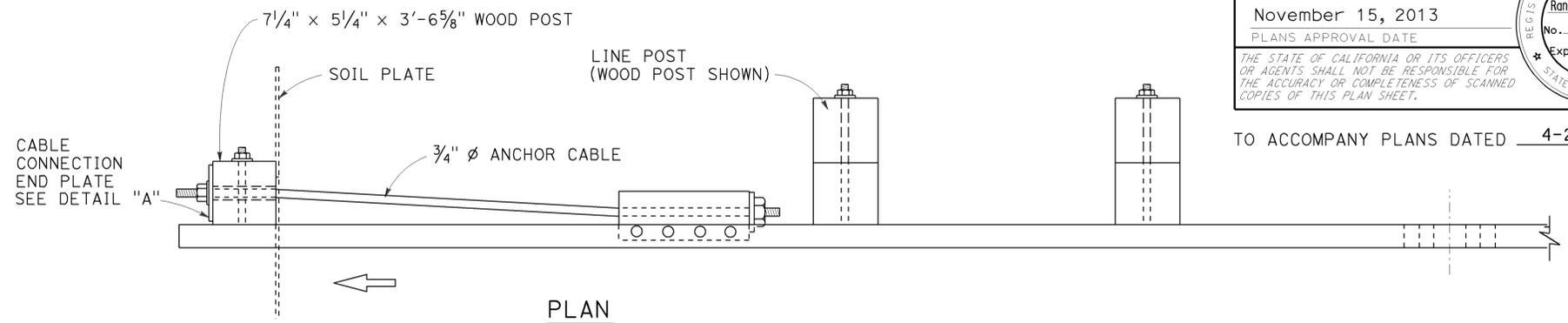
November 15, 2013
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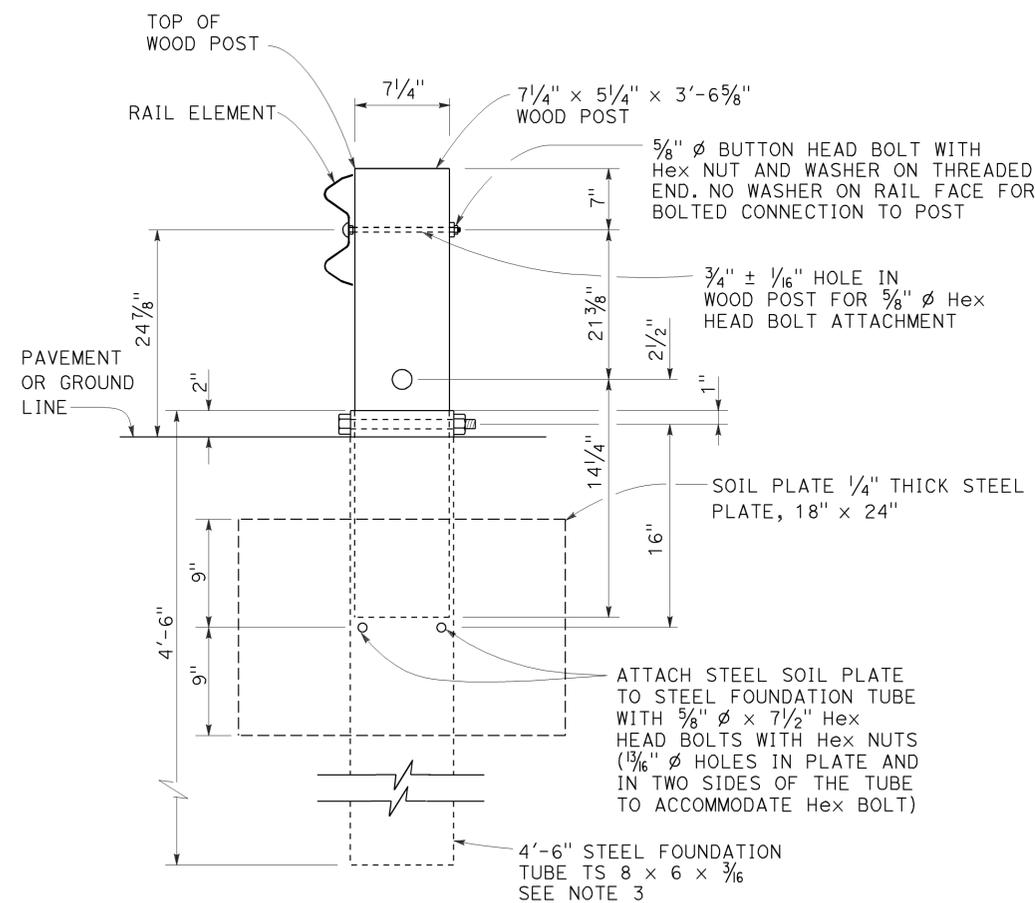
TO ACCOMPANY PLANS DATED 4-27-15



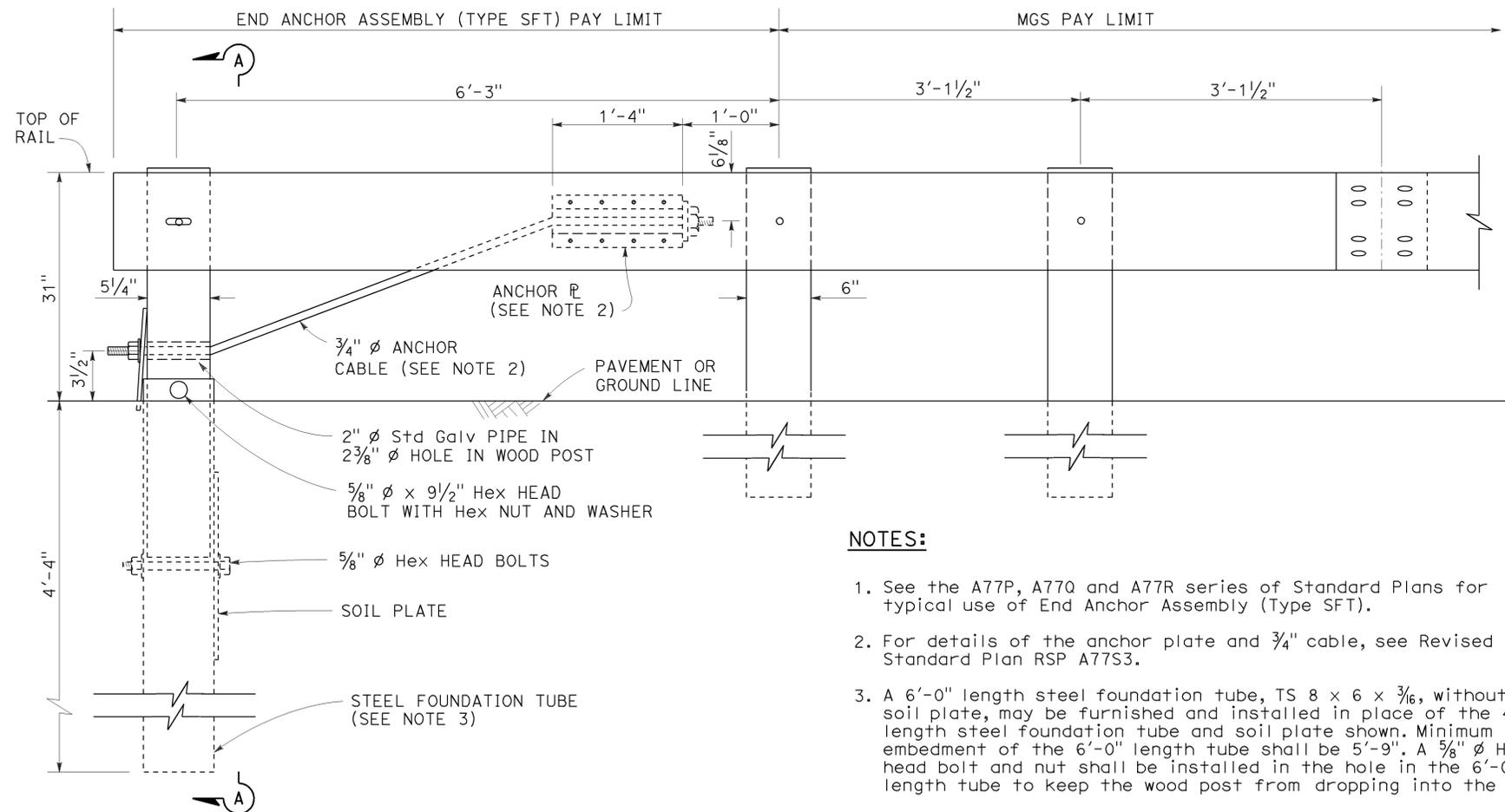
DETAIL "A"
CABLE CONNECTION
END PLATE



PLAN



SECTION A-A



ELEVATION

END ANCHOR
ASSEMBLY (TYPE SFT)

See Note 1

NOTES:

1. See the A77P, A77Q and A77R series of Standard Plans for typical use of End Anchor Assembly (Type SFT).
2. For details of the anchor plate and 3/4 inch cable, see Revised Standard Plan RSP A77S3.
3. A 6'-0" length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8 inch diameter Hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
4. Install line post, steel foundation tube and soil plate in soil.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM
END ANCHOR ASSEMBLY
(TYPE SFT)

NO SCALE

RSP A77S1 DATED NOVEMBER 15, 2013 SUPERSEDES RSP A77S1
DATED JULY 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77S1

2010 REVISED STANDARD PLAN RSP A77S1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	75	149

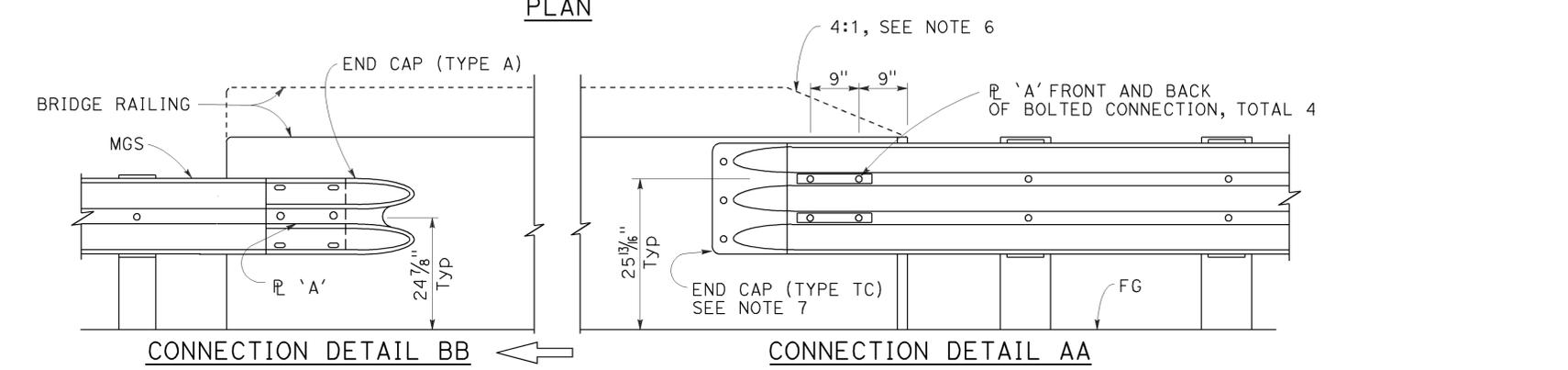
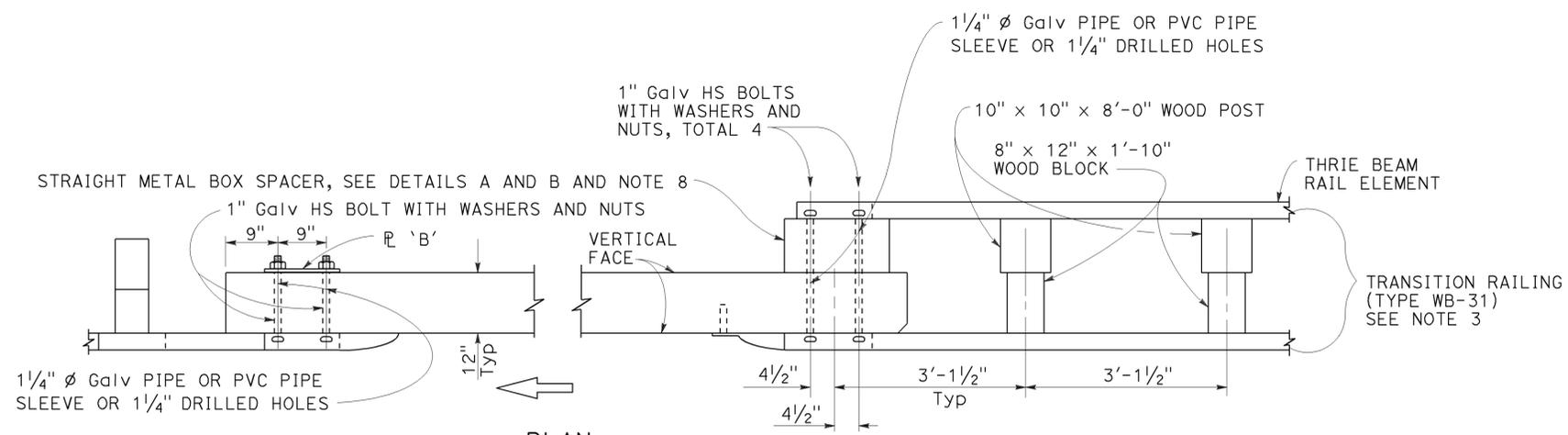
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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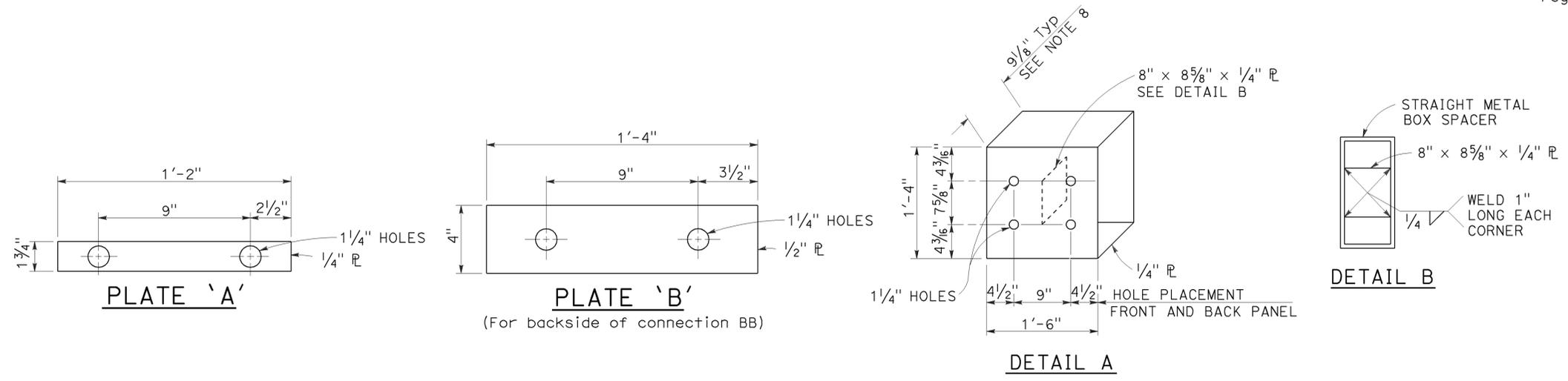
TO ACCOMPANY PLANS DATED 4-27-15



MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77U2 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
4. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1, Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2, and Layout Type 12E on Revised Standard Plan RSP A77Q3.
5. For typical use of Connection Detail BB, see Layout Type 12D (structure departure railing connection) on Revised Standard Plan RSP A77Q2 and Layout Type 12DD on Revised Standard Plan RSP A77Q5.
6. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail.
7. For details of End Cap (Type TC), see Revised Standard Plan RSP A77U4.
8. See Revised Standard Plan RSP A77U4 for additional details regarding depth dimension for straight metal box spacer.



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS

DETAILS No. 1

NO SCALE

RSP A77U1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U1

2010 REVISED STANDARD PLAN RSP A77U1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	76	149

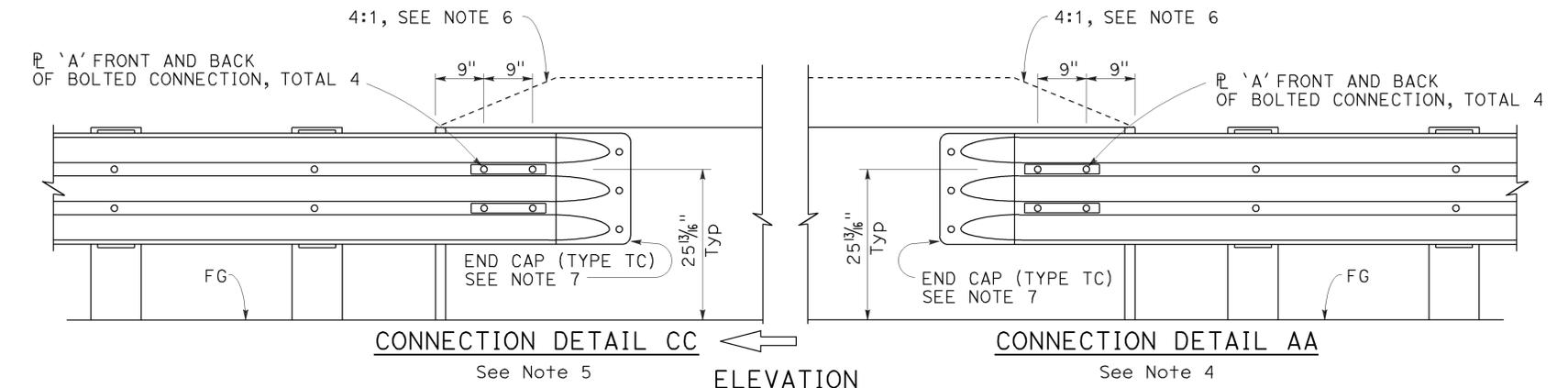
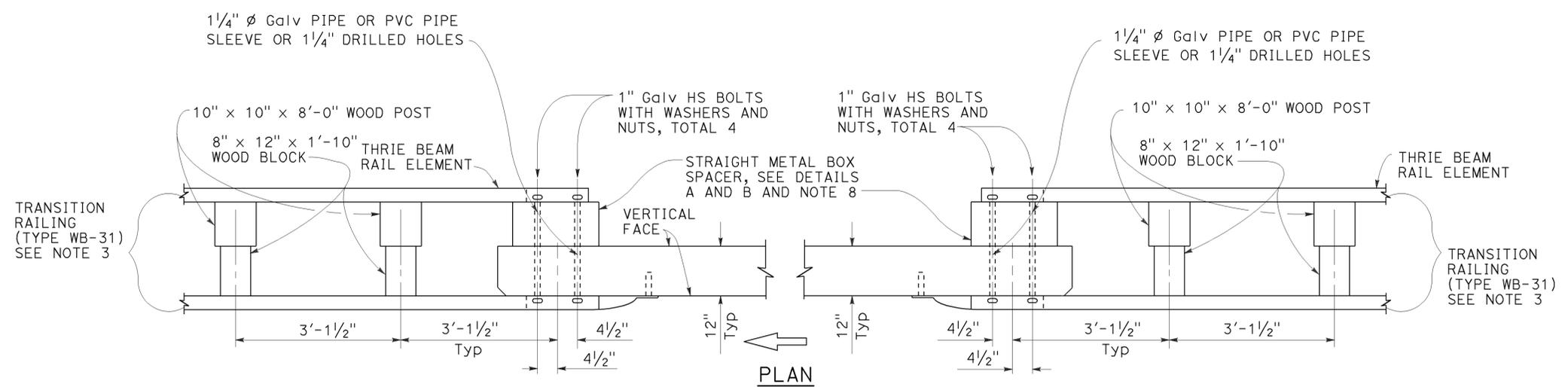
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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STATE OF CALIFORNIA

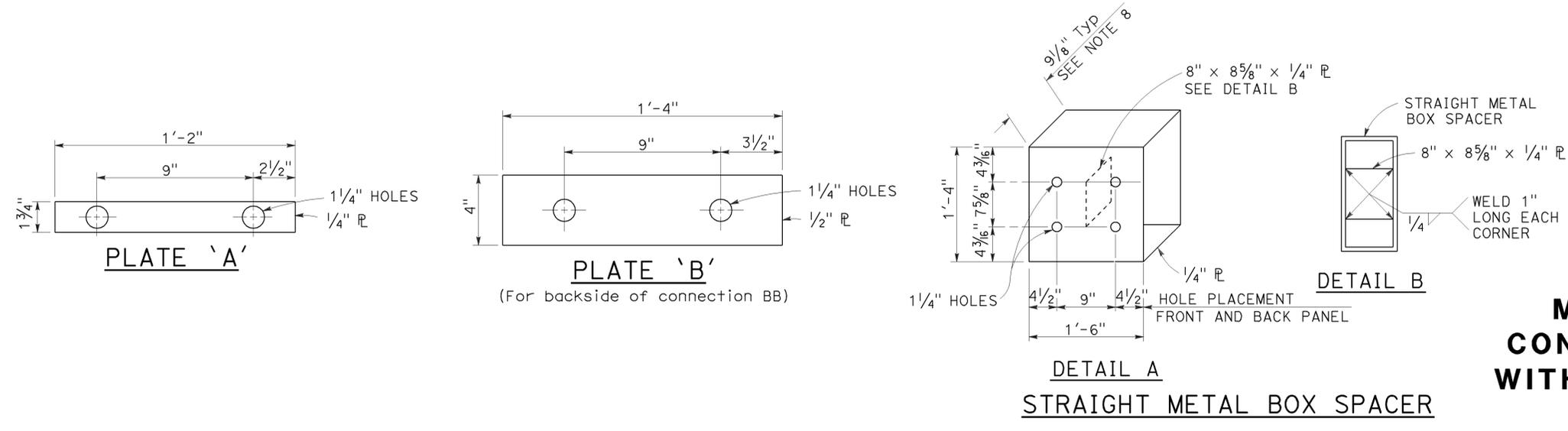
TO ACCOMPANY PLANS DATED 4-27-15



MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITHOUT SIDEWALK

NOTES:

1. See Revised Standard Plan RSP A77U1 for additional connection details to bridges without sidewalks.
2. Additional details of posts, blocks and hardware are shown on Revised Standard Plans RSP A77M1, RSP A77N1 and RSP A77N2.
3. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested thrie beam railing section which is connected to the concrete bridge railing.
4. For typical use of Connection Detail AA, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1, Layout Types 12C and 12D on Revised Standard Plan RSP A77Q2, and Layout Type 12E on Revised Standard Plan RSP A77Q3.
5. For typical use of Connection Detail CC, see Layout Types 12AA and 12BB on Revised Standard Plan RSP A77Q4 and Layout Type 12CC on Revised Standard Plan RSP A77Q5.
6. Where the height of the bridge railing exceeds the height of the thrie beam railing by more than 1" at Connection Detail AA and connection Detail CC, taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam railing.
7. For details of End Cap (Type TC), see Revised Standard Plan RSP A77U4.
8. See Revised Standard Plan RSP A77U4 for additional details regarding depth dimension for straight metal box spacer.



MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 2

NO SCALE

RSP A77U2 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U2

2010 REVISED STANDARD PLAN RSP A77U2

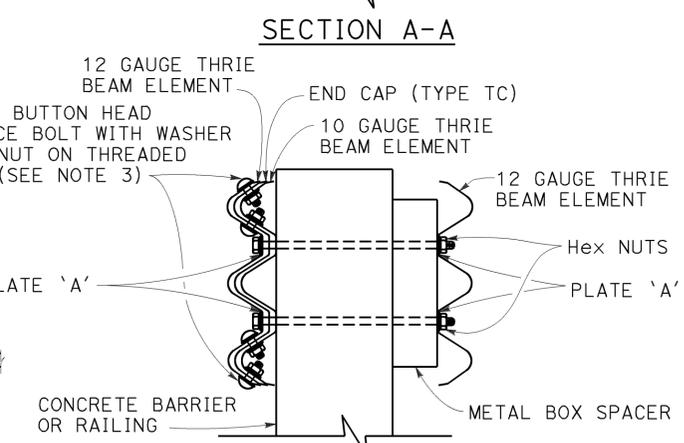
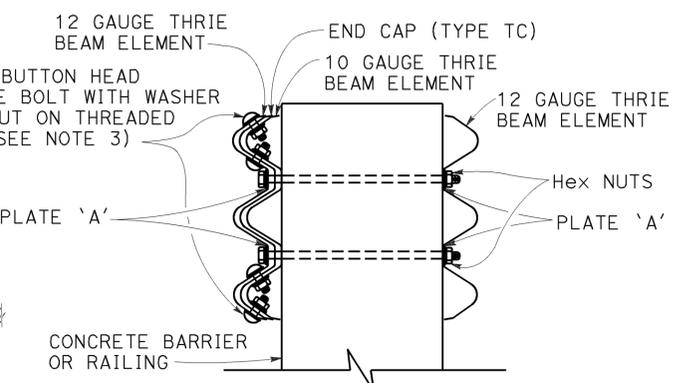
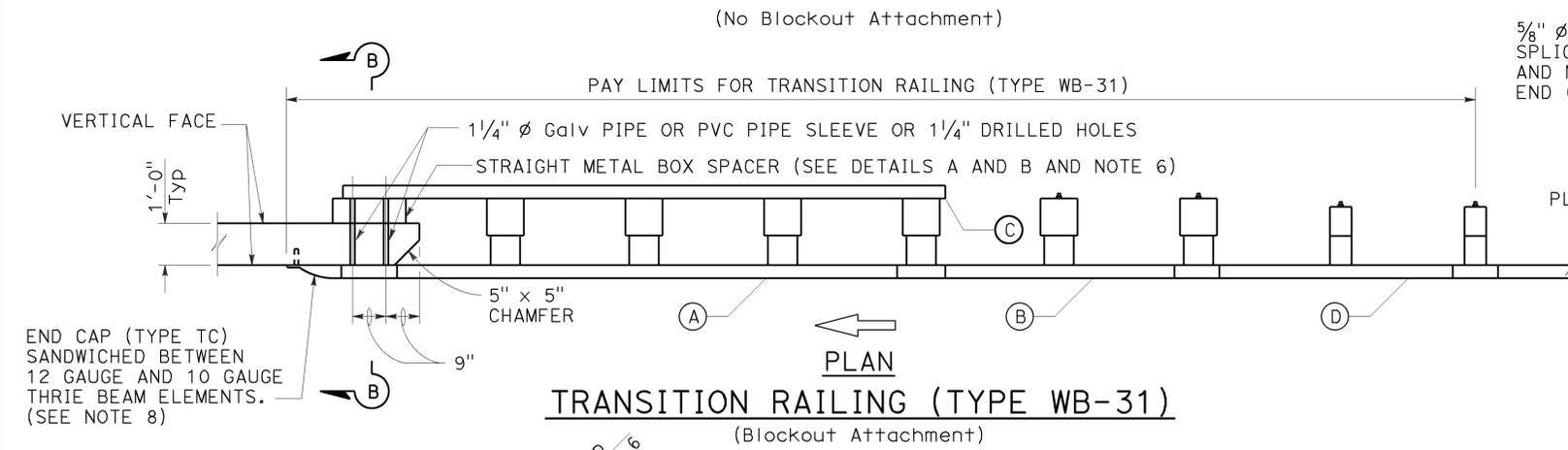
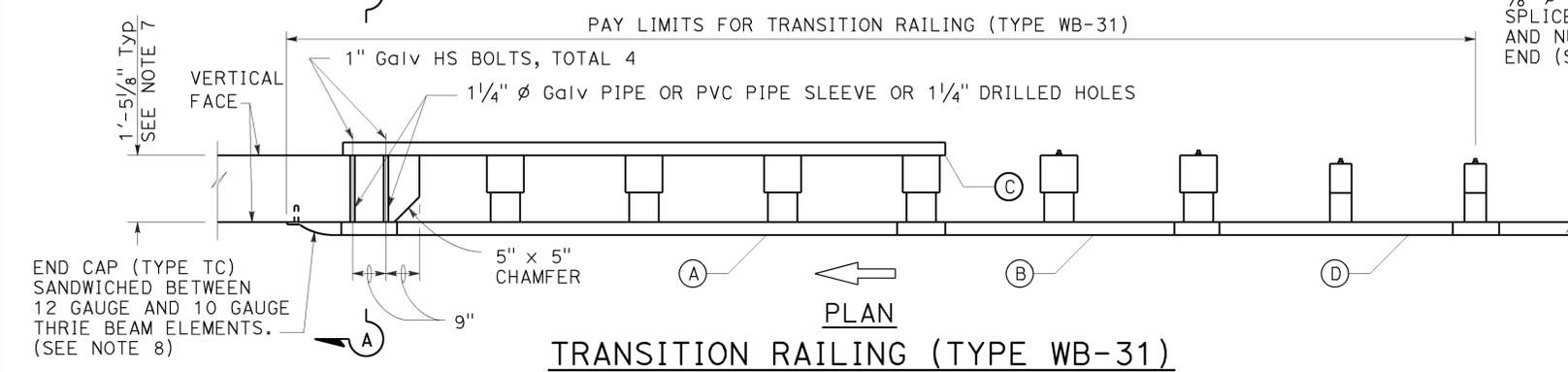
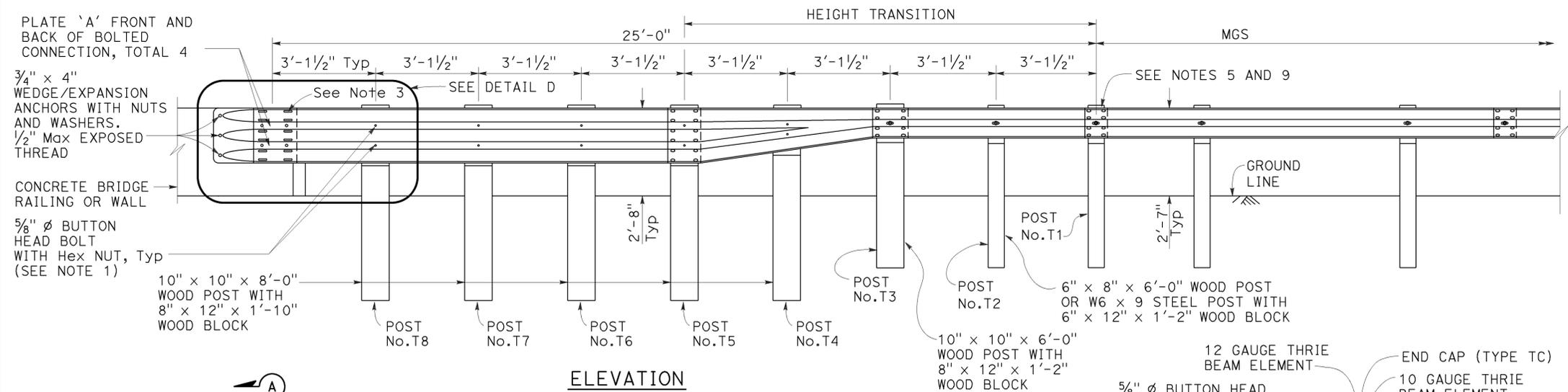
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	77	149

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

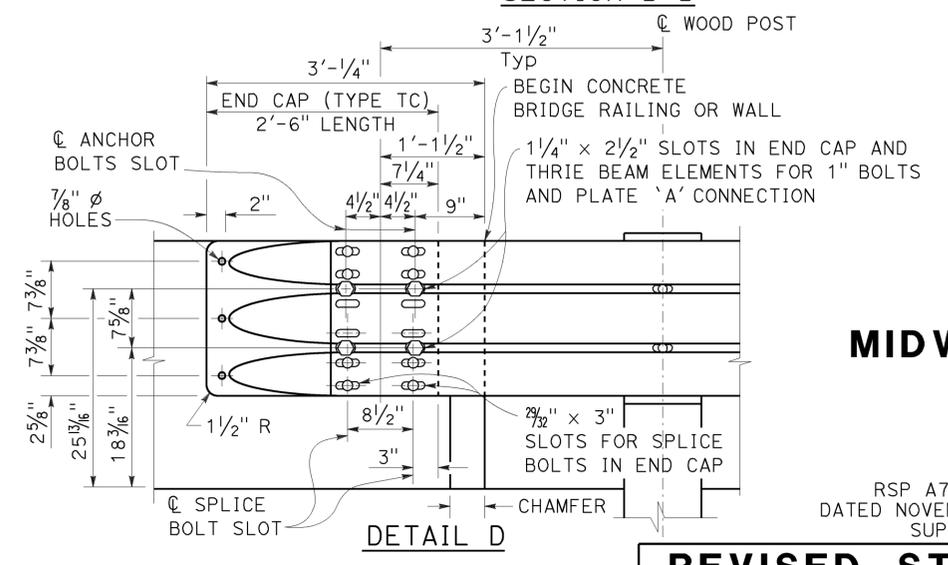
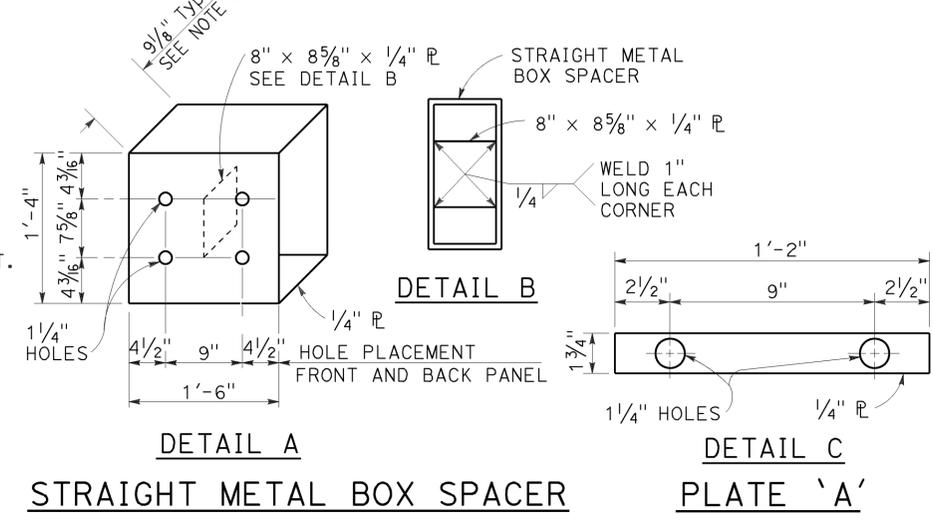
January 23, 2015
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA



- LEGEND:**
- (A) NESTED THRIE BEAM ELEMENTS (ONE 12 GAUGE ELEMENT NESTED OVER ONE 10 GAUGE ELEMENT).
 - (B) ONE ASYMMETRICAL 10 GAUGE "W" BEAM TO THRIE BEAM ELEMENT.
 - (C) ONE 12 GAUGE THRIE BEAM ELEMENT.
 - (D) ONE 10 GAUGE "W" BEAM RAIL ELEMENT (7'-3/2" LENGTH)
- 10 GAUGE = 0.138" THICK
12 GAUGE = 0.108" THICK



- NOTES:** TO ACCOMPANY PLANS DATED 4-27-15
1. Use 5/8" ϕ Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 2. The nested rail elements, end cap, and "W" beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
 3. Exterior splice bolt holes for rail element splices at Post No. T5 and the connection to the concrete barrier or railing shall be the standard 29/32" x 1/8" slot size. Interior splice bolt holes at these locations may be increased up to 1/4" ϕ . Only the top 4 and the bottom 4 splice bolts with washers and nuts are required for rail splices at Post No. T5 and the connection to the concrete barrier or railing.
 4. The top elevation of Posts No. T2 through No. T7 shall not project more than 1" above the top elevation of the rail element.
 5. Typically, the railing connected to Transition Railing (Type WB-31) will be either standard railing section of MGS with height transition ratio of 150:1 or a Caltrans approved 31" end treatment attached to Post No. T1.
 6. The depth of the metal box spacer varies from the 9/8" to 1/2" and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 21 1/8". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2", metal plates similar to Plate 'A' are to be used as spacers.
 7. Where the width of the concrete railing or wall is greater than 17 1/8", wood blocks are to be used to fill the space created between the backside of Posts No. T5 through No. T8 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
 8. End cap may be installed over 12 gauge and 10 gauge thrie beam elements where transition railing is installed on the departure end of bridge railing.
 9. Conform standard railing section height to 31" at Post No. T1 using height transition ratio of 150:1.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TRANSITION RAILING
(TYPE WB-31)**

NO SCALE

RSP A77U4 DATED JANUARY 23, 2015 SUPERSEDES RSP A77U4
DATED NOVEMBER 15, 2013 AND RSP A77U4 DATED JULY 19, 2013 THAT
SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U4

2010 REVISED STANDARD PLAN RSP A77U4

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	78	149

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

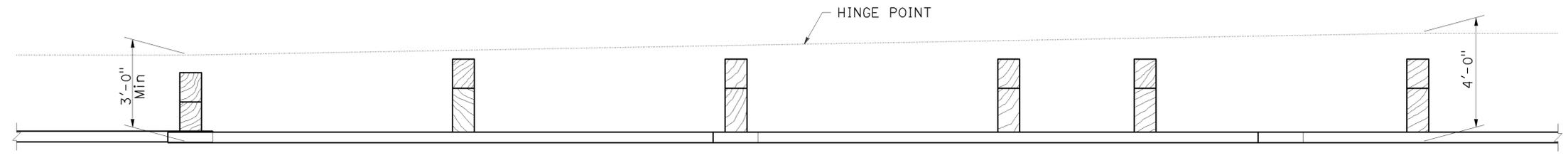
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

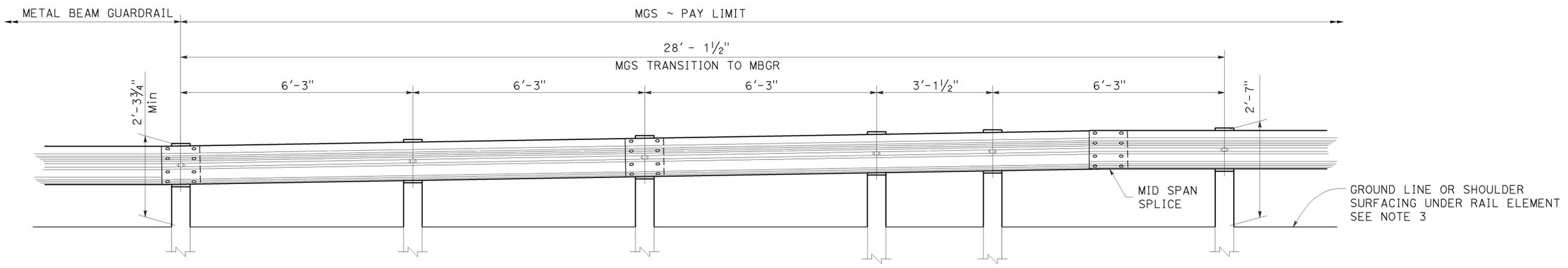
TO ACCOMPANY PLANS DATED 4-27-15

NOTES:

1. Refer to Revised Standard Plans RSP A77L1 and RSP A77L2 for component details for MGS not shown on this plan.
2. All posts for any standard barrier run shall be of the same type: Wood or Steel.
3. Install posts in soil.



PLAN



ELEVATION

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
TRANSITION TO METAL BEAM GUARDRAIL**

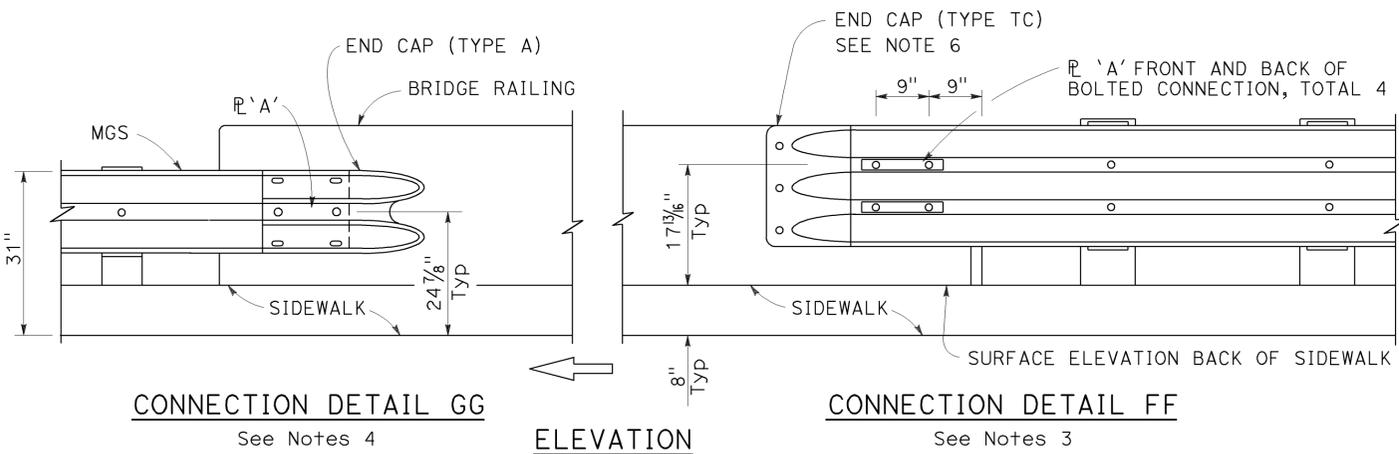
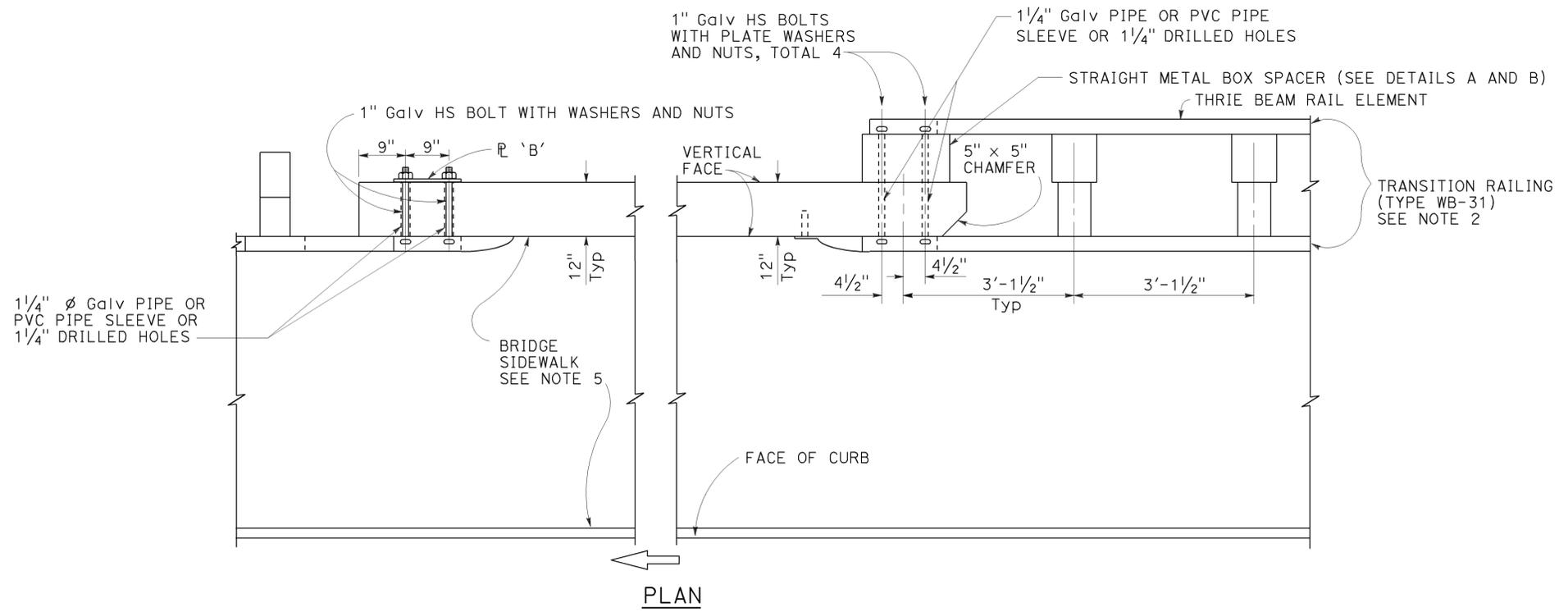
NO SCALE

