INDEX OF PLANS

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12-15	CONSTRUCTION AREA SIGNS
16-27	PAVEMENT DELINEATION PLAN AND QUANTITIES
28	SUMMARY OF QUANTITIES
29-34	TRAFFIC SIGNAL
35-44	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

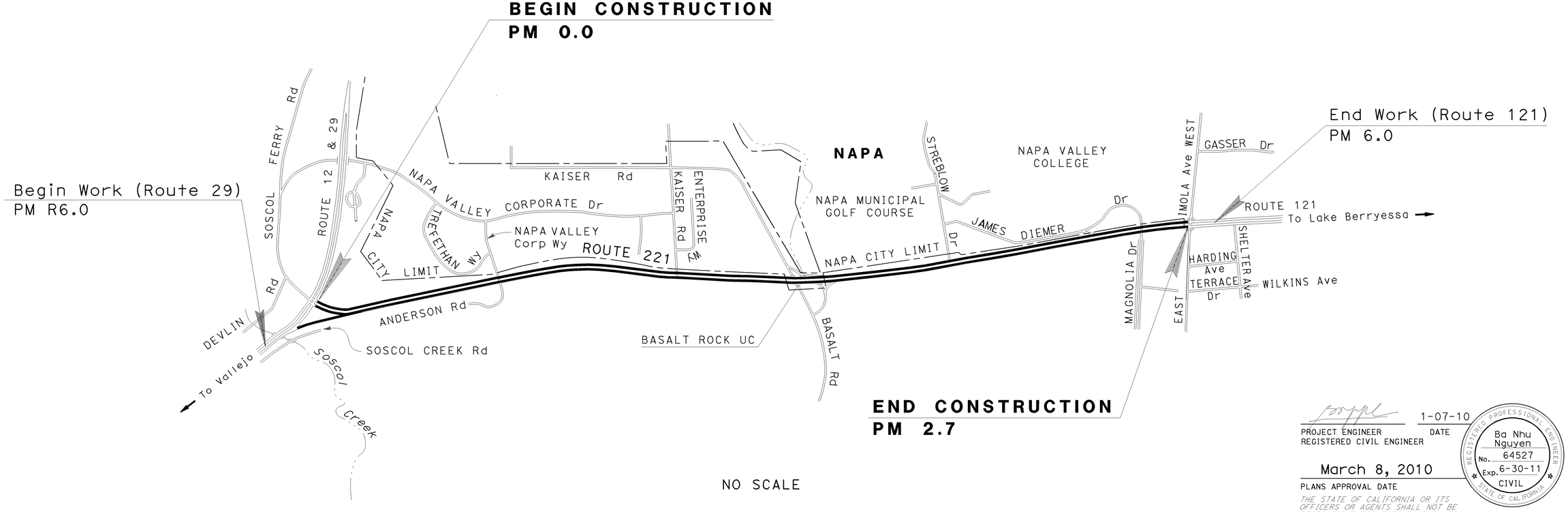
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN NAPA COUNTY
NEAR NAPA
FROM ROUTE 29 TO IMOLA AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	1	44



NO SCALE

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

PROJECT MANAGER: RAMSES SARGISS

DESIGN ENGINEER: BA NGUYEN

1-07-10
PROJECT ENGINEER
REGISTERED CIVIL ENGINEER — DATE

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

March 8, 2010
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. 04-1E9904

LAST REVISION 01-25-10
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:31

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	2	44

REGISTERED CIVIL ENGINEER — DATE 1-07-10

PLANS APPROVAL DATE 3-8-10

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp 6-30-11
CIVIL
STATE OF CALIFORNIA

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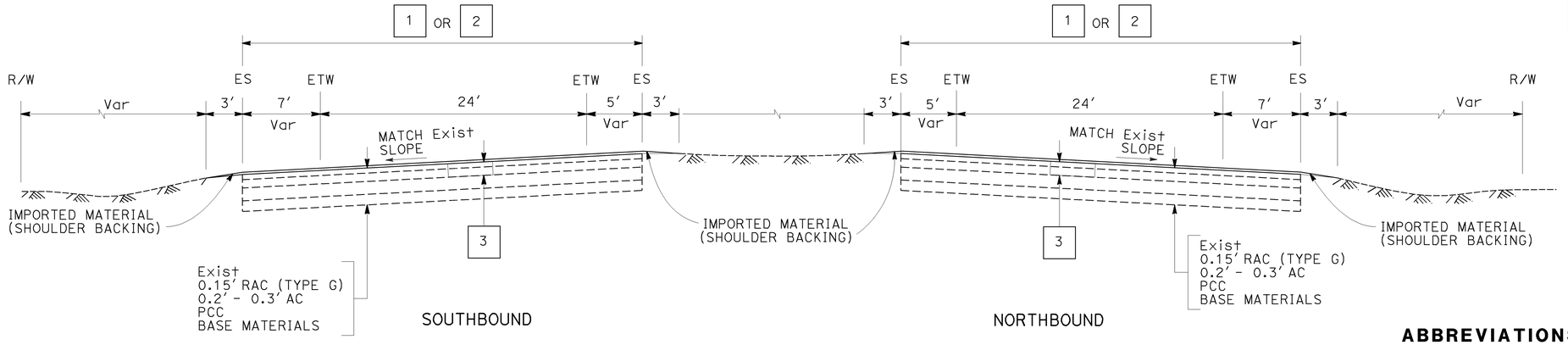

PM 0.0/2.7

ABBREVIATIONS:

RAC - RUBBERIZED ASPHALT CONCRETE
RHMA-G RUBBERIZED HOT MIX ASPHALT-GAP GRADED

LEGEND:

1	0.10′ RHMA-G
2	COLD PLANE AC PAVEMENT 0.10′ 0.10′ RHMA-G
3	COLD PLANE AC PAVEMENT 0.40′ Max 0.40′ HMA (TYPE A)

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATION.
2. FOR EXACT LOCATION OF STRUCTURAL SECTION TYPE 1 OR 2 SEE SHEET C-1 THROUGH C-8.
3. CONTRACTOR SHALL PLACE IMPORTED MATERIAL (SHOULDER BACKING) WHERE THERE IS NO DIKE, CONCRETE BARRIER OR WALL, SEE QUANTITY SHEET FOR LOCATION OF SHOULDER BACKING.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
5. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.

TYPICAL CROSS SECTIONS

NO SCALE

X-1

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
BA NGUYEN	RONNIE CHUA	BN	1/25/10

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 01-25-10
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ca001.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	3	44

REGISTERED CIVIL ENGINEER — DATE 1-07-10

PLANS APPROVAL DATE 3-8-10

Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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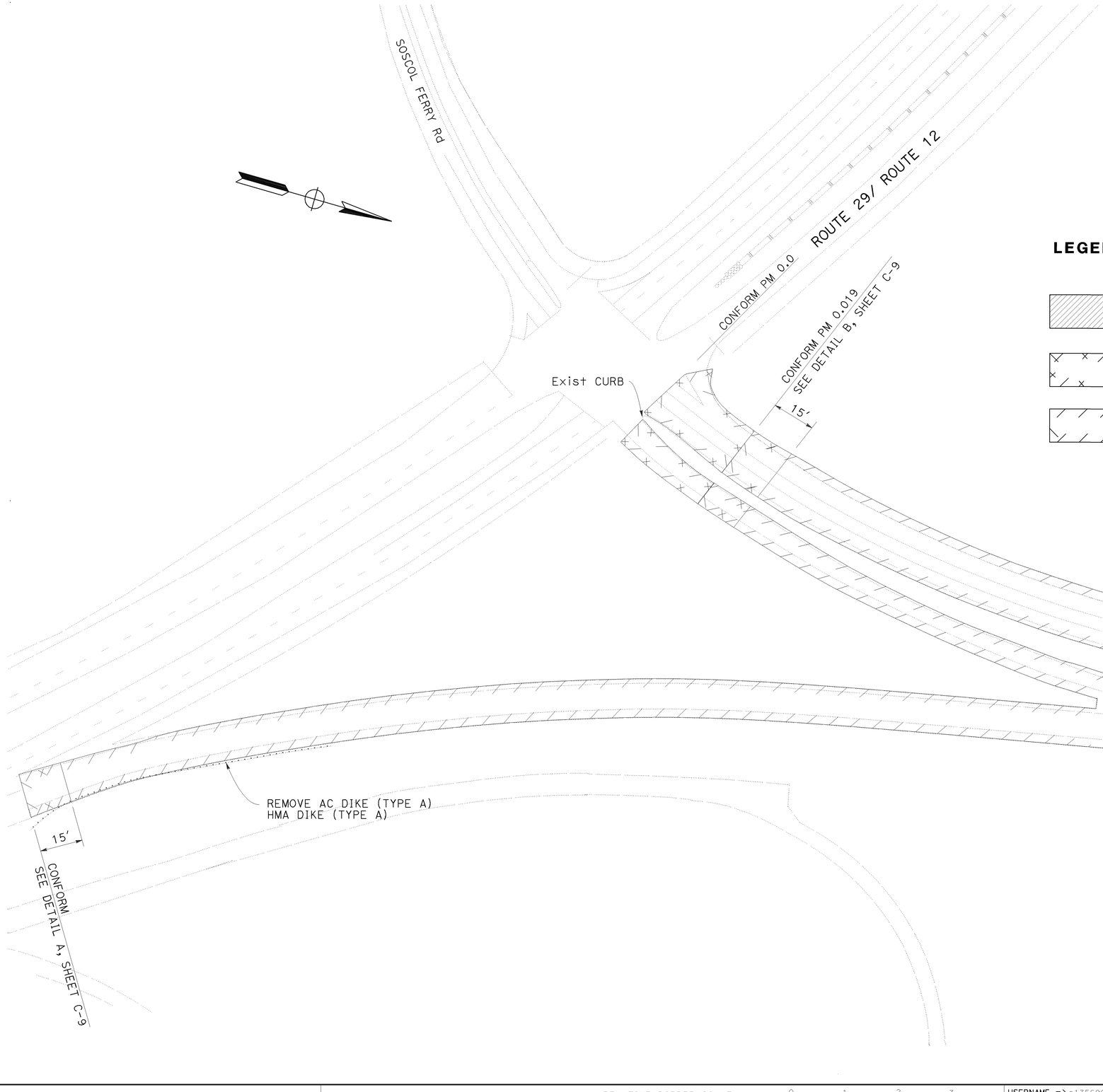

LEGEND:

COLD PLANE AC PAVEMENT 0.40' Max
0.40' HMA (TYPE A)
(FOR THE EXACT QUANTITIES, SEE Q-1)

COLD PLANE AC PAVEMENT 0.10'
PLACE 0.10' RHMA-G

0.10' RHMA-G

CONSTRUCTION DETAILS

NO SCALE

C-1

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
BA NGUYEN	RONNIE CHUA	BN	12/02/09

