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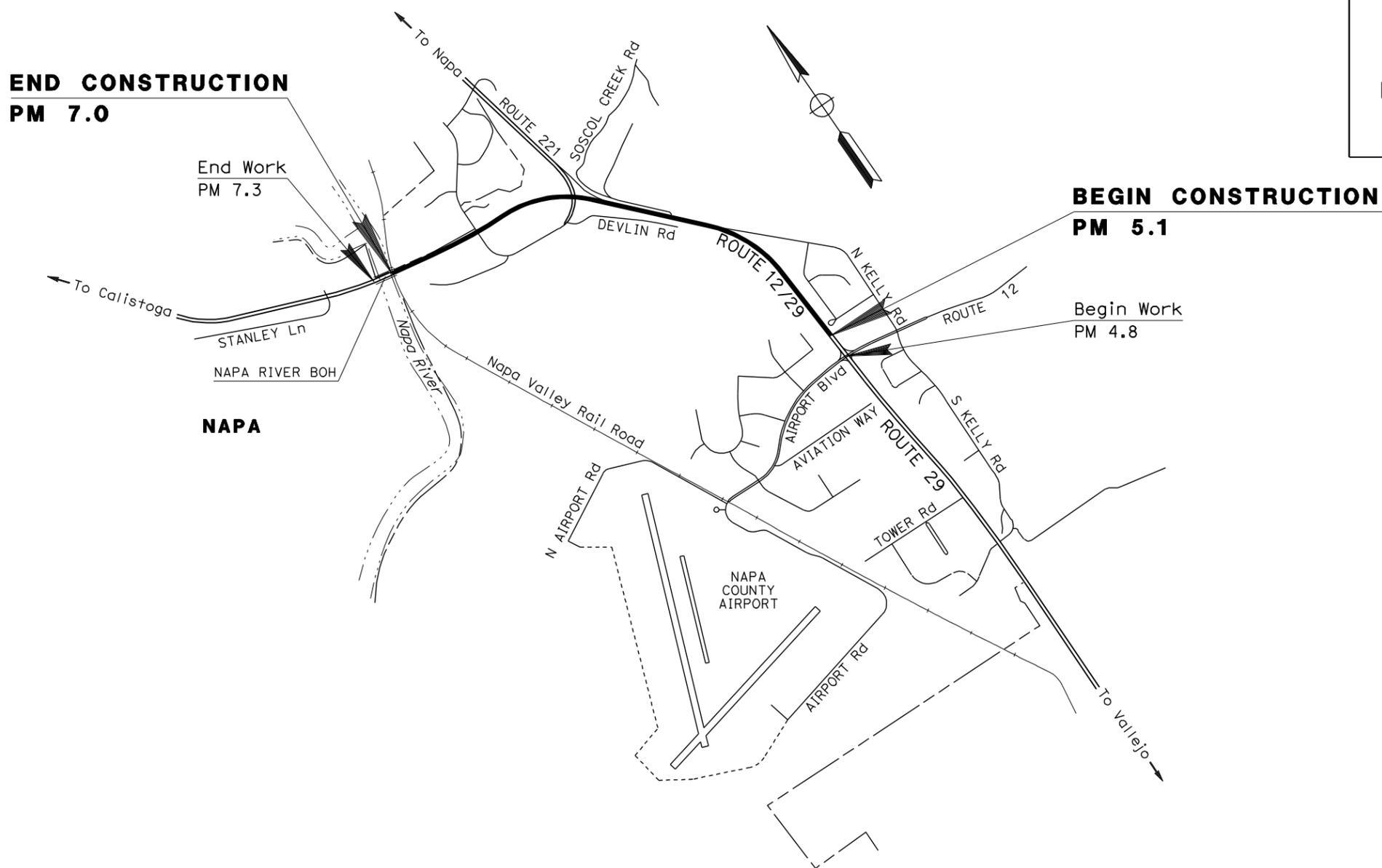
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA ACNH-P029(109)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN NAPA COUNTY
NEAR NAPA
FROM 0.3 MILE NORTH OF ROUTE 12 EAST /
AIRPORT BOULEVARD JUNCTION
TO NAPA RIVER BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	1	37

LOCATION MAP



NO SCALE

PROJECT MANAGER
RAMSES SARGISS
 DESIGN ENGINEER
ABDEL M. BESHAI

Abdel Rahman M. Beshair 11/30/10
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 January 5, 2011
 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.



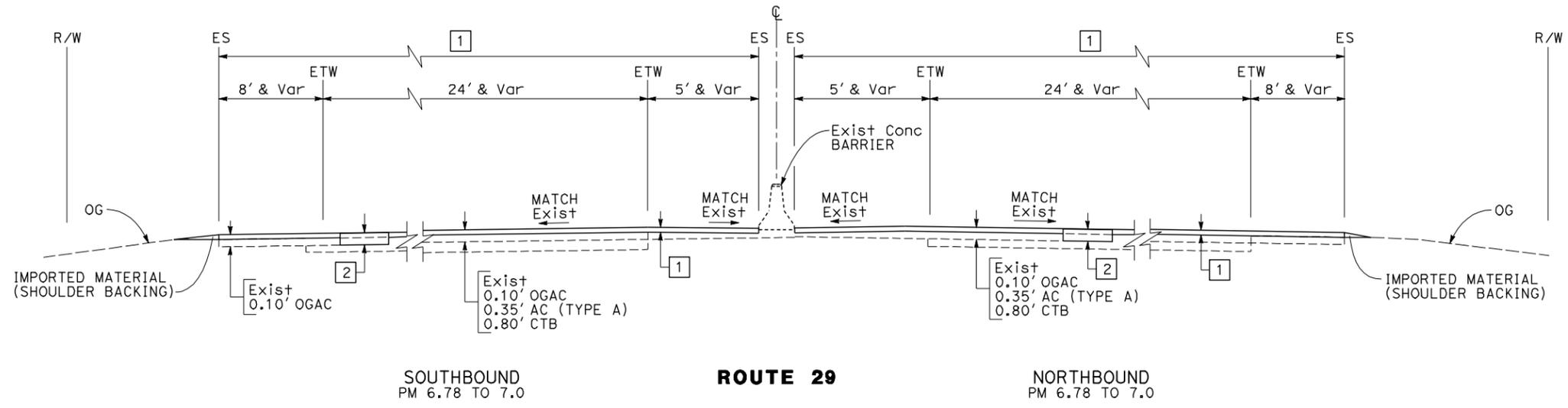
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

CONTRACT No.	04-2E1104
PROJECT ID	0400002030

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 REVISIONS:
 AB 11/15/10
 REVISOR: DATE REVISOR: DATE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	2	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 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.



LEGEND

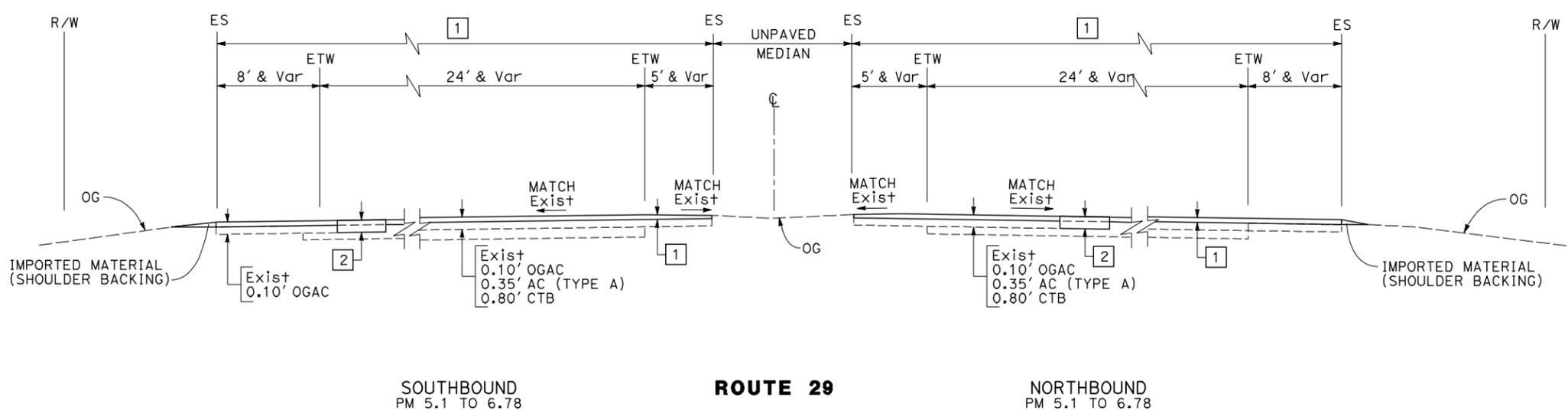
- No. STRUCTURAL SECTION TYPE
- 1 0.10' COLD PLANE AC PAVEMENT
0.10' RHMA (TYPE G)
- 2 0.35' (Max) COLD PLANE AC PAVEMENT
0.35' HMA (TYPE A)
(SEE Q-1 FOR EXACT QUANTITIES
& SEE Sht C-10 FOR DETAILS)

ABBREVIATION

RHMA-G RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

NOTES

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT THE DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. SUPERELEVATION ARE SHOWN NO THE SUPERELEVATION DIAGRAMS.
4. EXISTING UTILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



TYPICAL CROSS SECTIONS
NO SCALE

X-1

LAST REVISION 11-15-10 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 REVISOR: AB
 DATE REVISOR: 11/15/10

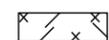
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04	Nap	29	5.1/7.0	3	37

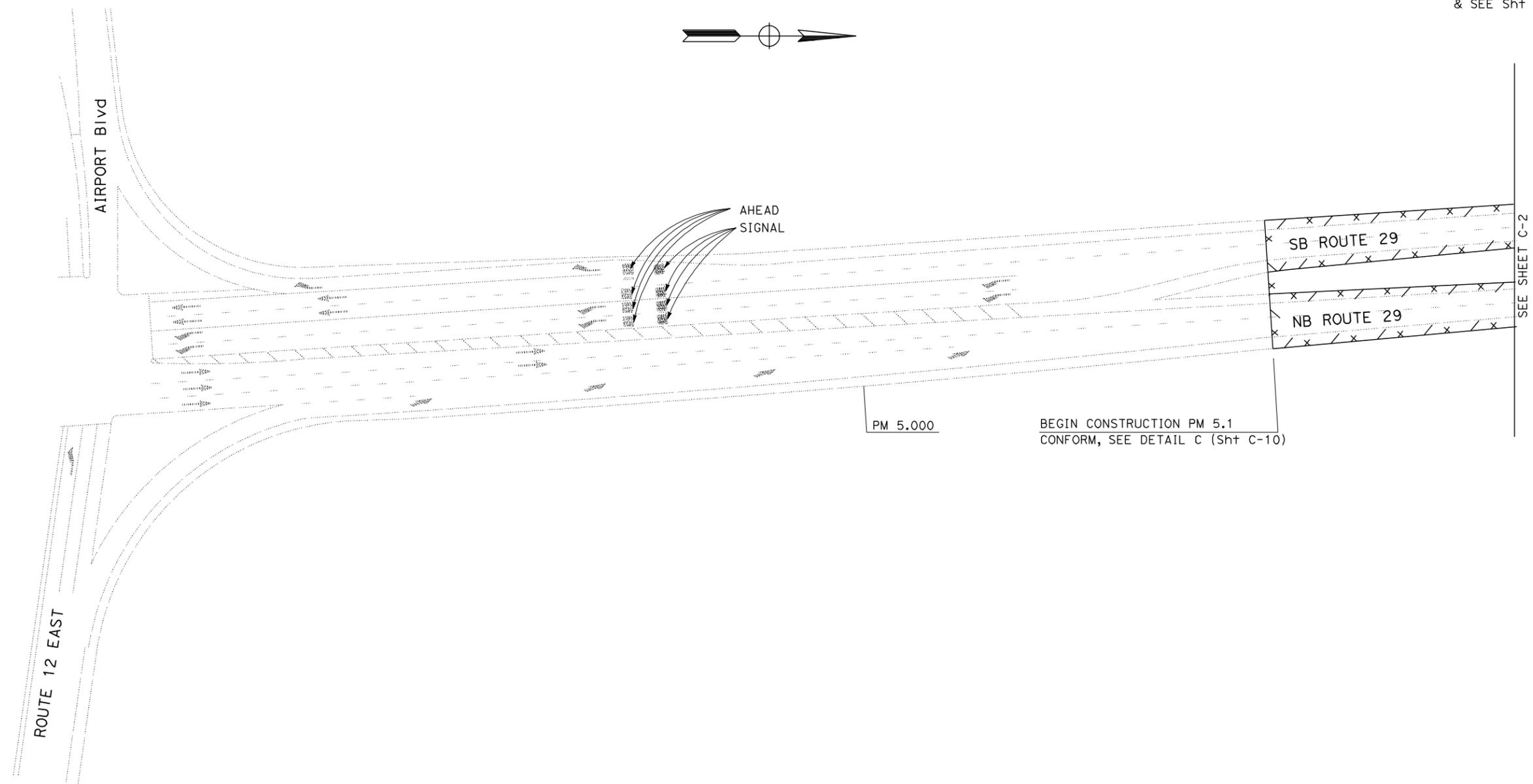
Am Rho 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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LEGEND

-  0.10' COLD PLANE AC PAVEMENT
0.10' RHMA (TYPE G)
-  0.35' (Max) COLD PLANE AC PAVEMENT
0.35' HMA (TYPE A)
(SEE Q-1 FOR EXACT QUANTITIES & SEE Sht C-10 FOR DETAILS)



CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Catrans
DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CALCULATED-DESIGNED BY
 CHECKED BY

ABDELRAHMAN BESHAI
 RONNIE CHUA

REVISOR BY
 DATE REVISED

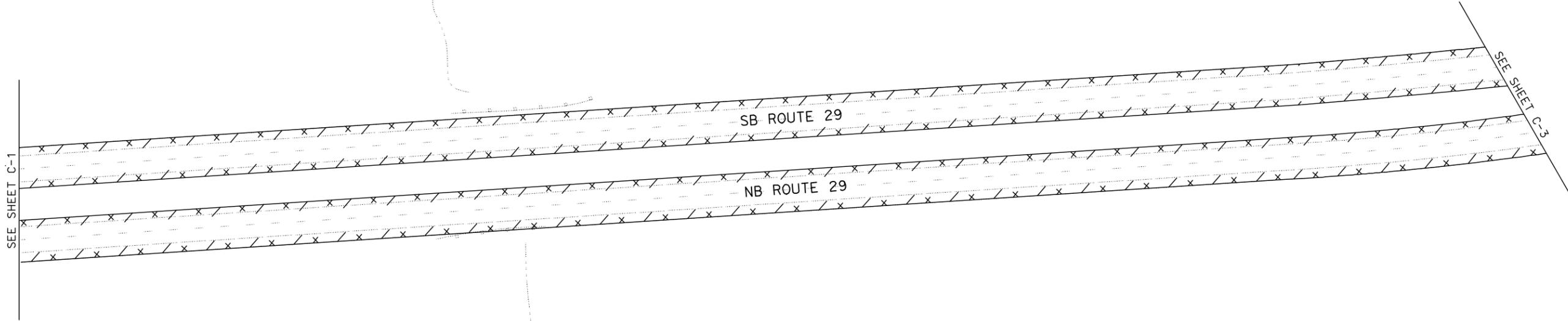
AB
 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	4	37

A. m. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS
 NO SCALE

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Catrans
DESIGN

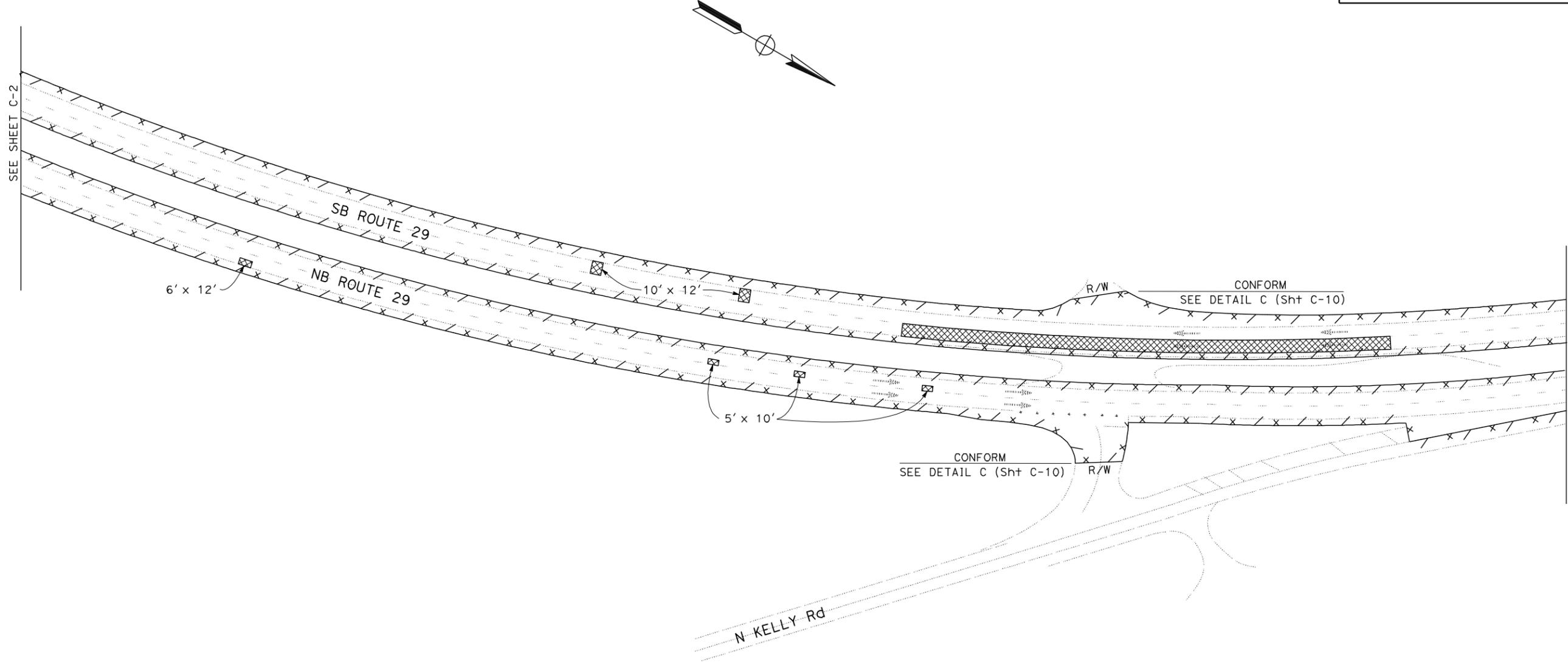
FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CALCULATED-DESIGNED BY: CHECKED BY:
 ABDELRAHMAN BESHAI: RONNIE CHUA
 REVISIONS:
 AB: 11/15/10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	5	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



UNIT 0976

PROJECT NUMBER & PHASE

04000020301

CONSTRUCTION DETAILS
 NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CALCULATED-DESIGNED BY
 CHECKED BY

ABDELRAHMAN BESHAI

REVISOR
 AB

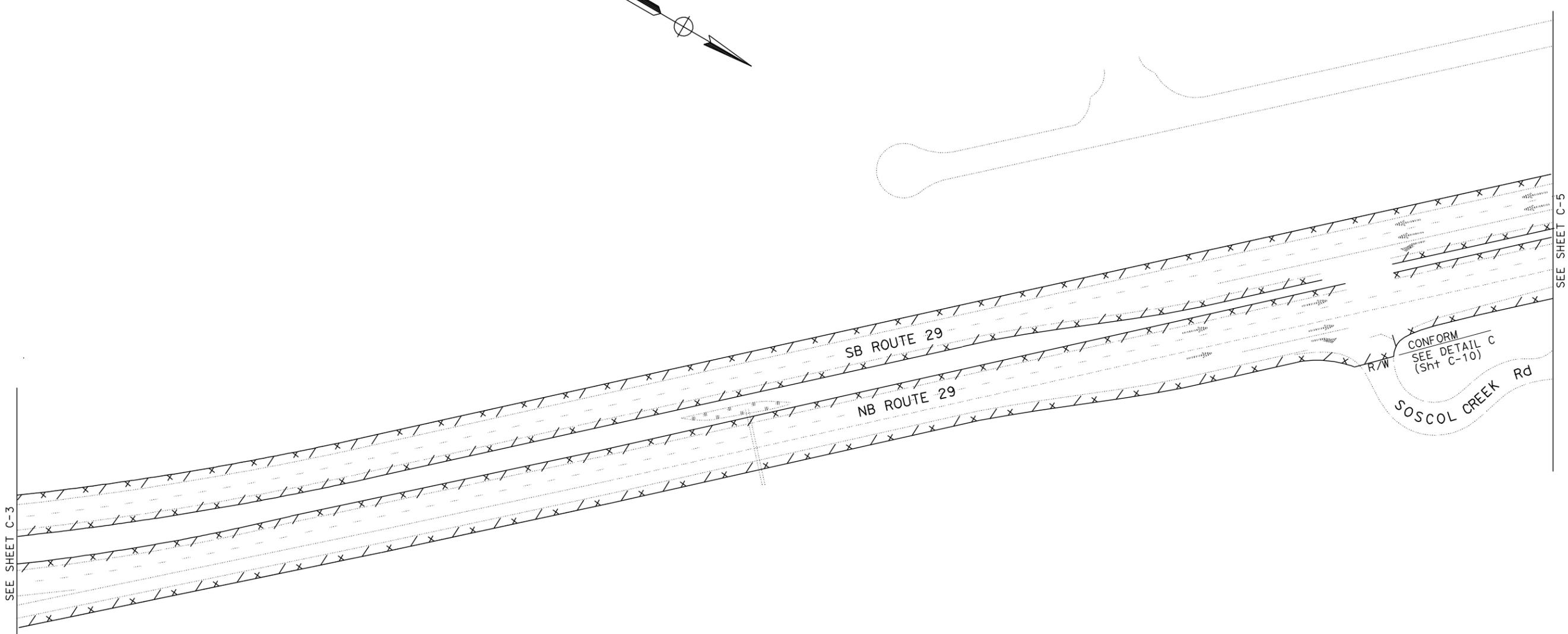
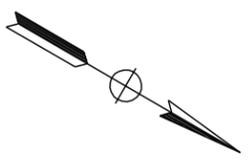
REVISION DATE
 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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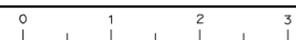
A. Beshair 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman W. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS
 NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