RSP A77U5 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77U5

2010 REVISED STANDARD PLAN RSP A77U5

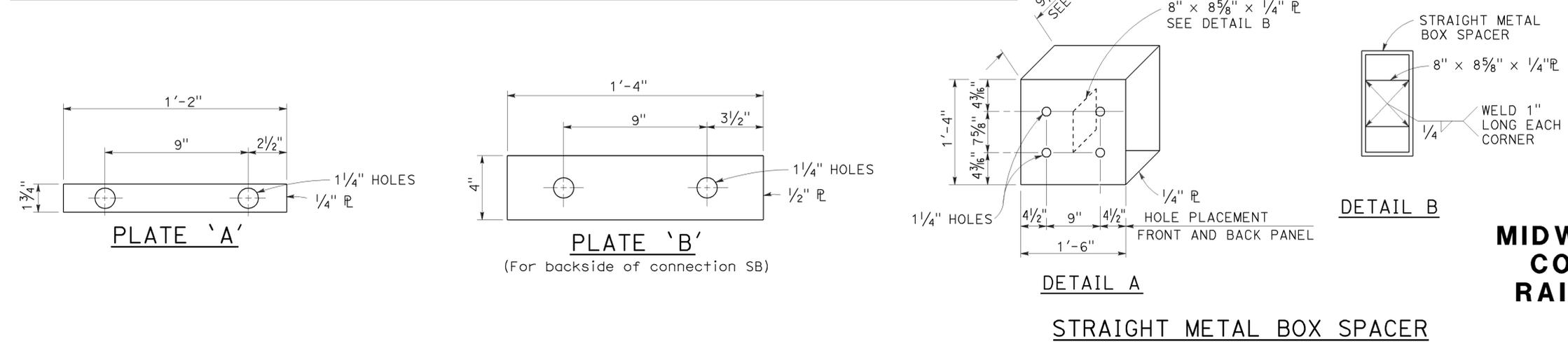
TO ACCOMPANY PLANS DATED 4-27-15



NOTES:

1. See Revised Standard Plan RSP A77V2 for additional connection details to bridges with sidewalks.
2. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested three beam railing section which is connected to the concrete bridge railing.
3. For typical use of Connection Detail FF, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1.
4. For typical use of Connection Detail GG, see Layout Type 12D on Revised Standard Plan RSP A77Q2 and Layout Type 12DD on Revised Standard Plan RSP A77Q5.
5. Where the bridge sidewalk is not continued beyond the end of the bridge railing, the portion of the sidewalk beyond each end of the bridge railing shall be transitioned down from the top elevation of the sidewalk, for its entire width, to the finished grade of the adjacent roadbed. The longitudinal slope of each sidewalk elevation transition shall not exceed 8.33 percent.
6. For details of End Cap (Type TC), see Revised Standard Plan RSP A77U4.
7. See Revised Standard Plan RSP A77U4 for additional details regarding depth dimension for straight metal box spacer.

MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITH SIDEWALKS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**MIDWEST GUARDRAIL SYSTEM
CONNECTIONS TO BRIDGE
RAILINGS WITH SIDEWALKS
DETAILS No. 1**

NO SCALE

RSP A77V1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A77V1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	80	149

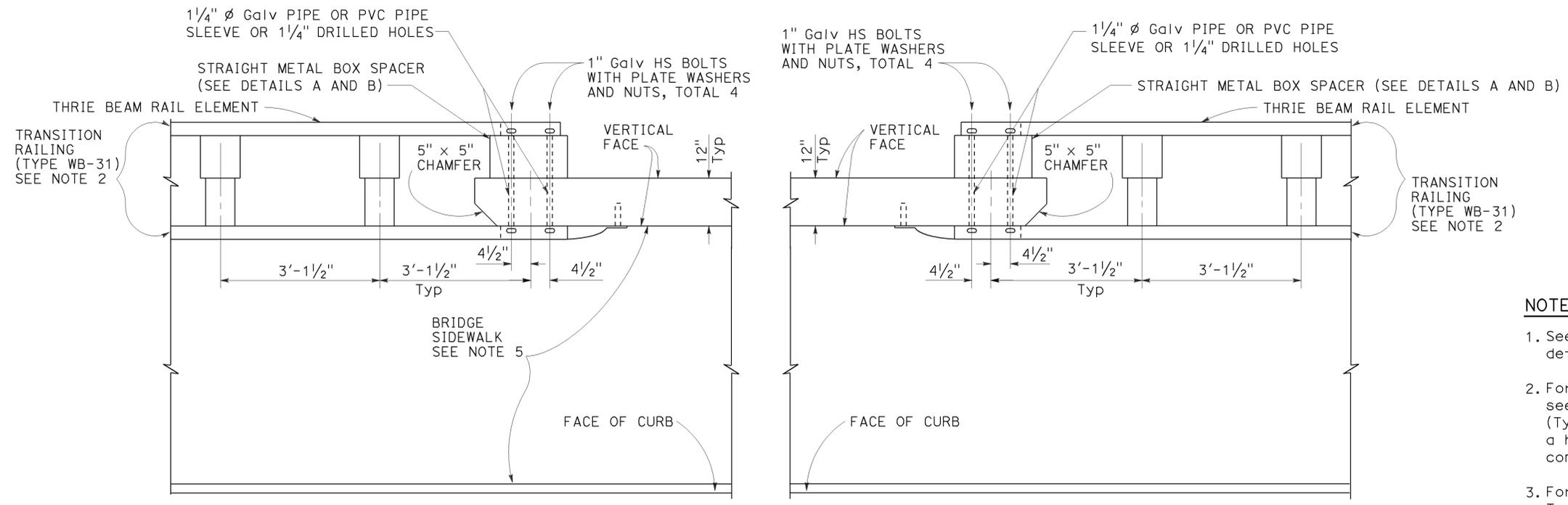
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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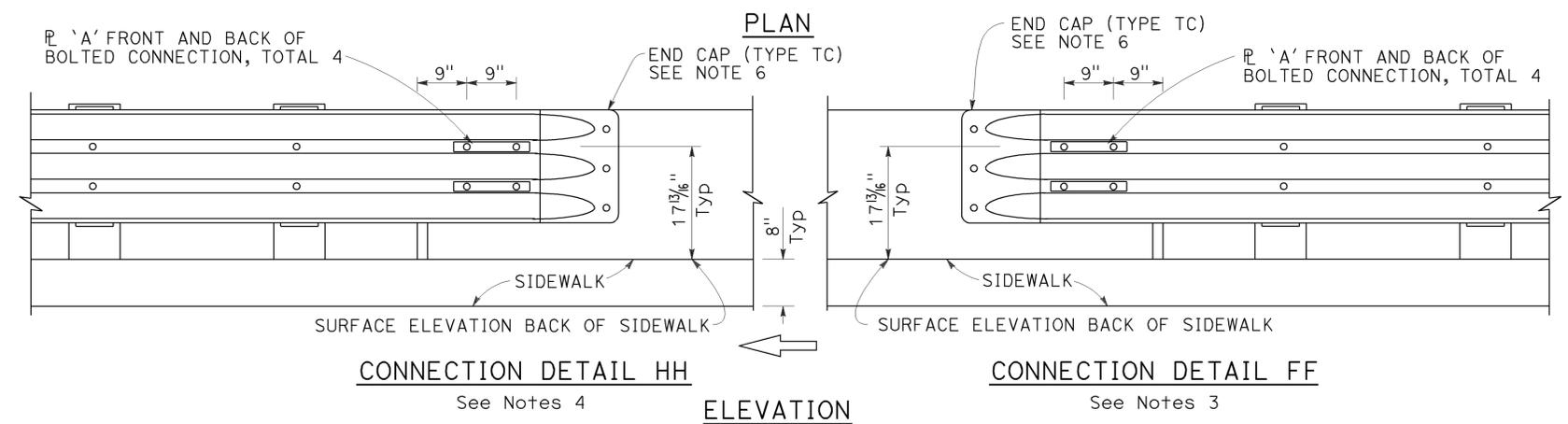
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-27-15

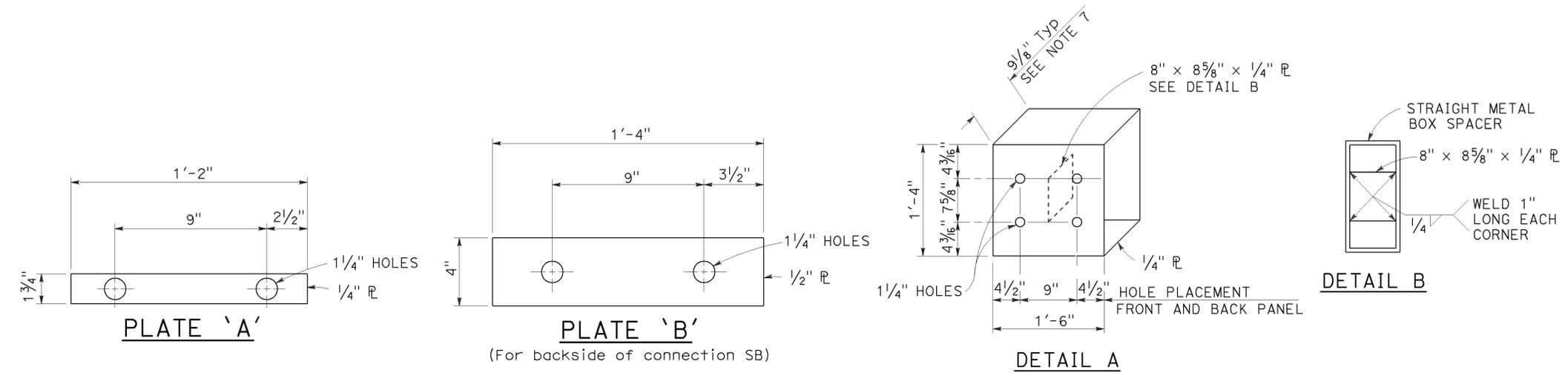


NOTES:

1. See Revised Standard Plan RSP A77V1 for additional connection details to bridges with sidewalks.
2. For additional details of Transition Railing (Type WB-31), see Revised Standard Plan RSP A77U4. Transition Railing (Type WB-31) transitions the 12 gauge MGS railing section to a heavier gage nested three beam railing section which is connected to the concrete bridge railing.
3. For typical use of Connection Detail FF, see Layout Types 12A and 12B on Revised Standard Plan RSP A77Q1.
4. For typical use of Connection Detail HH, see Layout Types 12AA and 12BB on Revised Standard Plan RSP A77Q4.
5. Where the bridge sidewalk is not continued beyond the end of the bridge railing, the portion of the sidewalk beyond each end of the bridge railing shall be transitioned down from the top elevation of the sidewalk, for its entire width, to the finished grade of the adjacent roadbed. The longitudinal slope of each sidewalk elevation transition shall not exceed 8.33 percent.
6. For details of End Cap (Type TC), see Revised Standard Plan RSP A77U4.
7. See Revised Standard Plan RSP A77U4 for additional details regarding depth dimension for straight metal box spacer.



MIDWEST GUARDRAIL SYSTEM CONNECTION TO BRIDGE RAILING WITH SIDEWALKS



STRAIGHT METAL BOX SPACER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITH SIDEWALKS DETAILS No. 2

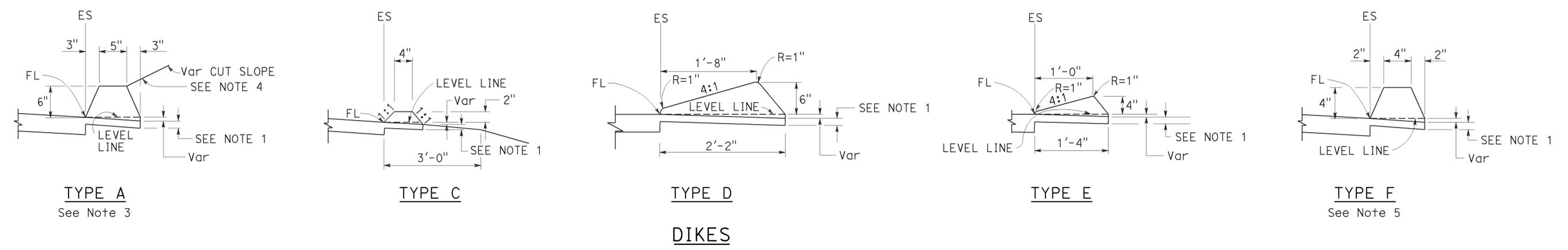
NO SCALE

RSP A77V2 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77V2

2010 REVISED STANDARD PLAN RSP A77V2

TO ACCOMPANY PLANS DATED 4-27-15



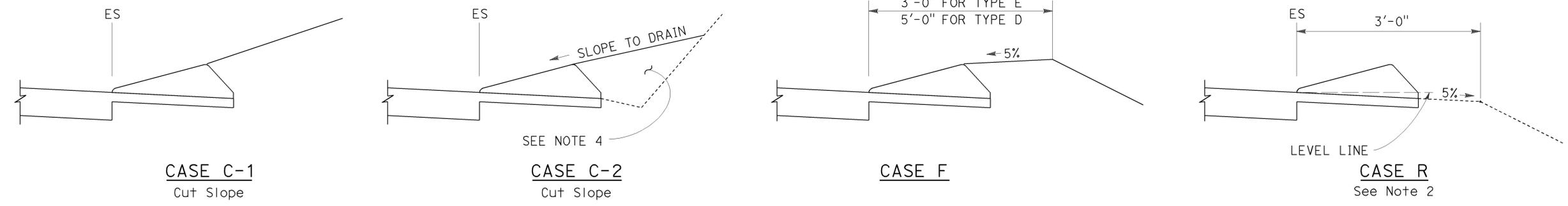
TYPE A
See Note 3

TYPE C

TYPE D

TYPE E

TYPE F
See Note 5



CASE C-1
Cut Slope

CASE C-2
Cut Slope

CASE F

CASE R
See Note 2

NOTES:

- For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
- Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
- Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
- Fill and compact with excavated material to top of dike.
- Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES
NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B
DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	82	149

Glenn DeCou
REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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2010 REVISED STANDARD PLAN RSP D73

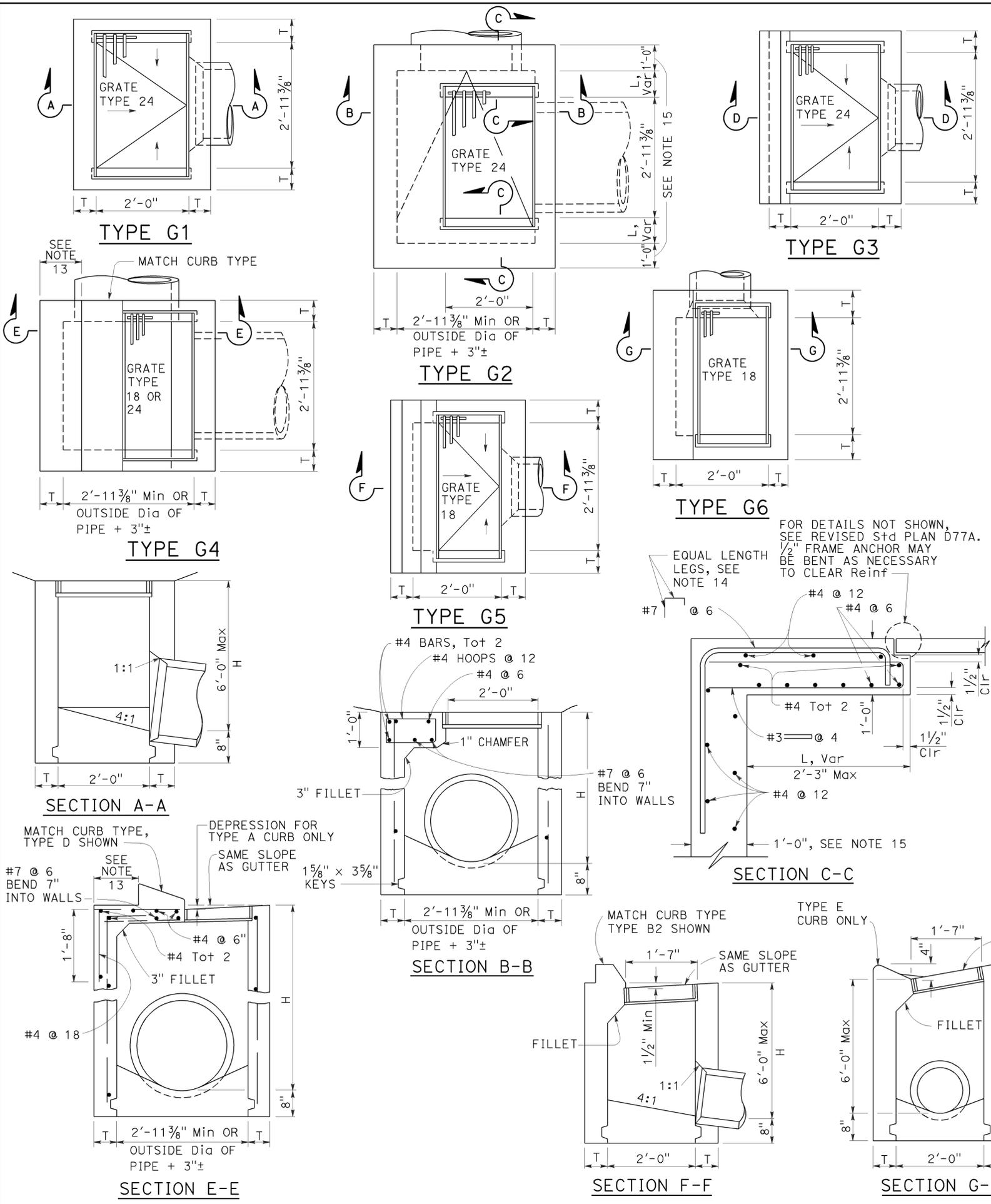


TABLE A

CONCRETE QUANTITIES

TYPE	H=3'-0" TO 8'-0" (T=6")		H=8'-1" TO 20'-0" (T=8")	
	H=3'-0" (CY)	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
G-1	0.95	0.220	See Note A	SEE NOTE A
G-2*	1.31	0.255	3.50	0.357
G-3	1.03	0.220	See Note A	SEE NOTE A
G-4* (TYPE 24)	1.27	0.255	3.48	0.357
G-4* (TYPE 18)	1.30	0.255	3.50	0.357
G-5	1.02	0.220	SEE NOTE A	SEE NOTE A
G-6	1.04	0.220	SEE NOTE A	SEE NOTE A

TABLE BASED ON 8" FLOOR SLAB. NO DEDUCTIONS ARE TO BE MADE TO THESE QUANTITIES BECAUSE OF PIPE OPENINGS, DIFFERENT FLOOR ALTERNATIVES OR DIFFERENT CURB TYPES. * QUANTITIES FOR TYPE G-2 AND G-4 INLETS BASED ON THE MINIMUM INTERIOR DIMENSIONS.

NOTE A:
Maximum allowable height 6'-0".

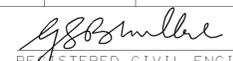
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

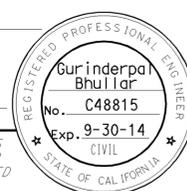
DRAINAGE INLETS
NO SCALE

RSP D73 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN D73 DATED MAY 20, 2011 - PAGE 156 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP D73

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	84	149


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 4-27-15

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		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	Z **		
					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%
		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 recommended 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.