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION | DATE PLOTTED => 11-MAR-2010 | TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga001.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	4	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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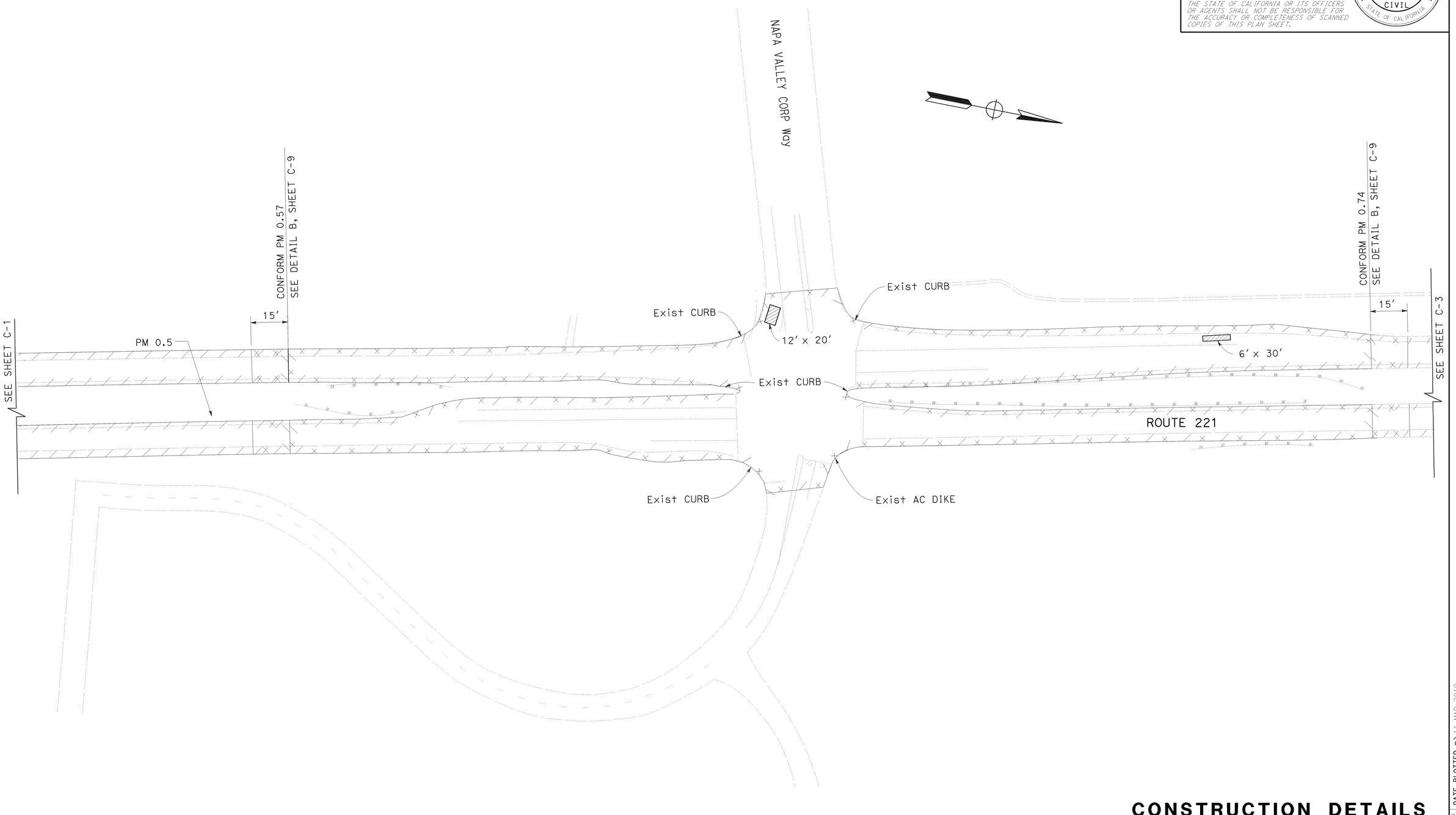

FOR LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-2

CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 12/02/09
FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga002.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	5	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp 6-30-11 — CIVIL — STATE OF CALIFORNIA

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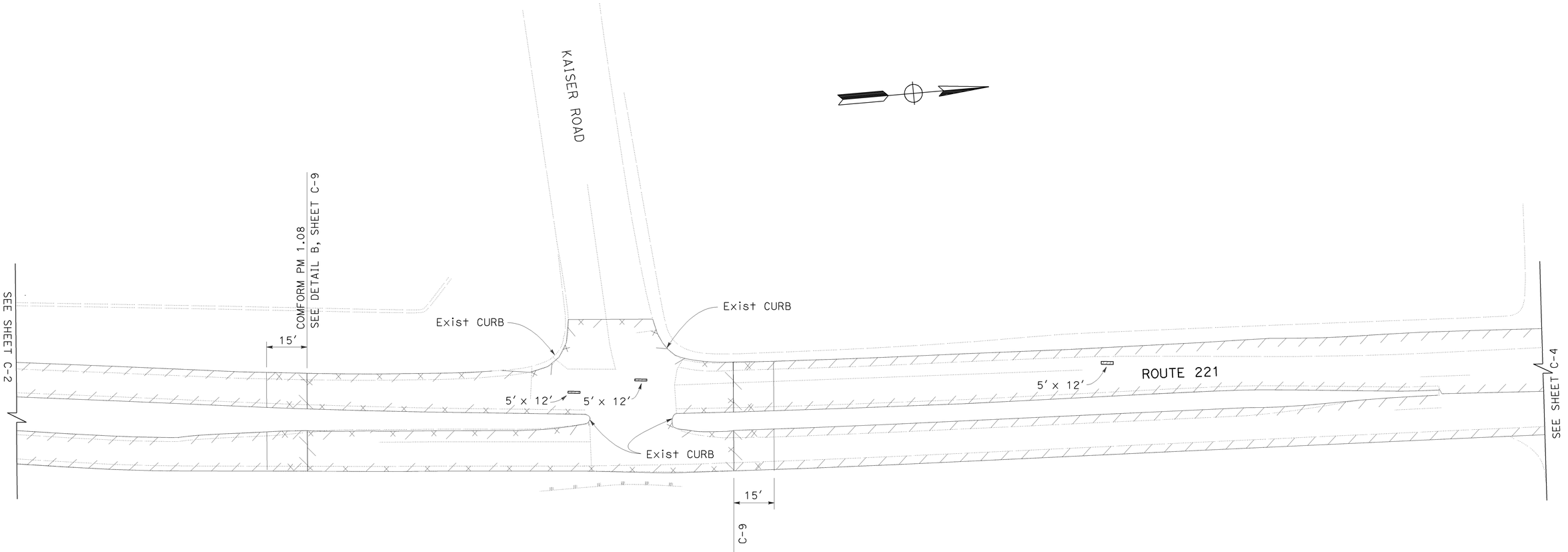

FOR LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-3

CALCULATED-DESIGNED BY	BA NGUYEN	REVISED BY	BN
CHECKED BY	RONNIE CHUA	DATE REVISED	11/24/09

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

LAST REVISION: DATE PLOTTED => 11-MAR-2010 TIME PLOTTED => 15:32

11-24-09

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga003.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	6	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp 6-30-11
CIVIL
STATE OF CALIFORNIA

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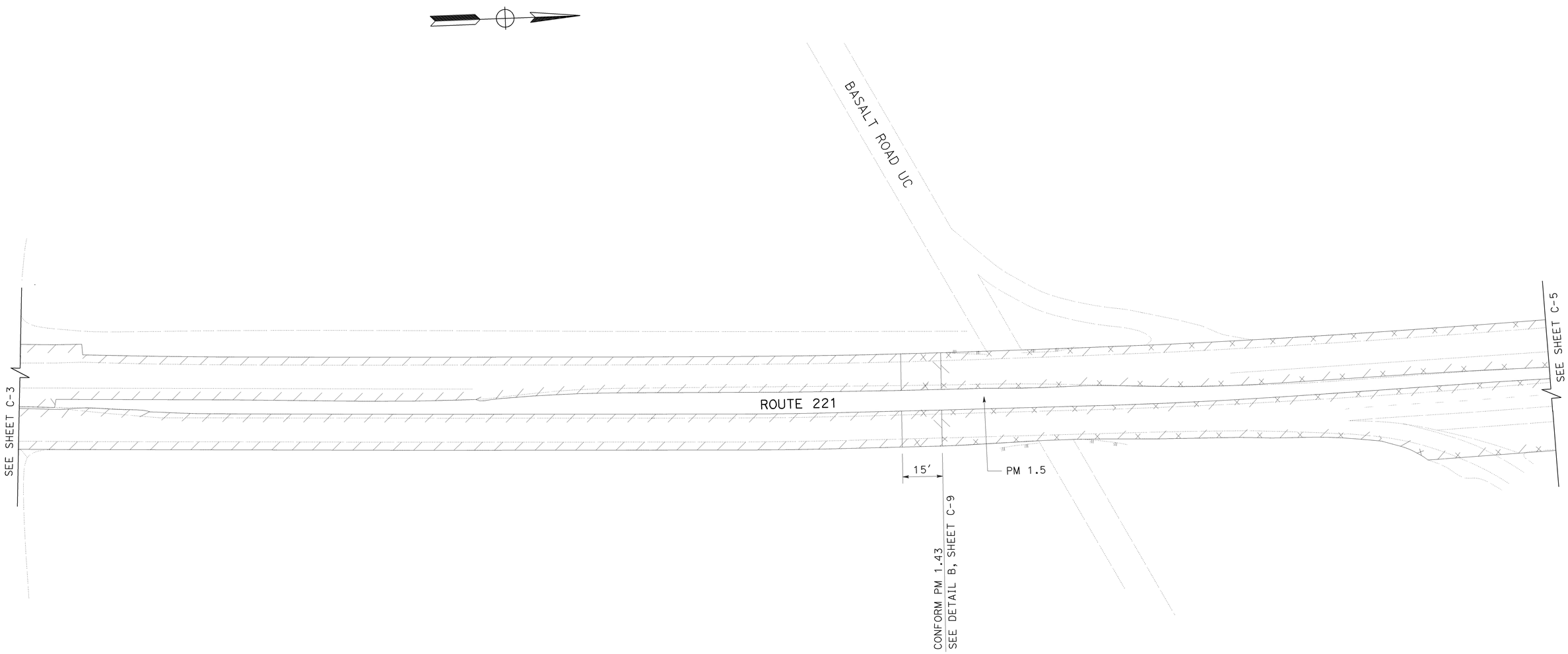

FOR LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-4

	REVISED BY	BN
	DATE REVISED	1/24/09
CALCULATED-DESIGNED BY	BA NGUYEN	
CHECKED BY	RONNIE CHUA	
FUNCTIONAL SUPERVISOR	RONNIE CHUA	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION — DATE PLOTTED => 11-MAR-2010
11-24-09 — TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga004.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	7	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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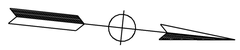
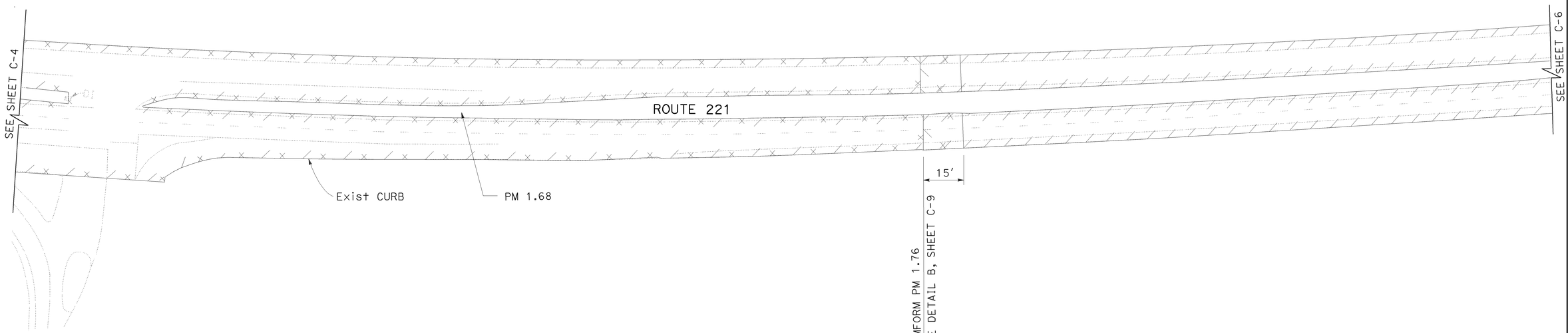




FOR LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-5

CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
FUNCTIONAL SUPERVISOR: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 1/25/10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION: 11-24-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga005.dgn