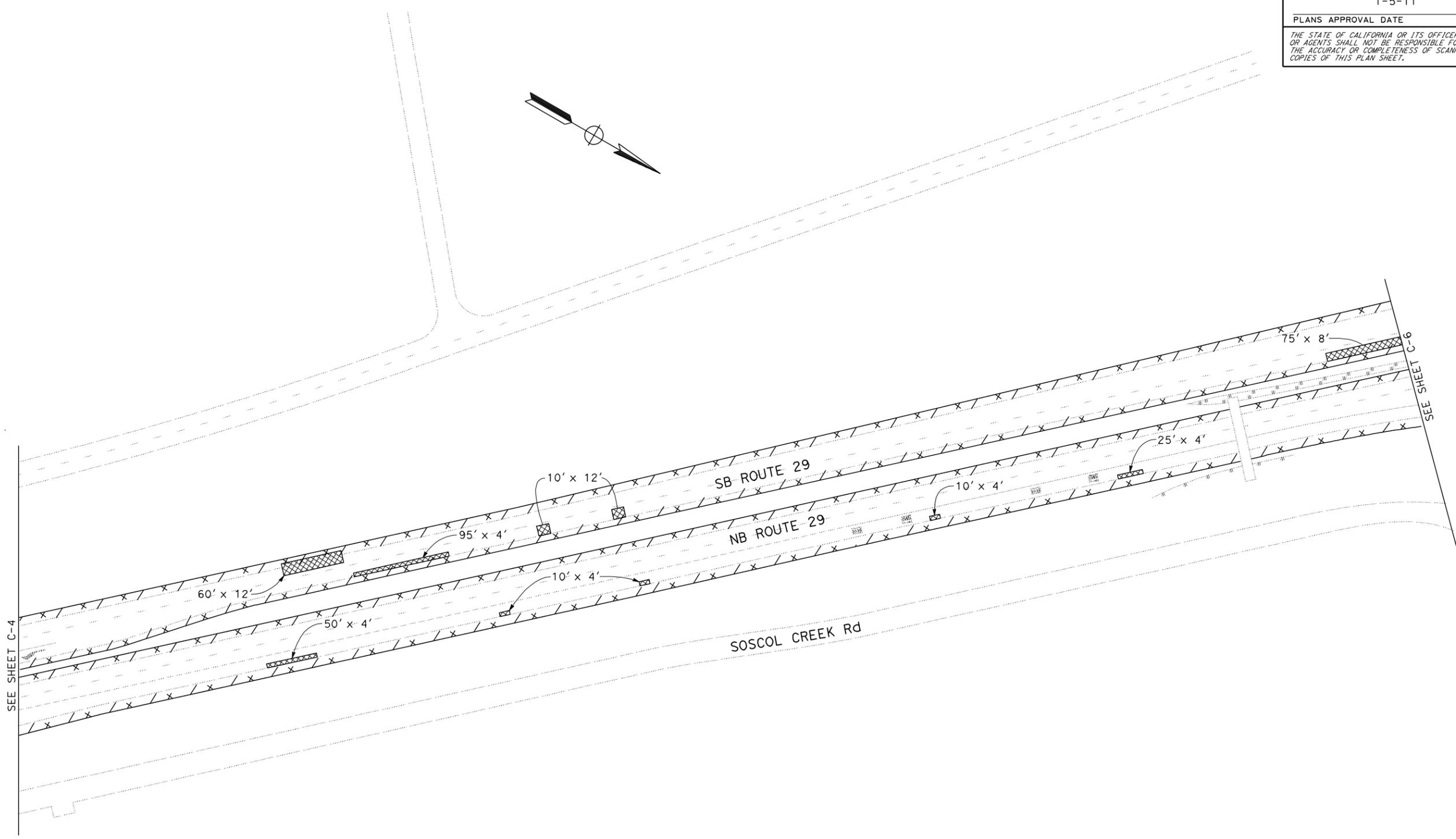
FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CALCULATED-DESIGNED BY: CHECKED BY:
 ABDELRAHMAN BESHAI
 RONNIE CHUA
 REVISIONS:
 AB 11/15/10
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	7	37

A. m. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



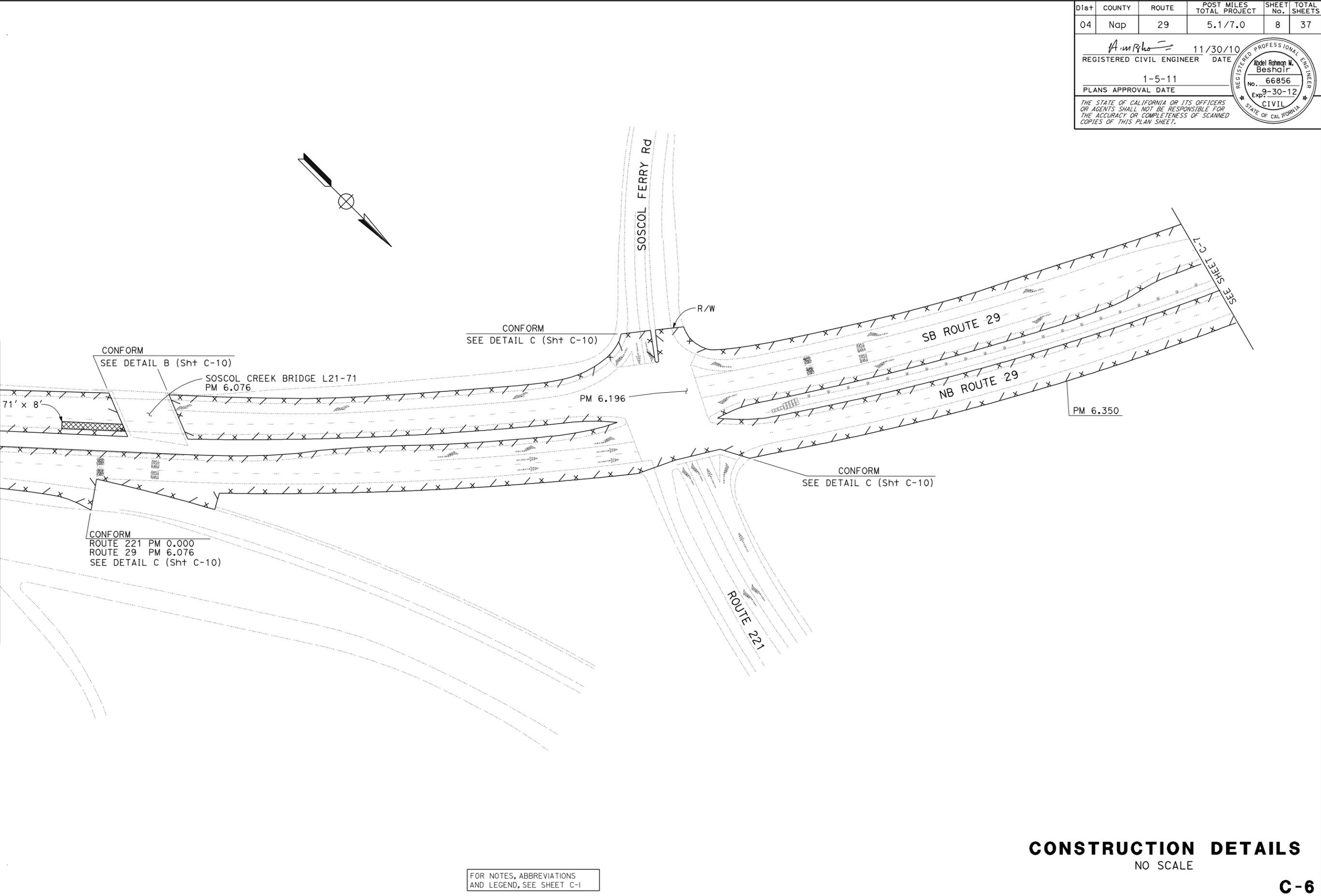
CONSTRUCTION DETAILS
 NO SCALE

C-5

LAST REVISION 11-15-10 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 REVISOR: ABDELRAHMAN BESHAI
 REVISION: AB
 DATE: 11/15/10



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	8	37

A. Beshair 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



UNIT 0976

PROJECT NUMBER & PHASE

04000020301

CONSTRUCTION DETAILS
 NO SCALE

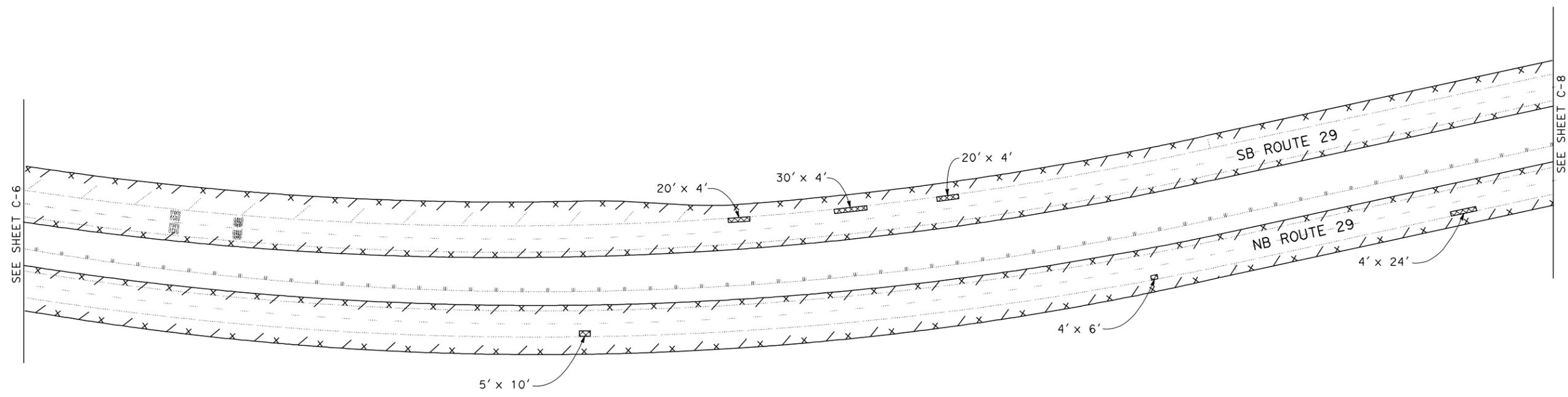
C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
St. Cattrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CALCULATED-DESIGNED BY: CHECKED BY:
 ABDELRAHMAN BESHAI
 RONNIE CHUA
 REVISOR: AB
 DATE: 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	9	37

A. m. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 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.



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



CONSTRUCTION DETAILS
 NO SCALE

C-7

LAST REVISION 11-15-10 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

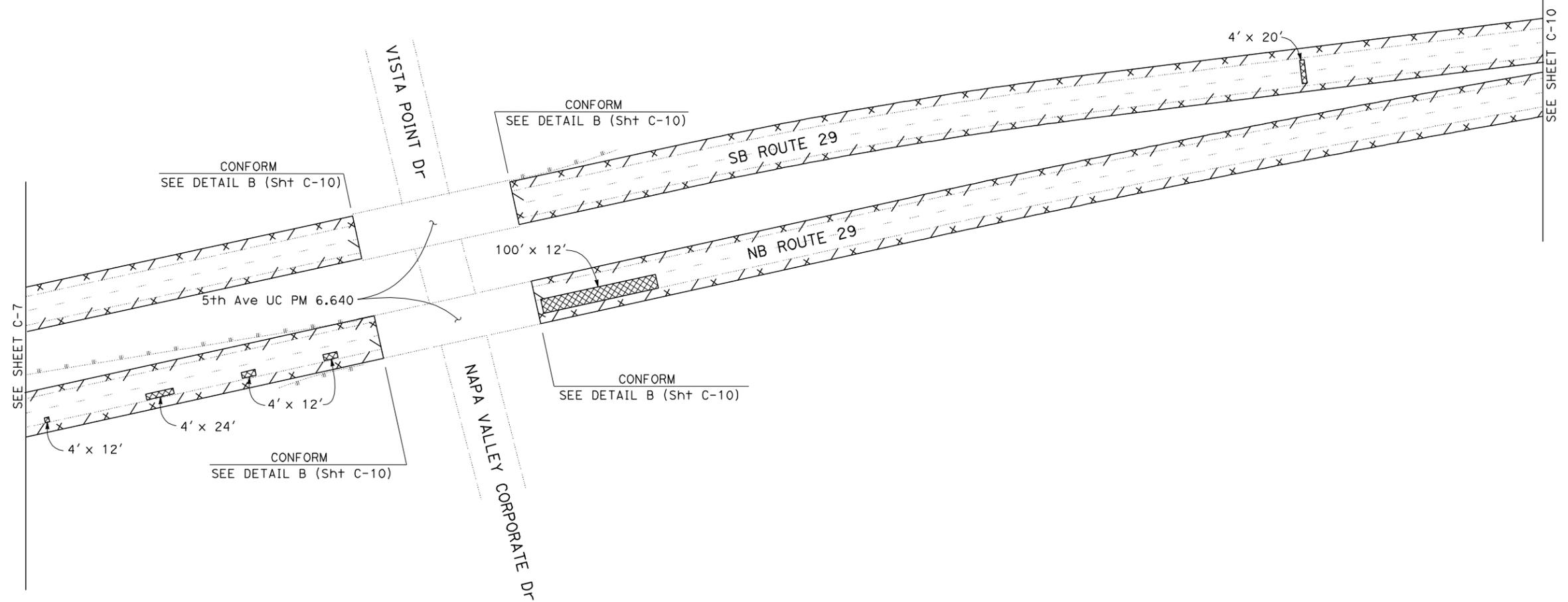
FUNCTIONAL SUPERVISOR	RONNIE CHUA
CALCULATED-DESIGNED BY	ABDELRAHMAN BESHAI
CHECKED BY	RONNIE CHUA
REVISOR	AB
DATE REVISED	11/15/10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	10	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS
 NO SCALE

C-8

LAST REVISION
 11-15-10
 DATE PLOTTED => 09-FEB-2011
 TIME PLOTTED => 09:26

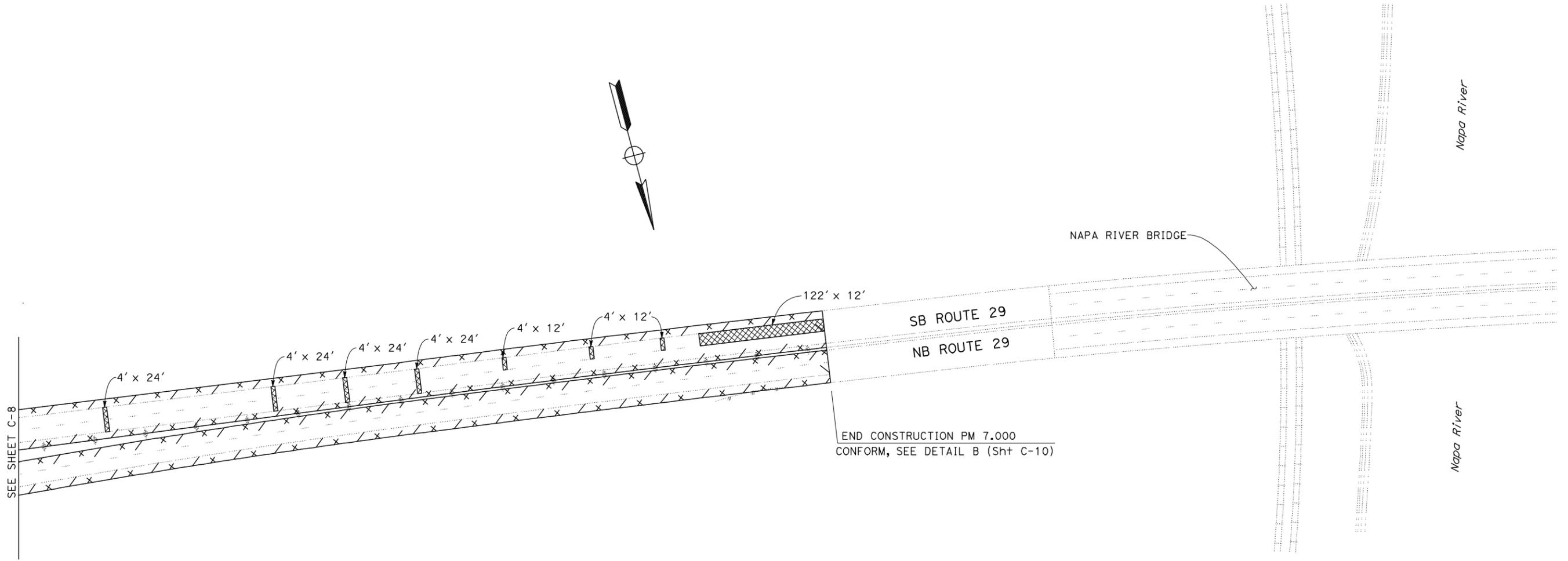
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 DESIGNED BY: ABDELRAHMAN BESHAI
 REVISIONS: AB 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	11	37

A. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



CONSTRUCTION DETAILS
 NO SCALE

C-9

LAST REVISION 11-15-10 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CALCULATED-DESIGNED BY
 CHECKED BY

ABDELRAHMAN BESHAI
 RONNIE CHUA

REVISOR BY
 DATE REVISED

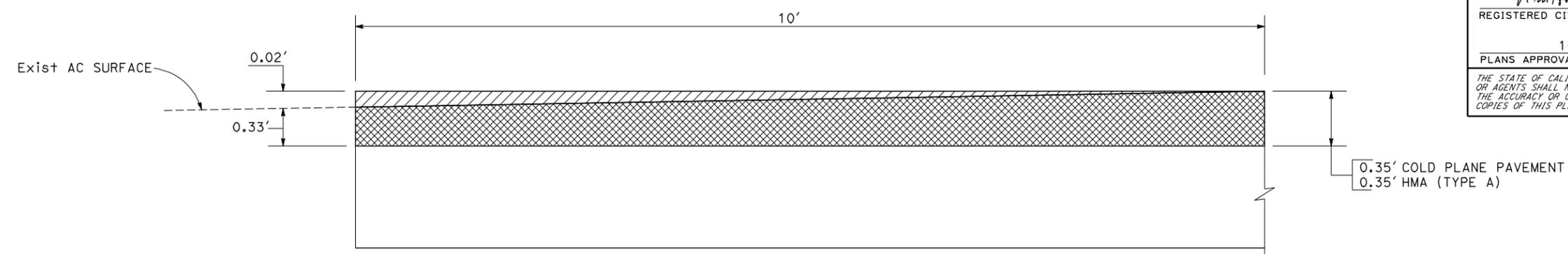
AB
 11/15/10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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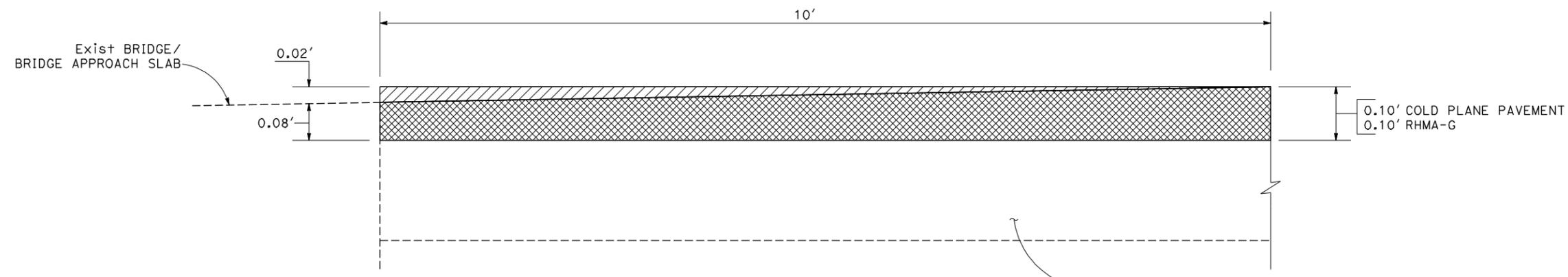
A. M. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