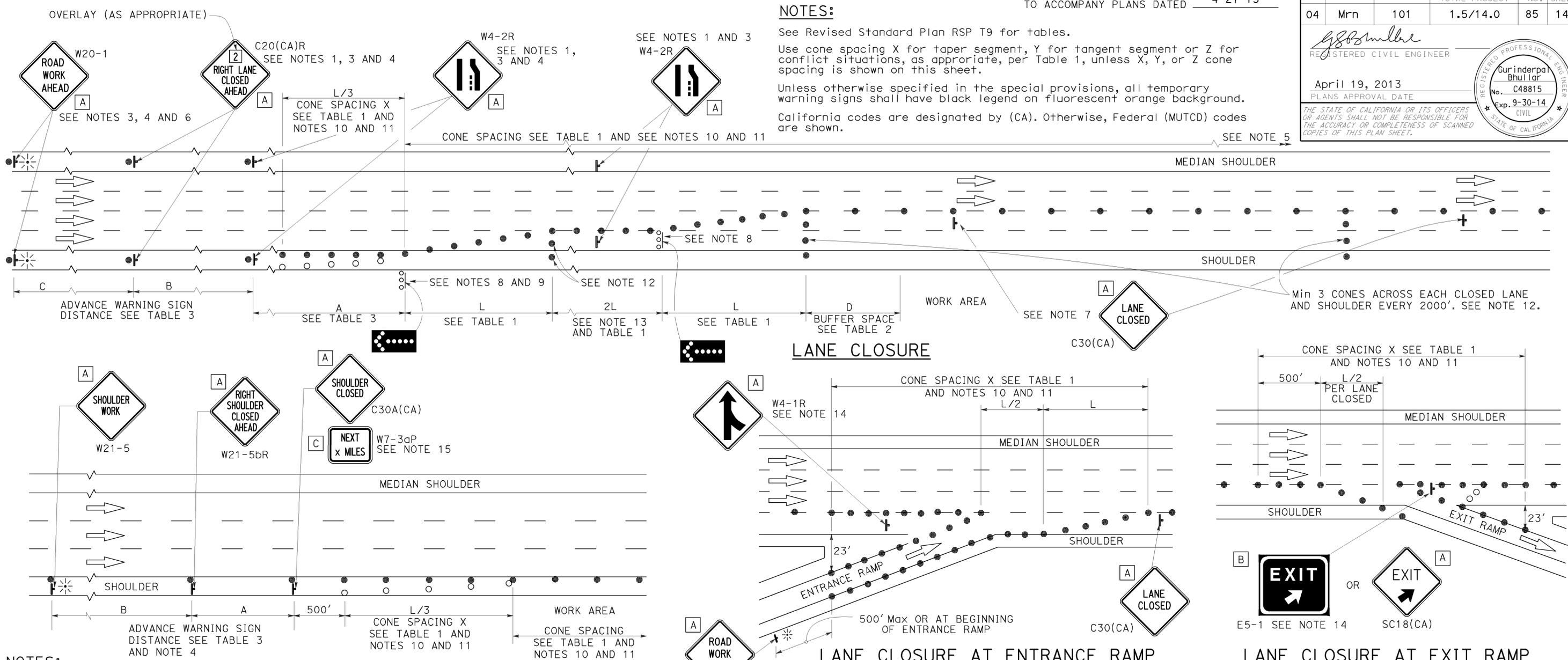
REVISED STANDARD PLAN RSP T9

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	85	149

REGISTERED CIVIL ENGINEER
 April 19, 2013
 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.

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



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway 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.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) "NEXT _____ MILES" sign for the first advance warning sign.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⬢ FLASHING ARROW SIGN (FAS)
- ⬢ FAS SUPPORT OR TRAILER
- ⚡ PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 72" x 60"
- C 36" x 30"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS
 NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

NOTES:

See Revised Standard Plan RSP T9 for tables.

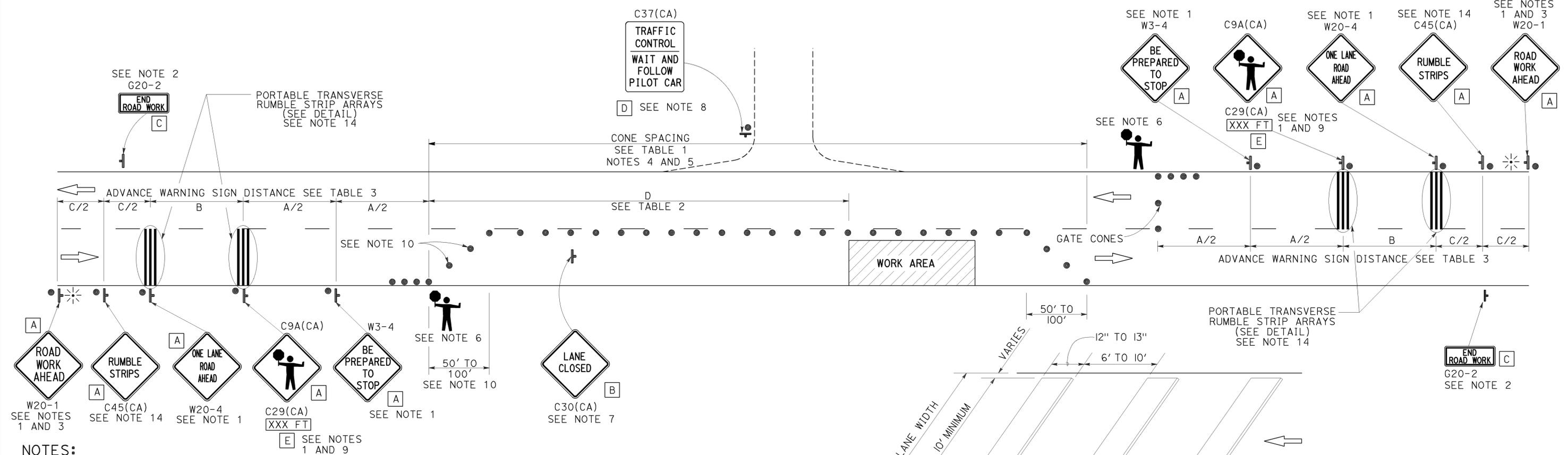
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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.

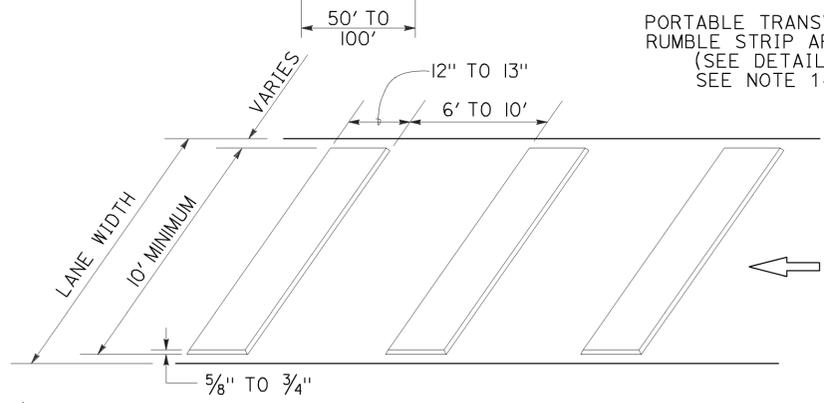
TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 4-27-15



- NOTES:**
- 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.
 - 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.
 - 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.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
 - 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.

- 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.
- 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.
- An optional C29(CA) sign may be placed below the C9A(CA) sign.
- Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
- The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
- Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
- If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
- Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions



SIGN PANEL SIZE (Min)

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

LEGEND

- TRAFFIC CONE
- ⊥ TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS**

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014
AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED
MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T13

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	87	149

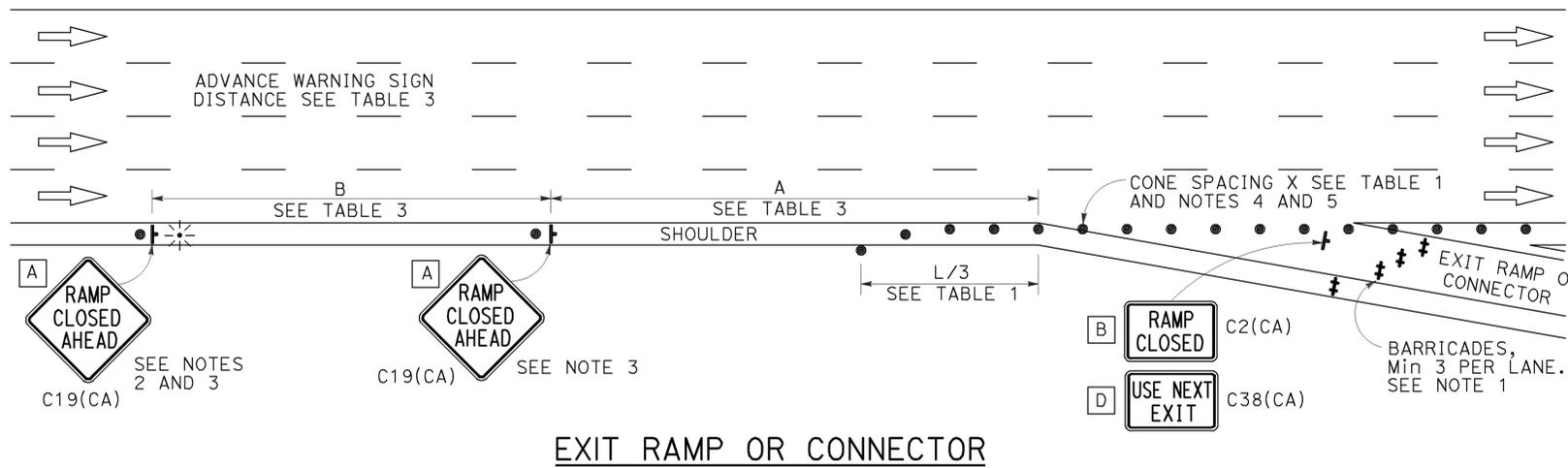
Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

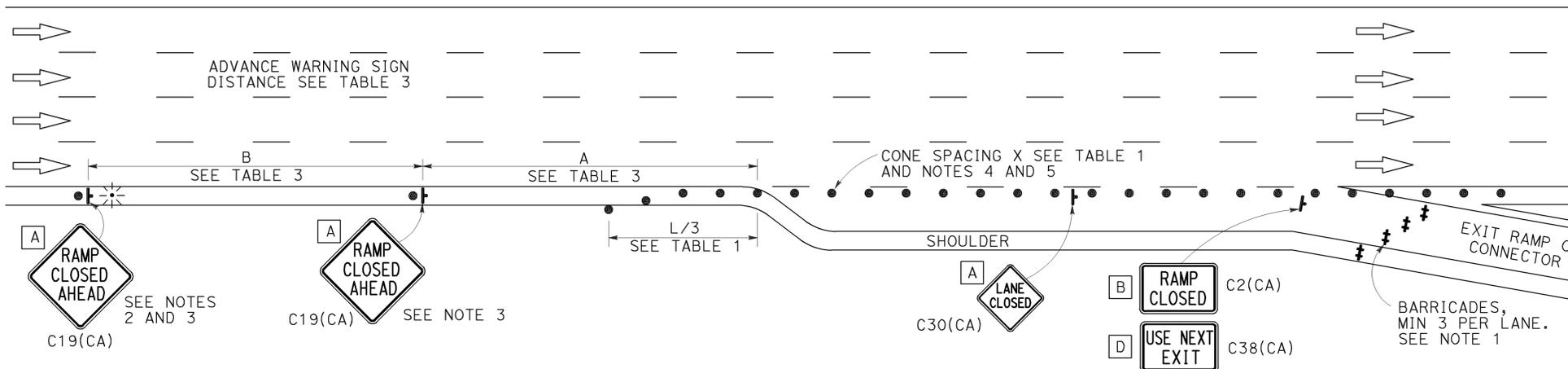
TO ACCOMPANY PLANS DATED 4-27-15

NOTES:

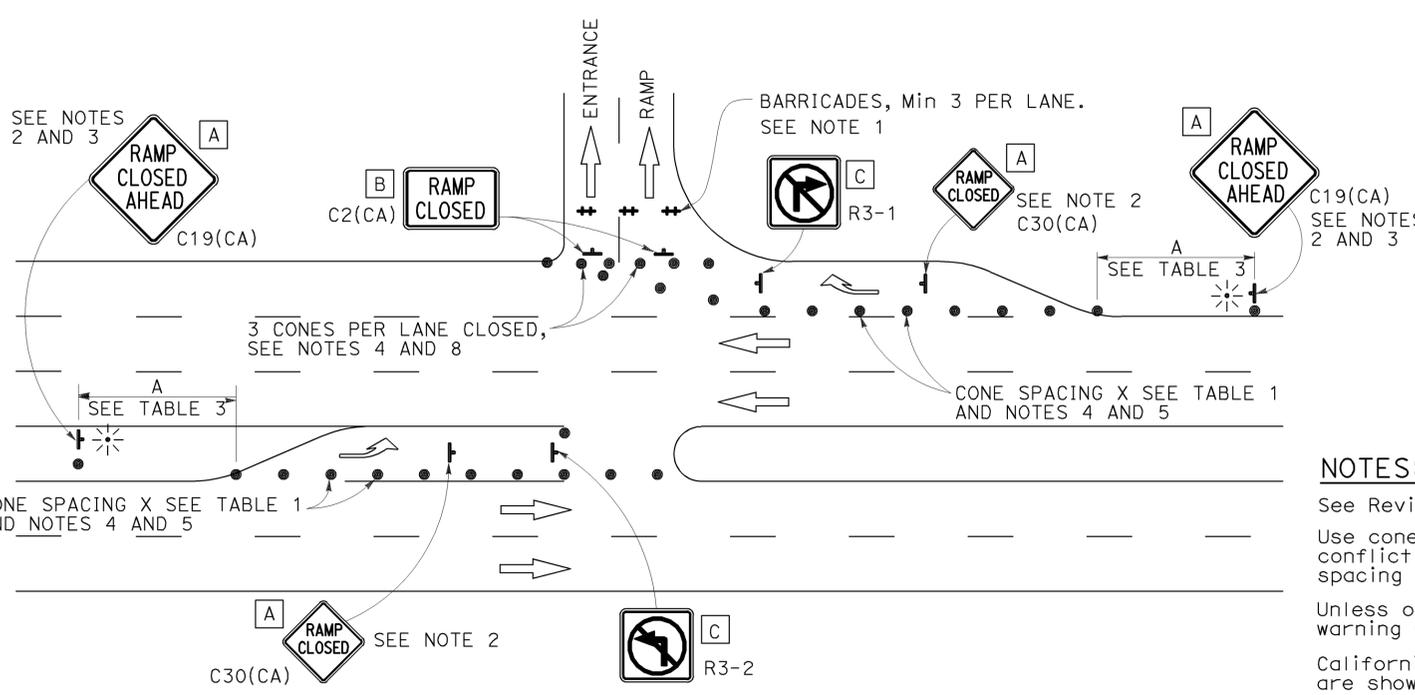
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19(CA) "RAMP CLOSED AHEAD" 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



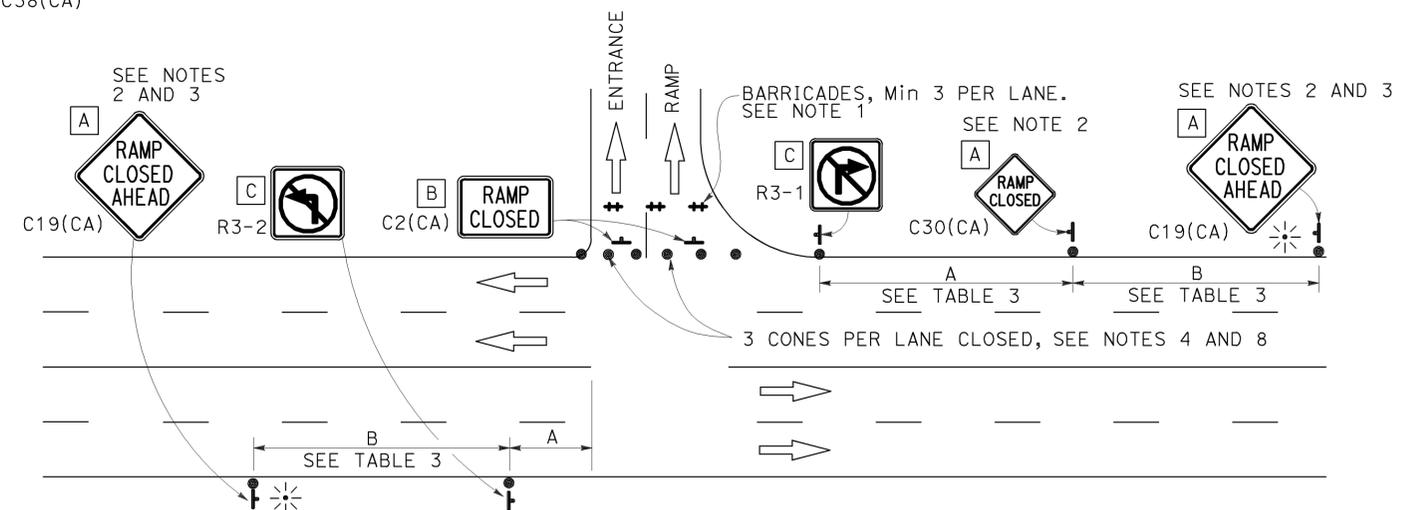
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

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 appropriate, 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.

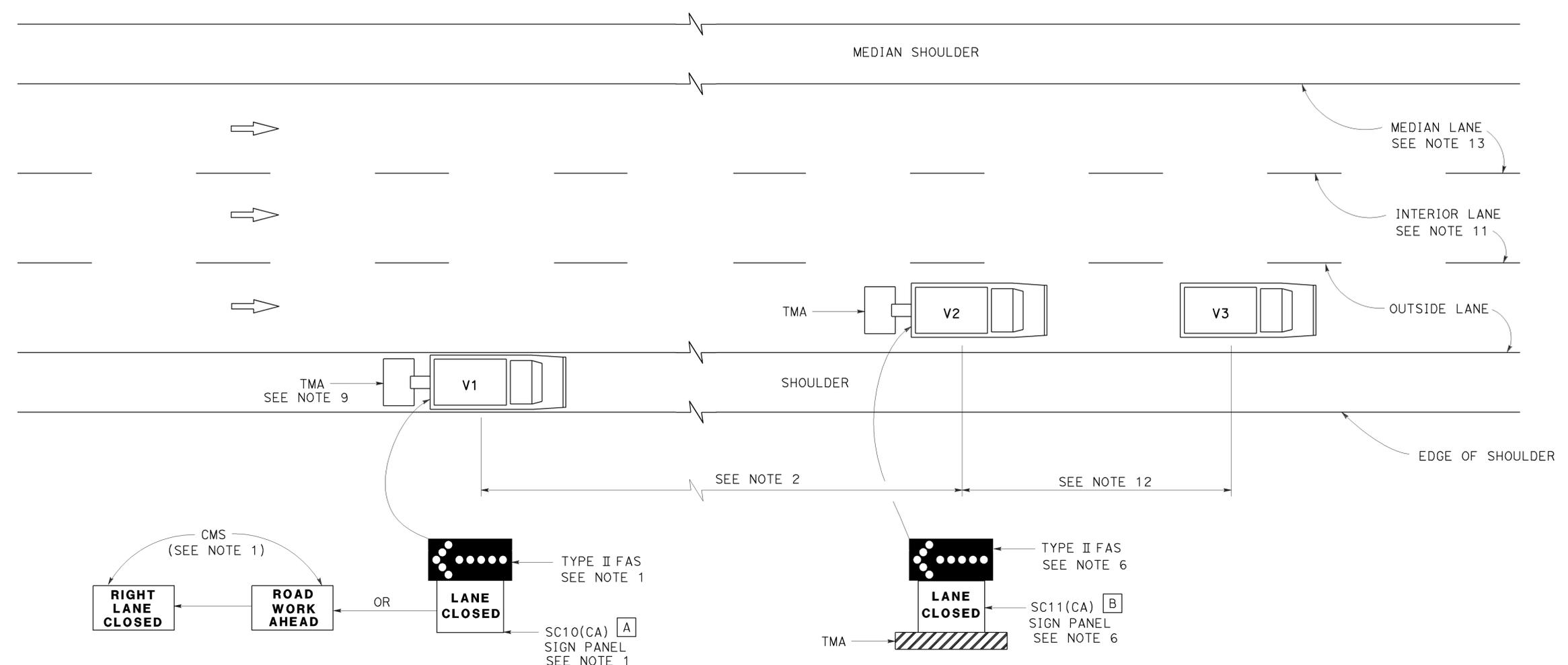
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

TO ACCOMPANY PLANS DATED 4-27-15



SIGN PANEL SIZE (Min)

- A 66" x 36"
- B 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
-  FLASHING ARROW SIGN (FAS)
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

**MOVING LANE CLOSURE ON MEDIAN LANE OR
OUTSIDE LANE OF MULTILANE HIGHWAYS**

NOTES:

- Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
- If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
- A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
- Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
- Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
- Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
- All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
- All vehicles shall be equipped with flashing or rotating amber lights.
- If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
- Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
- For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
- The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
- When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR MOVING LANE CLOSURE
ON MULTILANE HIGHWAYS**
NO SCALE

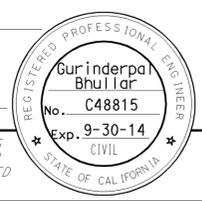
RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

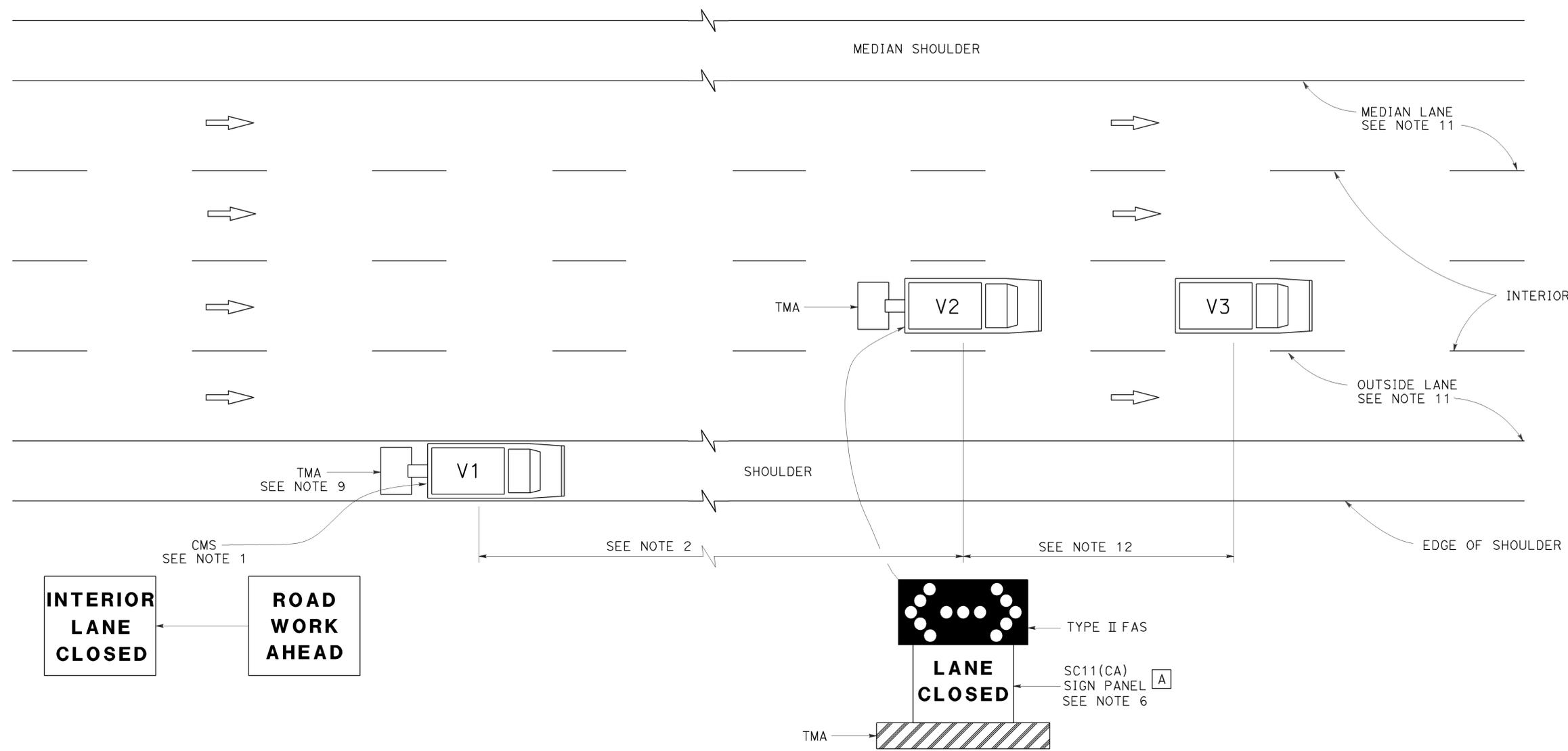
2010 REVISED STANDARD PLAN RSP T15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	89	149

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 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.