CU 04609

EA 1E9901

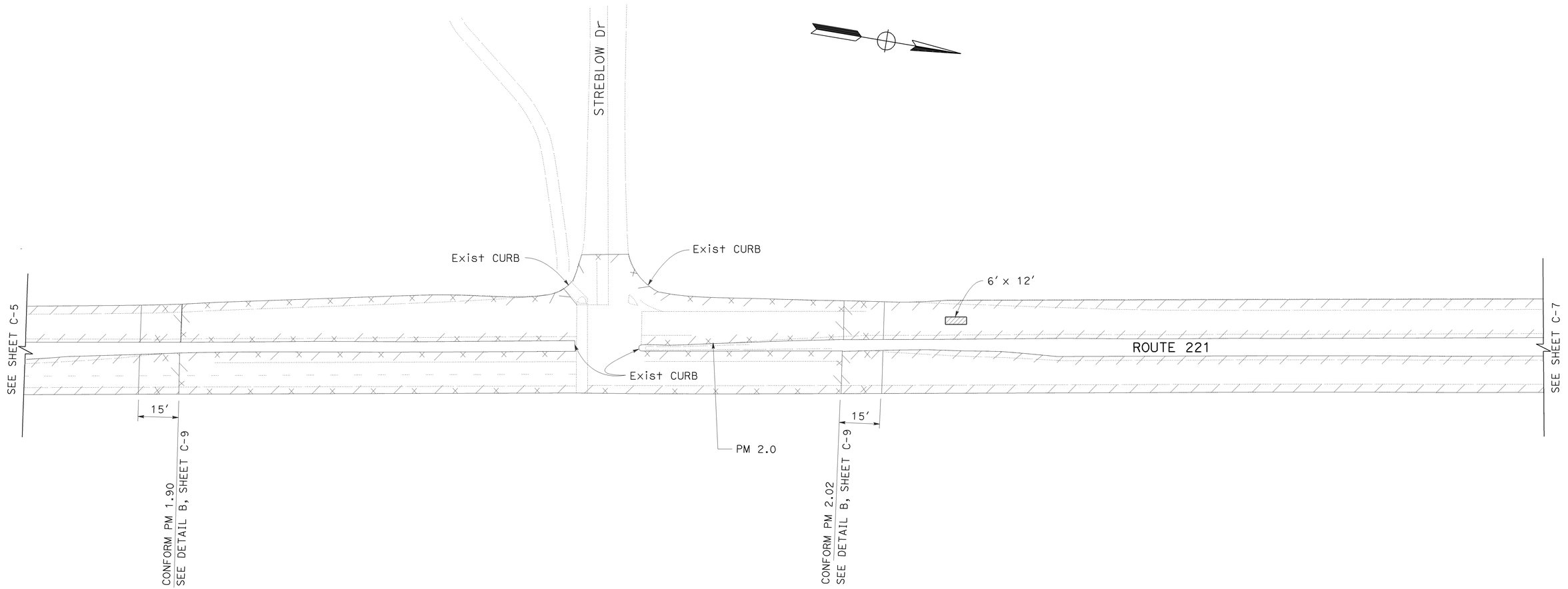
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	8	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
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.



CONSTRUCTION DETAILS

NO SCALE

C-6

FOR LEGEND, SEE SHEET C-1

CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 1/24/10
FUNCTIONAL SUPERVISOR: RONNIE CHUA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION: 11-24-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga006.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	9	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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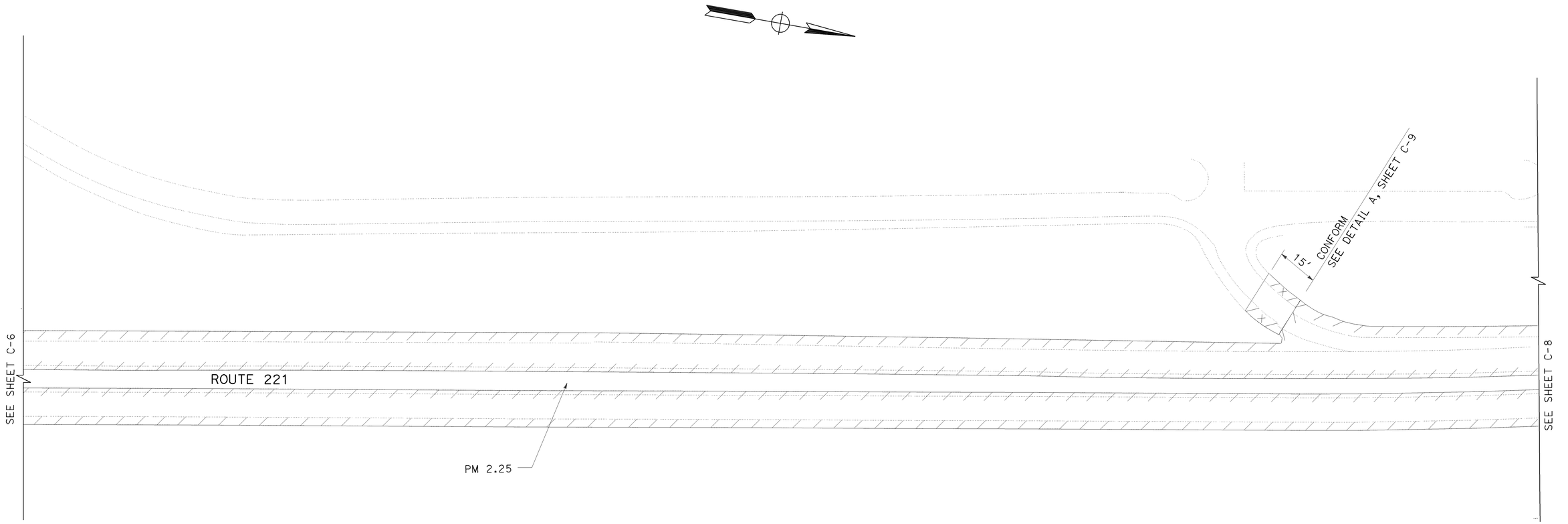

FOR LEGEND, SEE SHEET C-1

CONSTRUCTION DETAILS

NO SCALE

C-7

REVISED BY	BN
DATE REVISED	11/24/09
CALCULATED-DESIGNED BY	BA NGUYEN
CHECKED BY	RONNIE CHUA
FUNCTIONAL SUPERVISOR	RONNIE CHUA

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LAST REVISION DATE PLOTTED => 11-MAR-2010
11-24-09 TIME PLOTTED => 15:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga007.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	10	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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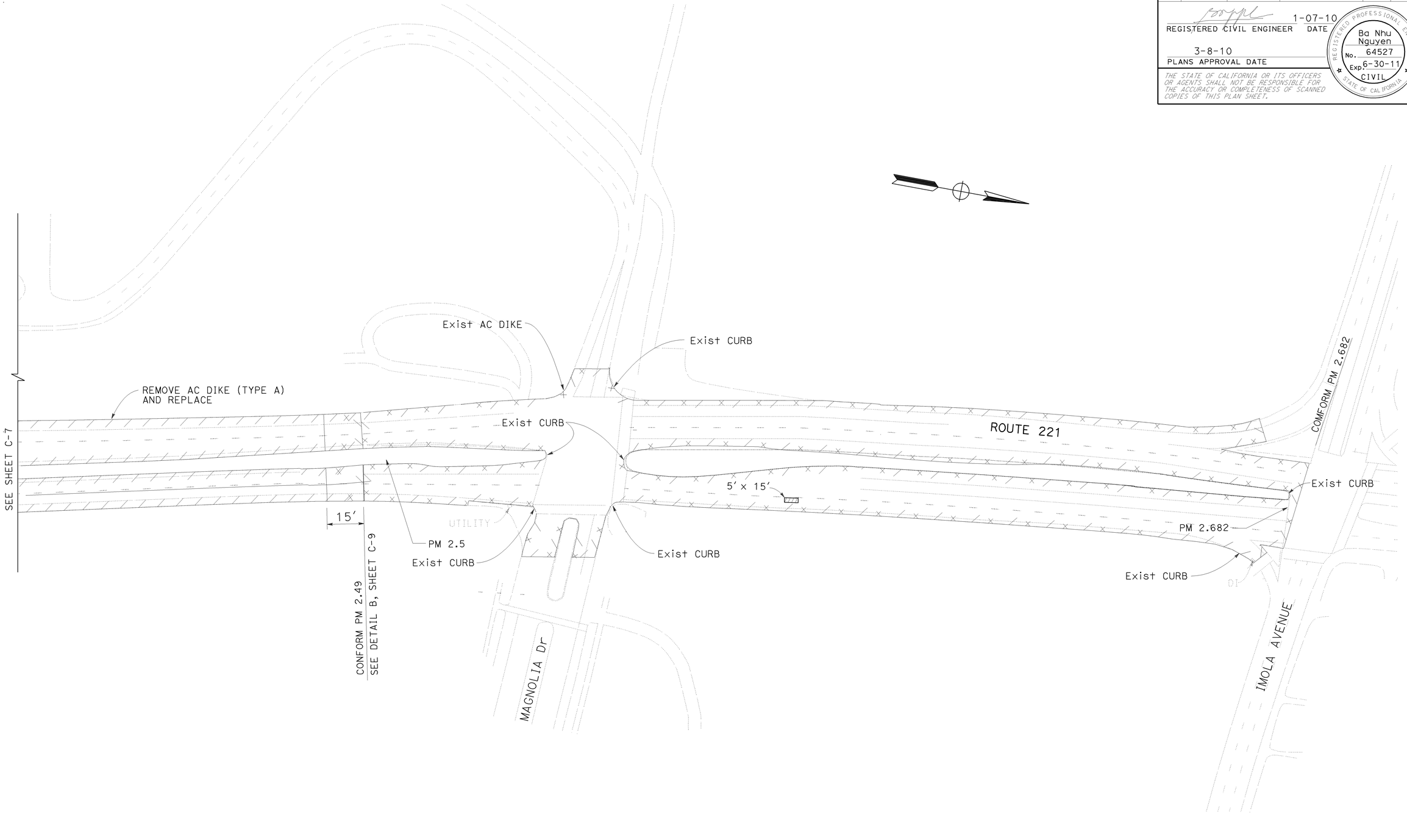

CONSTRUCTION DETAILS

NO SCALE

FOR LEGEND, SEE SHEET C-1

C-8

CALCULATED-DESIGNED BY	BA NGUYEN	
CHECKED BY	RONNIE CHUA	
REVISED BY	BN	
DATE REVISED	12/28/09	
FUNCTIONAL SUPERVISOR	RONNIE CHUA	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

DESIGN

Caltrans

LAST REVISION | DATE PLOTTED => 11-MAR-2010 | TIME PLOTTED => 15:32 | 12-28-09

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ga008.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	11	44

REGISTERED CIVIL ENGINEER 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Ba Nhu Nguyen No. 64527 Exp. 6-30-11 CIVIL STATE OF CALIFORNIA

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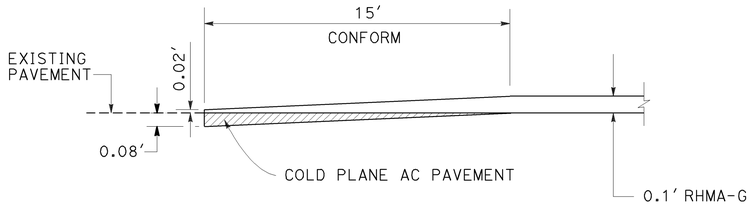
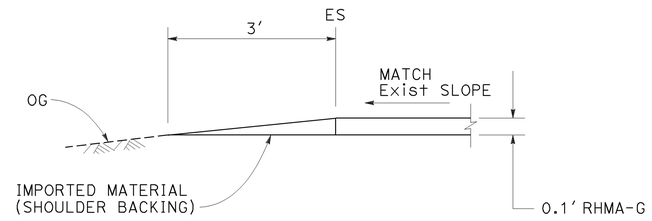
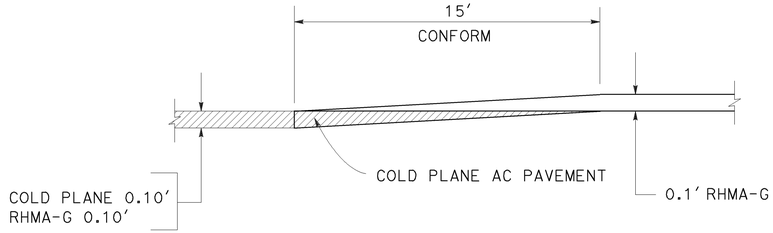