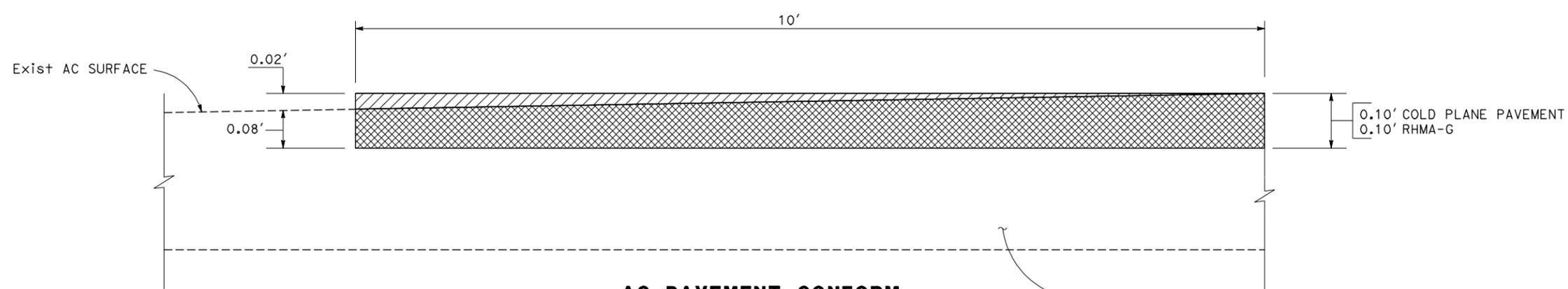
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AC PAVEMENT CONFORM
(DETAIL A)



BRIDGE APPROACH CONFORM
(DETAIL B)



AC PAVEMENT CONFORM
(DETAIL C)

CONSTRUCTION DETAILS
NO SCALE

C-10

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



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: JERILYN L. STRUVEN
 CALCULATED/DESIGNED BY: JERILYN L. STRUVEN
 HERMIN O. RUIDERA
 REVISOR: A
 DATE: 10-21-10
 REVISOR: A
 DATE: 10-10-10

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	No. OF SIGNS
1	W20-1	ROAD WORK AHEAD	36'' x 36''	(ONE) 4'' x 6''	6
2	G20-2	END ROAD WORK	36'' x 18''	(ONE) 4'' x 4''	2
3	G20-1	ROAD WORK NEXT 8 MILES	36'' x 18''	(ONE) 4'' x 4''	2
4	C40A(CA)	TRAFFIC FINE DOUBLE	36'' x 36''	(ONE) 4'' x 4''	2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	13	37

Jerilyn L. Struven 12/1/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

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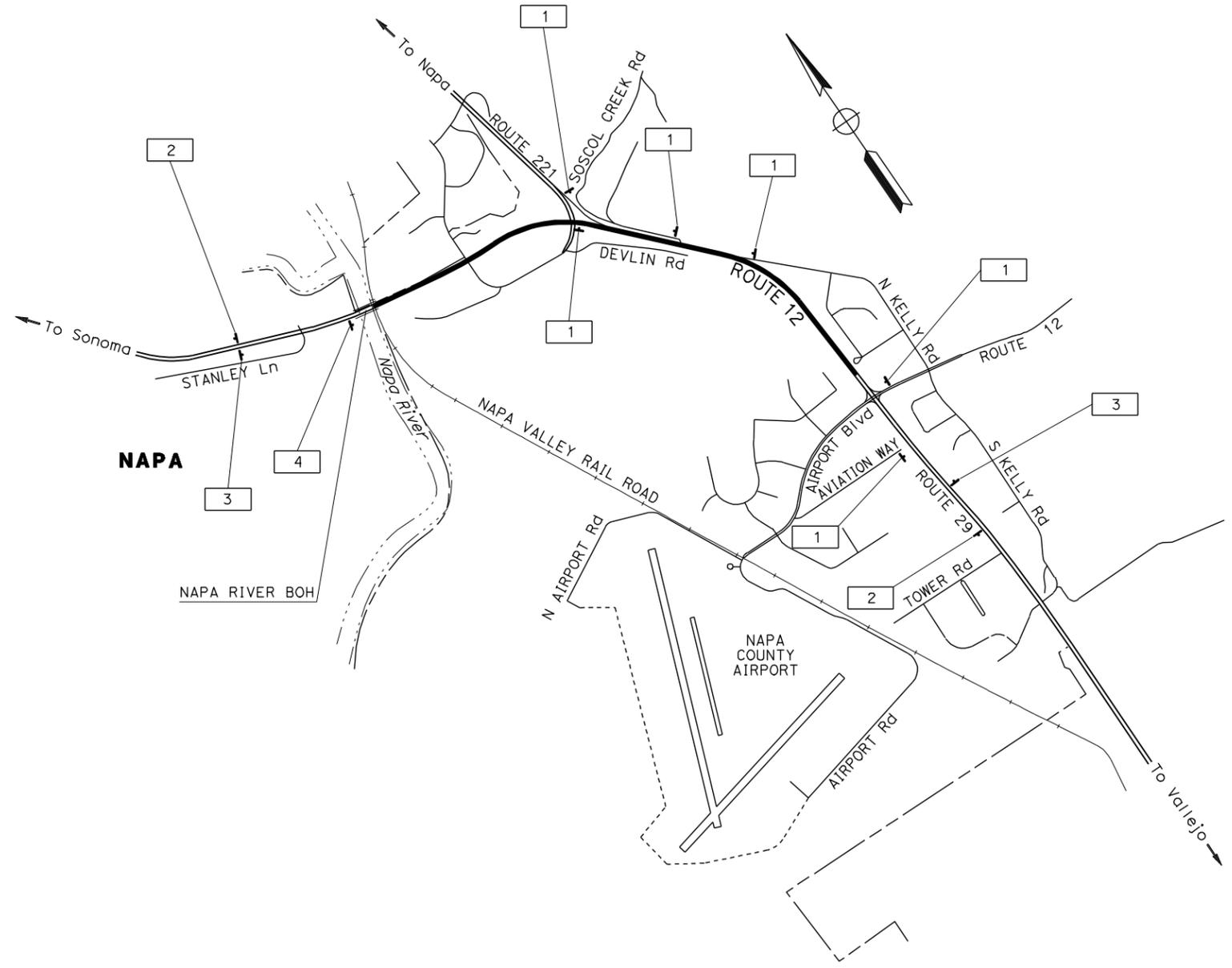
REGISTERED PROFESSIONAL ENGINEER
 Jerilyn L. Struven
 No. 49964
 Exp. 12-31-10
 CIVIL
 STATE OF CALIFORNIA

LEGEND:

No. CONSTRUCTION AREA SIGN DESIGNATION

NOTE:

EXACT LOCATION AND POSITION OF SIGN TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
 NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

LAST REVISION
 DATE PLOTTED => 09-FEB-2011
 TIME PLOTTED => 09:27

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR	RONNIE CHUA	CHECKED BY	RONNIE CHUA	DESIGNED BY	ABDELRAHMAN BESHAI	REVISOR	AB	DATE	11/15/10
--	--------	-----------------------	-------------	------------	-------------	-------------	--------------------	---------	----	------	----------

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	14	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

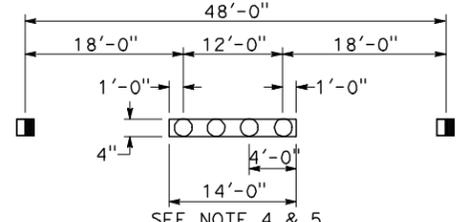
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES

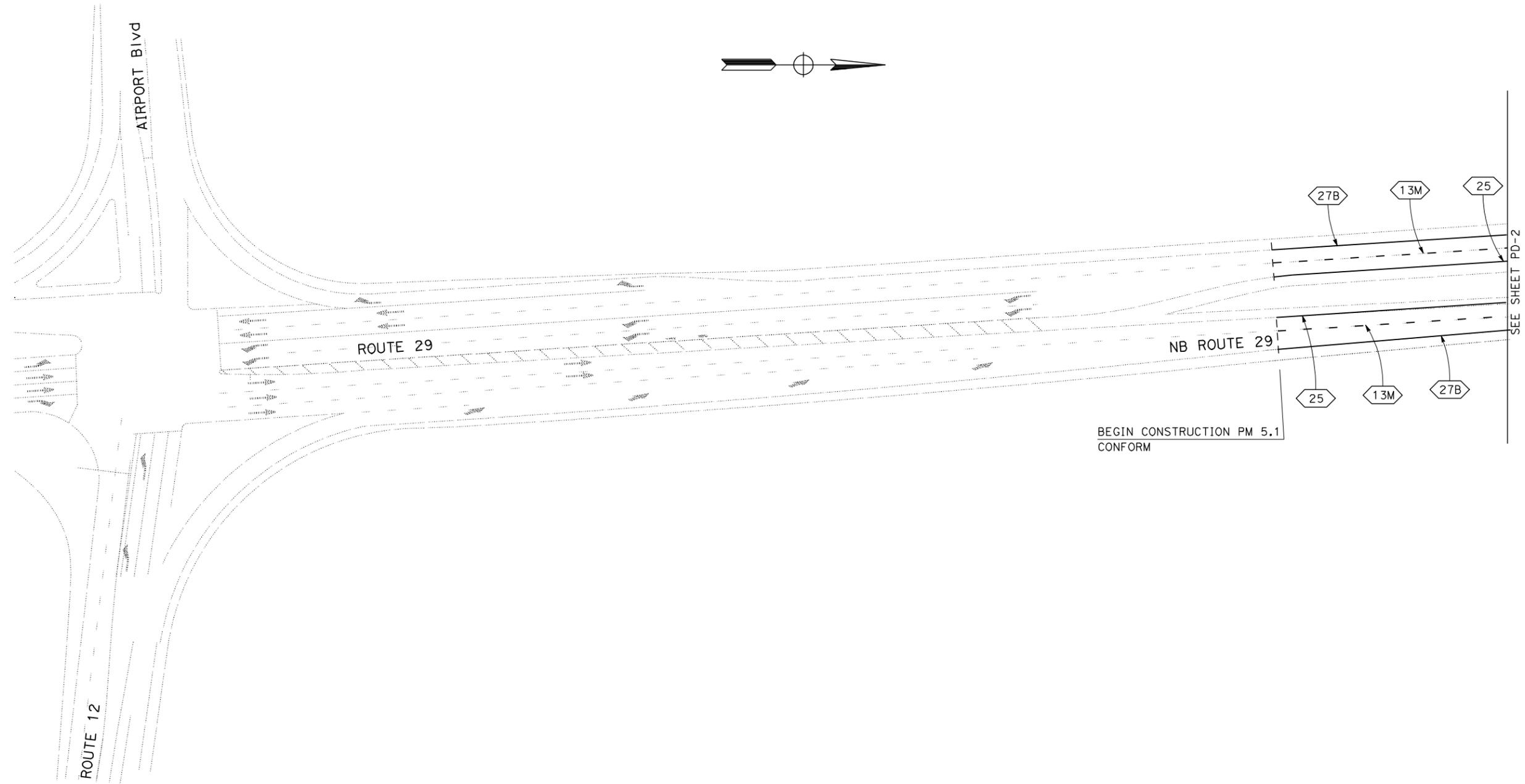
1. ALL LANES 12' WIDE UNLESS NOTED.
2. ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED IN THE SAME LOCATION AS EXISTING.
3. FOR PAVEMENT DELINEATION QUANTITIES, SEE SHEET PDQ-1.
4. FOR INFORMATION NOT SHOWN ON DETAIL 13M, SEE S+d PLANS A20A, DETAIL 13.
5. APPLY 4" STRIPE AFTER INSTALLATION PAVEMENT MARKERS.

LEGEND

- PAVEMENT DELINEATION DETAIL
- CHANGE OF PAVEMENT DELINEATION DETAIL
- DIRECTION OF TRAFFIC



SEE NOTE 4 & 5
DETAIL 13M



PAVEMENT DELINEATION PLAN

SCALE: 1" = 50'

PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

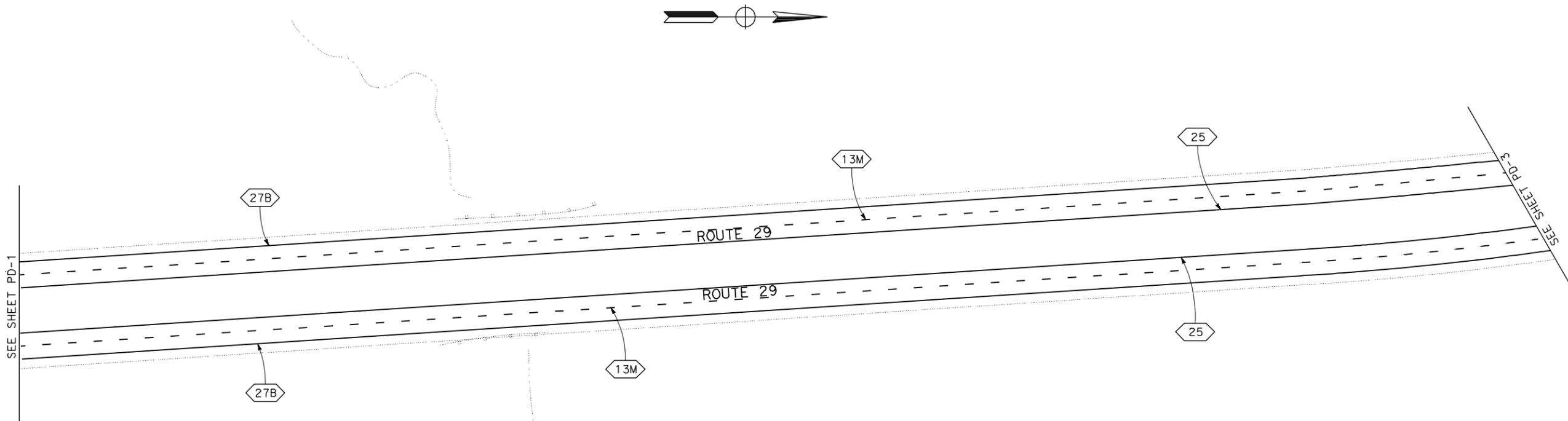
FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 CHECKED BY: RONNIE CHUA
 REVISIONS: AB 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	15	37

A. M. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-2



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CALCULATED-DESIGNED BY
 CHECKED BY

ABDELRAHMAN BESHAI
 RONNIE CHUA

REVISOR BY
 DATE REVISED

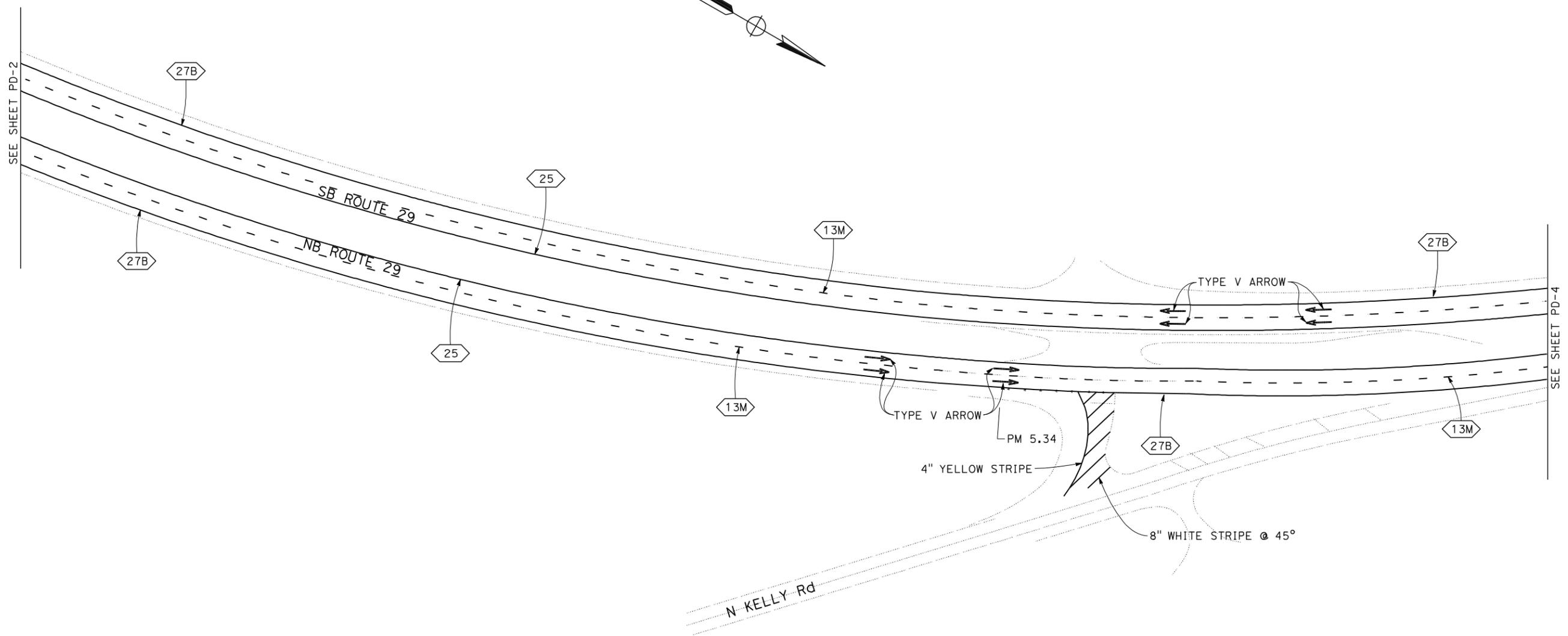
AB
 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	16	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY



UNIT 0976

PROJECT NUMBER & PHASE

04000020301

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-3

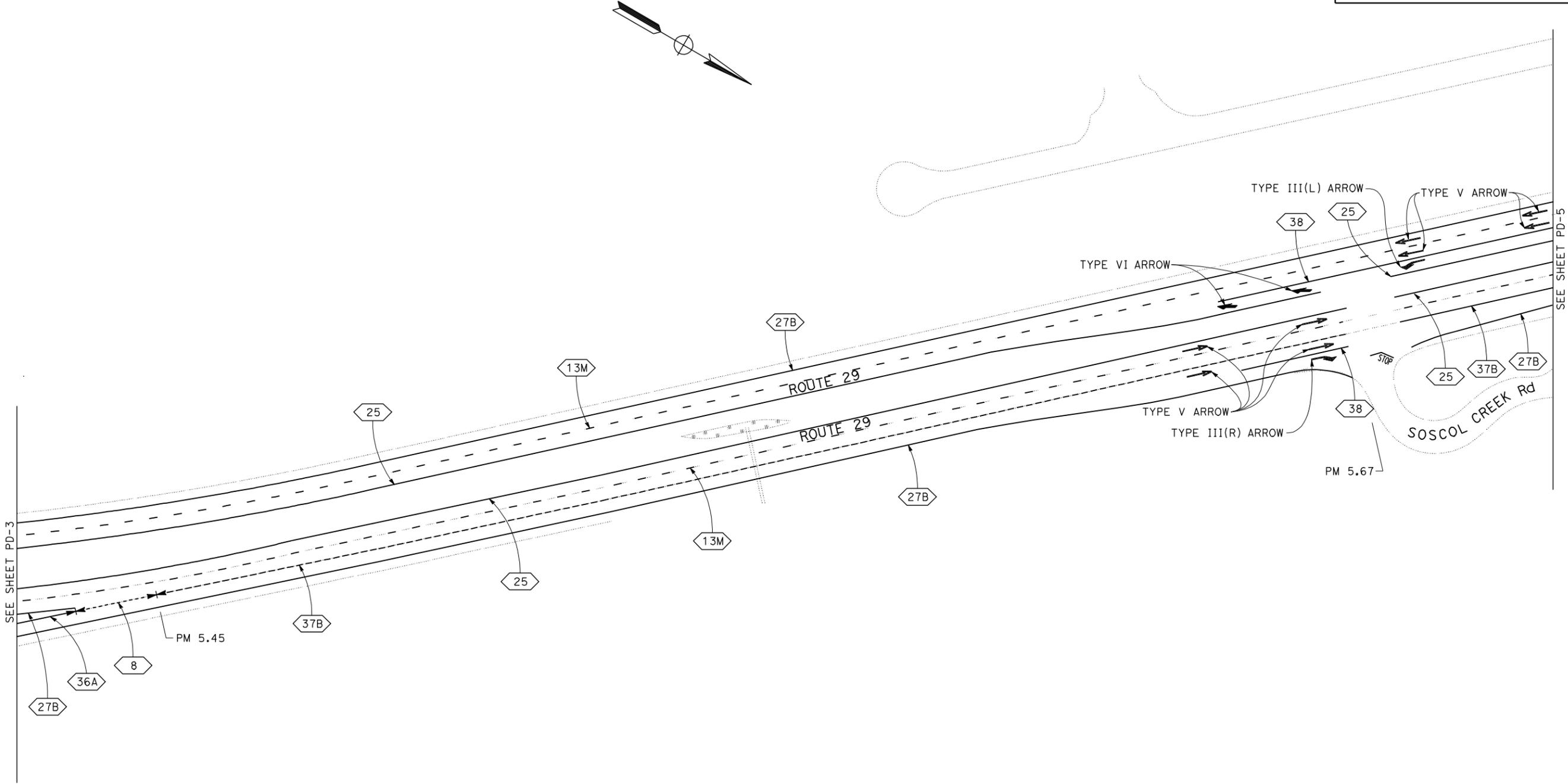
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 CHECKED BY: RONNIE CHUA
 REVISOR: AB
 DATE REVISOR: 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	17	37

A. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai

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PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-4

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CALCULATED-DESIGNED BY
 CHECKED BY
 ABDELRAHMAN BESHAI
 RONNIE CHUA

REVISOR
 AB

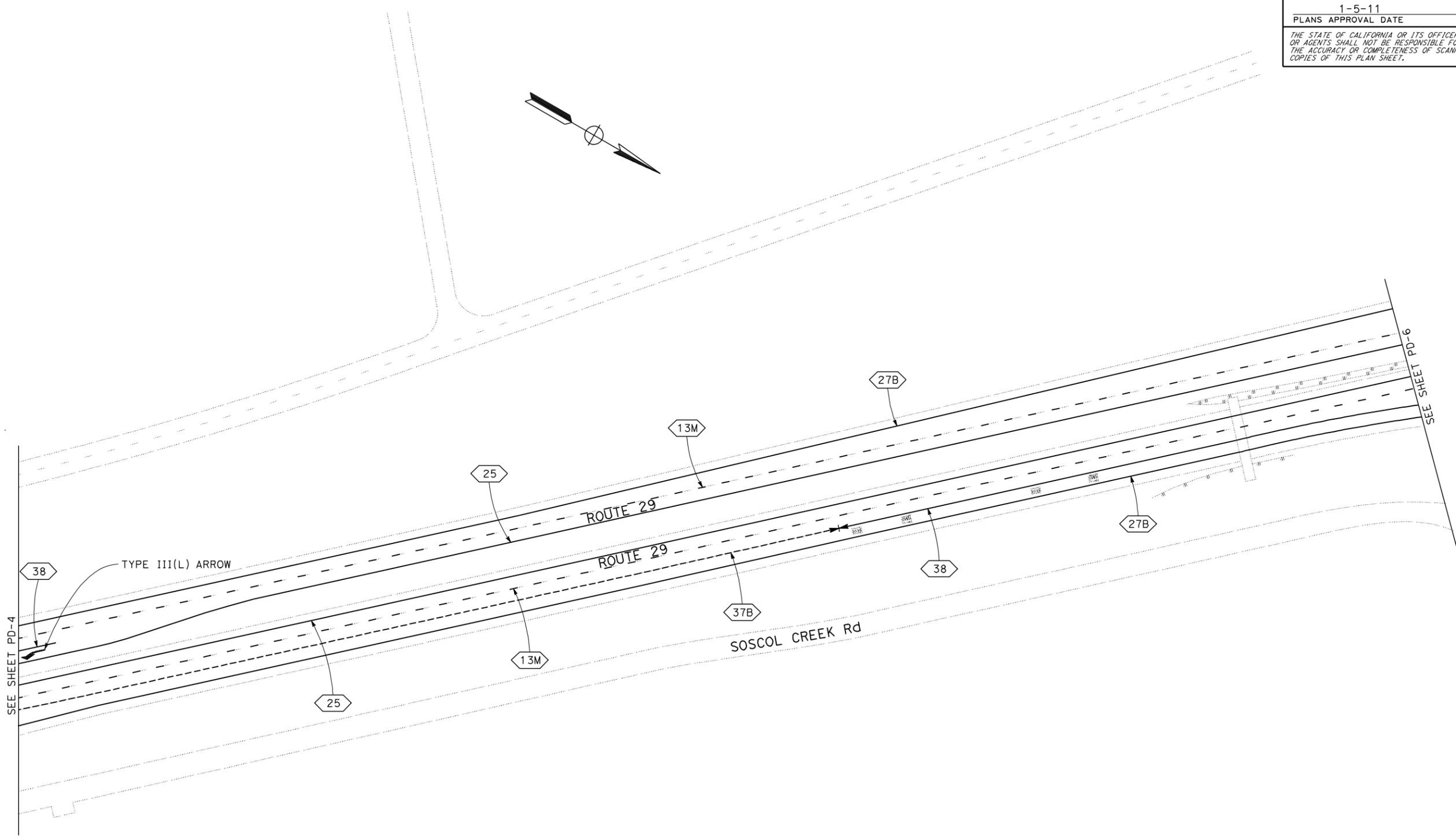
REVISION
 DATE
 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	18	37

A. m. Beshai 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshai
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-5

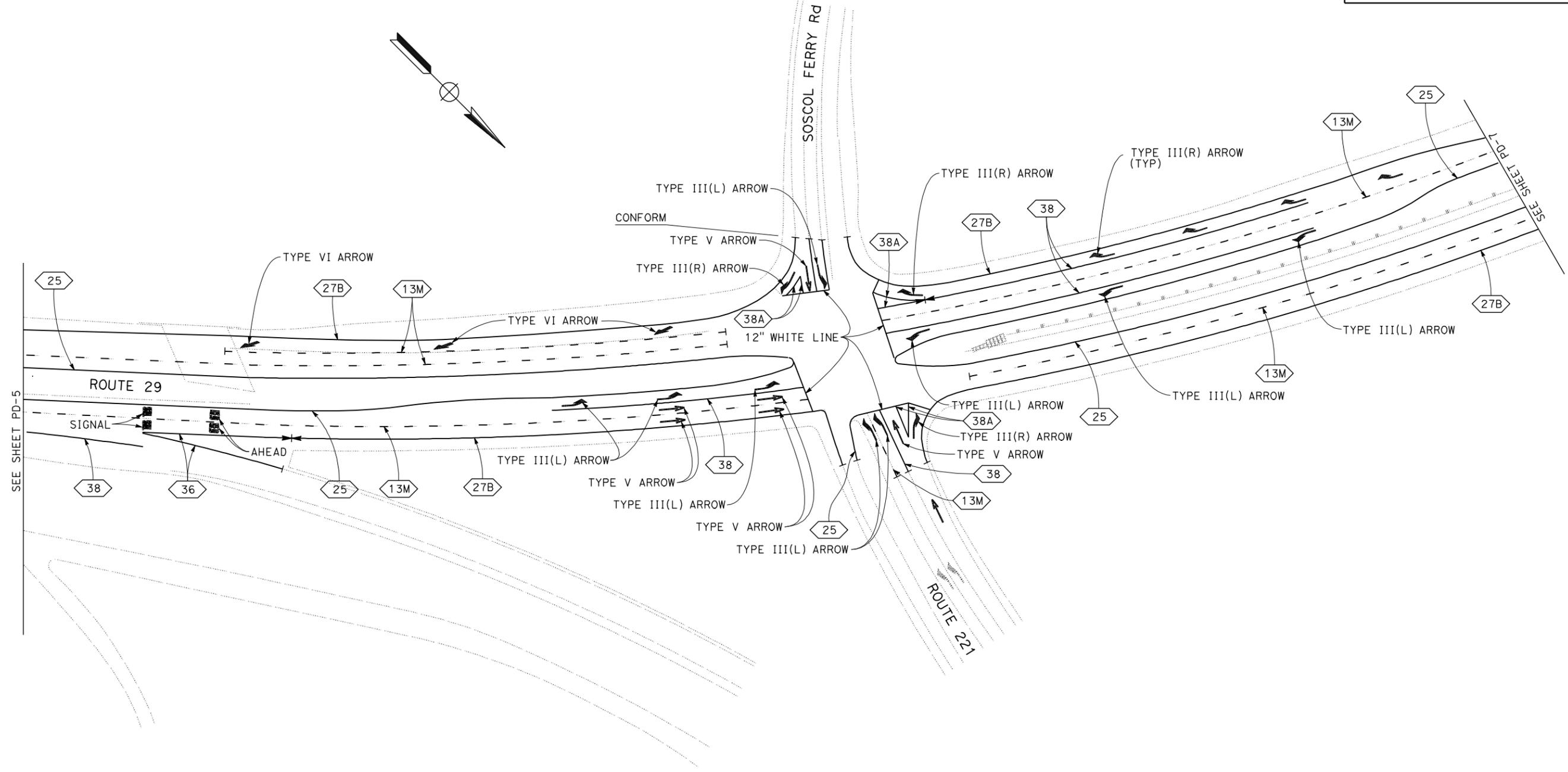


STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 REVISOR: AB
 DATE REVISOR: 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	19	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA



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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

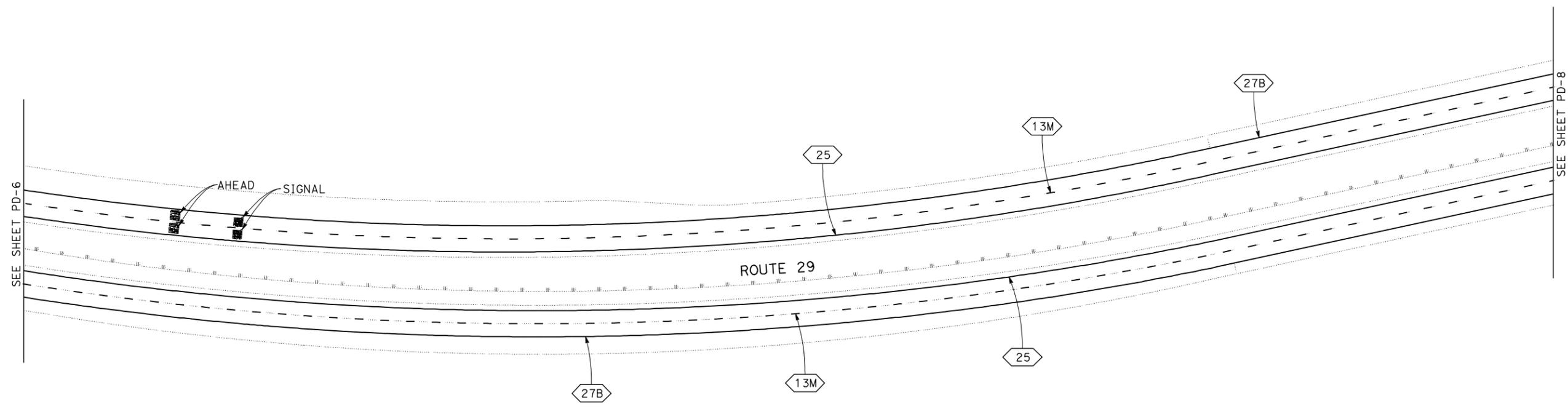
FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 REVISIONS:
 AB 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	20	37

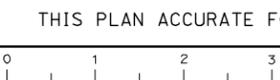
A. m. Beshair 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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



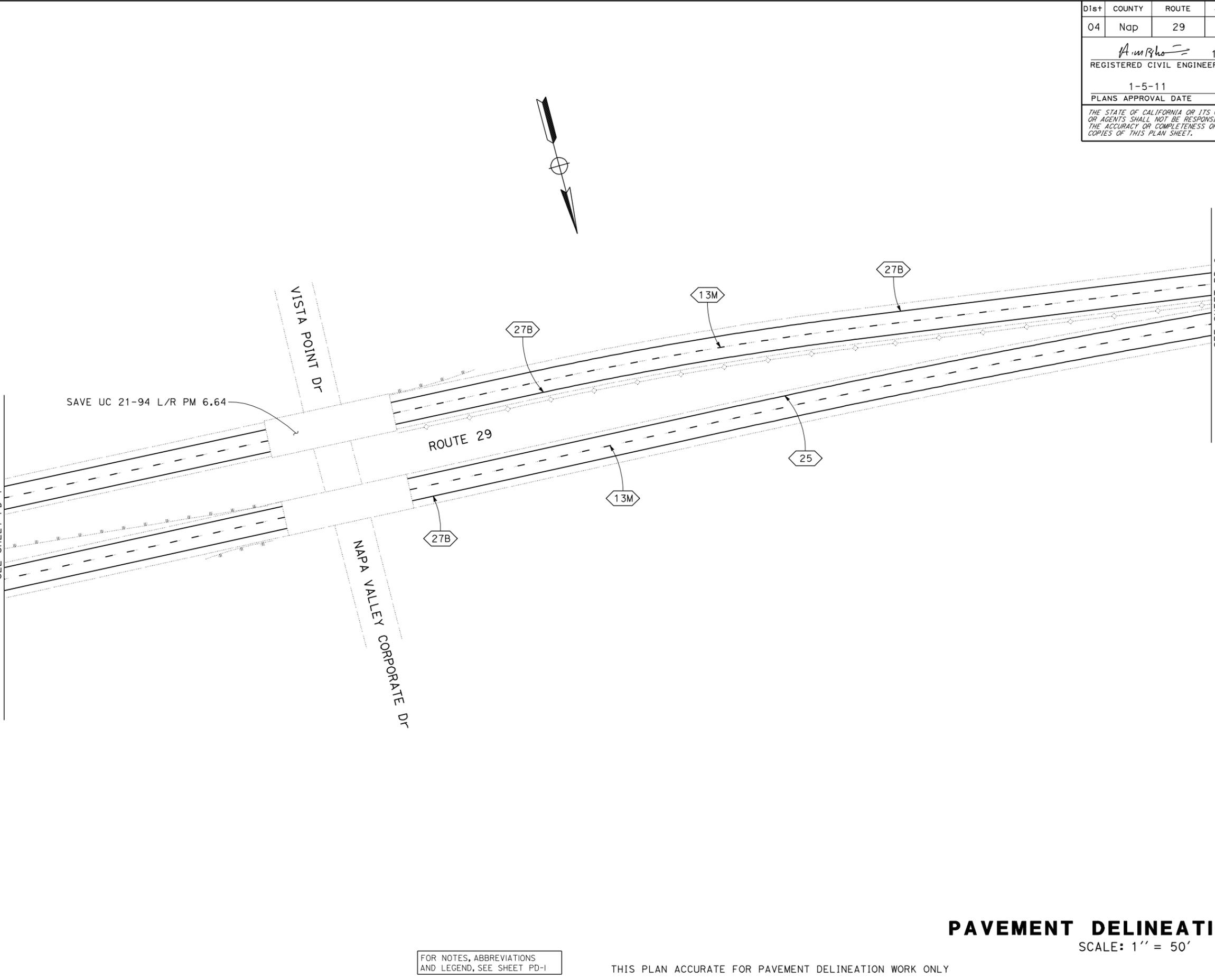
THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR	RONNIE CHUA
CALCULATED-DESIGNED BY	CHECKED BY
ABDELRAHMAN BESHAI	RONNIE CHUA
REVISOR	DATE
AB	11/15/10



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	21	37

11/30/10
 REGISTERED CIVIL ENGINEER DATE

1-5-11
 PLANS APPROVAL DATE

Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-8



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

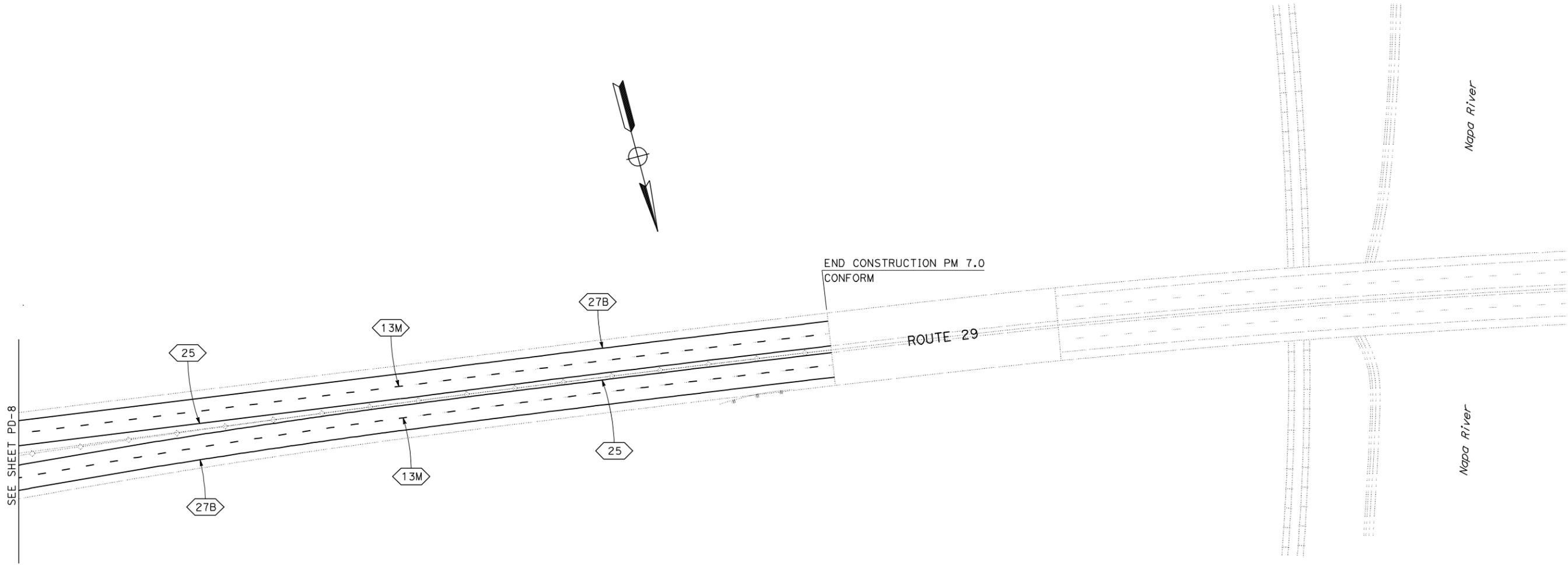
FUNCTIONAL SUPERVISOR RONNIE CHUA	CALCULATED-DESIGNED BY CHECKED BY	ABDELRAHMAN BESHAI RONNIE CHUA	REVISOR DATE REVISOR	REVISION DATE
			AB	11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	22	37

A. Beshair 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Abdel Rahman M. Beshair
 No. 66856
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN
 SCALE: 1" = 50'

PD-9



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN

FUNCTIONAL SUPERVISOR
 RONNIE CHUA

CHECKED BY
 RONNIE CHUA

DESIGNED BY
 ABDELRAHMAN BESHAI

REVISOR
 AB

DATE REVISION
 11/15/10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	23	37

Am Rho 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 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.

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

PM	DIRECTION	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING					PAVEMENT MARKER			REMOVE PAVEMENT MARKER			
			4" YELLOW	4" WHITE	4" (36-12) BROKEN WHITE	8" WHITE	8" (12-3) BROKEN WHITE	TYPE III	TYPE V	TYPE VI	SIGNAL	AHEAD	STOP	RETROREFLECTIVE					
			LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	TYPE C	TYPE G		TYPE H	EA	
5.10 TO 6.95	NB	13M			9768										815	205		1020	
5.10 TO 6.95		25	9768														205	205	
5.10 TO 6.95		27B		9768															
6.15		36																12	12
5.67 TO 6.11		38					240	3116										49	49
5.10 TO 6.95		38A																	
5.36 TO 6.11		(14 EACH) TYPE V ARROW									462								
5.67		STOP																	22
6.11		(3 EACH) TYPE III ARROW (L)										126							
5.67		TYPE III ARROW (R)										42							
6.10		(2 EACH) SIGNAL												64					
6.10		(2 EACH) AHEAD													62				
5.10 TO 6.95		SB	13M			9768										815	205		1020
5.10 TO 6.95			25	9768														205	205
5.10 TO 6.95	27B			9768															
5.67 TO 6.11	38						776											34	34
5.10 TO 6.95	38A																		
5.36 TO 6.11	(10 EACH) TYPE V ARROW																		
5.67	(3 EACH) TYPE VI ARROW																		
5.67 TO 6.11	(4 EACH) TYPE III ARROW (L)												168						
6.11	(4 EACH) TYPE III ARROW (R)												168						
6.11	(5 EACH) TYPE VI ARROW (R) (R-LANE DROP)																		210
6.20	(2 EACH) SIGNAL													64					
6.20	(2 EACH) AHEAD														62				
SUBTOTAL			19536	19536	19536	2461	3116	504	782	210	128	124	22	1630	610	410	2650		
TOTAL			58608			5817		1770					2650			2650			

PAVEMENT DELINEATION QUANTITIES
PDQ-1

LAST REVISION 11-15-10 DATE PLOTTED => 09-FEB-2011 TIME PLOTTED => 09:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	24	37

Amr Rho 11/30/10
 REGISTERED CIVIL ENGINEER DATE
 1-5-11
 PLANS APPROVAL DATE

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**ROADWAY QUANTITIES (MAINLINE)
COLD PLANE AC PAVEMENT (0.35' Max)**

PM	DIRECTION	LANE No.	COLD PLANE AC PAVEMENT (0.35' Max)			HOT MIX ASPHALT (TYPE A)	TACK COAT	
			LENGTH	WIDTH	AREA			
			LF(N)	SQYD	TON			
5.35	NB	2	12	6	8.00	1.89	0.01	
5.40		1	5	10	5.56	1.31	0.01	
5.40		1	5	10	5.56	1.31	0.01	
5.40		1	5	10	5.56	1.31	0.01	
5.72		Aux LANE	50	4	22.22	5.25	0.02	
5.72		Aux LANE	20	4	8.89	2.10	0.01	
5.96		Aux LANE	10	4	4.44	1.05	0.01	
5.96		Aux LANE	25	4	11.11	2.63	0.01	
6.20		2	5	10	5.56	1.31	0.01	
6.30		2	4	6	2.67	0.63	0.01	
6.35		2	4	24	10.67	2.52	0.01	
6.50		2	4	12	5.33	1.26	0.01	
6.50		2	4	24	10.67	2.52	0.01	
6.50		2	4	12	5.33	1.26	0.01	
6.50		2	4	12	5.33	1.26	0.01	
6.64		2	100	12	133.33	31.50	0.14	
6.65		1, 2	20	4	8.89	2.10	0.01	
5.35		SB	2	10	12	133.33	3.15	0.01
5.35			2	10	12	133.33	3.15	0.01
5.40			1	300	12	400.00	94.50	0.42
5.72	2		60	12	80.00	18.90	0.08	
5.72	1		95	4	42.22	9.98	0.04	
5.72	1		20	12	26.67	6.30	0.03	
5.96	1		75	5	41.67	9.84	0.04	
6.07	1		72	8	64.00	15.12	0.07	
6.17	2		70	4	31.11	7.35	0.03	
6.67	1, 2		96	4	42.67	10.08	0.04	
6.68	1, 2		12	4	5.33	1.26	0.01	
6.68	2		24	4	10.67	2.52	0.01	
6.67	2	122	12	162.67	38.43	0.17		
SUB TOTAL					1192.78	281.79	1.26	