TO ACCOMPANY PLANS DATED 4-27-15



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

- V1 SIGN VEHICLE
- V2 SHADOW VEHICLE
- V3 WORK/APPLICATION VEHICLE
- FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
- CMS CHANGEABLE MESSAGE SIGN
- TMA TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500' should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500'.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR MOVING LANE CLOSURE
 ON MULTILANE HIGHWAYS**
 NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16 DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

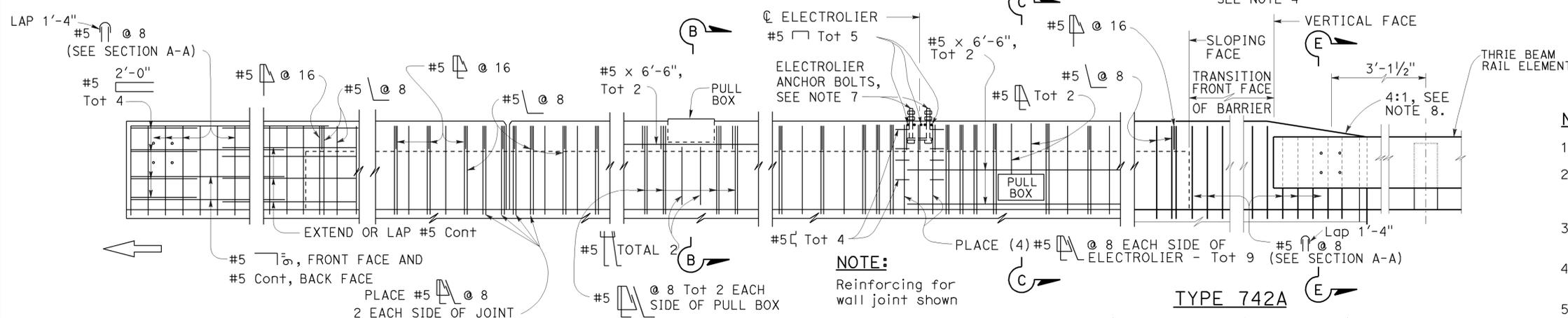
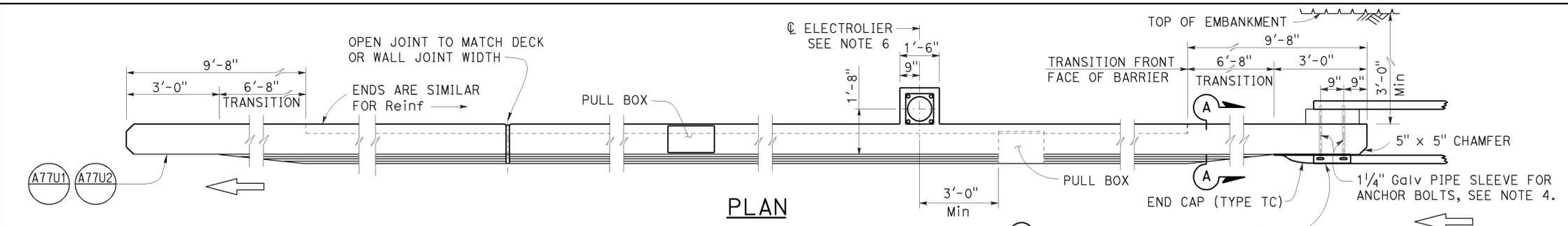
REVISED STANDARD PLAN RSP T16

2010 REVISED STANDARD PLAN RSP T16

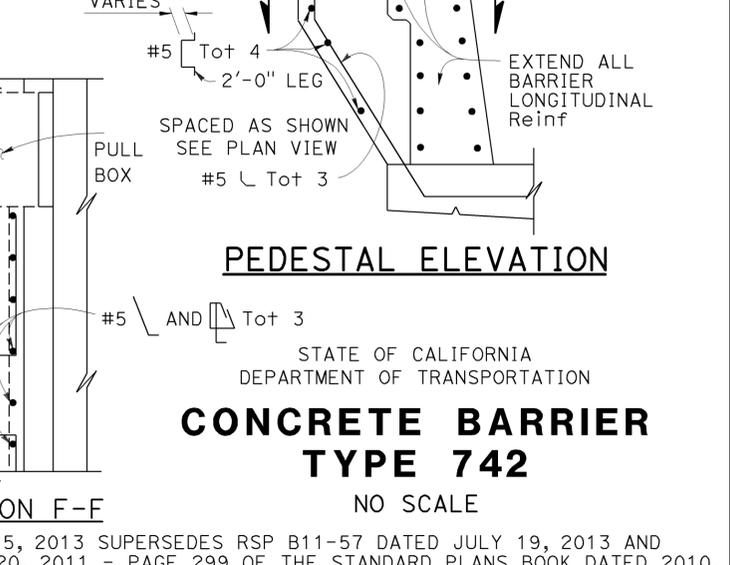
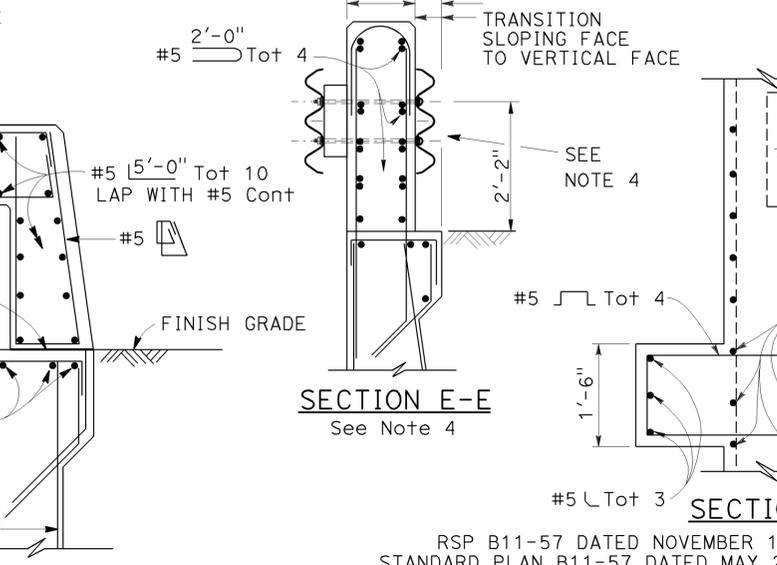
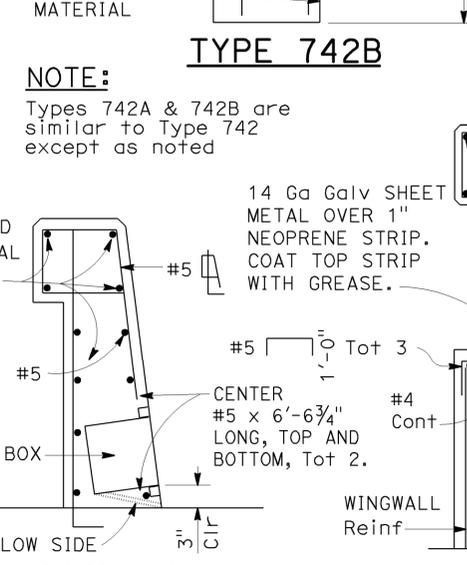
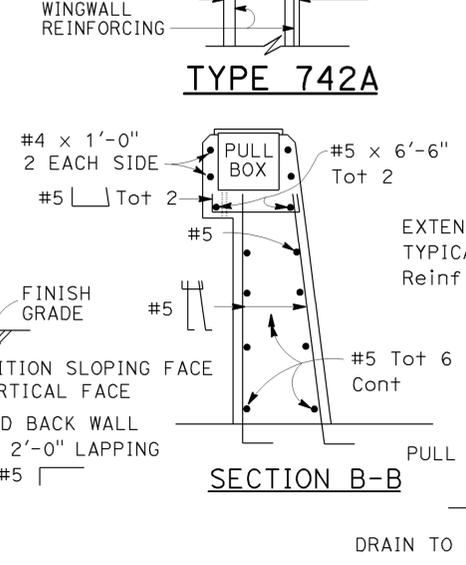
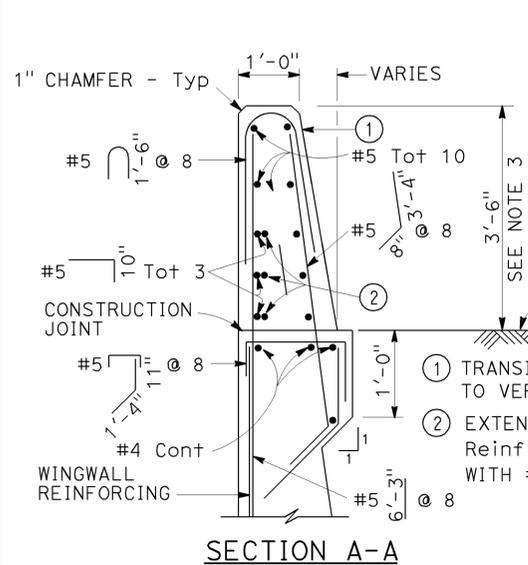
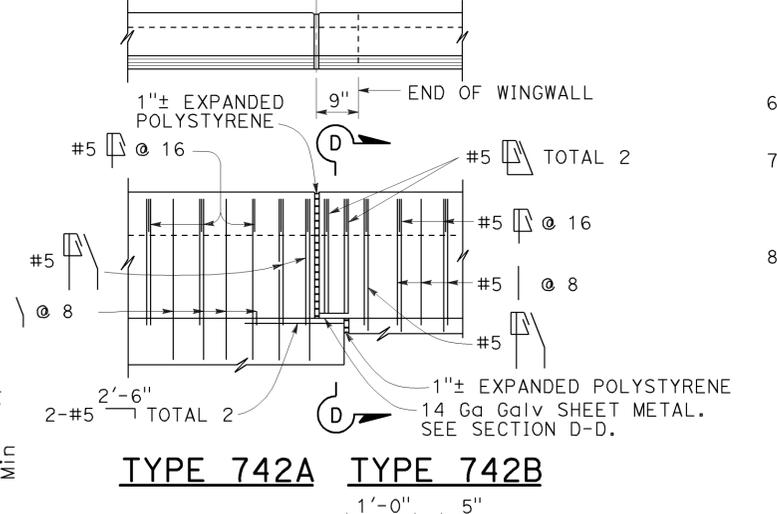
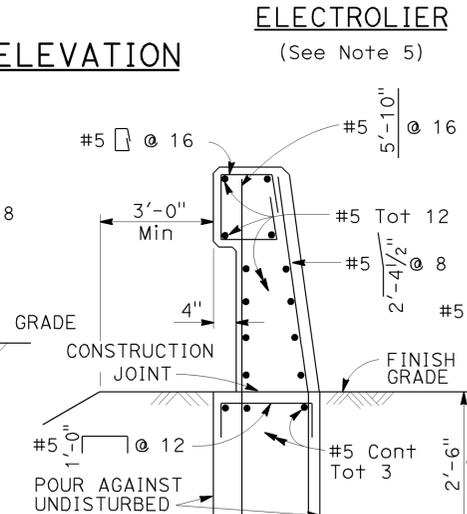
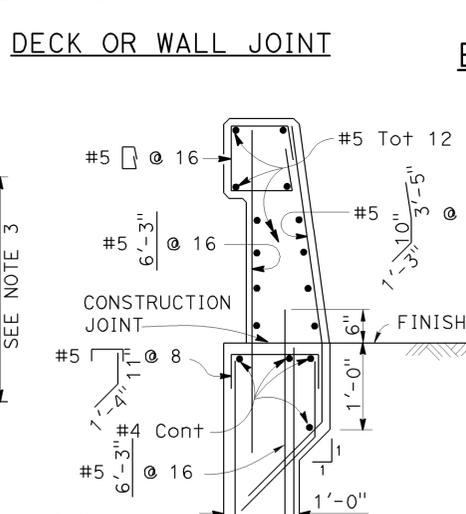
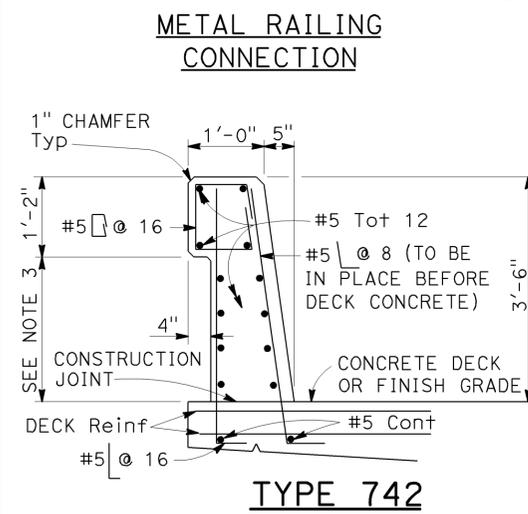
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	90	149

REGISTERED CIVIL ENGINEER
 November 15, 2013
 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.
 Tillet Satter
 No. C42892
 Exp. 3-31-14
 CIVIL
 STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 4-27-15



- NOTES:**
1. Walls are to be backfilled before barrier is placed.
 2. Clearance to reinforcing steel in barrier to be 1", except as noted. Longitudinal reinforcement to stop at all expansion joints.
 3. Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See Project Plans.
 4. For typical metal railing connection details not shown, see Revised Standard Plans RSP A77U1 and RSP A77U2.
 5. See Standard Plans ES-9A, ES-9B, ES-9C, ES-9D and ES-9E for electrical details. The maximum number of conduits in the barrier is limited to two 2" conduits along with one 3" conduit. When a 3" conduit is used, it is restricted to the base of the barrier.
 6. For electrolier mounting details, See Standard Plans ES-6A and ES-6B.
 7. Minimum concrete edge distance, to the reinforcing shown, shall be maintained. Edge distance may be adjusted to accommodate increase in concrete cover for architectural treatment.
 8. Taper the top of the end of the bridge railing at 4:1 to match the top elevation of the thrie beam rail element.



Details shown for barrier anchorage to Type 742A. Anchorage for barrier Types 742 and 742A are similar to their respective details.