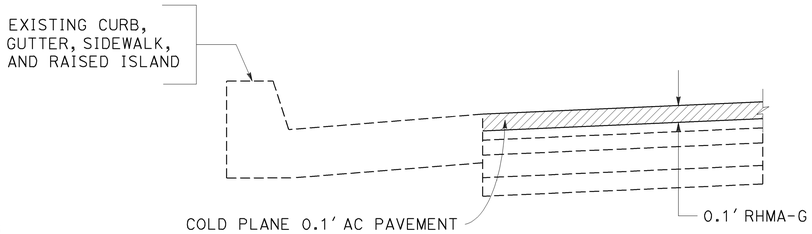
LONGITUDINAL PAVING CONFORM TO EXISTING DETAIL A



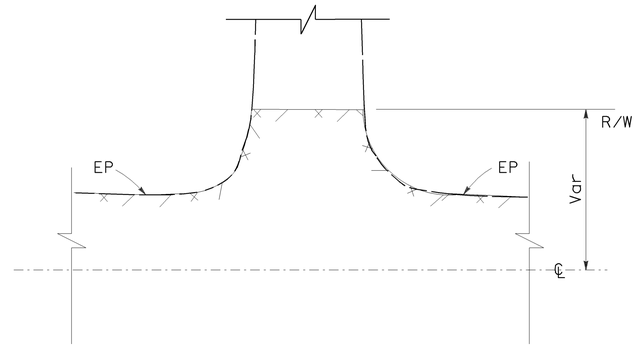
SHOULDER BACKING



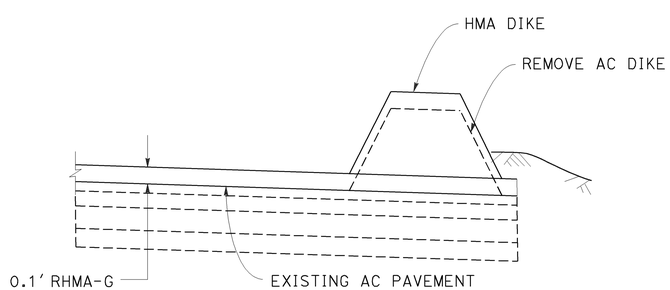
LONGITUDINAL PAVING CONFORM DETAIL B



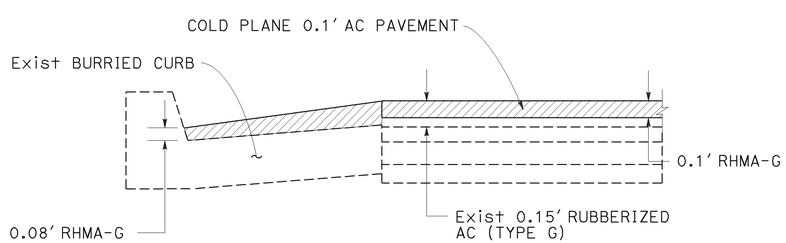
PAVEMENT CONFORM AT EXISTING CURB, GUTTER, SIDEWALK AND RAISED ISLAND



COLD PLANE LIMIT AT INTERSECTIONS



PAVING CONFORM AT DIKE



PAVEMENT CONFORM AT BURRIED CURB,

CONSTRUCTION DETAILS

NO SCALE

C-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
CALCULATED-DESIGNED BY: RONNIE CHUA
CHECKED BY: BA NGUYEN
REVISED BY: BN
DATE REVISED: 12/28/09

LAST REVISION 12-28-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	12	44

REGISTERED CIVIL ENGINEER — 2-17-10 DATE

3-8-10
PLANS APPROVAL DATE

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

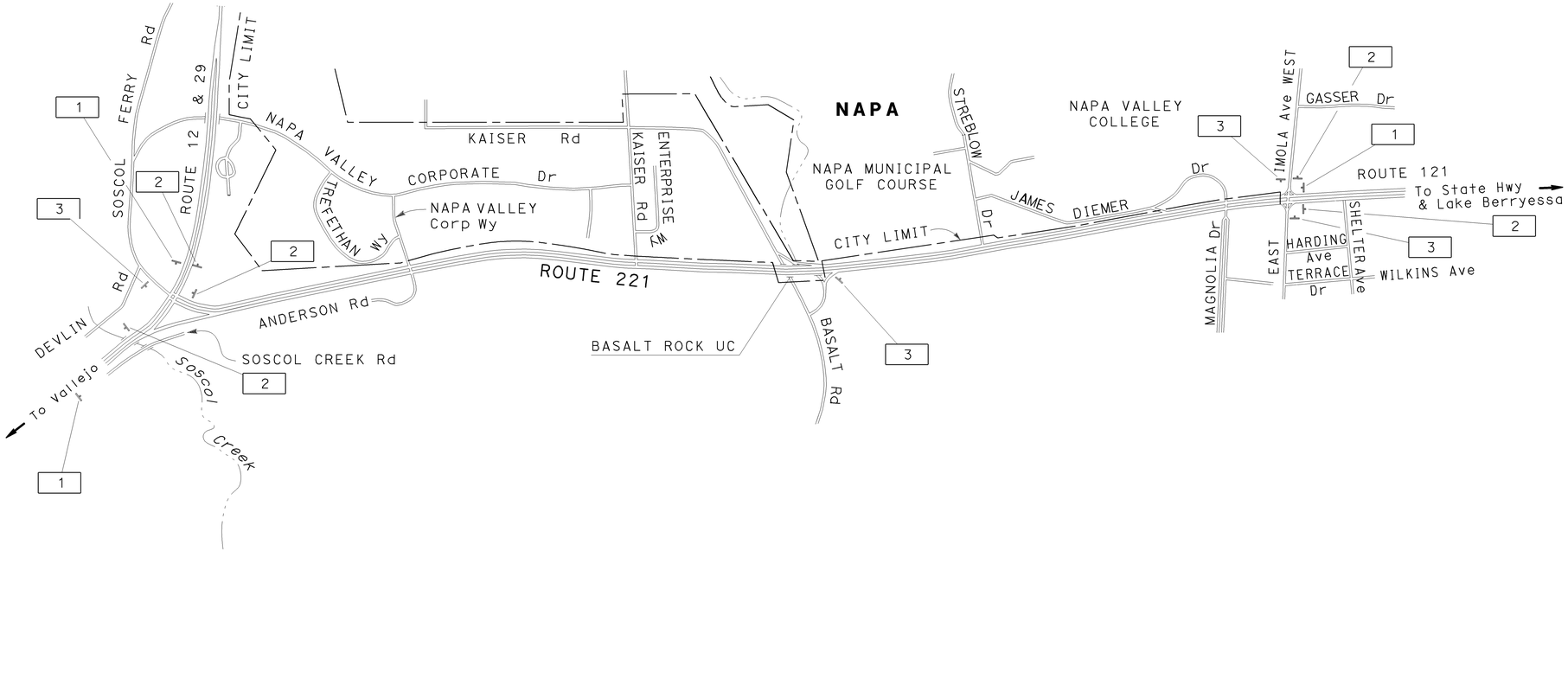
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

- × RAMP OR CONNECTOR CLOSED TO TRAFFIC
- → DIRECTION OF TRAFFIC
- [No.] CONSTRUCTION AREA SIGN NUMBER

NOTES:

1. LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.
2. CONSTRUCTION AREA SIGNS TO BE STATIONARY MOUNTED.



CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

LAST REVISION | DATE PLOTTED => 11-MAR-2010 | 01-25-10 | TIME PLOTTED => 15:32

CALCULATED-DESIGNED BY: HERMINIO S. RUIDERA
CHECKED BY: JERILYN L. STRUVEN
REVISED BY: HR
DATE REVISED: 1/25/10
FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e9901a001.dgn

CU 04609

EA 1E9901

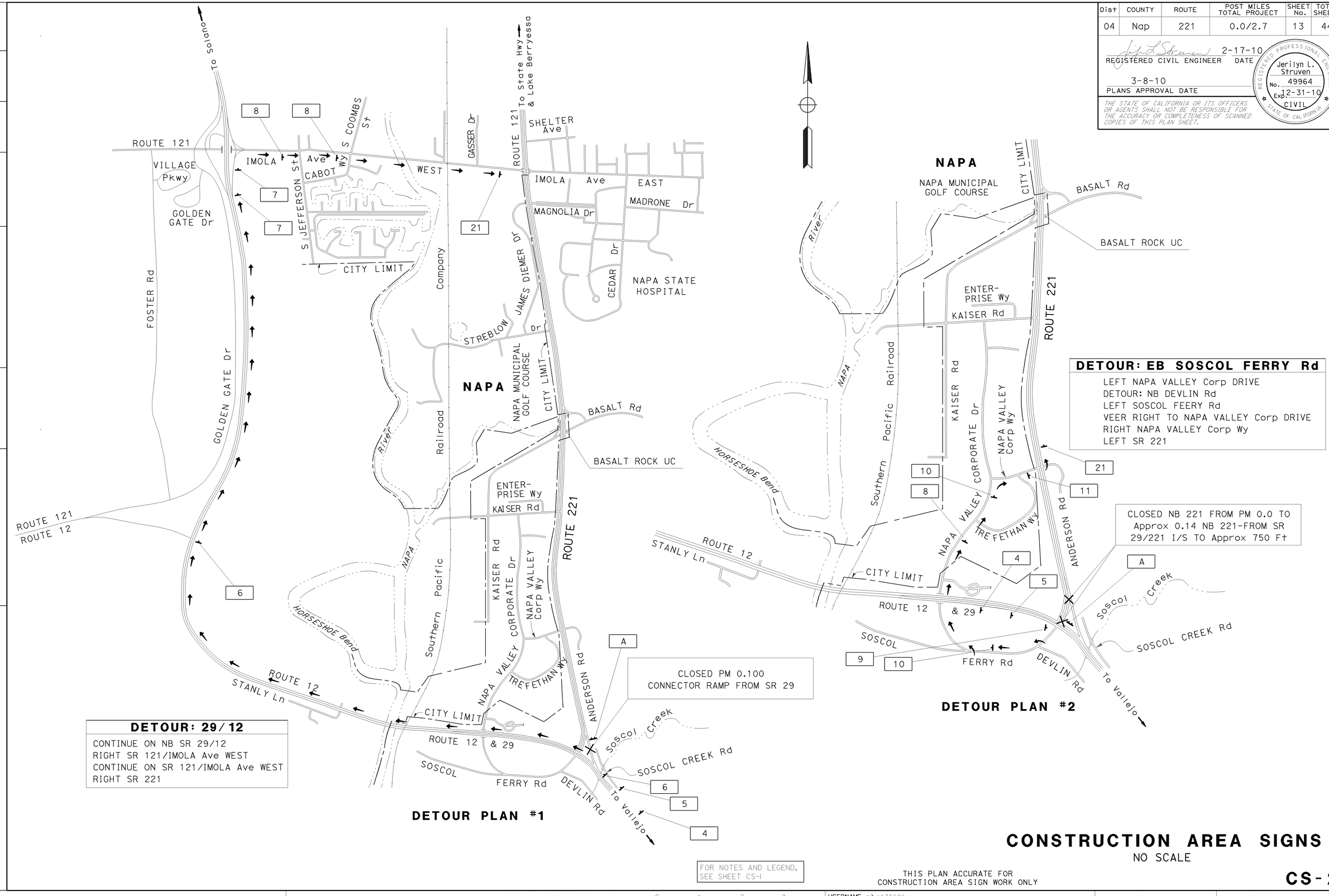
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	13	44

REGISTERED CIVIL ENGINEER — DATE 2-17-10

PLANS APPROVAL DATE 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Jerilyn L. Struven — No. 49964 — Exp. 12-31-10 — 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.