ROADWAY QUANTITIES (SHOULDER)

PM	DIRECTION	SHOULDER	COLD PLANE AC PAVEMENT (0.10' Max)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT	IMPORTED MATERIALS (SHld BACKING)
			SQYD	TON		
			5.10 TO 5.45	NB	OUTSIDE & INSIDE	3285.33
5.45 TO 6.04	OUTSIDE & INSIDE	5538.13	373.82		2.31	95.32
6.04 TO 7.00	OUTSIDE & INSIDE	8541.87	576.58		3.56	147.00
7.00 TO 6.35	SB	OUTSIDE & INSIDE	5632.00	380.16	2.35	96.94
6.35 TO 6.25		OUTSIDE & INSIDE	938.67	63.36	0.39	16.16
6.25 TO 6.12		OUTSIDE & INSIDE	1220.27	82.37	0.51	21.02
6.12 TO 6.03		OUTSIDE & INSIDE	944.80	57.02	0.35	14.54
6.03 TO 5.74		OUTSIDE & INSIDE	2722.13	183.74	1.13	46.85
5.74 TO 5.68		OUTSIDE & INSIDE	563.20	38.02	0.23	9.67
5.68 TO 5.10		OUTSIDE & INSIDE	5444.27	367.49	1.37	93.70
SUB TOTAL			34730.67	2344.32	14.47	597.74

**ROADWAY QUANTITIES (MAINLINE)
COLD PLANE AC PAVEMENT (0.10' Max)**

PM	DIRECTION	LANE No.	COLD PLANE AC PAVEMENT (0.10' Max)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT
			SQYD	TON	
			5.10 TO 5.45	NB	1, 2
5.45 TO 6.04	1, 2, Aux	12460.80	841.10		5.19
6.04 TO 7.00	1, 2, LEFT TURN POCKET	13146.13	887.36		5.48
7.00 TO 6.35	SB	1, 2	8448.00	570.24	3.52
6.35 TO 6.25		1, 2, RIGHT TURN POCKET	1741.00	117.52	0.73
6.25 TO 6.12		1, 2, LEFT TURN POCKET	3661.33	247.14	1.53
		RIGHT TURN POCKET			
6.12 TO 6.03		1, 2, 3	1900.80	128.30	0.79
6.03 TO 5.74		1, 2	4083.20	275.62	1.70
5.74 TO 5.68	1, 2, LEFT TURN POCKET	1264.00	85.32	0.53	
5.68 TO 5.10	1, 2		8166.40	551.23	3.40
SUB TOTAL			59799.66	4036.48	24.92

SUMMARY OF ROADWAY QUANTITIES

ROADWAY QUANTITIES	COLD PLANE AC PAVEMENT		HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)
	(0.10' Max)	(0.35' Max)				
	SQYD	TON				
SUBTOTAL COLD PLANE 0.10' ON MAINLINE	59799.66			4046.48	24.92	
SUBTOTAL COLD PLANE 0.35' ON MAINLINE		1192.78	281.79		1.26	
SUBTOTAL SHOULDER	34730.67			2344.32	14.47	597.74
TOTAL	94530.33	1192.78	281.79	6390.80	40.65	597.74
GRAND TOTAL		95723.11	281.79	6390.80	40.65	597.74

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DESIGN
 FUNCTIONAL SUPERVISOR: RONNIE CHUA
 CHECKED BY: RONNIE CHUA
 CALCULATED-DESIGNED BY: ABDELRAHMAN BESHAI
 REVISIONS: AB, 11/15/10
 REVISOR: AB, 11/15/10

DATE PLOTTED => 09-FEB-2011
 TIME PLOTTED => 09:28
 LAST REVISION 11-15-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	29	5.1/7.0	25	37

<i>Elaine Wong</i>	12/1/10
REGISTERED ELECTRICAL ENGINEER	DATE
1-5-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
Elaine T. Wong
No. 13753
Exp. 6-30-11
ELECT
STATE OF CALIFORNIA

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PROJECT NOTES

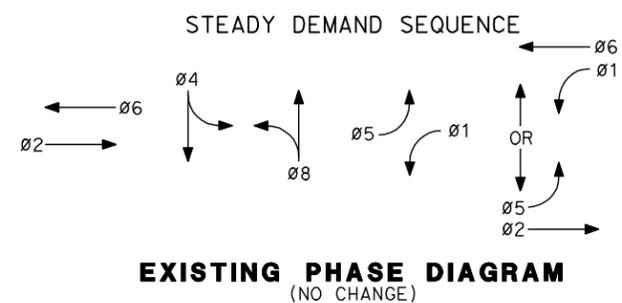
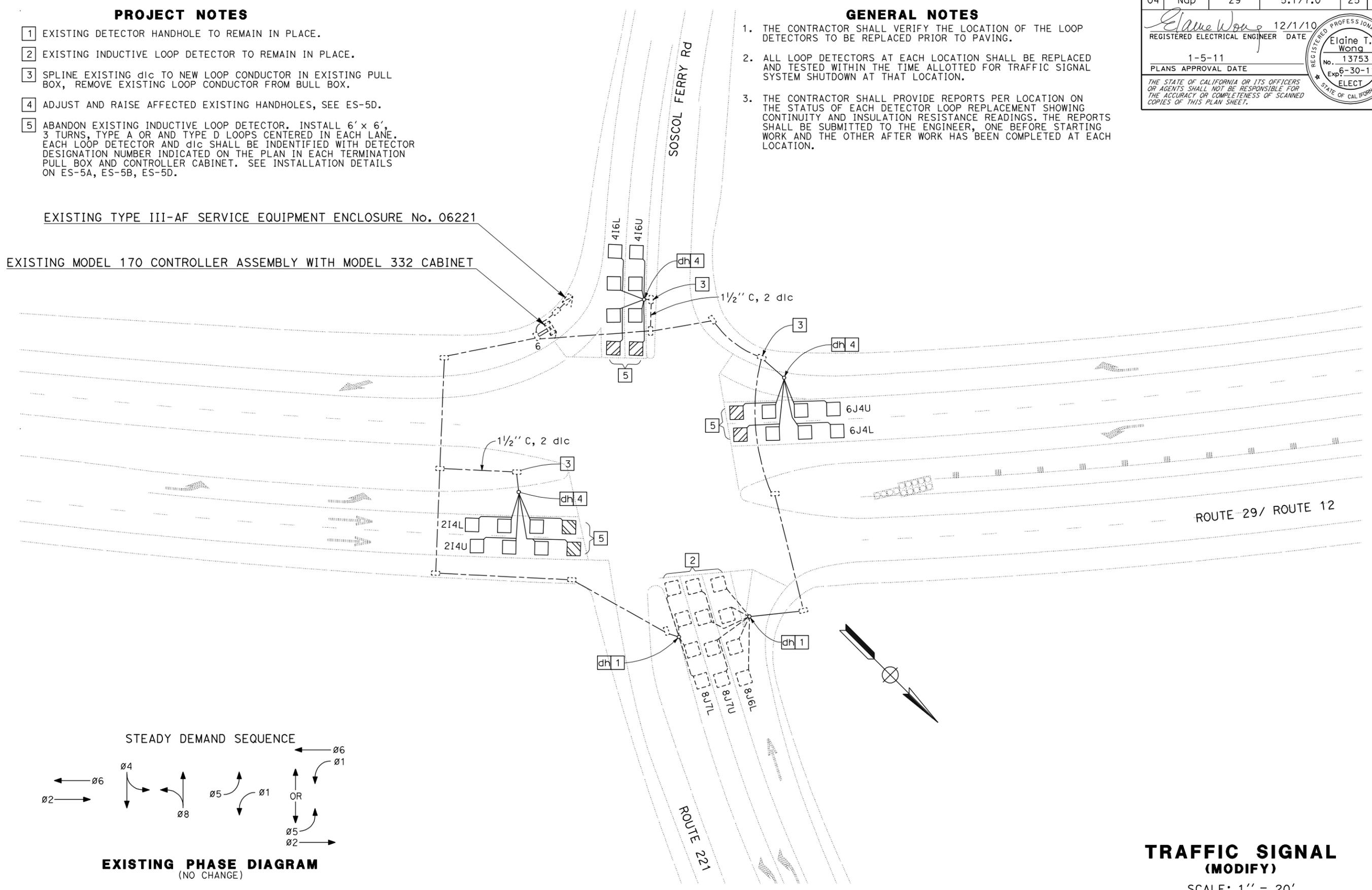
- 1 EXISTING DETECTOR HANDHOLE TO REMAIN IN PLACE.
- 2 EXISTING INDUCTIVE LOOP DETECTOR TO REMAIN IN PLACE.
- 3 SPLINE EXISTING dlc TO NEW LOOP CONDUCTOR IN EXISTING PULL BOX, REMOVE EXISTING LOOP CONDUCTOR FROM BULL BOX.
- 4 ADJUST AND RAISE AFFECTED EXISTING HANDHOLES, SEE ES-5D.
- 5 ABANDON EXISTING INDUCTIVE LOOP DETECTOR. INSTALL 6' x 6', 3 TURNS, TYPE A OR AND TYPE D LOOPS CENTERED IN EACH LANE. EACH LOOP DETECTOR AND dlc SHALL BE IDENTIFIED WITH DETECTOR DESIGNATION NUMBER INDICATED ON THE PLAN IN EACH TERMINATION PULL BOX AND CONTROLLER CABINET. SEE INSTALLATION DETAILS ON ES-5A, ES-5B, ES-5D.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE LOOP DETECTORS TO BE REPLACED PRIOR TO PAVING.
2. ALL LOOP DETECTORS AT EACH LOCATION SHALL BE REPLACED AND TESTED WITHIN THE TIME ALLOTTED FOR TRAFFIC SIGNAL SYSTEM SHUTDOWN AT THAT LOCATION.
3. THE CONTRACTOR SHALL PROVIDE REPORTS PER LOCATION ON THE STATUS OF EACH DETECTOR LOOP REPLACEMENT SHOWING CONTINUITY AND INSULATION RESISTANCE READINGS. THE REPORTS SHALL BE SUBMITTED TO THE ENGINEER, ONE BEFORE STARTING WORK AND THE OTHER AFTER WORK HAS BEEN COMPLETED AT EACH LOCATION.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL
 FUNCTIONAL SUPERVISOR
 ELAINE T. WONG
 CALCULATED-DESIGNED BY
 CHECKED BY
 WILLIAM Y. WONG
 ELAINE T. WONG
 REVISED BY
 DATE REVISED
 A
 A

EXISTING TYPE III-AF SERVICE EQUIPMENT ENCLOSURE No. 06221
 EXISTING MODEL 170 CONTROLLER ASSEMBLY WITH MODEL 332 CABINET



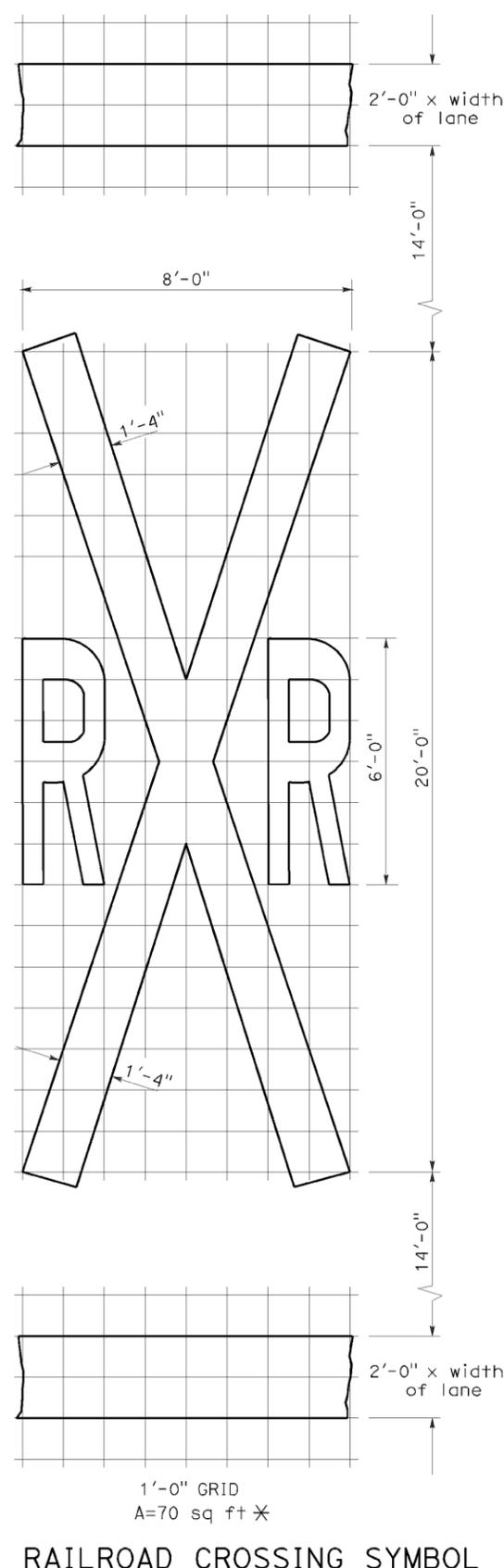
TRAFFIC SIGNAL
(MODIFY)
SCALE: 1" = 20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	26	37

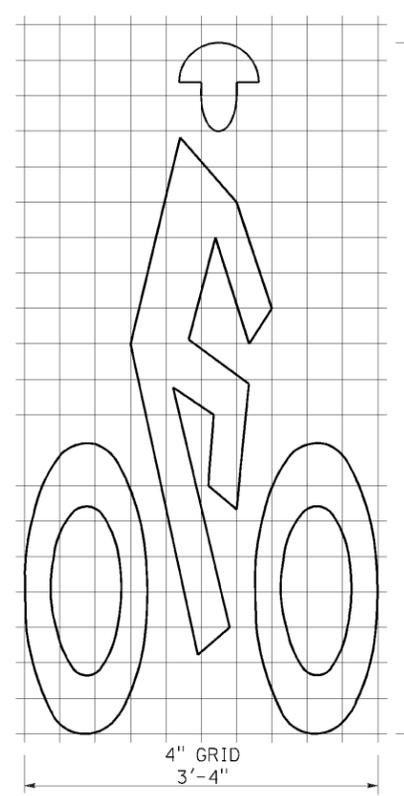
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

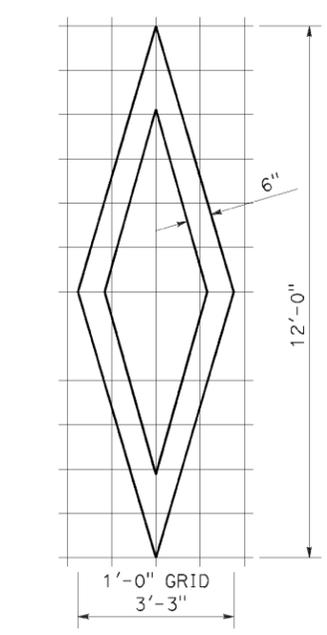


RAILROAD CROSSING SYMBOL

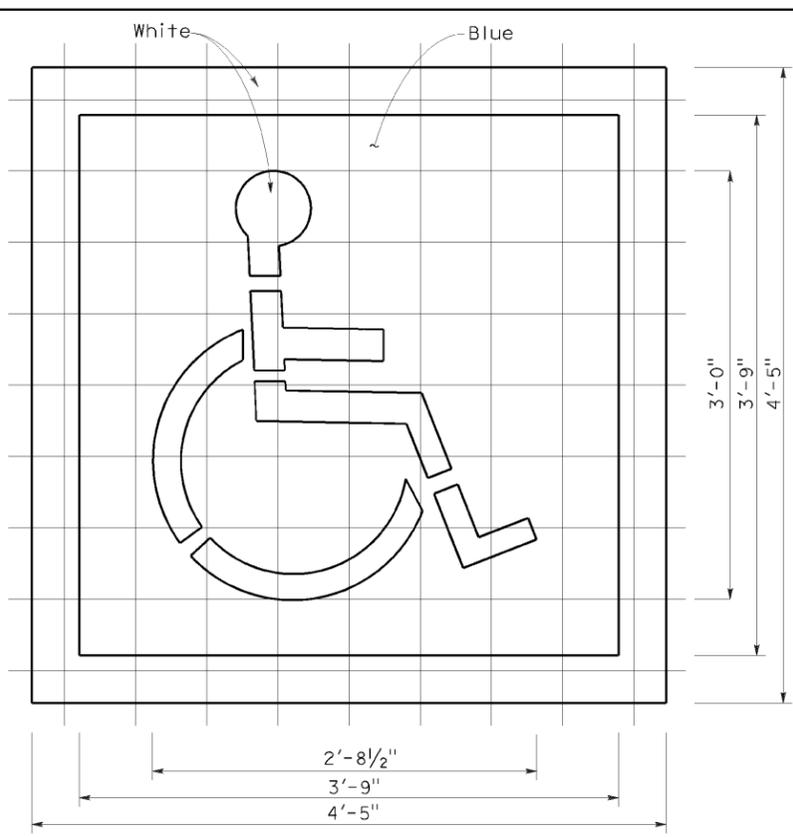
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



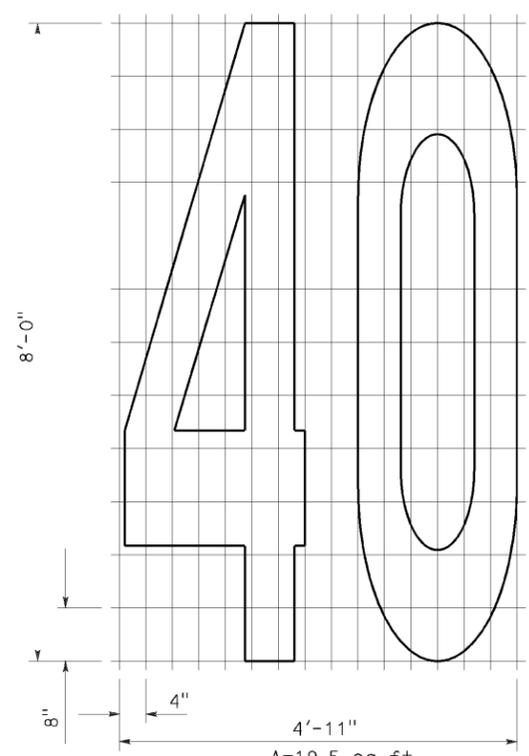
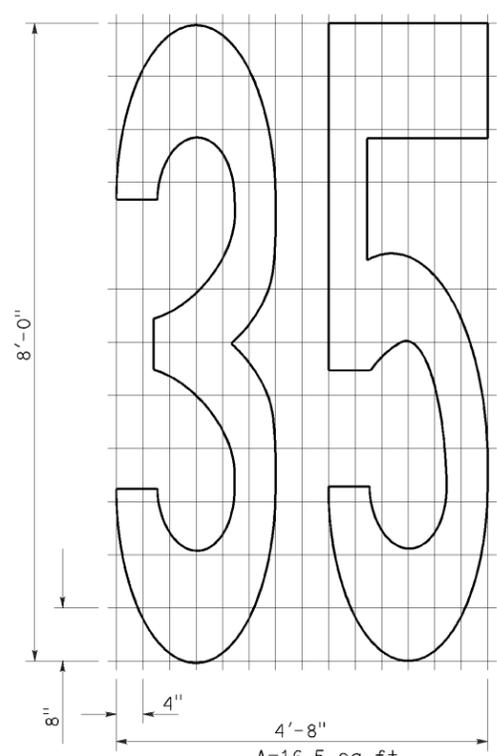
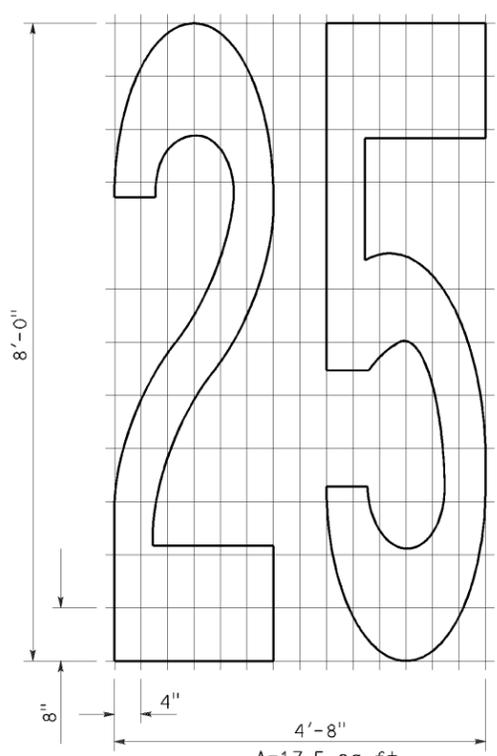
BIKE LANE SYMBOL
A=7 sq ft



DIAMOND SYMBOL
A=11 sq ft

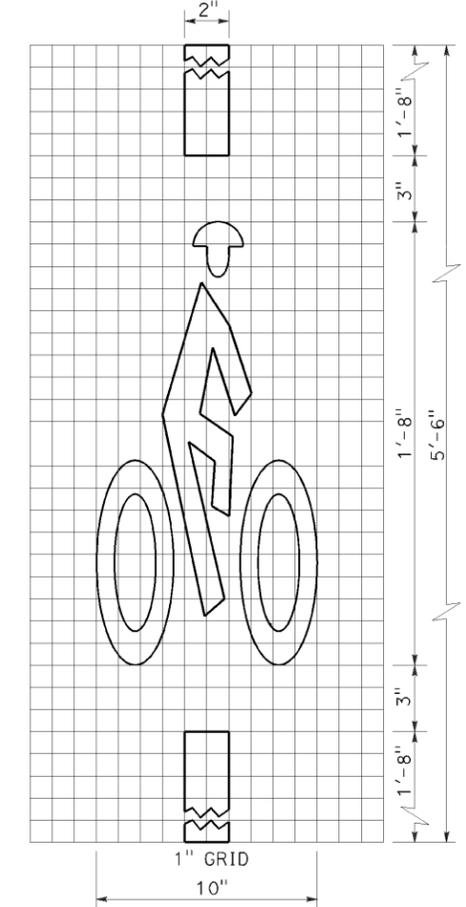


INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



NUMERALS

To accompany plans dated 1-5-11



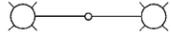
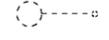
BICYCLE LOOP DETECTOR SYMBOL

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
NO SCALE

2006 REVISED STANDARD PLAN RSP A24C

ELECTROLIERS

	High mast light pole
	Double Arm lighting standard
	Existing electrolier
	Electrolier foundation (Future installation)

NOTES:

- Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS 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.
- Variations noted adjacent to symbol on project plans.