NOTE: Types 742A & 742B are similar to Type 742 except as noted

14 Ga Galv SHEET METAL OVER 1" NEOPRENE STRIP. COAT TOP STRIP WITH GREASE.

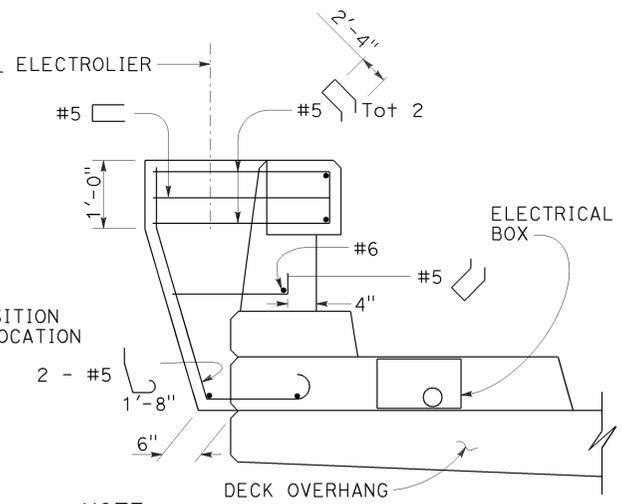
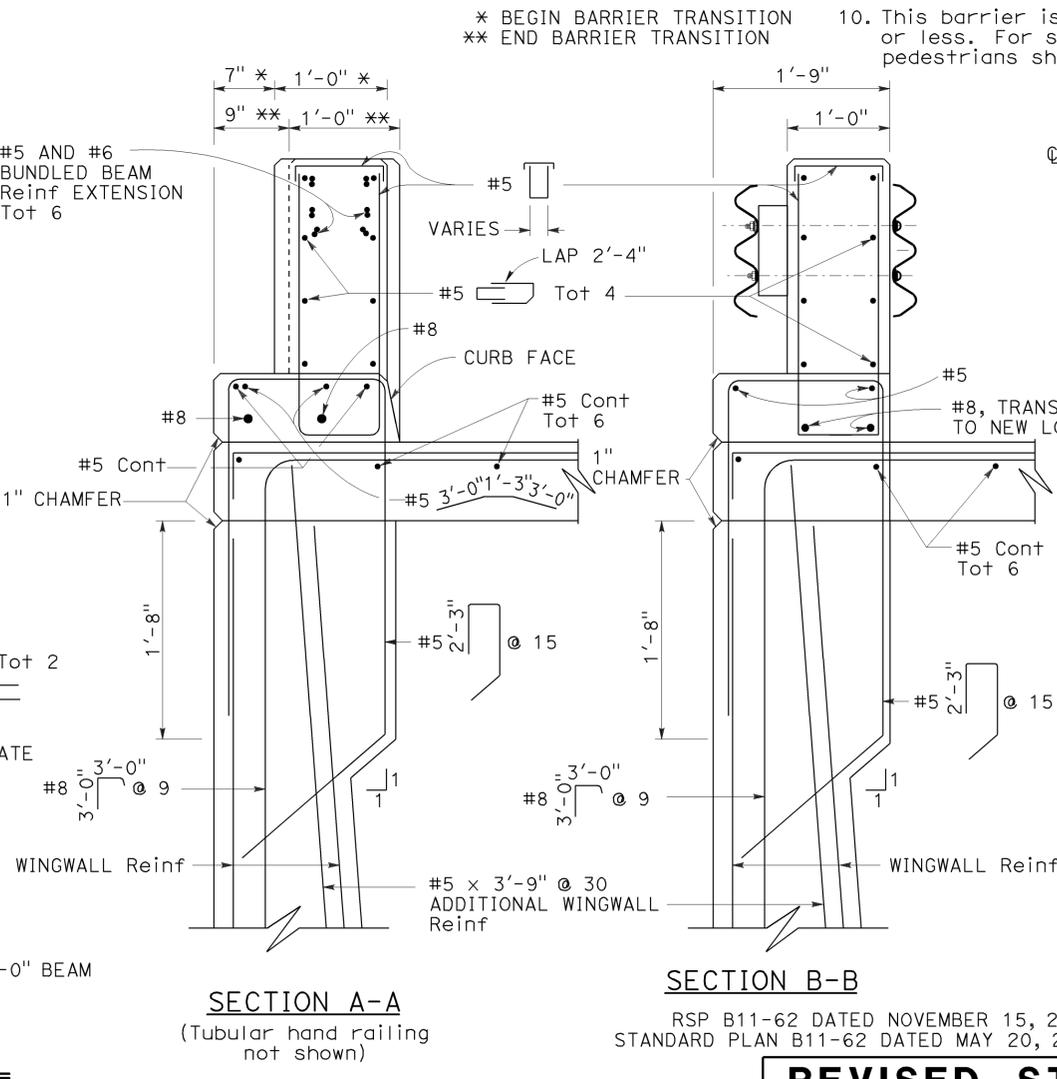
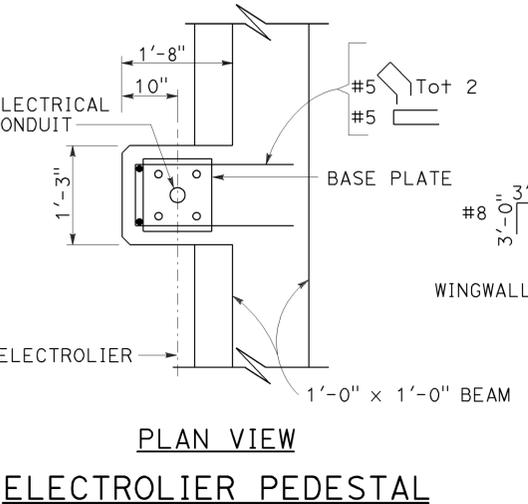
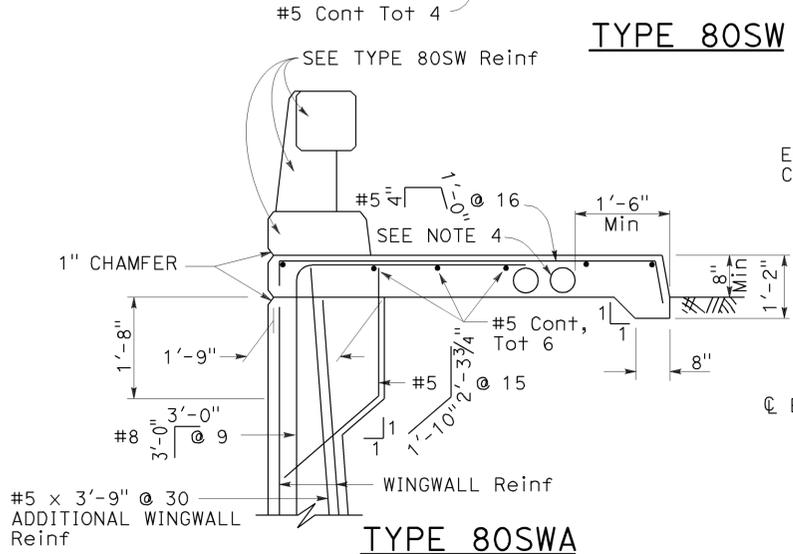
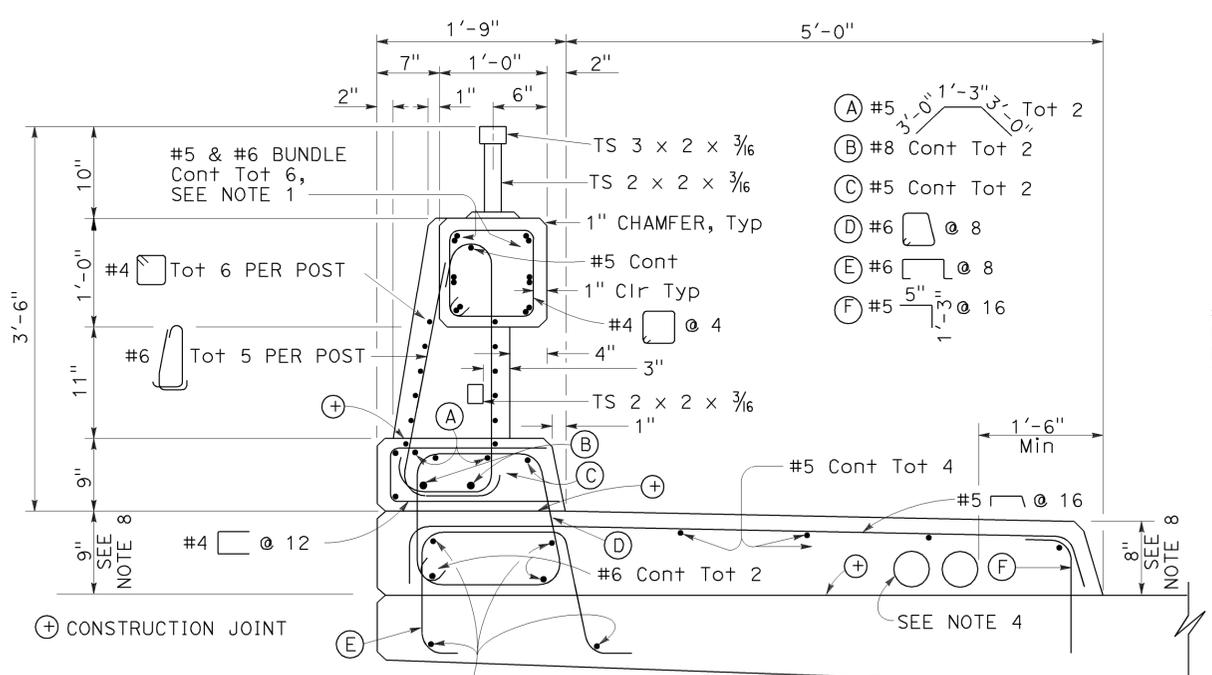
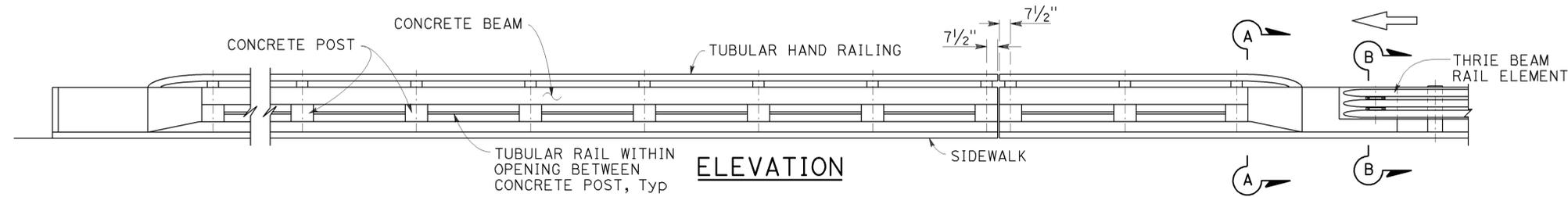
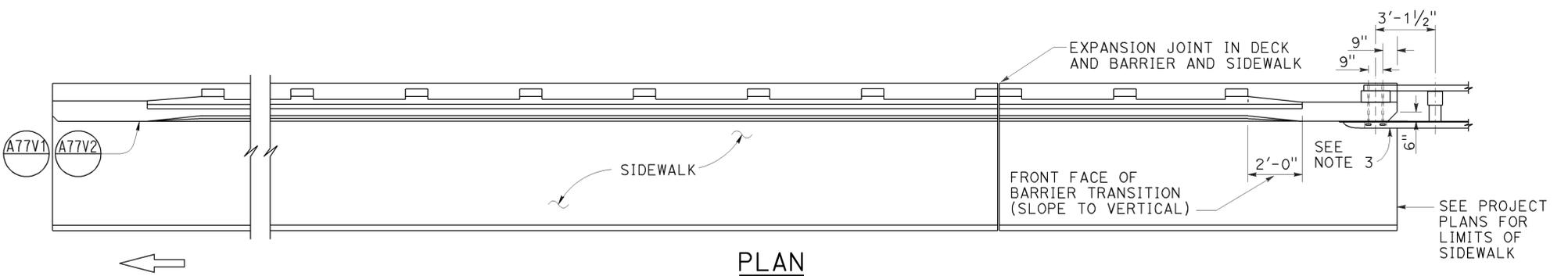
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER TYPE 742
NO SCALE

RSP B11-57 DATED NOVEMBER 15, 2013 SUPERSEDES RSP B11-57 DATED JULY 19, 2013 AND STANDARD PLAN B11-57 DATED MAY 20, 2011 - PAGE 299 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B11-57

2010 REVISED STANDARD PLAN RSP B11-57



- NOTES:**
- No lap splicing allowed on the longitudinal rail reinforcing. Splicing shall be staggered.
 - For electrical details, see Standard Plans ES-9A, ES-9B, ES-9C, ES-9D and ES-9E. See Project Plans for electrical layout.
 - For typical metal railing connection details not shown, see Revised Standard Plans RSP A77V1 and A77V2.
 - A maximum of five - 4" and a minimum of two - 4" round openings for future utilities. Openings are to be sealed at ends and extended 8" minimum past end of sidewalk if not used. Duct forms are to be tied down. Minimum of 6" from face of rail to utility opening.
 - Chain link railing is not allowed on Type 80SW Barrier.
 - Walls are to be backfilled before railing is placed.
 - Terminate all longitudinal curb, sidewalk, and deck reinforcement in standard 90° hooks.
 - Dimensions will vary with cross slope and with certain thickness of surfacing.
 - Expansion joint to match deck joint, see Standard Plan B11-63 for expansion joint details.
 - This barrier is to be used only for speeds of 45 MPH or less. For speeds greater than 45 MPH, pedestrians should be protected by a separation traffic barrier.

TO ACCOMPANY PLANS DATED 4-27-15

BARRIER MODIFICATION FOR ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE BARRIER TYPE 80SW (SHEET 1 OF 3)

NO SCALE

RSP B11-62 DATED NOVEMBER 15, 2013 SUPERSEDES RSP B11-62 DATED JULY 19, 2013 AND STANDARD PLAN B11-62 DATED MAY 20, 2011 - PAGE 302 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B11-62

2010 REVISED STANDARD PLAN RSP B11-62

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	93	149

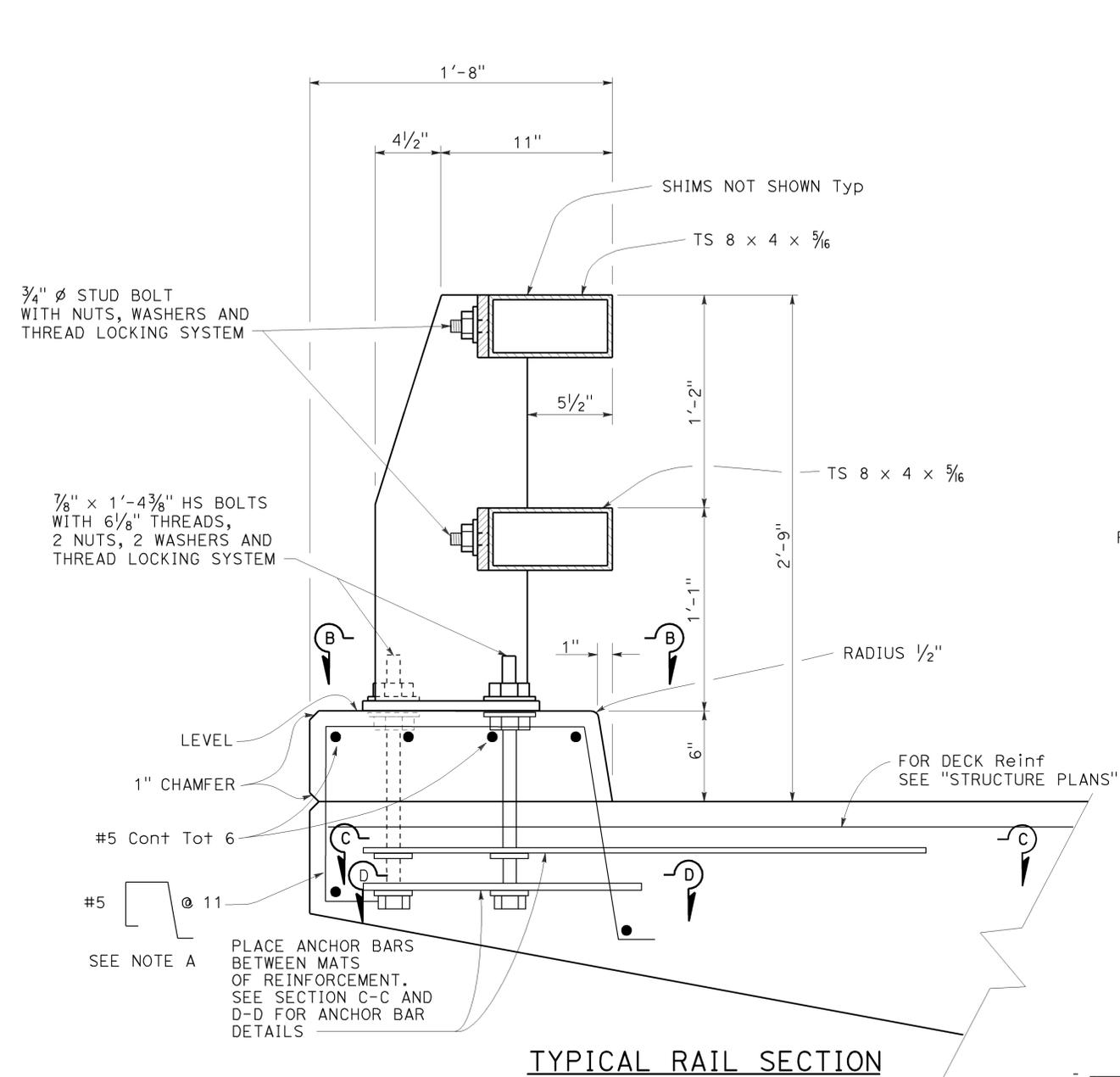
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Tillet Satter
No. C42892
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

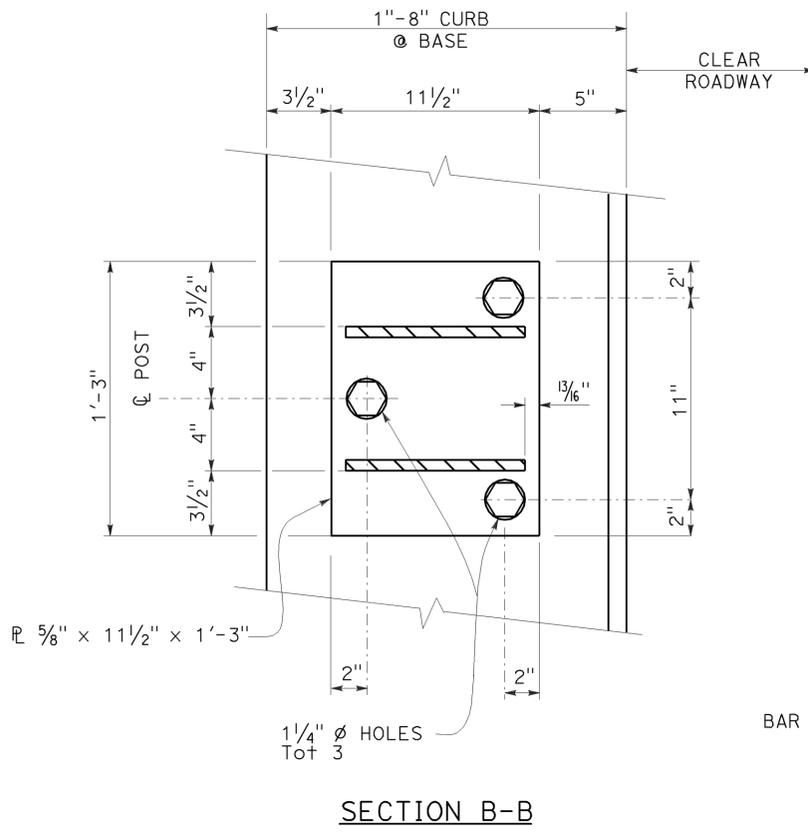
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TO ACCOMPANY PLANS DATED 4-27-15

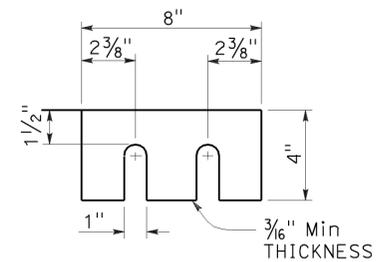


TYPICAL RAIL SECTION

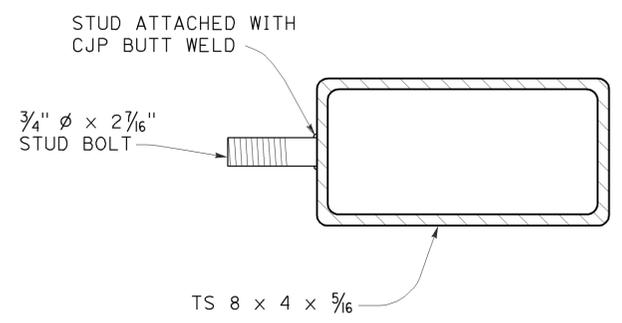
NOTE A
Adjust spacing to clear scupper opening by 2" if applicable.



SECTION B-B

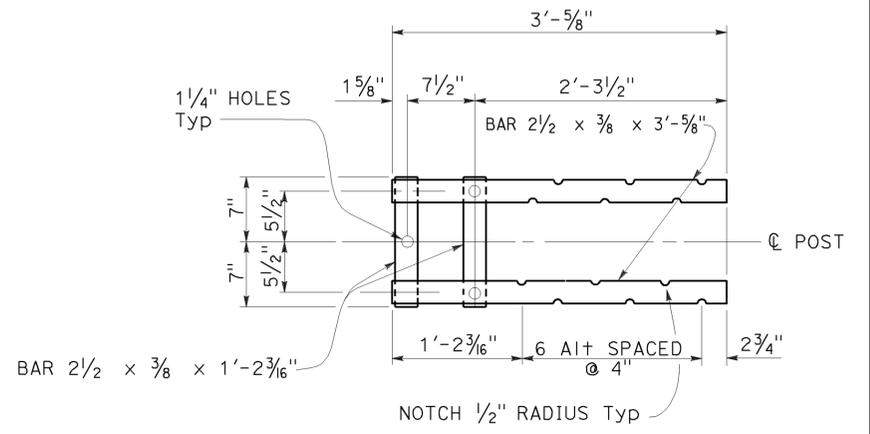


SHIMS REQUIRED FOR TOP AND BOTTOM RAIL

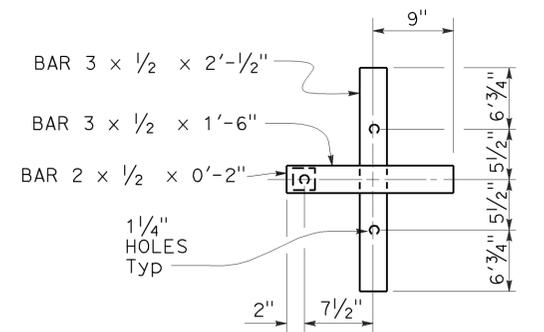


SECTION AT POST

STUD BOLT DETAIL



SECTION C-C
Top Anchorage



SECTION D-D
Lower Anchorage

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CALIFORNIA ST-10
BRIDGE RAIL
(SHEET 1 OF 3)**

NO SCALE

RSP B11-68 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN B11-68 DATED MAY 20, 2011 - PAGE 308 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B11-68

2010 REVISED STANDARD PLAN RSP B11-68

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mirn	101	1.5/14.0	94	149

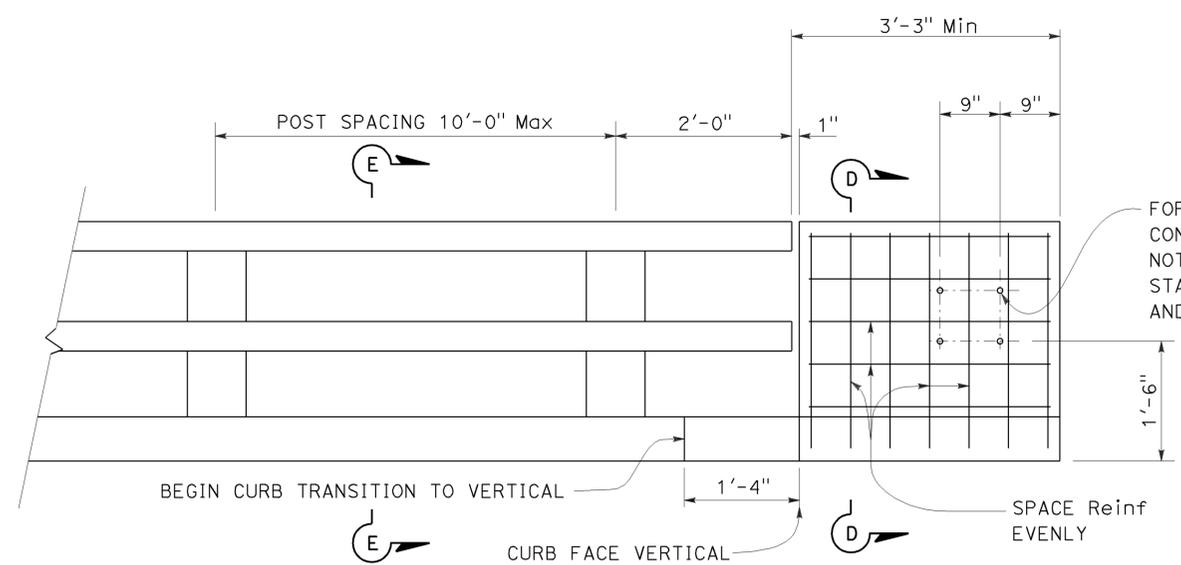
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Tillett Satter
No. C42892
Exp. 3-31-14
CIVIL
STATE OF CALIFORNIA

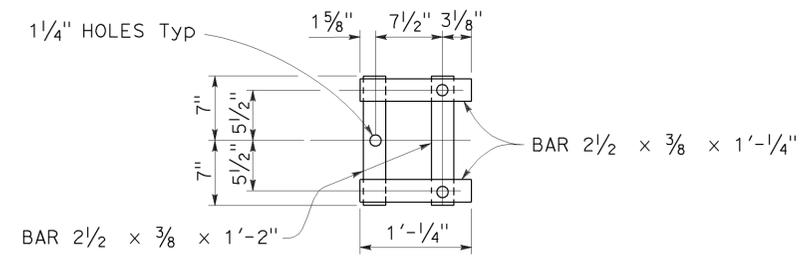
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TO ACCOMPANY PLANS DATED 4-27-15

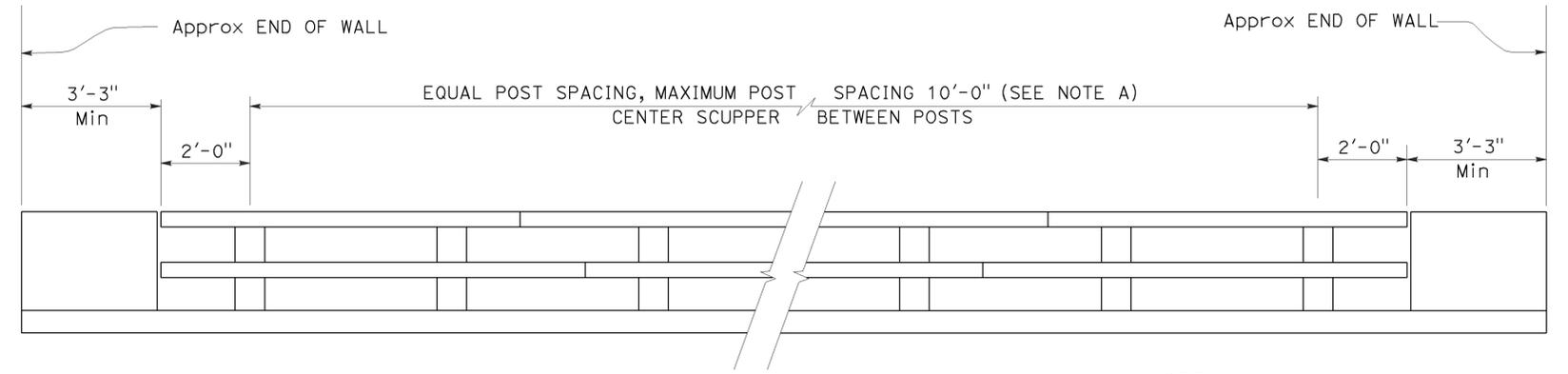


END OF RAILING ELEVATION

FOR METAL RAILING CONNECTION DETAILS NOT SHOWN, SEE REVISED STANDARD PLANS RSP A77U1 AND RSP A77U2.