FOR NOTES AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG

CALCULATED-DESIGNED BY: HERMINIO S. RUIDERA

CHECKED BY: JERILYN L. STRUVEN

REVISED BY: HR

DATE REVISED: 1/05/09

LAST REVISION | DATE PLOTTED => 11-MAR-2010 | TIME PLOTTED => 15:32 | 01-05-10

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696

DGN FILE => 41e9901a002.dgn

CU 04609

EA 1E9901

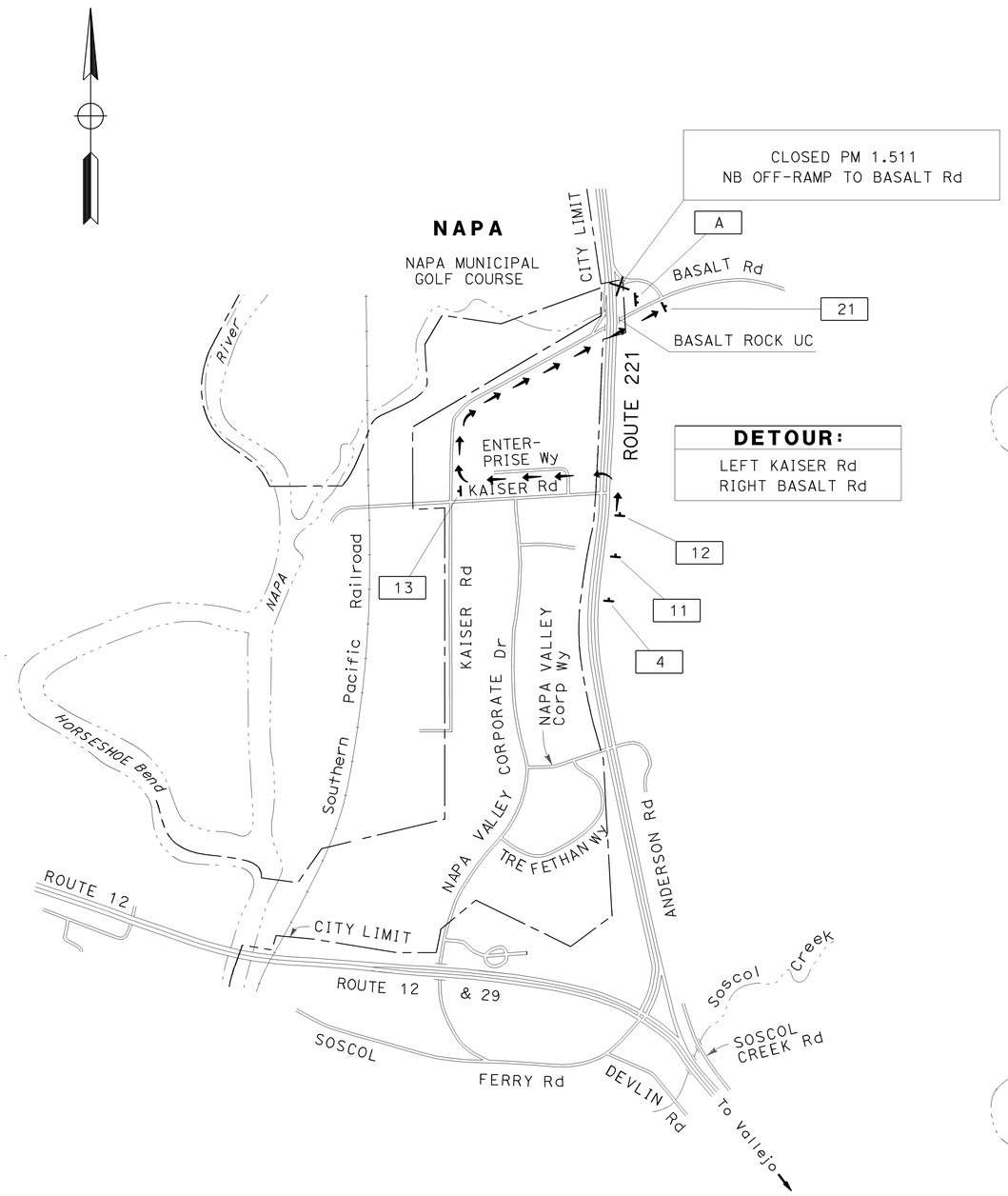
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	14	44

REGISTERED CIVIL ENGINEER — DATE: 2-17-10

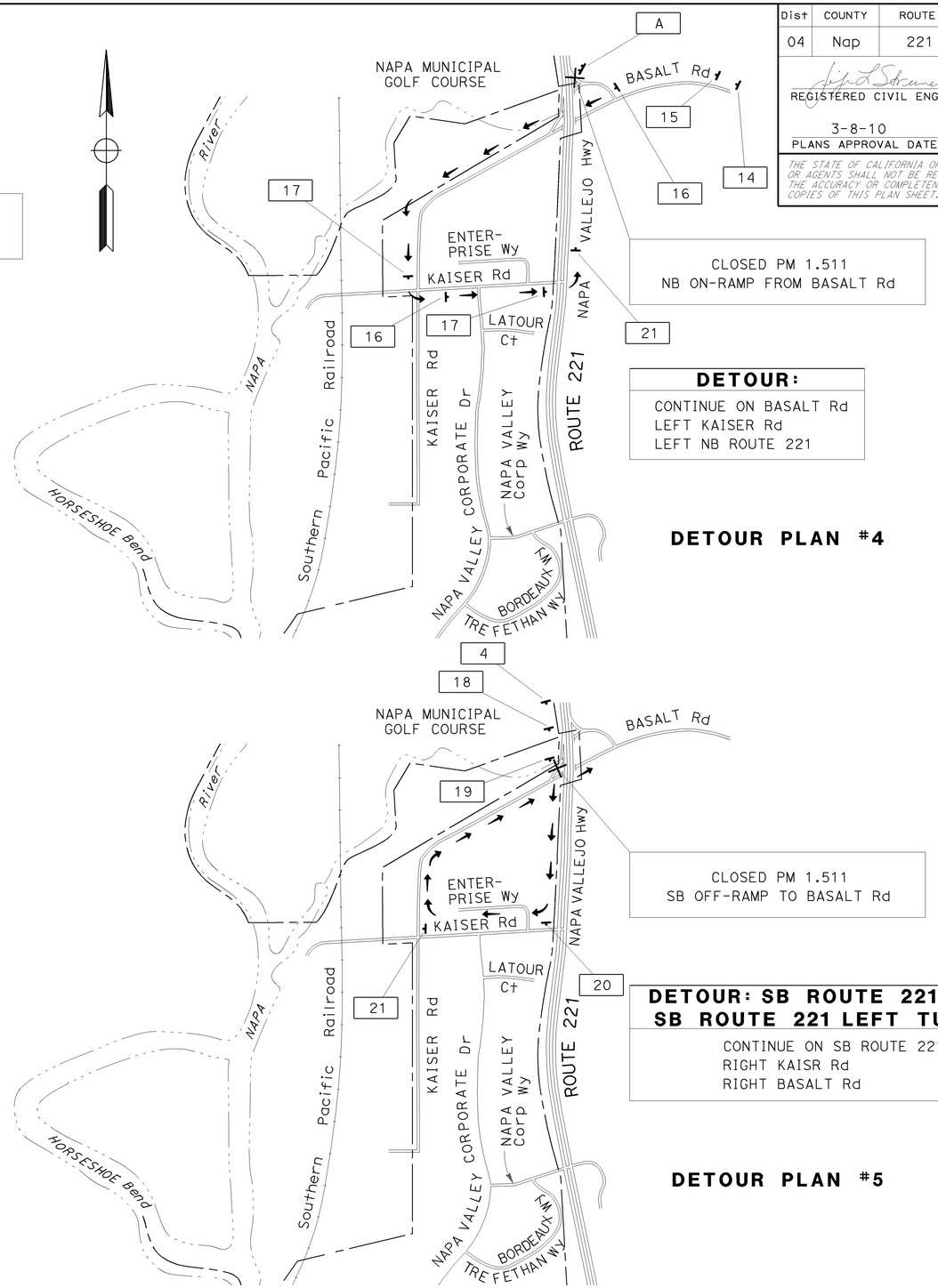
PLANS APPROVAL DATE: 3-8-10

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

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



DETOUR PLAN #3



DETOUR PLAN #4

DETOUR: SB ROUTE 221 OFF-RAMP & SB ROUTE 221 LEFT TURN TRAFFIC

CONTINUE ON SB ROUTE 221
RIGHT KAISR Rd
RIGHT BASALT Rd

DETOUR PLAN #5

CONSTRUCTION AREA SIGNS

NO SCALE

FOR NOTES AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — TRAFFIC

CALCULATED-DESIGNED BY: HERMINIO S. RUIDERA
CHECKED BY: JERILYN L. STRUVEN
FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
REVISED BY: HR
DATE REVISED: 1/05/10

LAST REVISION — DATE PLOTTED => 11-MAR-2010 — TIME PLOTTED => 15:32 — 01-05-10

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES: 0 1 2 3

USERNAME => s135696
DGN FILE => 41e9901a003.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	15	44

REGISTERED CIVIL ENGINEER — DATE 2-17-10

PLANS APPROVAL DATE 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Jerilyn L. Struven, No. 49964, Exp. 12-31-10, 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POSTS & SIZE	No. OF SIGNS	REMARKS
1	W20-1		ROAD WORK AHEAD	48'' x 48''	1-4'' x 6''	3	
2	G20-2		END ROAD WORK	36'' x 18''	1-4'' x 4''	5	
3	W20-1		ROAD WORK AHEAD	36'' x 36''	1-4'' x 4''	3	
4	W20-2		DETOUR AHEAD	48'' x 48''	1-4'' x 6''	5	
5	W20-2		DETOUR AHEAD	48'' x 48''	1-4'' x 6''	2	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	30'' x 15''			
6	M4-8		DETOUR	30'' x 15''	1-4'' x 6''	2	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	30'' x 15''			
	M6-3		↑	30'' x 15''			
7	M4-8		DETOUR	30'' x 15''	1-4'' x 6''	2	
	G28-2		221	28''x 25''			
	M3-3		NORTH	30'' x 15''			
	M6-2		↗	30'' x 15''			
8	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	2	
	G20-2		221	28'' x 25''			
	M3-3		NORTH	21'' x 9''			
	M6-3		↑	21'' x 15''			
9	M4-8		DETOUR	30'' x 15''	1-4'' x 6''	2	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	30'' x 15''			
	M6-1		→	21'' x 15''			
10	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	2	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	21'' x 9''			
	M6-1		→	21'' x 15''			
11	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	1	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	21'' x 9''			
	M6-1		←	21'' x 15''			
12	M4-8		DETOUR	21'' x 9''	1-6'' x 6''	1	SEE DETAILS
	SPEC			54'' x 30''			
13	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	1	SEE DETAILS
	SPEC			36'' x 24''			
	M6-1		←	21'' x 15''			
14	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	1	SEE DETAILS
	SPEC			36'' x 24''			
	M6-1		→	21'' x 15''			
15	W20-3		RAMP CLOSED AHEAD	48'' x 48''	1-4'' x 6'''	1	
16	W20-3		RAMP CLOSED AHEAD	48'' x 48''	1-4'' x 6''	1	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	21'' x 9''			

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (CONTINUED)

SIGN No.	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	SIGN MESSAGE	PANEL SIZE	No. OF POSTS & SIZE	No. OF SIGNS	REMARKS
17	M4-8		DETOUR	21'' x 9''	1-4'' x 6''	2	
	G28-2		221	28'' x 25''			
	M3-3		NORTH	21'' x 9''			
	M6-3		↑	21'' x 15''			
18	W20-3		RAMP CLOSED AHEAD	48'' x 48''	1-4'' x 6''	1	
		C38	USE NEXT EXIT	48'' x 36''			
19	M4-8		DETOUR	30'' x 15''	1-4'' x 4''	1	
	M6-3		↑	30'' x 15''			
20	M4-8		DETOUR	30'' x 15''	1-4'' x 4''	1	
	M6-1		←	30'' x 15''			
21	M4-8a		END DETOUR	30'' x 18''	1-4'' x 4''	5	
A		SC6-4	RAMP CLOSED (DATES, TIME)	60'' x 36''	2-4'' x 4''	5	

12

SPEC 5'' D

BASALT RD
USE
KAISER RD

54'' x 30''
BLACK/ ORANGE

13 14

SPEC 5'' D

BASALT
RD

36'' x 24''
BLACK/ ORANGE

DETAILS

FOR NOTES AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG

CALCULATED-DESIGNED BY: HERMINIO S. RUIDERA
CHECKED BY: JERILYN L. STRUVEN

REVISED BY: HR — DATE REVISED: 12/28/09

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	16	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