-  Electrolier (see project notes or project plans)
-  Luminaire on wood pole

STANDARD NOTES:

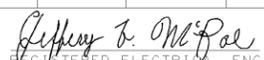
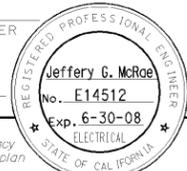
- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- 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.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbcA	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, top attachment
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	27	37


 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE

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

To accompany plans dated 1-5-11

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	28	37

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Jeffery G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 1-5-11

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

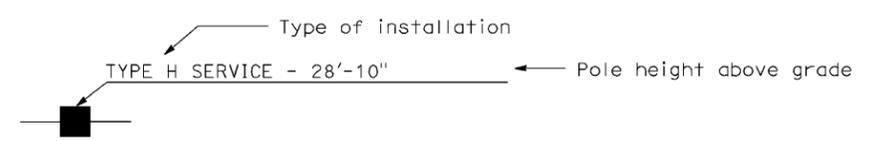
NOTES:

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

SERVICE EQUIPMENT

PROPOSED	EXISTING	
		Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

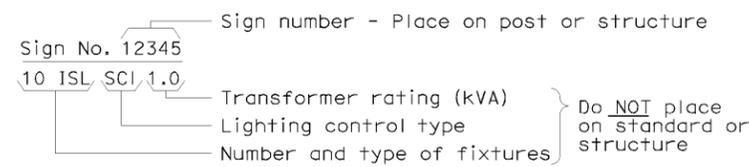
2006 REVISED STANDARD PLAN RSP ES-1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	29	37

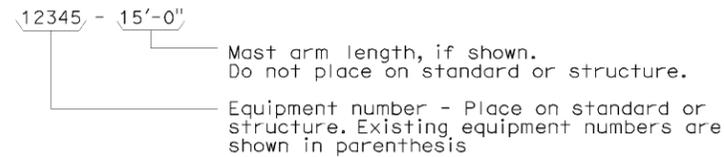
Signature: *Jeffery G. McRae*
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

EQUIPMENT IDENTIFICATION

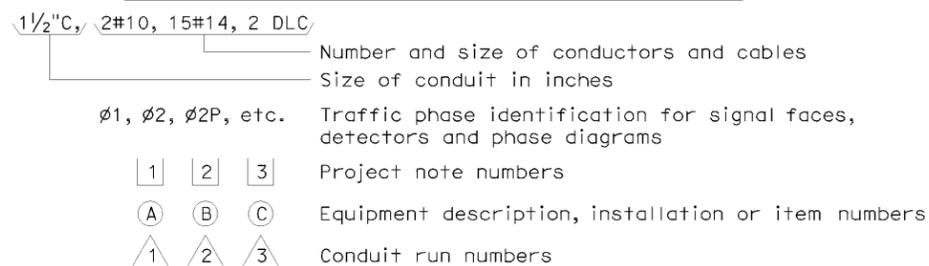
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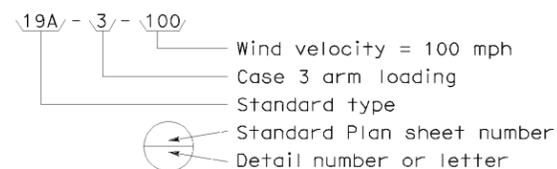
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
		Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
		Extinguishable message sign
		Detection device M = Microwave sensor V = Video image sensor

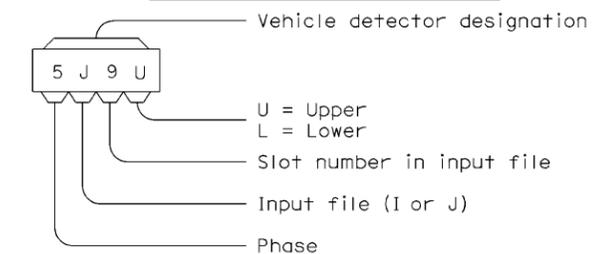
WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—	Conductor or bus
A	Ampere	—●—	Tie point
V	Volt	—/—	Contact coil
M	Metered	— —	Contact, Contact NO
UM	Unmetered	— —	Terminal blocks
NB	Neutral bus	—/—	Contact, Contact NC
GB	Ground bus	—/—	Enclosure bond
G	Equipment grounding conductor	—/—	Grounding electrode
N	Grounded conductor (Neutral)	—/—	Circuit breaker
		Ⓜ	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
3	9A(21)	Pull box-Additional designations or descriptions
3		(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

VEHICLE DETECTORS



PROPOSED	EXISTING	
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type O detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	30	37

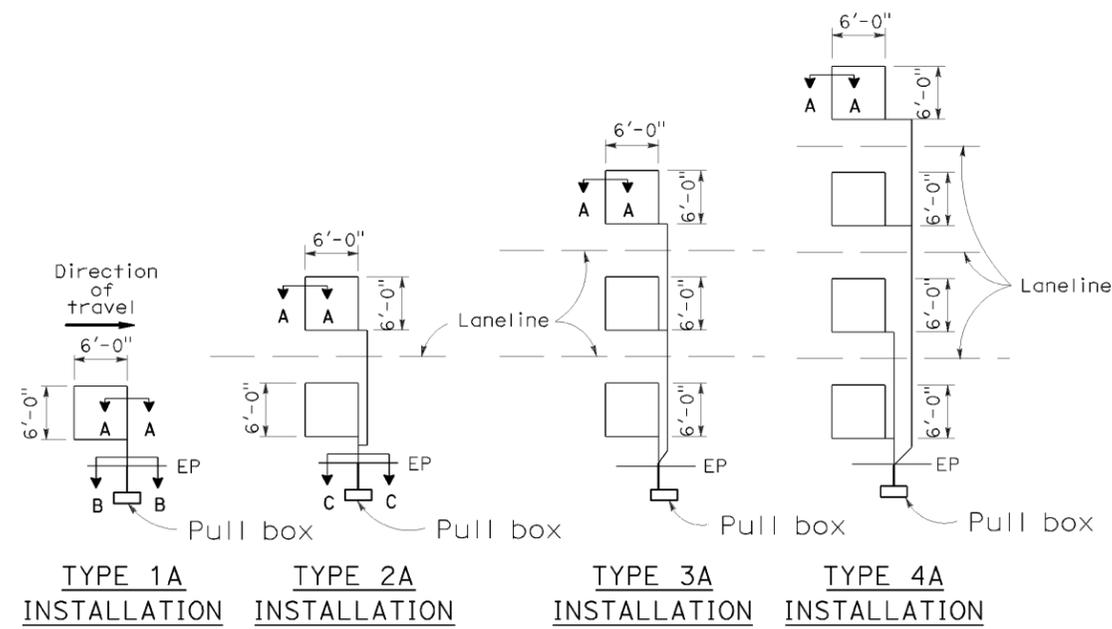
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE
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To accompany plans dated 1-5-11

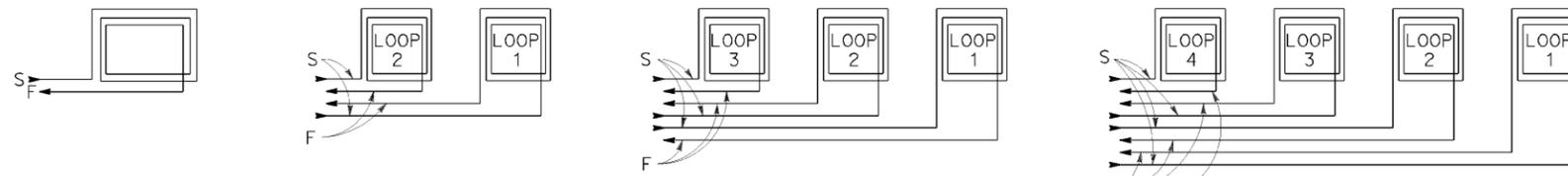
LOOP INSTALLATION PROCEDURE

1. Loops shall be centered in lanes.
2. Saw slots in pavement for loop conductors as shown in details.
3. Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
4. Bottom of saw slot shall be smooth with no sharp edges.
5. Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
6. Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
7. Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
8. Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
9. No more than 2 twisted pairs shall be installed in one sawed slot.
10. Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
11. The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
12. Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
13. Fill slots as shown in details.
14. Splice loop conductors to lead-in-cable. Splices shall be soldered.
15. End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
16. Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
17. Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
18. Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.



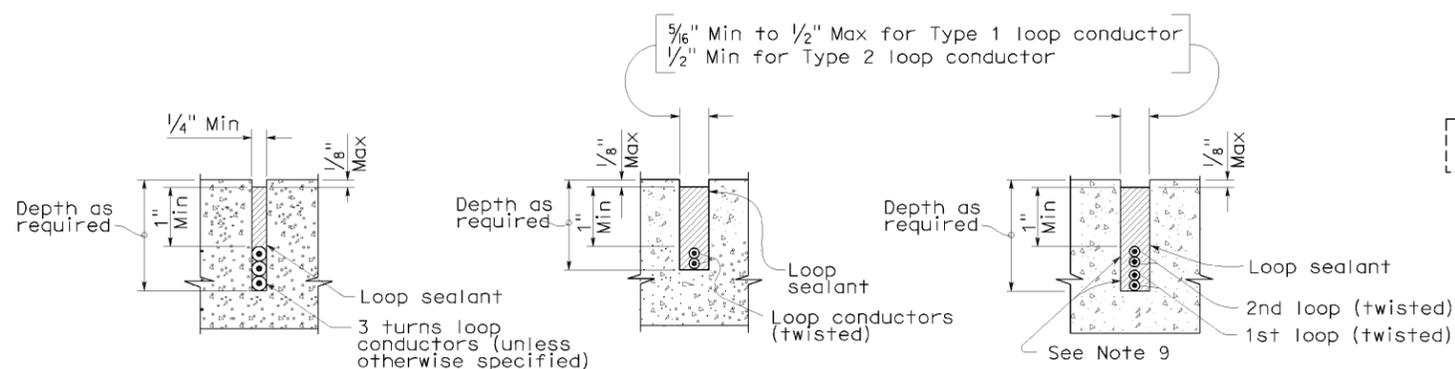
SAWCUT DETAILS

- (Type A loop detector configurations illustrated)
1. 1A thru 4A = 1 Type A loop configuration in each lane.
 2. 1B thru 4B = 1 Type B loop configuration in each lane.
 3. 1C = 1 Type C loop configuration entering lanes as required.
 4. 1D thru 4D = 1 Type D loop configuration in each lane.
 5. 1E thru 4E = 1 Type E loop configuration in each lane.
 6. 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)

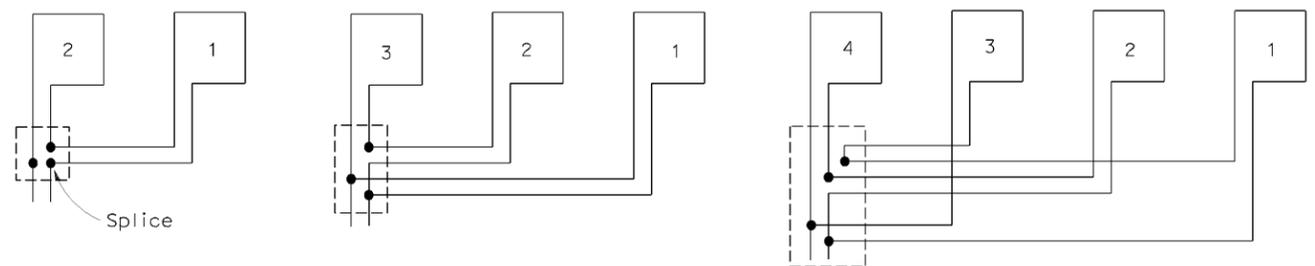


WINDING DETAILS

See Notes 6 and 7



SECTION A-A SECTION B-B SECTION C-C
SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	31	37

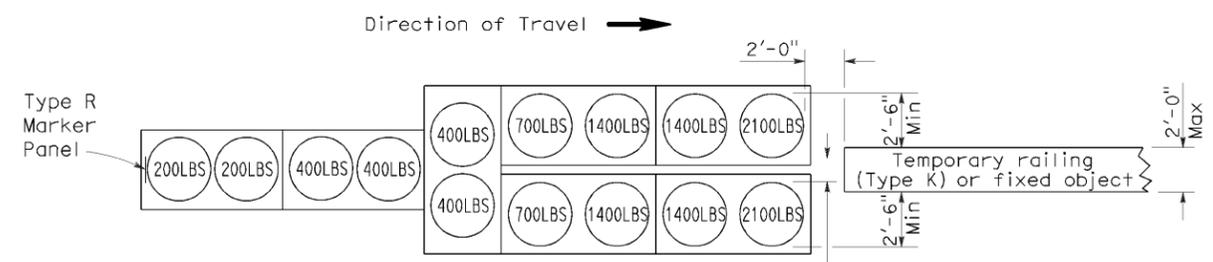
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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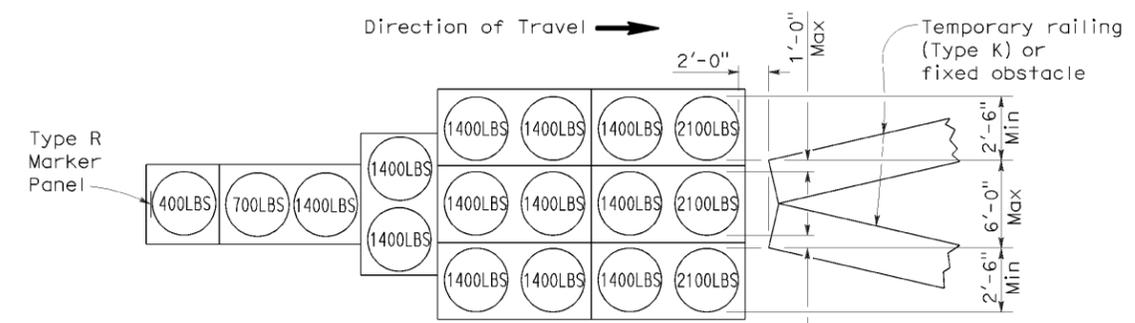
To accompany plans dated 1-5-11

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA



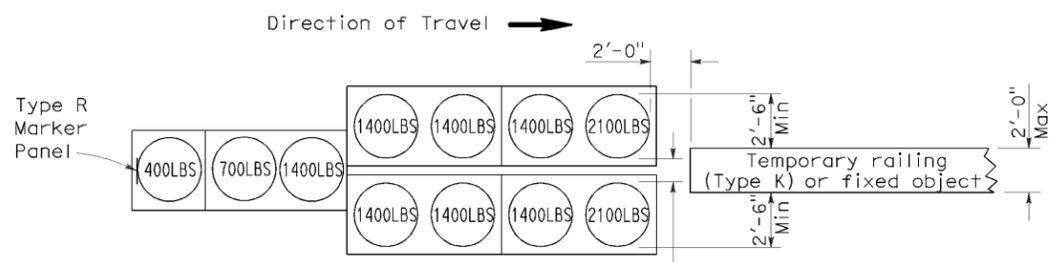
ARRAY 'TU14'

Approach speed 45 mph or more



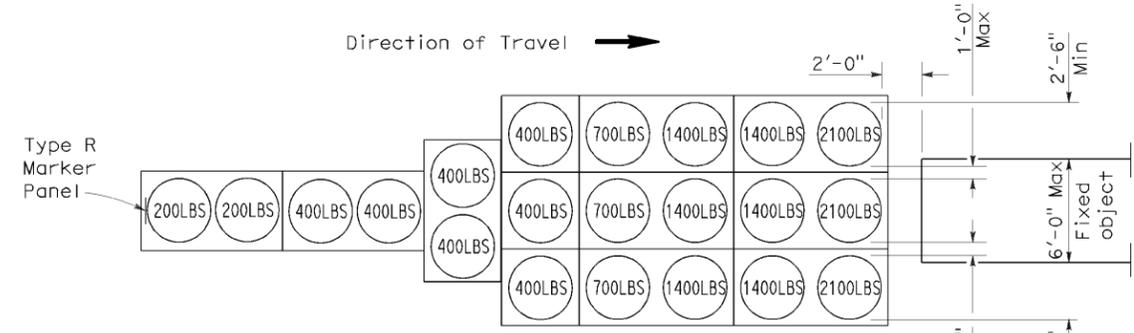
ARRAY 'TU17'

Approach speed less than 45 mph



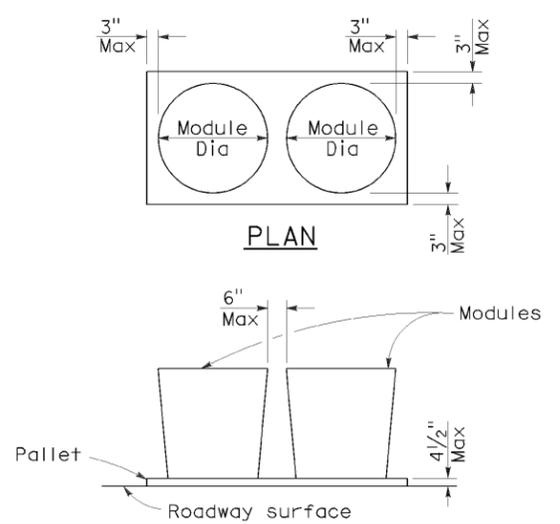
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	32	37

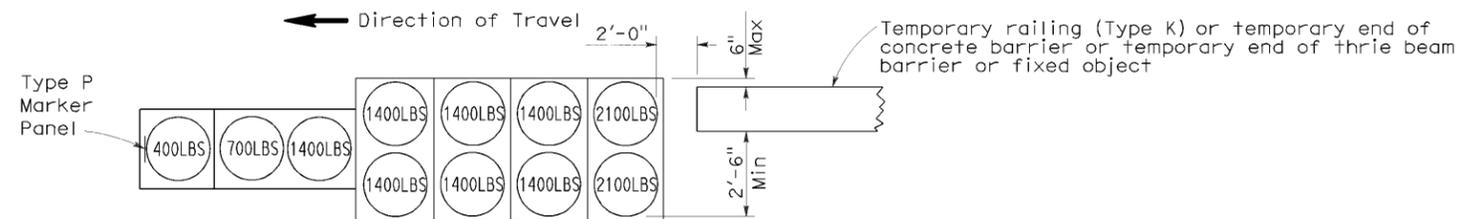
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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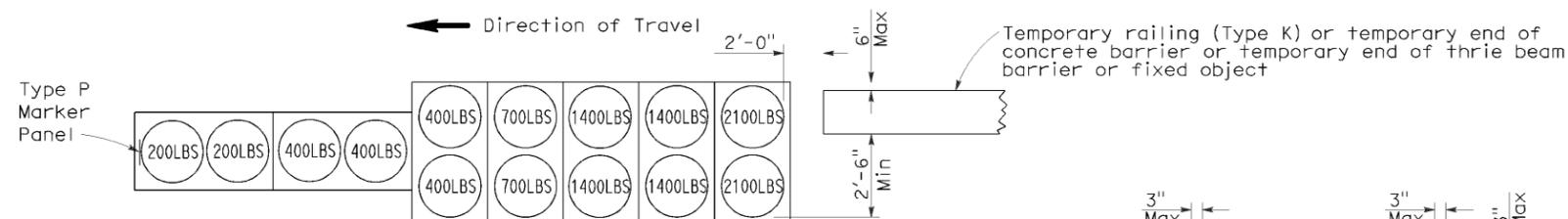
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 1-5-11