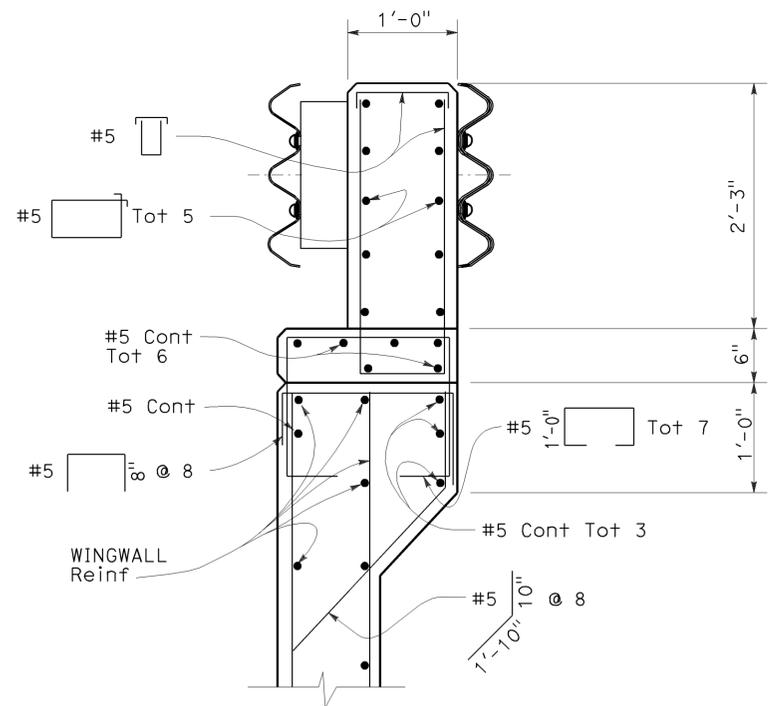


WALL ANCHOR PLATE DETAIL

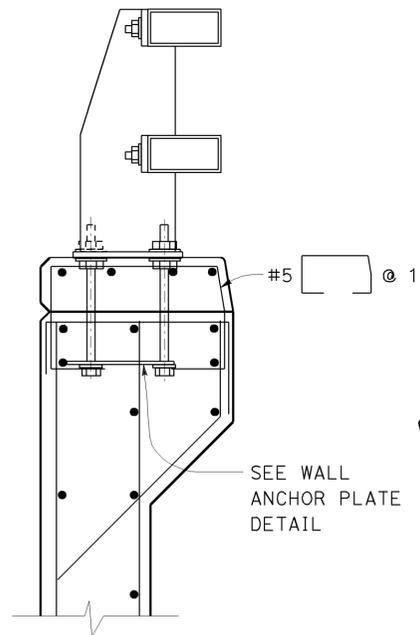


BRIDGE RAILING ELEVATION

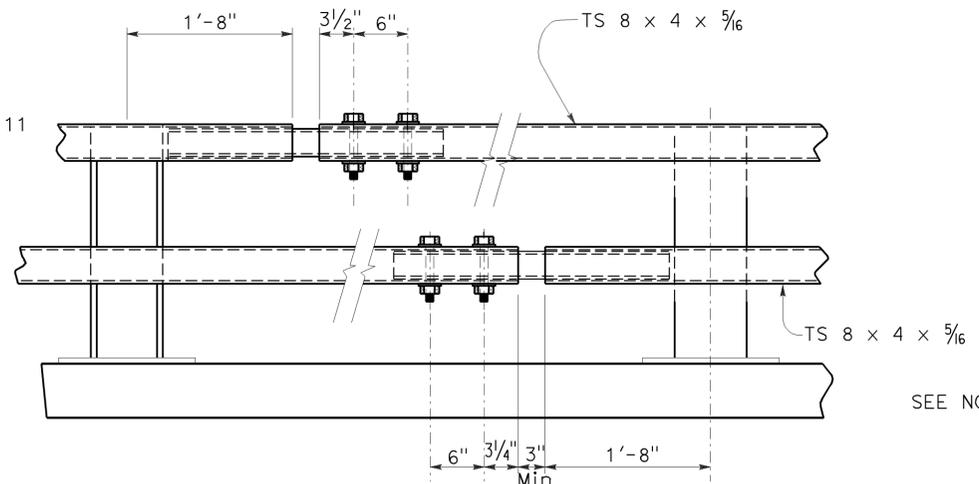
NOTE A:
Post spacing and/or block length to be adjusted to fit bridge length or wingwall length.



SECTION D-D

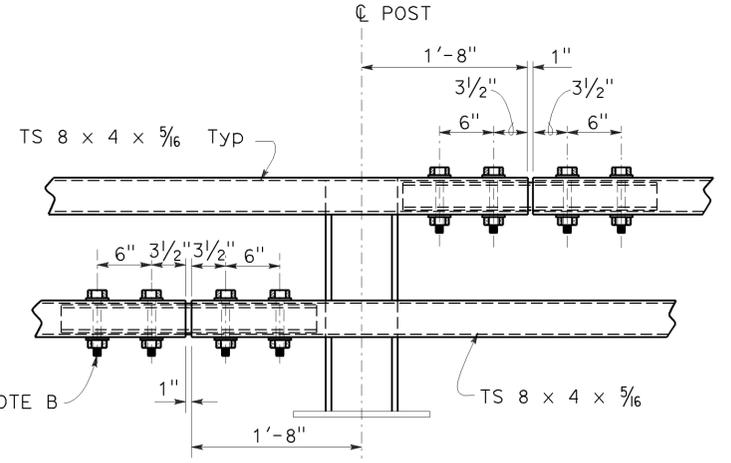


SECTION E-E
Reinf same as for Section D-D except as noted.



EXPANSION SPLICE

NOTE B:
Use 3/4" x x 5/16"
Hs bolts with washers, fully tensioned.
1" holes in rail Typ



STANDARD SPLICE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**CALIFORNIA ST-10
BRIDGE RAIL
(SHEET 3 OF 3)**

NO SCALE

RSP B11-70 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN B11-70 DATED MAY 20, 2011 - PAGE 310 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B11-70

2010 REVISED STANDARD PLAN RSP B11-70

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BBS	BATTERY BACKUP SYSTEM	Mtg	MOUNTING
BC	BOLT CIRCLE	MV	MERCURY VAPOR LIGHTING FIXTURE
BPB	BICYCLE PUSH BUTTON	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
C	CONDUIT	N	NEUTRAL (GROUNDED CONDUCTOR)
CB	CIRCUIT BREAKER	NB	NEUTRAL BUS
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSE
Ck+	CIRCUIT	NO	NORMALLY OPEN
CMS	CHANGEABLE MESSAGE SIGN	P	CIRCUIT BREAKER'S POLE
Ctid	CALTRANS IDENTIFICATION	PB	PULL BOX
Comm	COMMUNICATION	PBA	PUSH BUTTON ASSEMBLY
DLC	LOOP DETECTOR LEAD-IN CABLE	PEC	PHOTOELECTRIC CONTROL
EMS	EXTINGUISHABLE MESSAGE SIGN	Ped	PEDESTRIAN
EVUC	EMERGENCY VEHICLE UNIT CABLE	PEU	PHOTOELECTRIC UNIT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	PT	CONDUIT WITH PULL TAPE
FB	FLASHING BEACON	RE	RELOCATED EQUIPMENT
FBCA	FLASHING BEACON CONTROL ASSEMBLY	RM	RAMP METERING
FBS	FLASHING BEACON WITH SLIP BASE	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FO	FIBER OPTIC	SB	SLIP BASE
G	EQUIPMENT GROUNDING CONDUCTOR	SIC	SIGNAL INTERCONNECT CABLE
GB	GROUND BUS	Sig	SIGNAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMA	SIGNAL MAST ARM
HAR	HIGHWAY ADVISORY RADIO	SNS	STREET NAME SIGN
Hex	HEXAGONAL	SP	SERVICE POINT
HPS	HIGH PRESSURE SODIUM	TDC	TELEPHONE DEMARCATION CABINET
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TMS	TRAFFIC MONITORING STATION
ISL	INDUCTION SIGN LIGHTING	TOS	TRAFFIC OPERATIONS SYSTEM
LED	LIGHT EMITTING DIODE	Veh	VEHICLE
LMA	LUMINAIRE MAST ARM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
LPS	LOW PRESSURE SODIUM	WIM	WEIGH-IN-MOTION
Ltg	LIGHTING	Xfmr	TRANSFORMER
Lum	LUMINAIRE		
M	METERED		
MAT	MAST ARM MOUNTING TOP ATTACHMENT		
MAS	MAST ARM MOUNTING SIDE ATTACHMENT		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	95	149

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
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.

TO ACCOMPANY PLANS DATED 4-27-15

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
HZ	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

NOTES:

- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	96	149

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 4-27-15

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

SERVICE EQUIPMENT

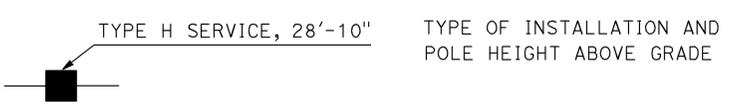
NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

POLE-MOUNTED SERVICE DESIGNATION



FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

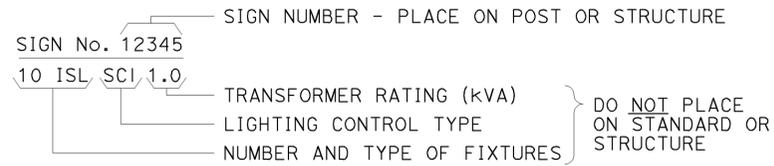
RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

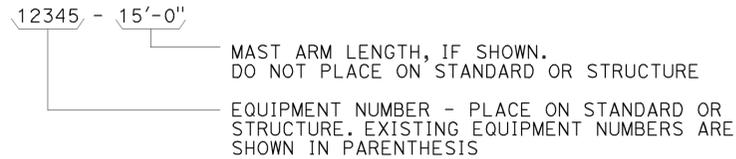
2010 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

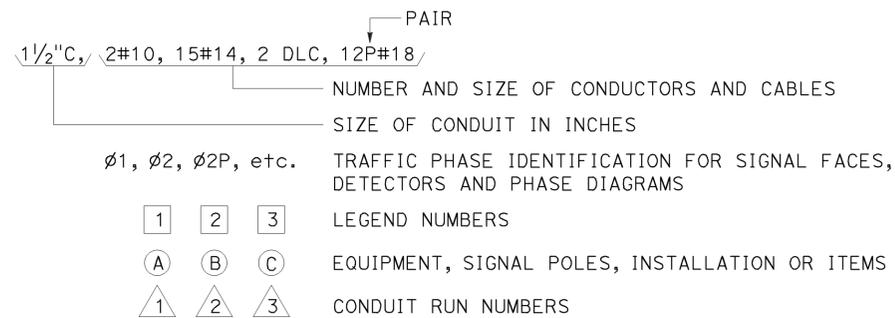
ILLUMINATED SIGN IDENTIFICATION NUMBER:



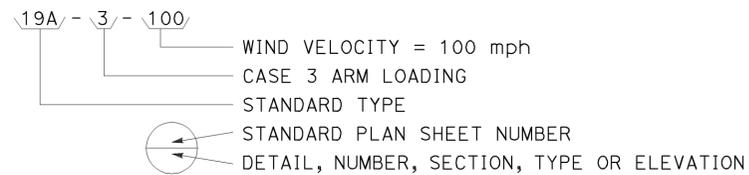
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



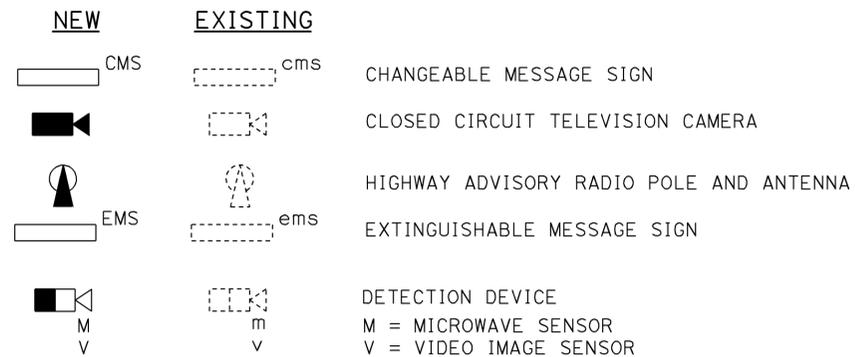
CONDUIT AND CONDUCTOR IDENTIFICATION:



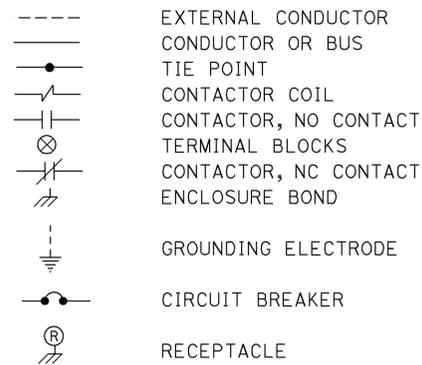
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



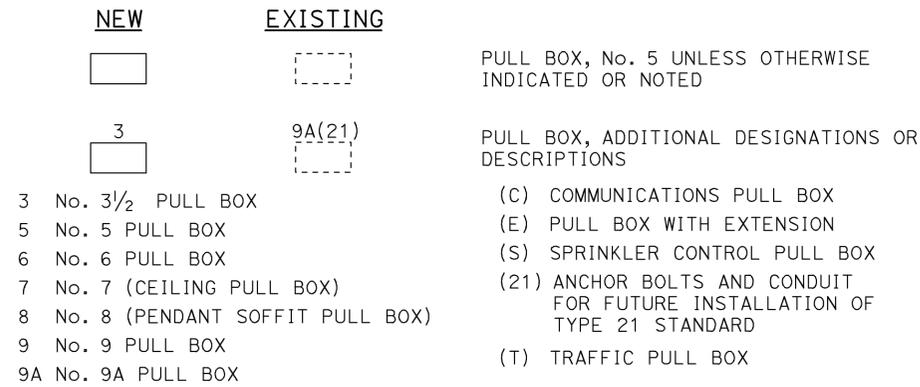
MISCELLANEOUS EQUIPMENT



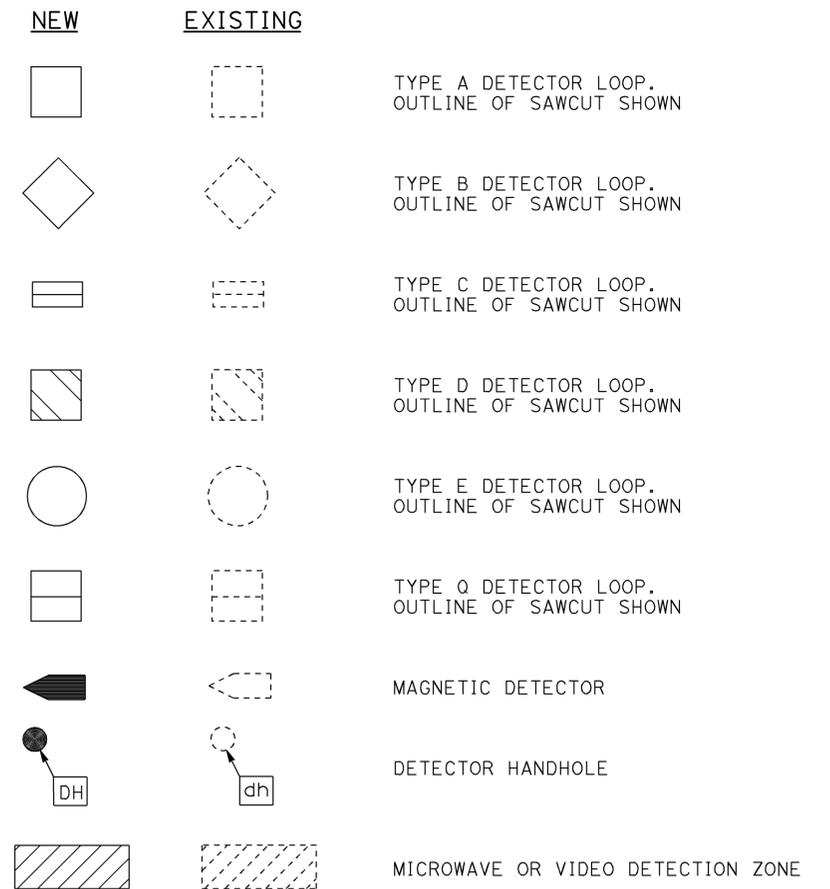
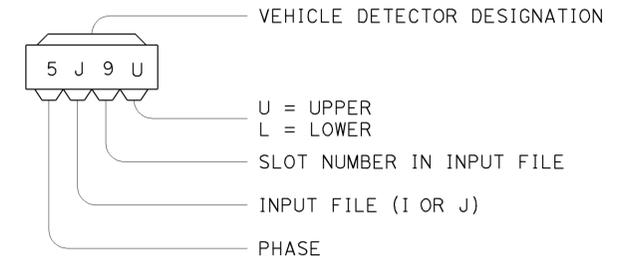
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

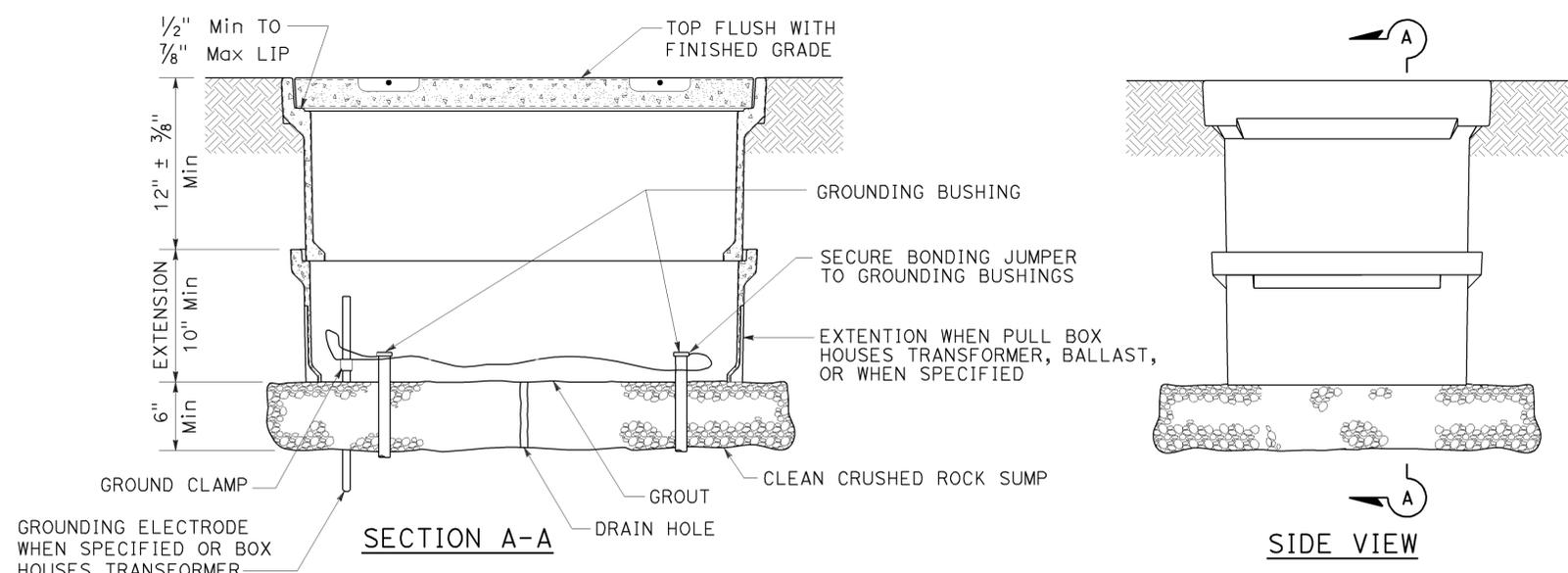
RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C
DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