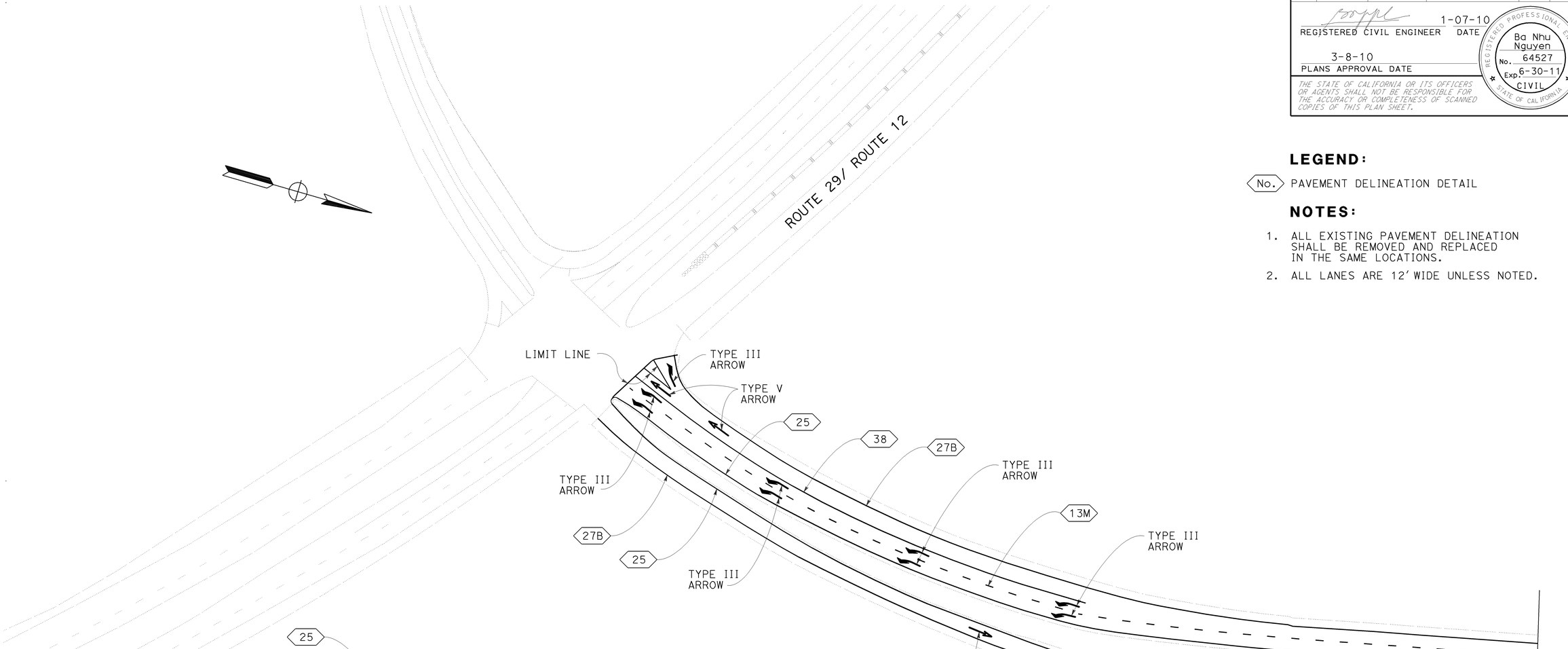
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

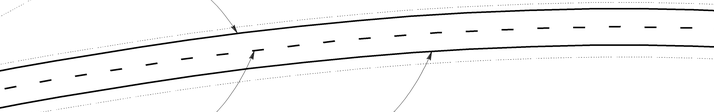
(No.) PAVEMENT DELINEATION DETAIL

NOTES:

1. ALL EXISTING PAVEMENT DELINEATION SHALL BE REMOVED AND REPLACED IN THE SAME LOCATIONS.
2. ALL LANES ARE 12′ WIDE UNLESS NOTED.



LANELINES
(MULTILANE HIGHWAYS) (TYPICAL)



DETAIL 13M

PAVEMENT DELINEATION PLAN

NO SCALE

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: RONNIE CHUA
CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 11/24/09

LAST REVISION: DATE PLOTTED => 11-MAR-2010
11-24-09 TIME PLOTTED => 15:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135696
DGN FILE => 41e990na001.dgn
CU 04609
EA 1E9901

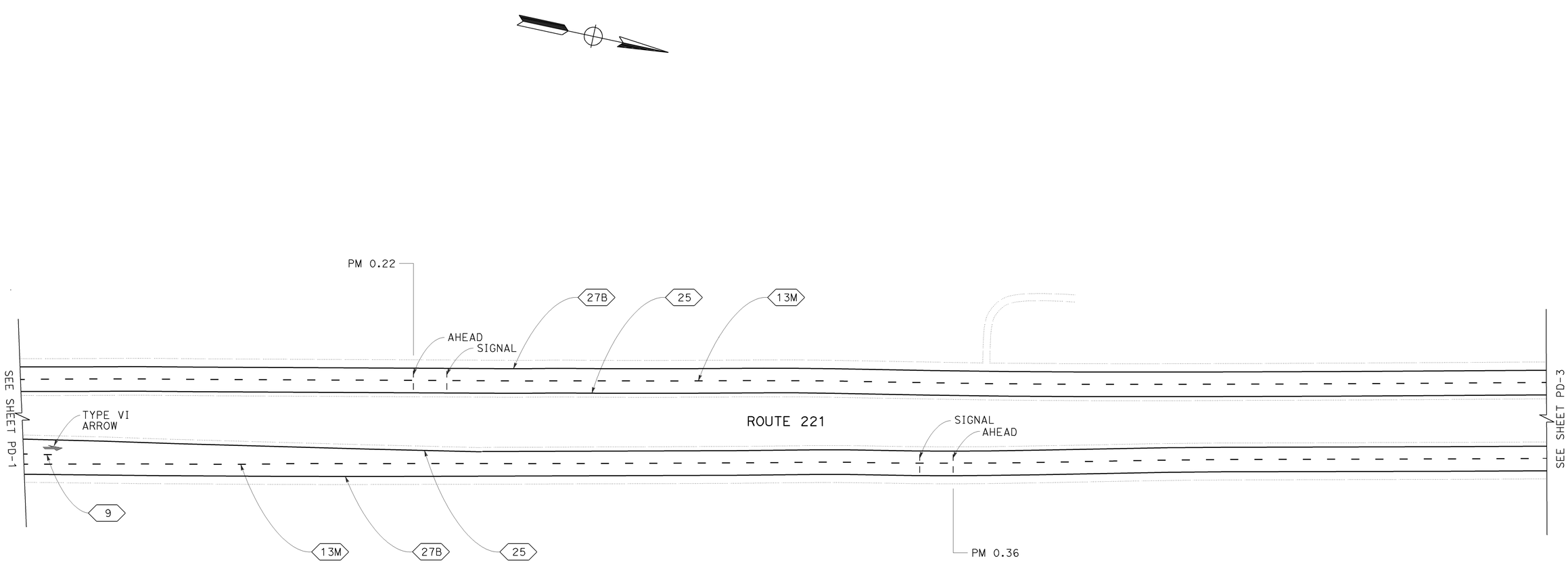
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	17	44

REGISTERED CIVIL ENGINEER 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
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.



PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 11/24/09

LAST REVISION 11-24-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135696
DGN FILE => 41e990na002.dgn
CU 04609
EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	18	44

REGISTERED CIVIL ENGINEER 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

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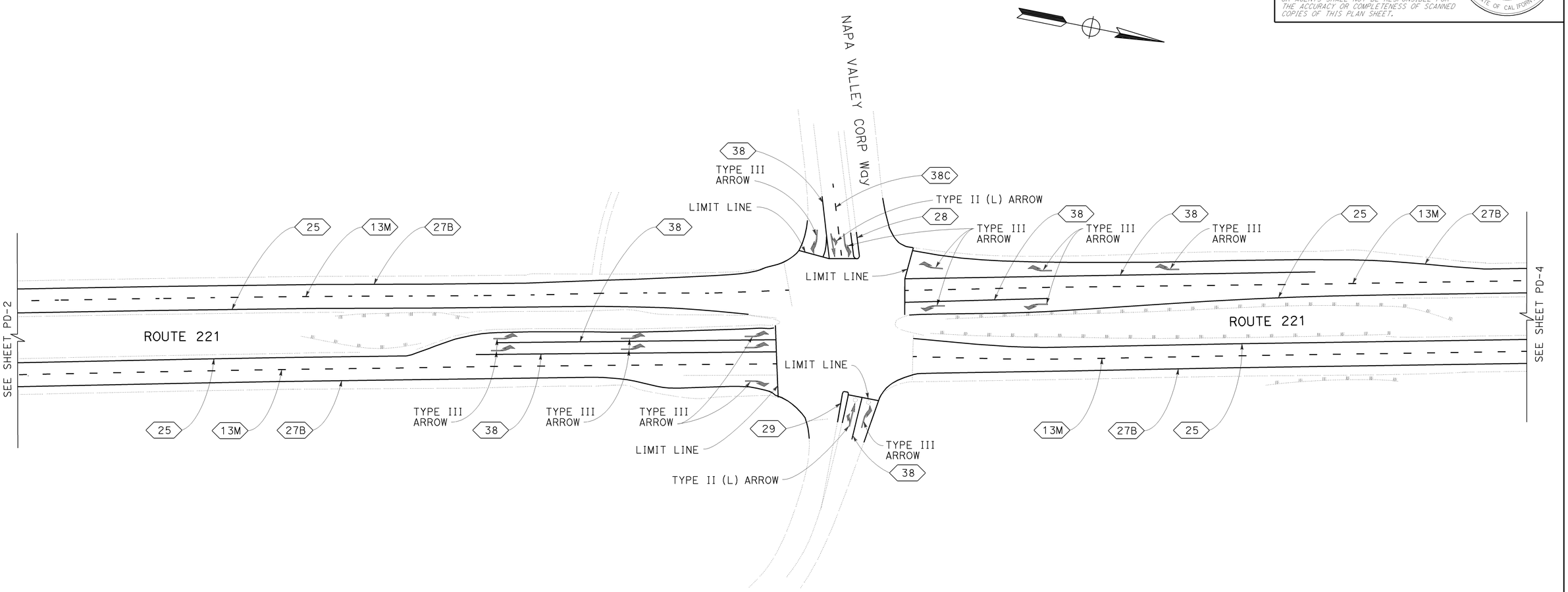

PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 12/02/09

LAST REVISION 12-02-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135696
DGN FILE => 41e990na003.dgn
CU 04609
EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	19	44

1-07-10
REGISTERED CIVIL ENGINEER DATE

Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-8-10
PLANS APPROVAL DATE

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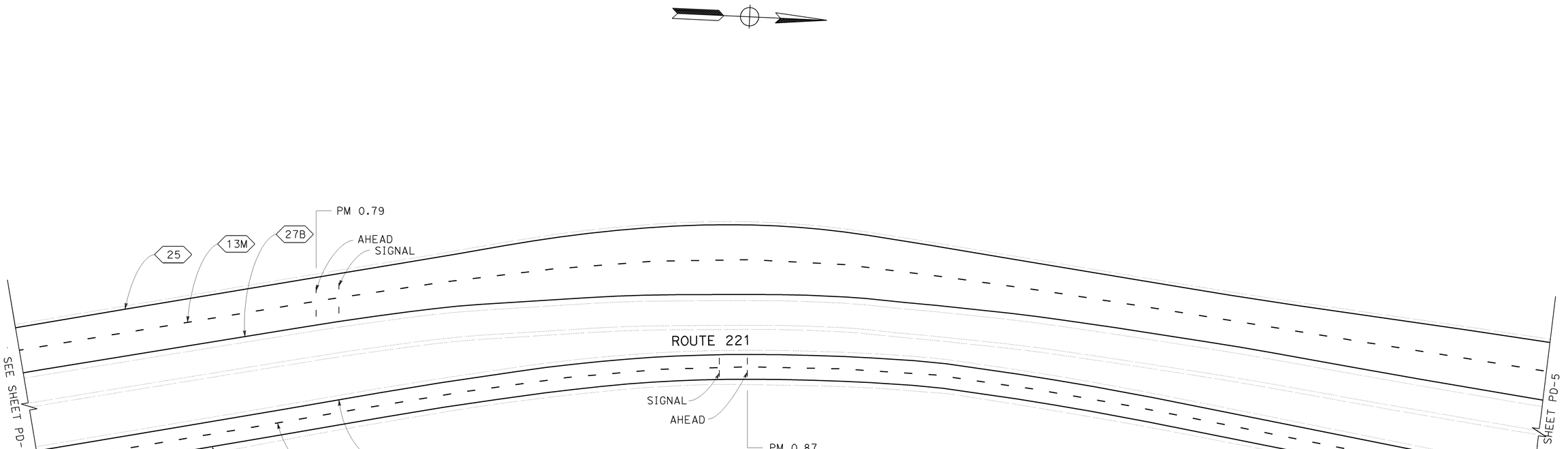


PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-4

BA NGUYEN — CALCULATED-DESIGNED BY
RONNIE CHUA — CHECKED BY
BN — REVISED BY
11/24/09 — DATE REVISED
RONNIE CHUA — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33
11-24-09

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990na004.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	20	44