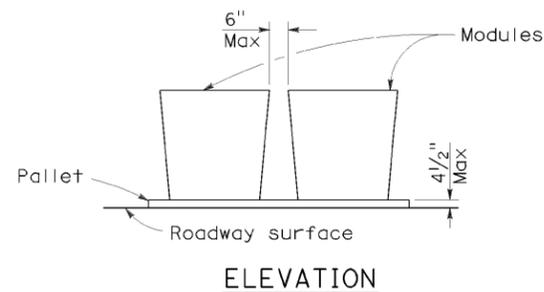
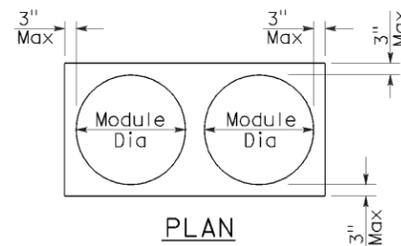
Direction of Travel →

ARRAY 'TB11'
Approach speed less than 45 mph



Direction of Travel →

ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

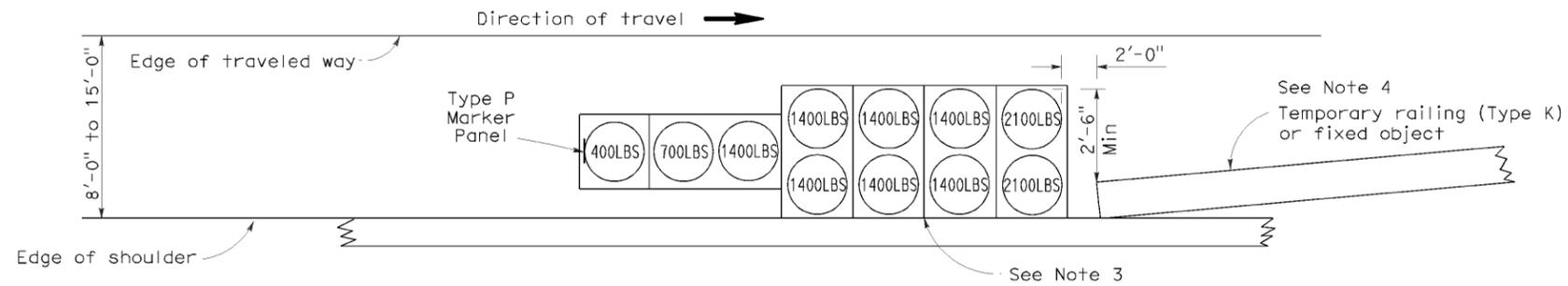
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	33	37

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

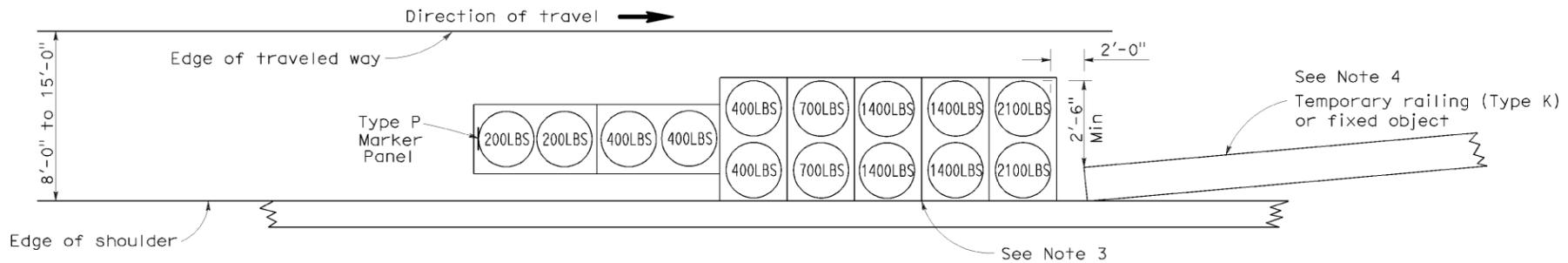
June 6, 2008
PLANS APPROVAL DATE

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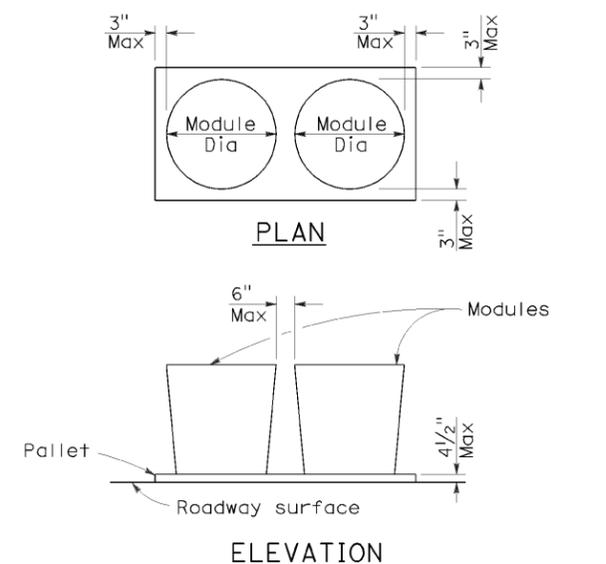
To accompany plans dated 1-5-11



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
4. If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

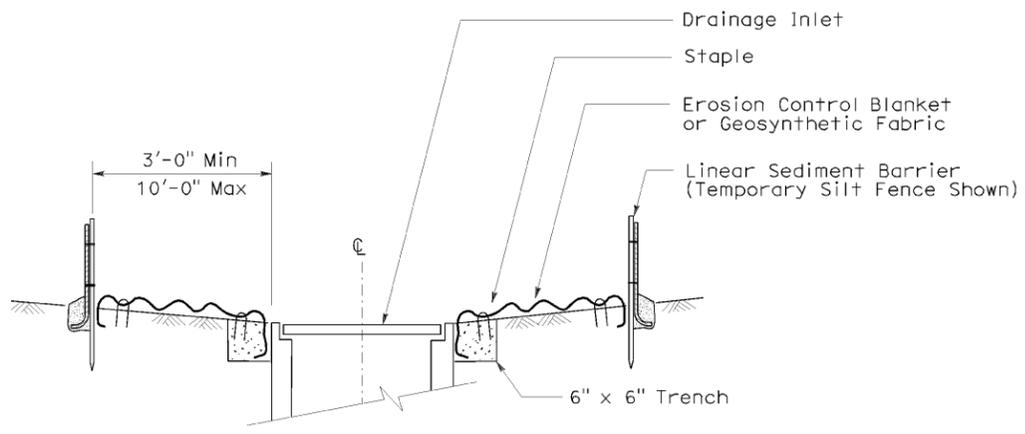
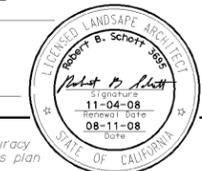
2006 REVISED STANDARD PLAN RSP T2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	34	37

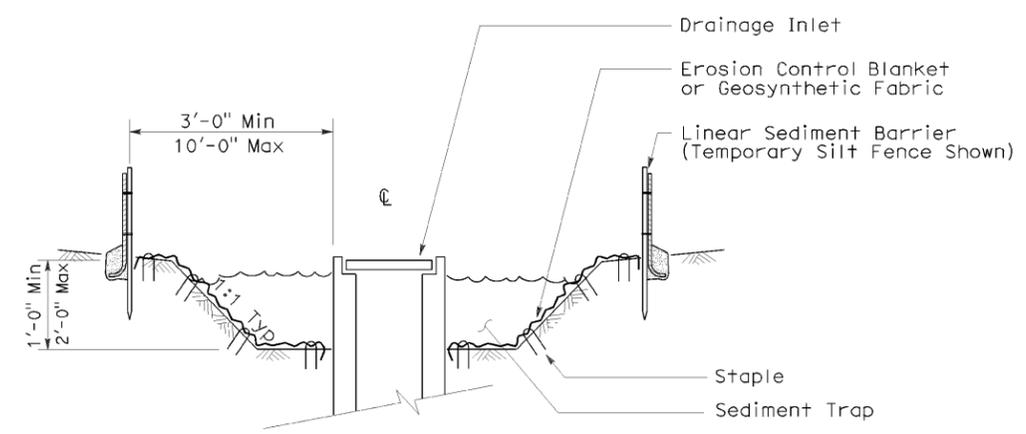
Robert B. Schmitt
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS Approval DATE

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

To accompany plans dated 1-5-11

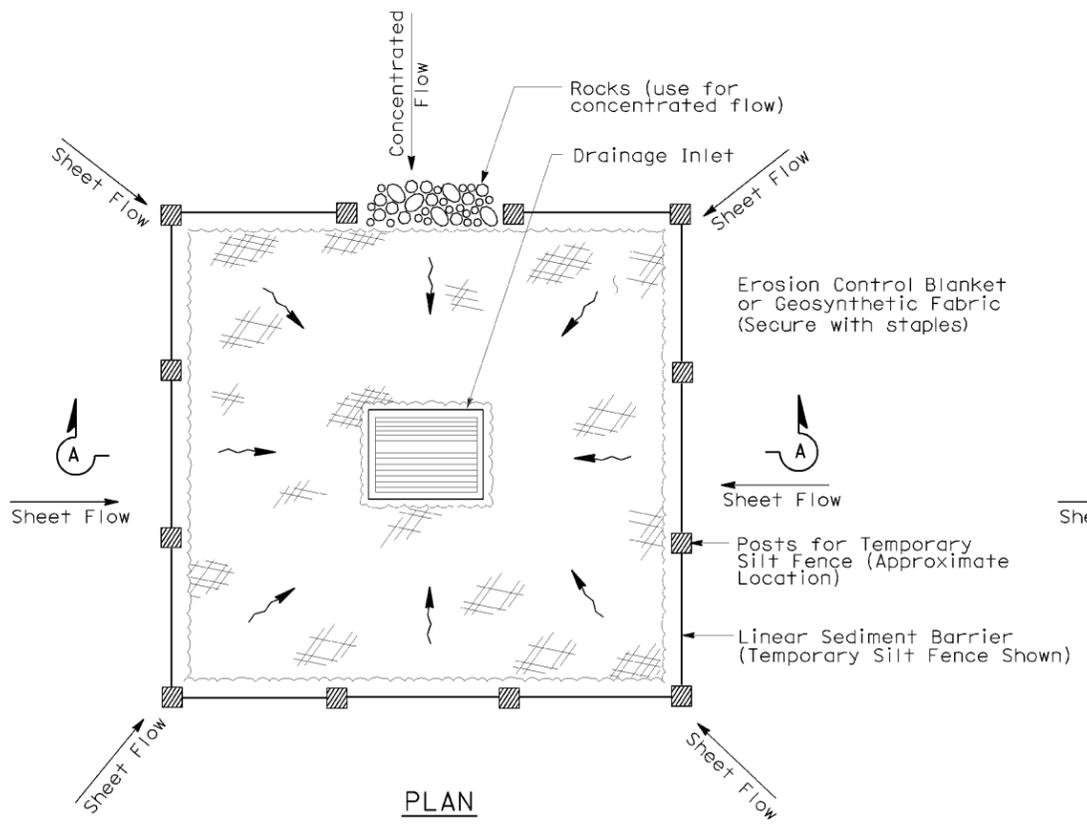


SECTION A-A

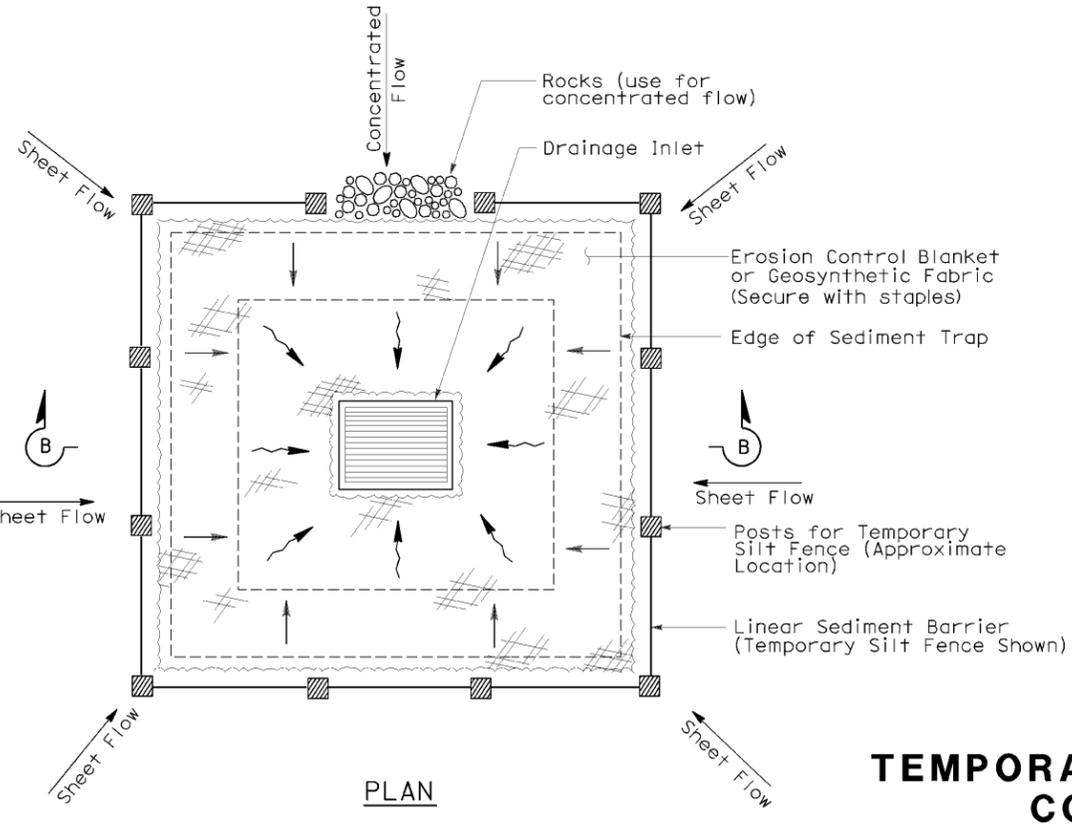


SECTION B-B

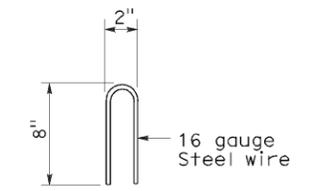
- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)
 NO SCALE

Nsp t61 dated august 15, 2008 supplements the standard plans book dated may 2006.

2006 NEW STANDARD PLAN NSP T61

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	35	37

Robert B. Schmitt
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

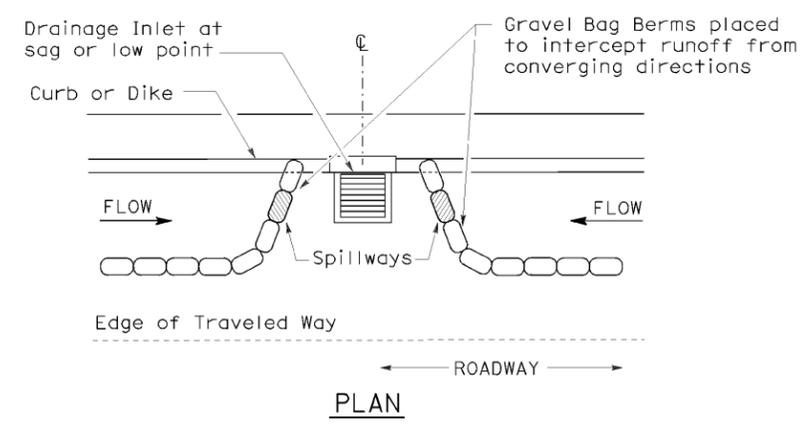
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-5-11

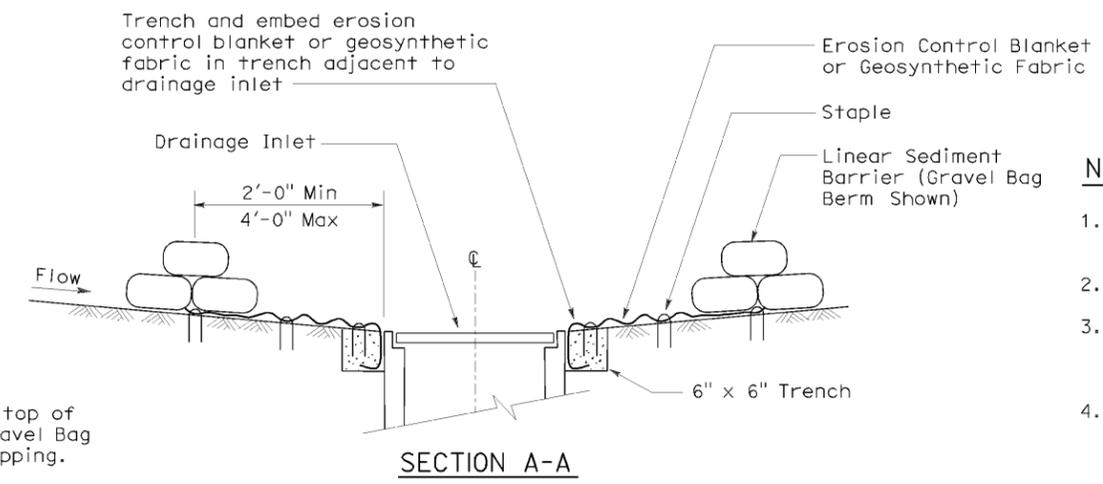
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100'	75'	50'	25'	12'

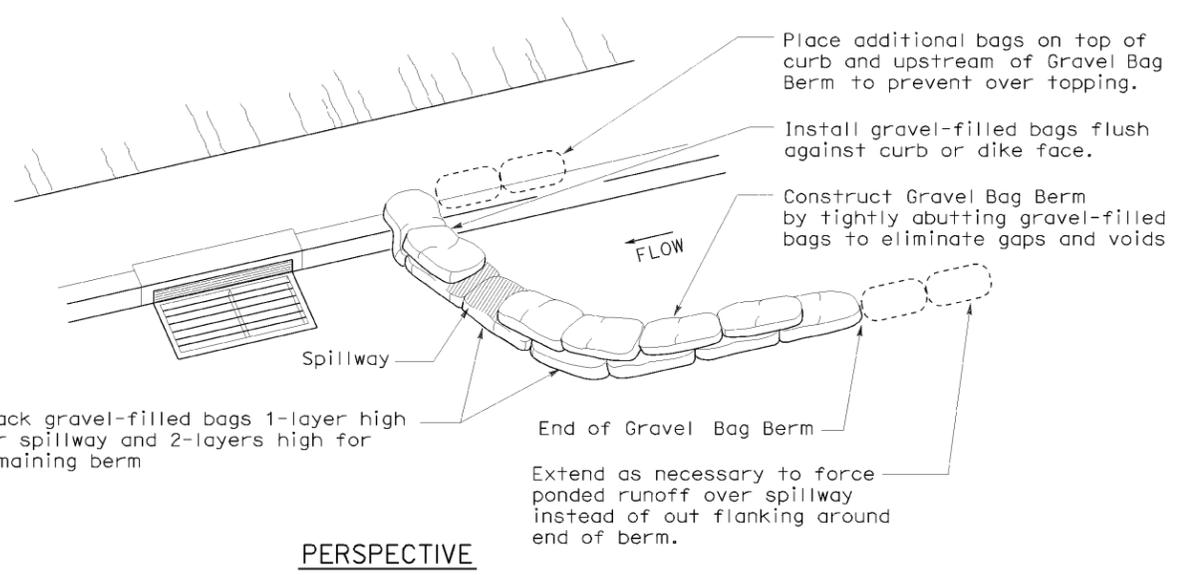
For slope of less than 1%, install barriers only if erosion/sediment is prevalent