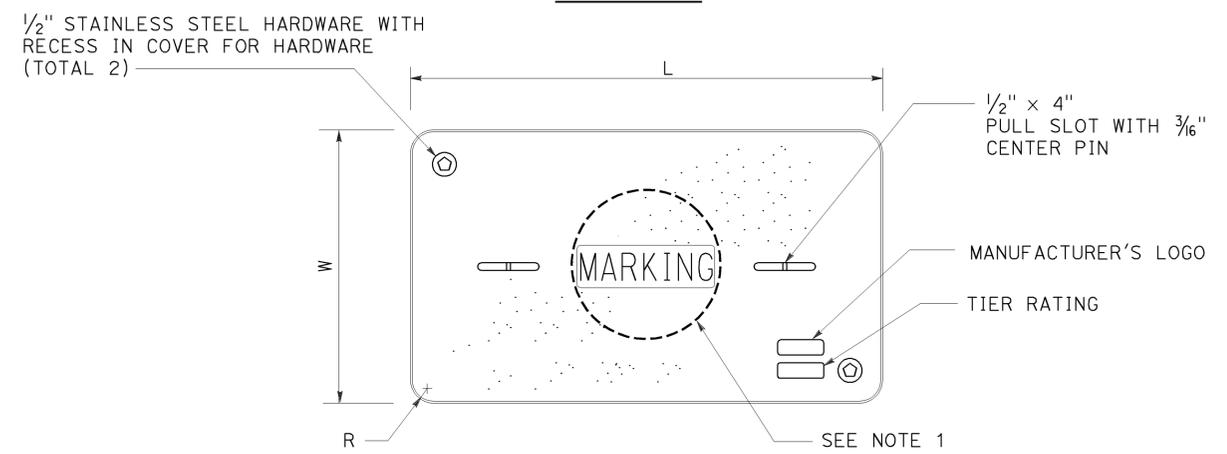
2010 REVISED STANDARD PLAN RSP ES-1C

TO ACCOMPANY PLANS DATED 4-27-15

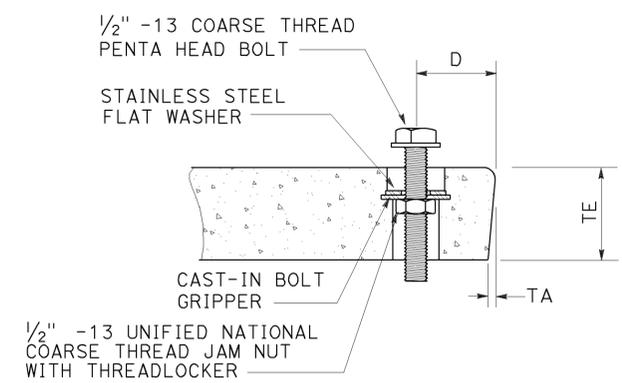
2010 REVISED STANDARD PLAN RSP ES-8A



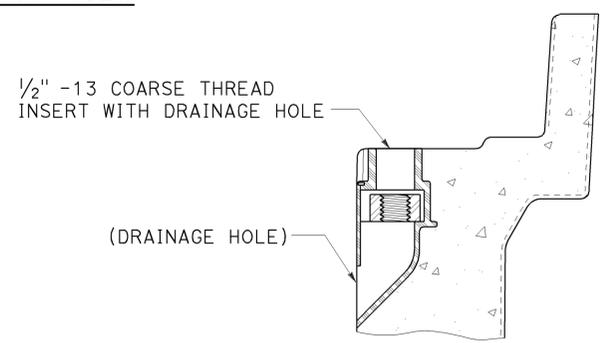
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

NOTES:

- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3 1/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
 - "BOOSTER PUMP" - Booster pump circuit.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
- All dimensions for the cover for non-traffic pull box are nominal values.

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(NON-TRAFFIC PULL BOX)
NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	99	149

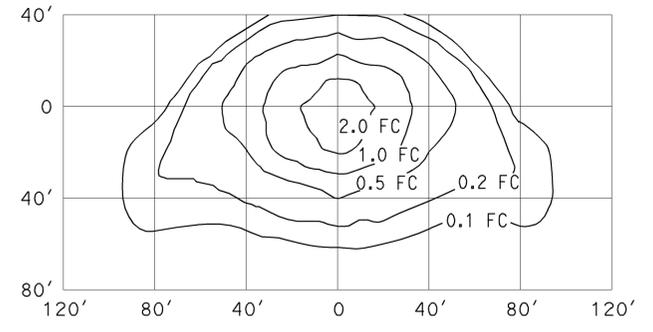
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA

July 19, 2013
 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.

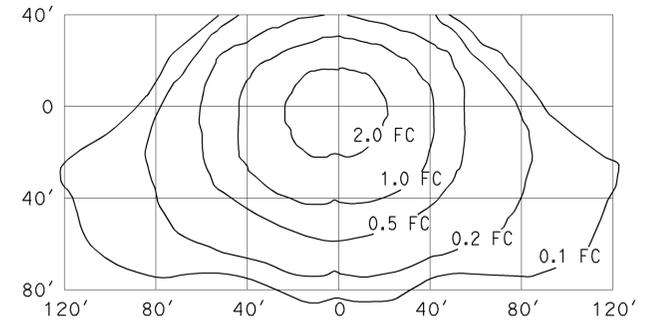
TO ACCOMPANY PLANS DATED 4-27-15

ISOFOOTCANDLE CURVE - MINIMUM



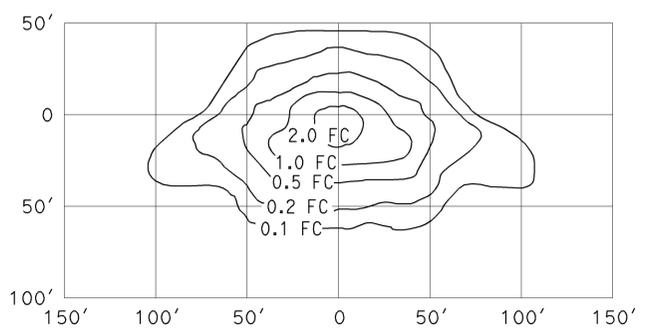
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 34' Mounting Height
 Lamp operated at 22,000 lm
 200-W high pressure sodium lamp
 ANSI Designation S66

ISOFOOTCANDLE CURVE - MINIMUM



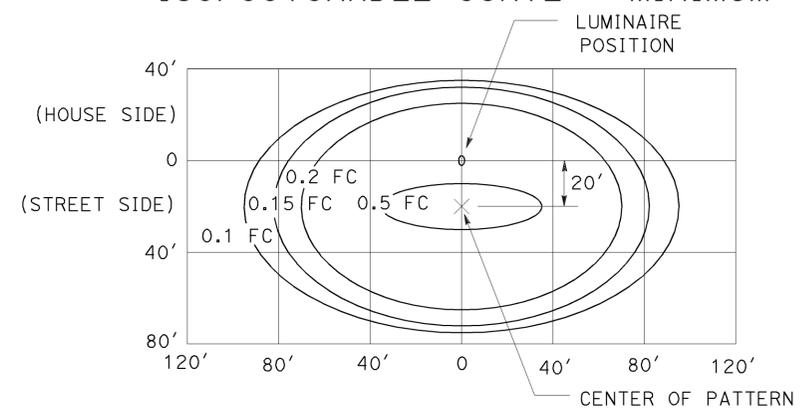
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 40' Mounting Height
 Lamp operated at 37,000 lm
 310-W high pressure sodium lamp
 ANSI Designation S67

ISOFOOTCANDLE CURVE - MINIMUM



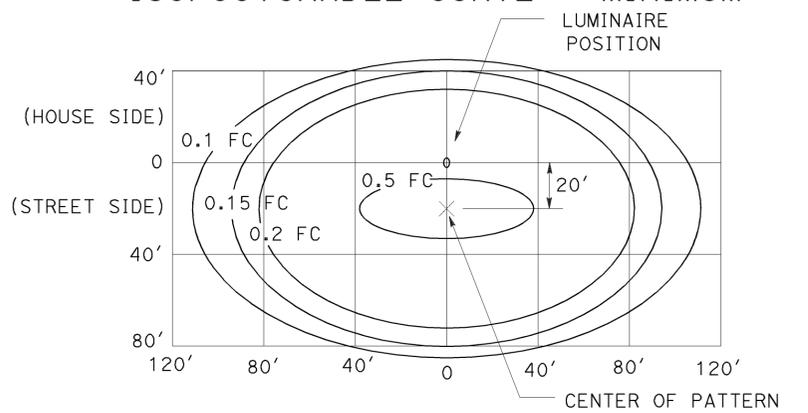
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 30' Mounting Height
 Lamp operated at 16,000 lm
 150-W high pressure sodium lamp
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



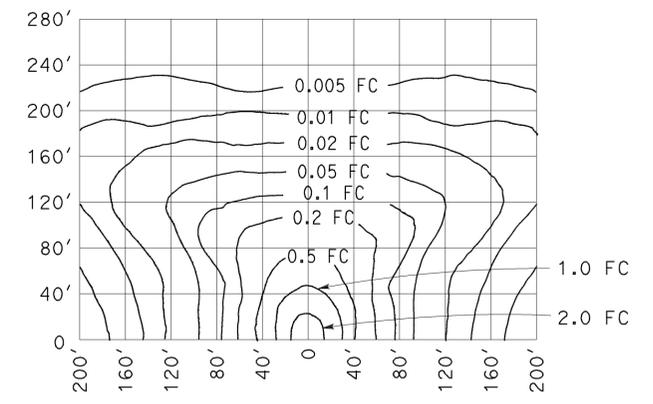
LED LUMINAIRE ROADWAY 1
 165-W at 34' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



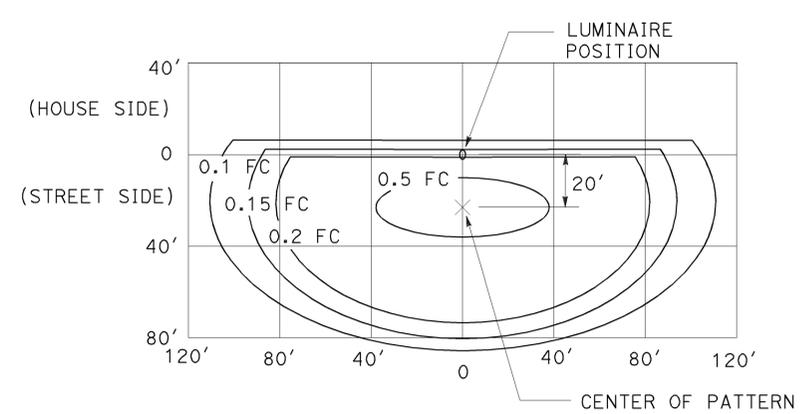
LED LUMINAIRE ROADWAY 2
 235-W at 40' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



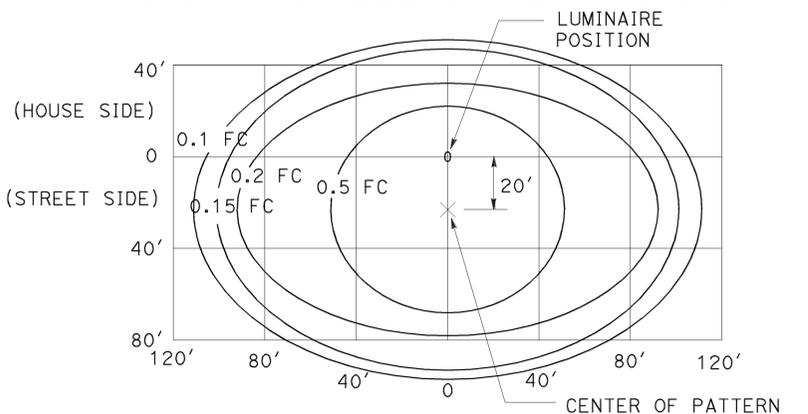
LOW PRESSURE SODIUM LUMINAIRE
 40' Mounting Height
 Lamp operated at 33,000 lm
 180-W low pressure sodium lamp

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 3
 235-W at 40' Mounting Height
 with back side control

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4
 300-W at 40' Mounting Height

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (ISOFOOTCANDLE DIAGRAMS)**

NO SCALE
 RSP ES-10A DATED JULY 19, 2013 SUPERSEDES RSP ES-10A DATED JULY 20, 2012
 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Mrn	101	1.5/14.0	100	149

REGISTERED CIVIL ENGINEER *John R. Tjoelker* DATE 04-06-15
 4-27-15
 PLANS APPROVAL DATE

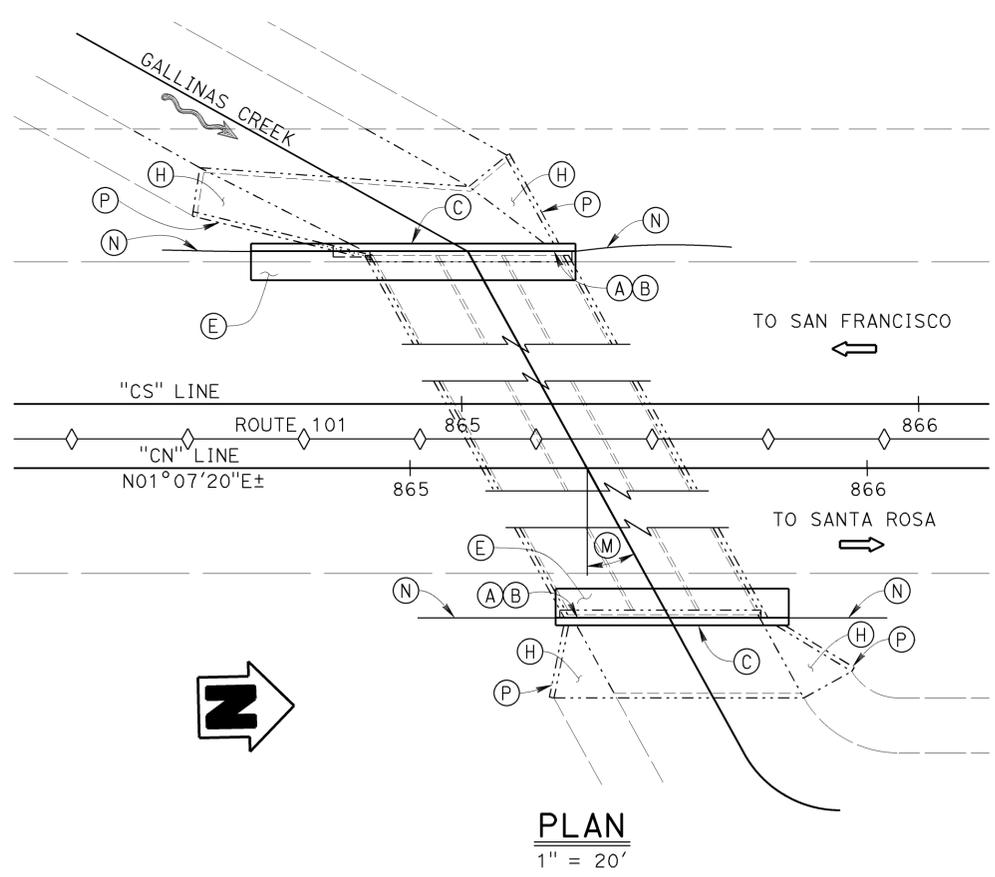
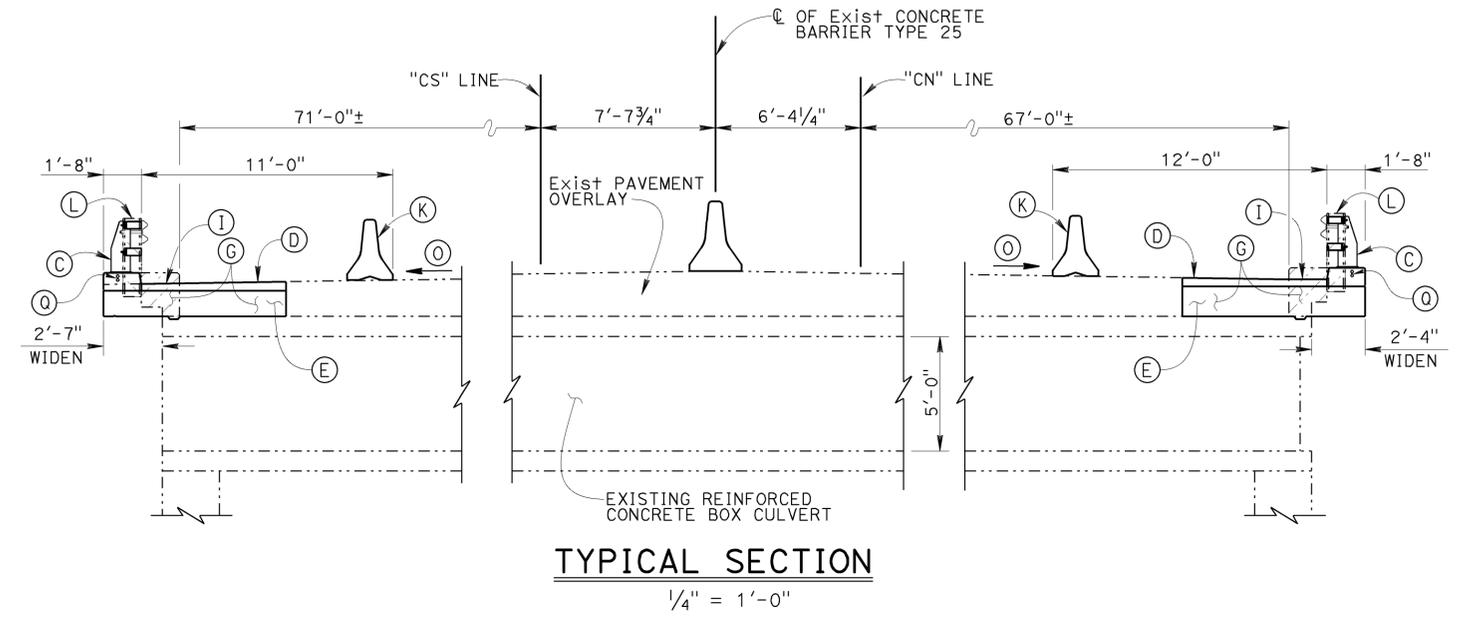
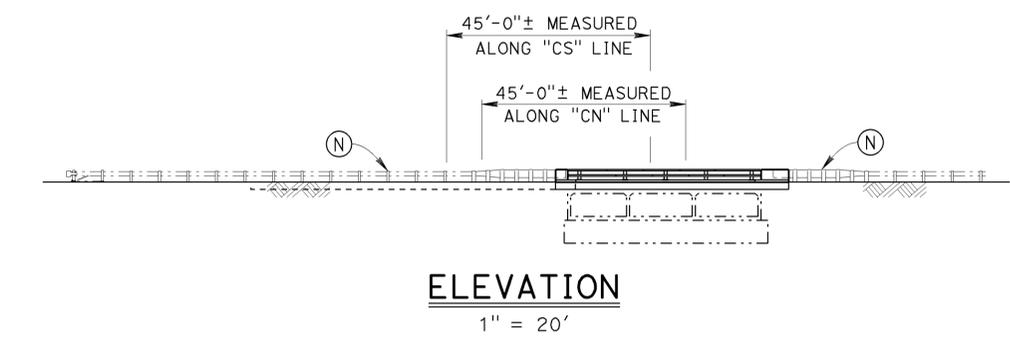
REGISTERED PROFESSIONAL ENGINEER
 JOHN R. TJOELKER
 No. C77165
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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.

NORTH BRANCH GALLINAS CREEK BRIDGE (27-0006)

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING 371 SQFT
 BRIDGE REMOVAL (PORTION), LOCATION D LUMP SUM
 STRUCTURAL CONCRETE, BARRIER SLAB 51 CY
 DRILL AND BOND DOWEL 96 LF
 CALIFORNIA ST-10 BRIDGE RAIL (MODIFIED) 122 LF



NOTES:

- (A) Paint "NORTH BRANCH GALLINAS CREEK BRIDGE"
- (B) Paint "Bridge No. 27-0006"
- (C) California ST-10 Bridge Rail (Modified)
- (D) HMA, see "ROADWAY PLANS"
- (E) Structural Concrete barrier slab
- (G) Remove portion of existing bridge and asphalt surfacing
- (H) Existing warped wingwall
- (I) Match existing grade
- (K) Temporary Railing Type "k", see "ROADWAY PLANS"
- (L) Remove existing concrete curb/parapet with metal post
- (M) 28°53'40"± skew (Typ)
- (N) MGS, see "ROADWAY PLANS"
- (O) Slope varies, see "ROADWAY PLANS"
- (P) Top of lined concrete channel
- (Q) 2 - 1/2"Ø Electrical Conduit, see "ROADWAY PLANS"

LEGEND:

- Indicates New Structure
- Indicates Existing Structure

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

Nora Kyo DESIGN ENGINEER	DESIGN	BY John Tjoelker	CHECKED Sam Kotawalala	LOAD & RESISTANCE FACTOR DESIGN	LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 8	BRIDGE NO.	27-0006	
	DETAILS	BY F. Maagma, P. Daplas	CHECKED John Tjoelker	LAYOUT	BY Son Ly			CHECKED John Tjoelker	POST MILE	13.99
	QUANTITIES	BY Keith Nakaoka	CHECKED Adam Menke	SPECIFICATIONS	BY Sharon Hansen			CHECKED Sharon Hansen	PLANS AND SPECS COMPARED	

NORTH BRANCH GALLINAS CREEK BRIDGE

BARRIER REPLACEMENT

GENERAL PLAN

UNIT: 3593
PROJECT NUMBER & PHASE: 0412000480, 1
CONTRACT NO.: 04-4G4604

REVISION DATES: 6-29-14, 04-16-15, 03-27-15

SHEET 1 OF 3