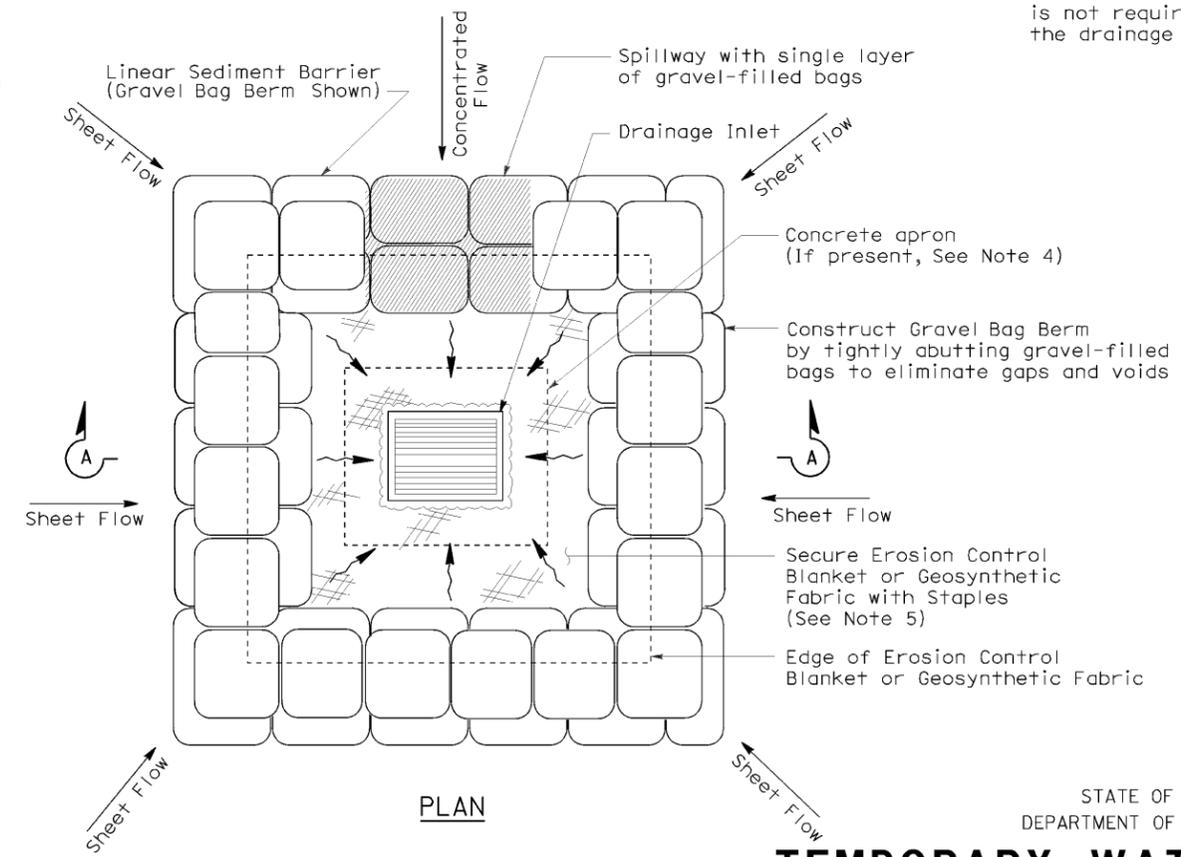
PLAN
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



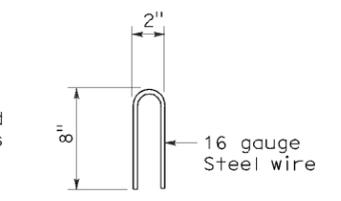
SECTION A-A



PERSPECTIVE

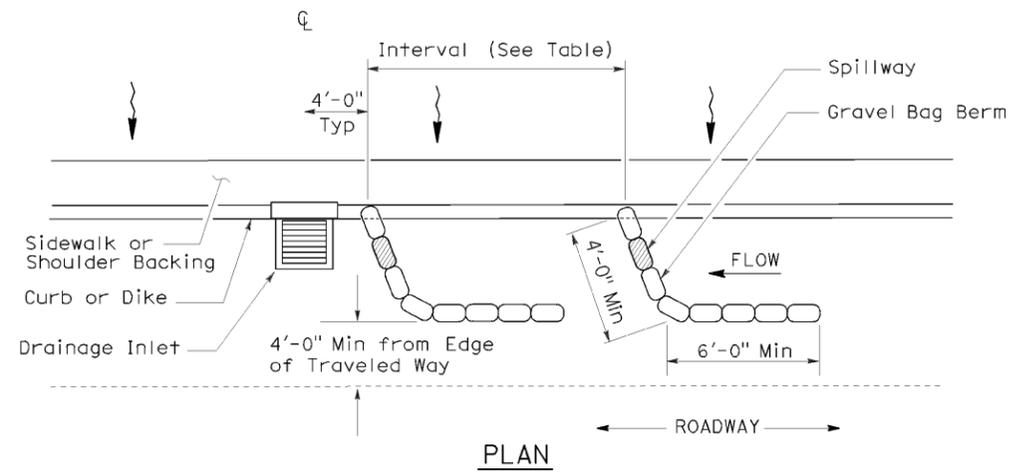


PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

- NOTES:**
1. Place safety cones adjacent to drainage inlet protection.
 2. Dimensions may vary to fit field conditions.
 3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
 4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
 5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T62

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'

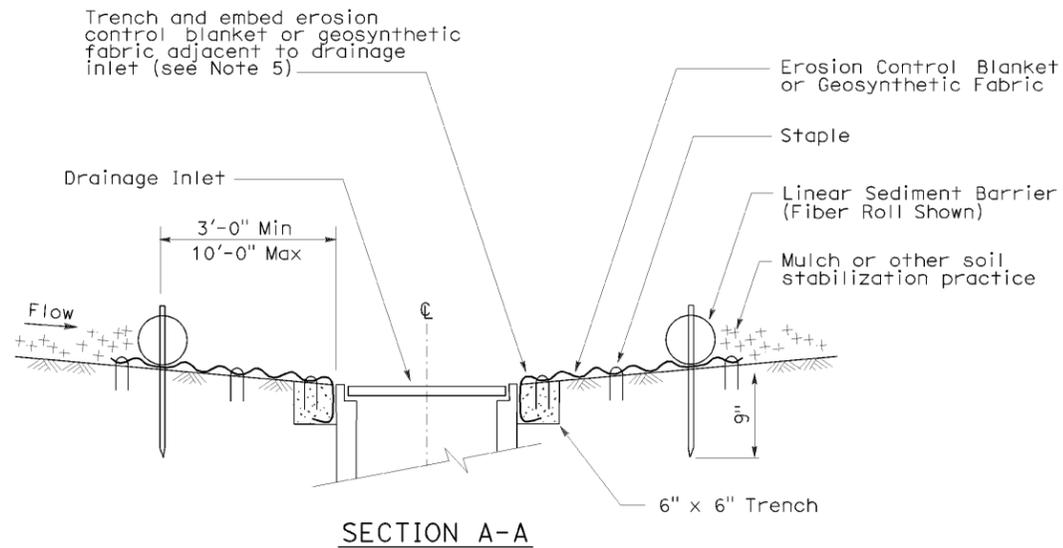
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	36	37

Robert B. Schmitt
LICENSED LANDSCAPE ARCHITECT

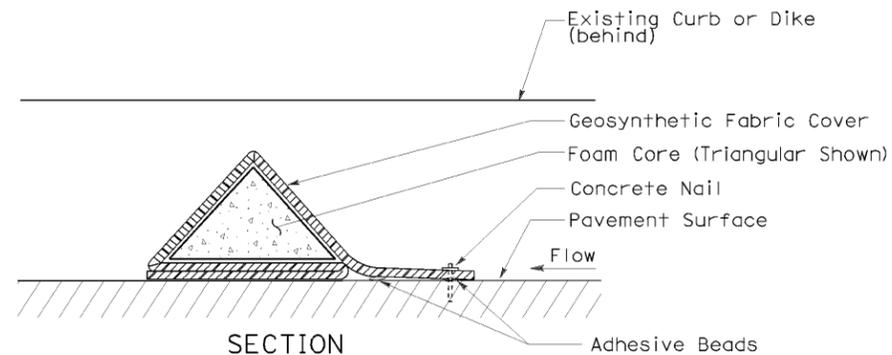
August 15, 2008
PLANS APPROVAL DATE

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To accompany plans dated 1-5-11



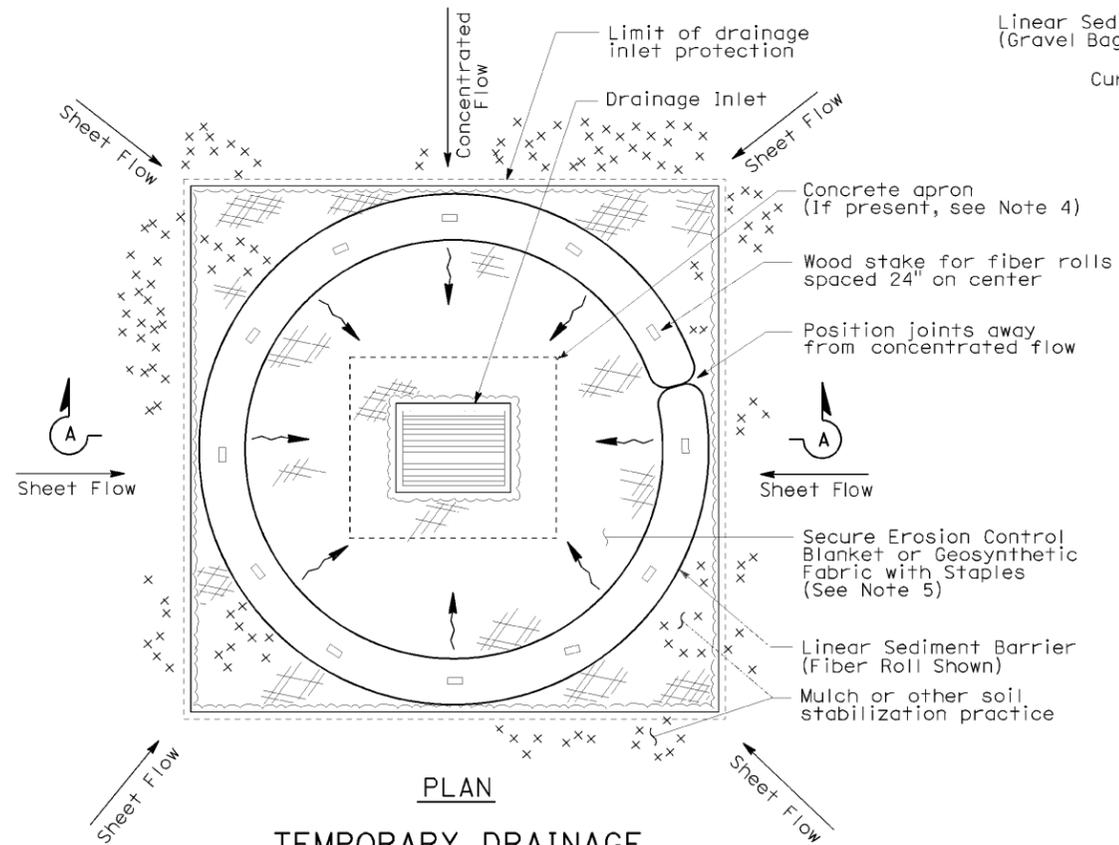
SECTION A-A



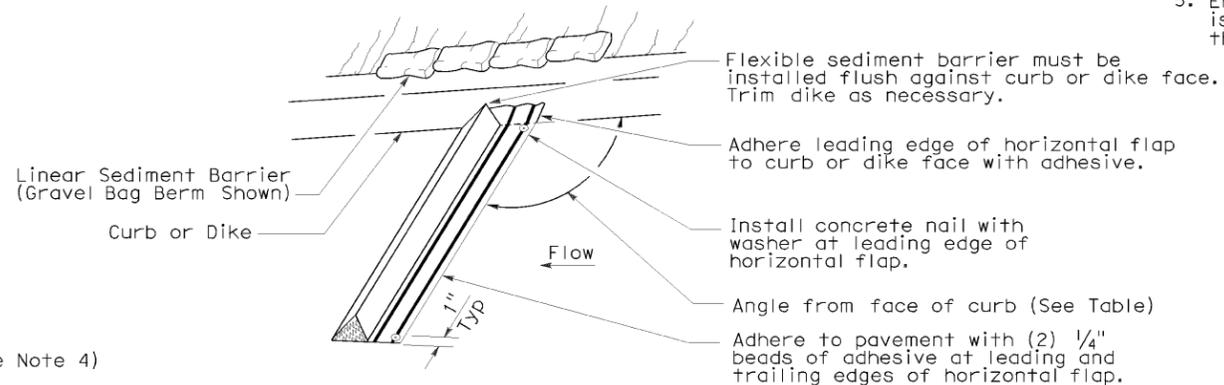
SECTION
FLEXIBLE SEDIMENT BARRIER DETAIL
(FOAM BARRIER SHOWN)

NOTES:

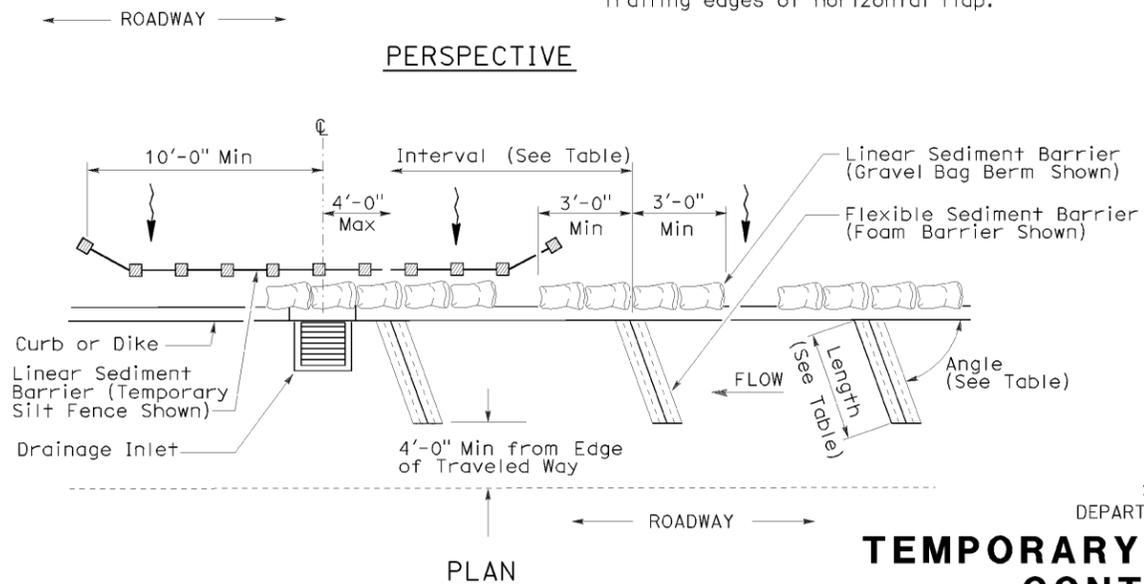
1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



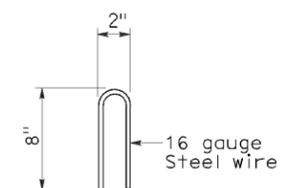
PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 4A)



PERSPECTIVE



PLAN
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 4B)
FLEXIBLE SEDIMENT BARRIER



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY WATER POLLUTION
CONTROL DETAILS
(TEMPORARY DRAINAGE
INLET PROTECTION)**

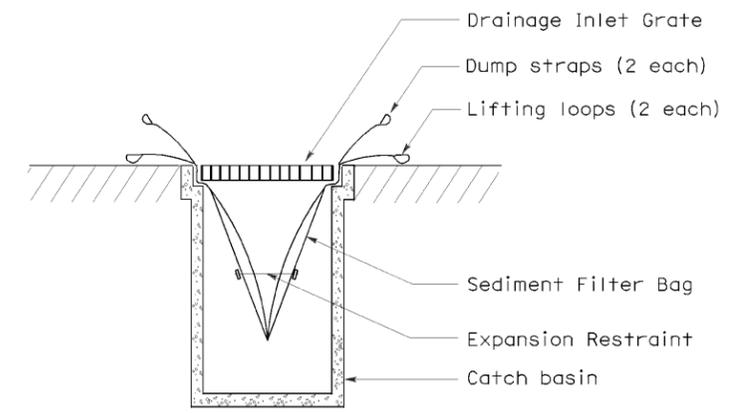
NO SCALE
NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	29	5.1/7.0	37	37

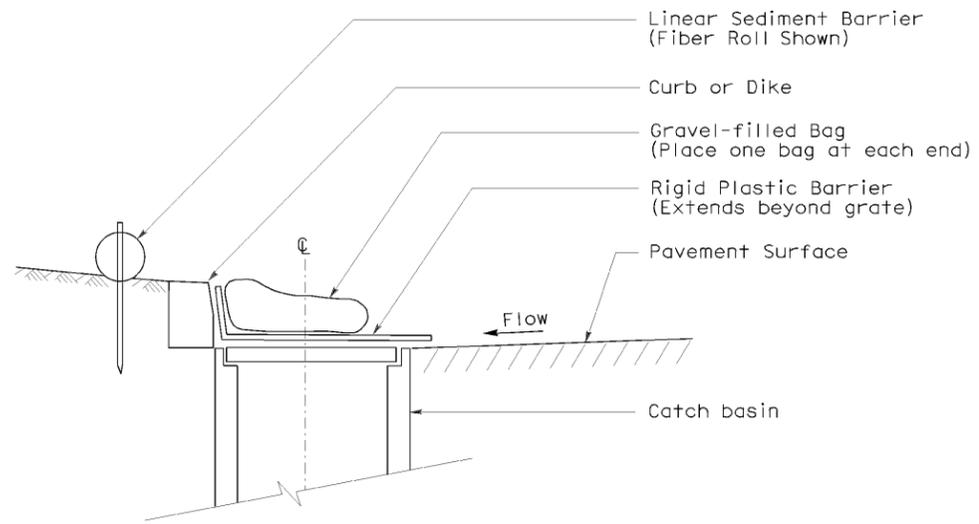
Robert B. Schmitt
 LICENSED LANDSCAPE ARCHITECT
 August 15, 2008
 PLANS APPROVAL DATE
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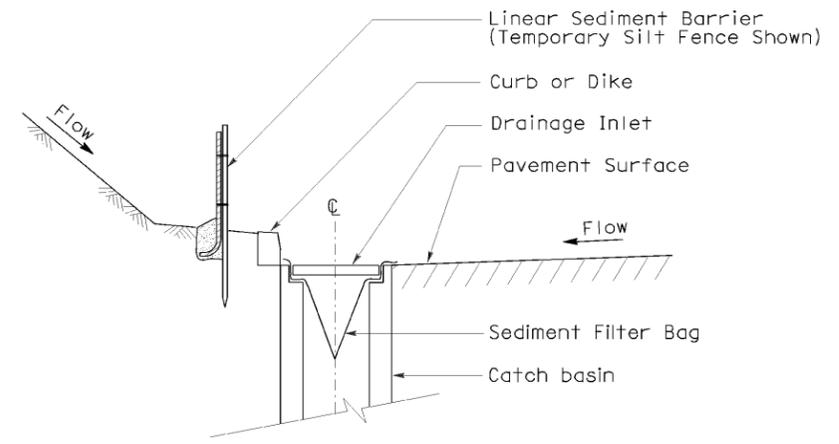
To accompany plans dated 1-5-11



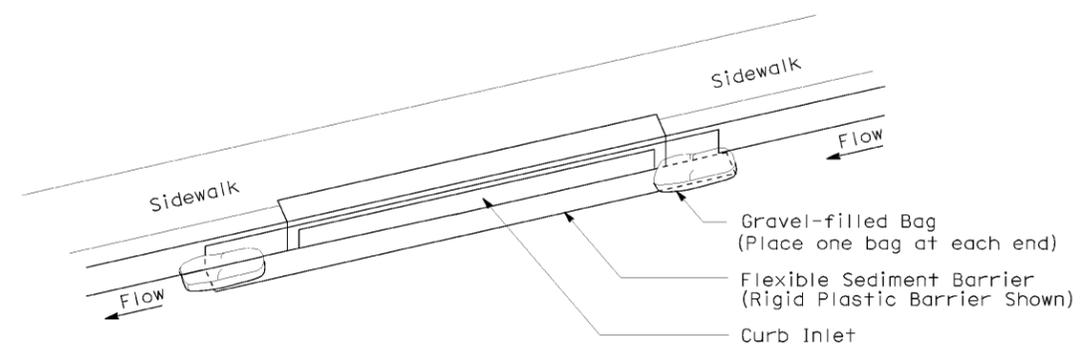
SECTION B-B
SEDIMENT FILTER BAG DETAIL



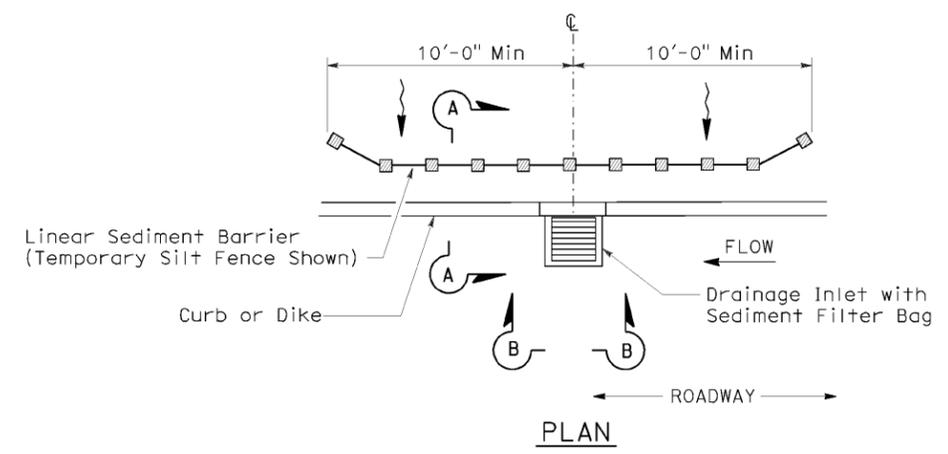
SECTION
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



PERSPECTIVE
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B)
(CURB INLET WITHOUT GRATE)



PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5)
(SEDIMENT FILTER BAG)

- NOTES:**
1. See Standard Plan T51 for Temporary Silt Fence.
 2. Dimensions may vary to fit field conditions.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY DRAINAGE INLET PROTECTION)
NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64