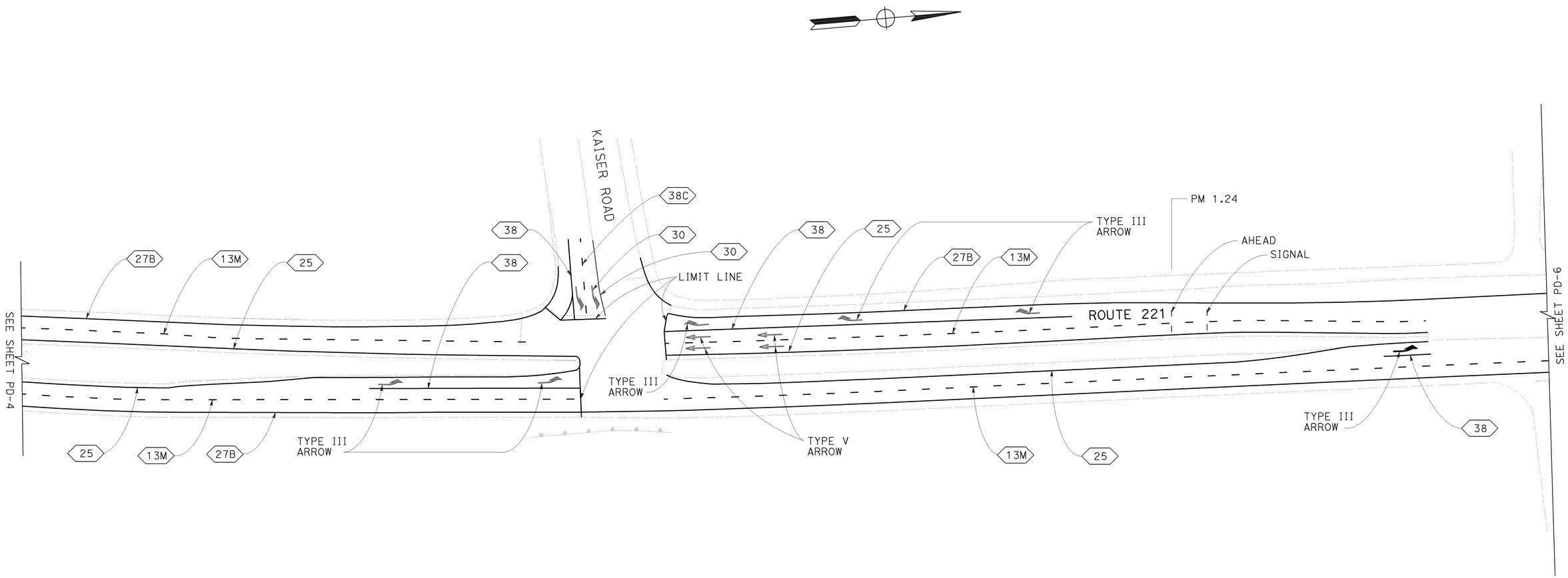
REGISTERED CIVIL ENGINEER 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
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.

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



PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

CALCULATED-DESIGNED BY	BA NGUYEN
CHECKED BY	RONNIE CHUA
REVISED BY	BN
DATE REVISED	12/02/09
FUNCTIONAL SUPERVISOR	RONNIE CHUA

LAST REVISION 12-02-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	21	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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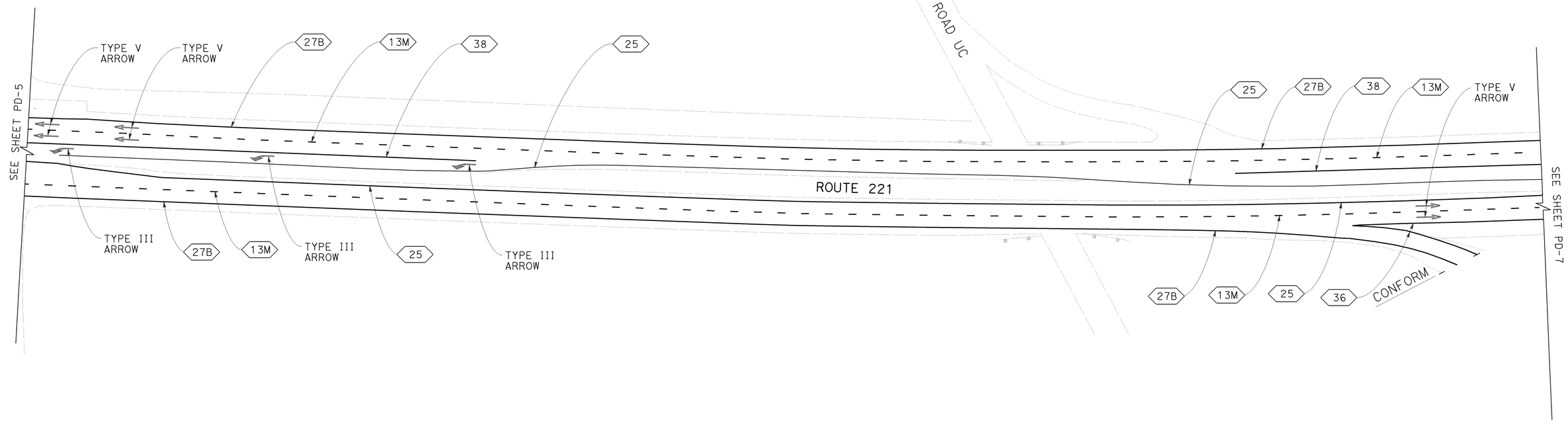


PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-6

CALCULATED-DESIGNED BY	REVISED BY	BA NGUYEN
CHECKED BY	DATE REVISED	RONNIE CHUA

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990na006.dgn

CU 04609

EA 1E9901

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33
11-24-09

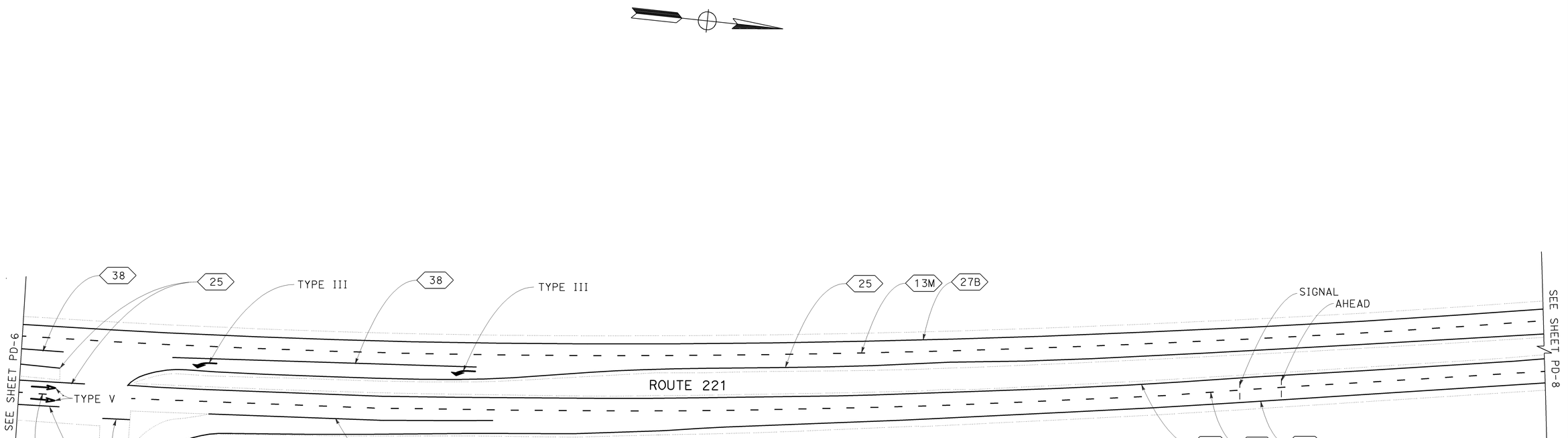
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	22	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — 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.



FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PAVEMENT DELINEATION PLAN

NO SCALE

PD-7

CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 11/24/09
FUNCTIONAL SUPERVISOR: RONNIE CHUA
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990na007.dgn

CU 04609

EA 1E9901

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 5:33
11-24-09

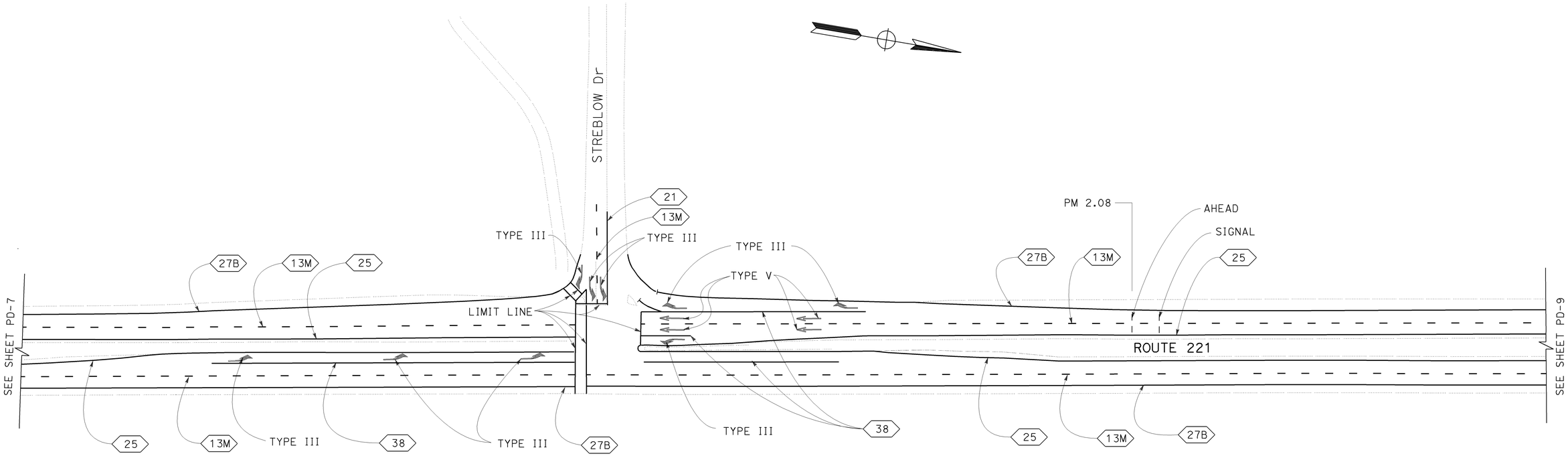
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	23	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
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.



PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-8

CALCULATED-DESIGNED BY
BA NGUYEN

CHECKED BY
RONNIE CHUA

REVISED BY
BN

DATE REVISED
12/02/09

FUNCTIONAL SUPERVISOR
RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION | DATE PLOTTED => 11-MAR-2010
12-02-09 | TIME PLOTTED => 15:33

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990na008.dgn

CU 04609

EA 1E9901

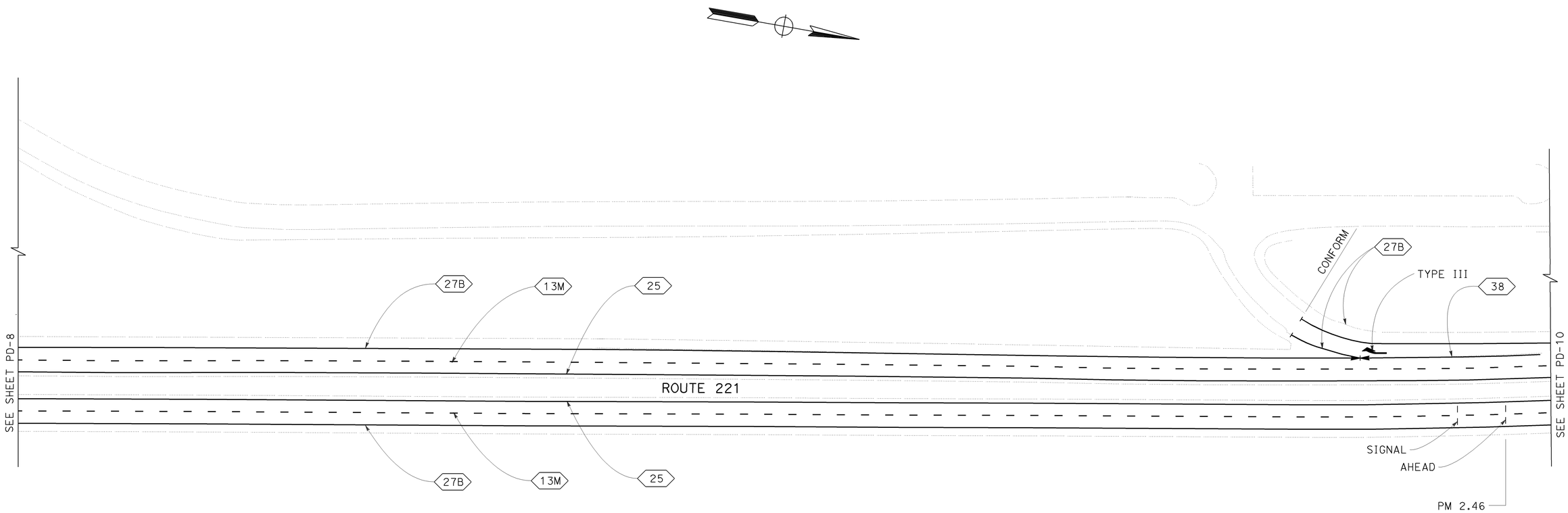
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	24	44

REGISTERED CIVIL ENGINEER 1-07-10 DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Ba Nhu Nguyen
No. 64527
Exp. 6-30-11
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.



PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: RONNIE CHUA
CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 11/24/09

LAST REVISION 11-24-09
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135696
DGN FILE => 41e990na009.dgn
CU 04609
EA 1E9901

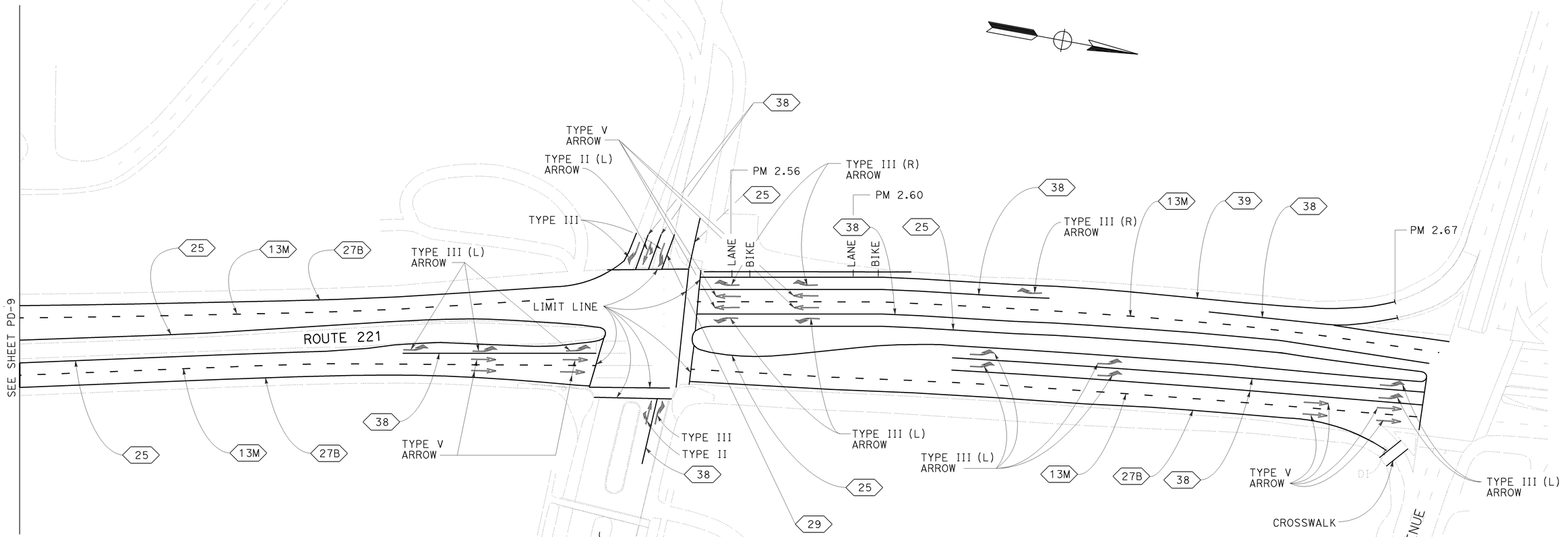
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	25	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — 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.



PAVEMENT DELINEATION PLAN

NO SCALE

FOR NOTES, AND LEGEND, SEE SHEET PD-1

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-10

CALCULATED-DESIGNED BY: BA NGUYEN
CHECKED BY: RONNIE CHUA
REVISED BY: BN
DATE REVISED: 12/03/09
FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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USERNAME => s135696
DGN FILE => 41e990na010.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	26	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

Ba Nhu Nguyen No. 64527 Exp. 6-30-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION EB AND WB	PM	DETAIL No. OR PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKERS					THERMO-PLASTIC PAVEMENT MARKING	REMOVE			
								NON-REFLECTIVE		RETRO REFLECTIVE				THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER	THERMOPLASTIC PAVEMENT MARKING
			4'' YELLOW	4'' WHITE BROKEN	4'' WHITE	6'' WHITE	8'' WHITE	TYPE A	TYPE AY	TYPE D	TYPE G	TYPE H		4'' YELLOW	4'', 6'', 8'' WHITE		
			LF					EA					SQFT	LF		EA	SQFT
AT JUNCTION OF ROUTE 29	0.0/0.2	13M		2839				237			59				828	296	
		25	3212									68		3212		68	
		9		340							8				99	8	
		27B			3178										3178		
		38					578				27				578	27	
		LIMIT LINE											73				73
		TYPE V ARROW											264				264
		TYPE III (L) ARROW											336				336
		TYPE III (R) ARROW											42				42
		TYPE VI ARROW											126				126
FROM ROUTE 29 TO NAPA VALLEY CORPORATE WAY	0.2/0.5	13M		3168				264			68				924	332	
		25	3168									68		3168		68	
		27B			3168										3168		
		AHEAD											124				124
		SIGNAL											124				124
AT NAPA VALLEY CORPORATE WAY INTERSECTION	0.5/0.7	13M		1842				154			42				537	196	
		25	1842									42		1842		42	
		27B			1842										1842		
		28	100											100			
		29	200							6				200		6	
		38					1220				56				1220	56	
		38C						30			8					38	
		LIMIT LINE											224				224
		TYPE III (L) ARROW											378				378
		TYPE II (L) ARROW											90				90
		TYPE III (R) ARROW											252				252
FROM NAPA VALLEY CORPORATE WAY TO KAISER ROAD	0.7/1.05	13M		3696				308			79				1078	387	
		25	3696									79		3696		79	
		27B			3696										3696		
		AHEAD											124				124
		SIGNAL											124				124
AT KAISER ROAD INTERSECTION	1.05/1.36	13M		3004				250			65				876	315	
		25	3004									67		3004		67	
		27B			3004										3004		
		30							60	16						76	
		38					609				27				609	27	
		38C						30			8					38	
		LIMIT LINE											147				147
		TYPE III (L) ARROW											336				336
		TYPE III (R) ARROW											126				126
		TYPE V ARROW											264				264
		AHEAD											62				62
		SIGNAL											64				64
FROM KAISER ROAD TO BASALT Rd UC	1.36/1.5	13M		1478				123			33				431	156	
		25	1478									33		1478		33	
		27B			1478										1478		
SUBTOTAL PDQ1			16700	16367	16366	0	2407	1396	60	22	480	357	3288	16700	23546	2315	3288

PAVEMENT DELINEATION QUANTITIES

PDQ-1

BN | 1/25/10 — REVISED BY | DATE REVISED

BA NGUYEN | RONNIE CHUA — CALCULATED-DESIGNED BY | CHECKED BY

RONNIE CHUA — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans

LAST REVISION | DATE PLOTTED => 11-MAR-2010 | TIME PLOTTED => 15:33 | 01-25-10

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DGN FILE => 41e990nc001.dgn

CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	27	44

REGISTERED CIVIL ENGINEER — DATE: 1-07-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

LOCATION EB AND WB	PM	DETAIL No. OR PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKERS					THERMO-PLASTIC PAVEMENT MARKING	REMOVE			
								NON-REFLECTIVE		RETRO REFLECTIVE				THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER	THERMOPLASTIC PAVEMENT MARKING
			4'' YELLOW	4'' WHITE BROKEN	4'' WHITE	6'' WHITE	8'' WHITE	TYPE A	TYPE AY	TYPE D	TYPE G	TYPE H		4'' YELLOW	4'', 6'', 8'' WHITE		
			LF					EA					SQFT	LF		EA	SQFT
AT BASALT ROAD INTERESECTION	1.5/1.68	13M		1827				152			40				533	192	
		25	1901									42		1901		42	
		27B			1901										1901		
		36					419				19				419	19	
		38					630				29				630	29	
		LIMIT LINE											28				28
		TYPE III (L) ARROW											84				84
		TYPE V ARROW											132				132
		STOP											22				22
FROM BASALT ROAD TO STREBLOW DRIVE	1.68/1.88	13M		2112				176			46				616	222	
		25	2112									46		2112		46	
		27B			2112										2112		
		AHEAD											62				62
		SIGNAL											64				64
AT STREBLOW DRIVE INTERSECTION	1.88/2.0	13M		1139				95			26				332	121	
		21	120											120			
		25	1139									26		1139		26	
		27B			1139										1139		
		38					823				38				823	38	
		LIMIT LINE											272				272
		TYPE III (L) ARROW											210				210
		TYPE III (R) ARROW											84				84
		TYPE V ARROW											132				132
FROM STREBLOW DRIVE TO MAGNOLIA DRIVE	2.0/2.45	13M		4752				396			101				1386	497	
		25	4752									101		4752		101	
		27B			4752										4752		
		38					250				11				250	11	
		TYPE III (R) ARROW											42				42
		AHEAD											124				124
		SIGNAL											128				128
FROM MAGNOLIA DRIVE TO IMOLA AVENUE INTERSECTION	2.45/2.68	13M		2279				190			49				665	239	
		25	2279									49		2279		49	
		27B			1494										1494		
		29	200							6				200		6	
		38					1395				62				1395	62	
		39				944									944		
		LIMIT LINE											611				611
		TYPE III (L&R) ARROW											714				714
		TYPE II (L) ARROW											90				90
		TYPE V ARROW											396				396
		LANE											12				12
		BIKE											10				10
SUBTOTAL PDQ2			12503	12109	11398	944	3517	1009	0	6	423	264	3217	12503	19391	1702	3217
SUBTOTAL PDQ1			16700	16367	16366	0	2407	1396	60	22	480	357	3288	16700	23546	2315	3288
SUBTOTAL PDQ 1 & 2			29203	28476	27764	944	5924	2405	60	28	903	621	6505	29203	42937	4016	6505
GRAND TOTAL			86387				5924	2465			1552		6505	29203	42937	4016	6505

BA NGUYEN — REVISED BY — BN — 1/25/10 — DATE REVISED

RONNIE CHUA — CALCULATED-DESIGNED BY

CHECKED BY

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

Caltrans

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION — DATE PLOTTED => 11-MAR-2010 — TIME PLOTTED => 15:33 — 01-25-10

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CU 04609

EA 1E9901

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	28	44

REGISTERED CIVIL ENGINEER — 1-07-10 DATE

3-8-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Ba Nhu Nguyen — No. 64527 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION	PM	COLD PLANE AC PAVEMENT (0.1' Max)		RUBBERIZED HOT MIX ASPHALT (GAP GRADED)		TACK COAT		CRACK TREATMENT	
		NB	SB	NB	SB	NB	SB	NB	SB
		SQYD		TON				LNMI	
FROM Rte 29 TO NAPA VALLEY CORPORATE Wy	0.0/0.51	431.33	655.00	1042.39	795.13	6.57	5.01	1.0	1.5
AT NAPA VALLEY CORPORATE Wy INTERSECTION	0.51/0.74	13163.89		888.56		5.60			
TO KAISER Rd	0.74/1.08	126.67	118.33	454.10	467.31	2.86	2.95		
AT KAISER ROAD INTERSECTION	1.08/1.17	4664.78		314.87		1.99			
FROM KAISER Rd TO BASALT Rd UC	1.17/1.49	93.33	141.67	501.86	600.94	3.16	3.79		
AT BASALT ROAD INTERSECTION	1.49/1.76	14601.89		985.63		6.21			
FROM BASALT Rd TO STREBLOW Dr	1.76/1.9	128.33	123.33	201.95	204.78	1.27	1.29		
AT STREBLOW Dr INTERSECTION	1.9/2.02	6728.33		454.16		2.86			
FROM STREBLOW Dr TO MAGNOLIA Dr	2.02/2.5	136.67	126.67	701.76	773.90	4.42	4.88		
FROM MAGNOLIA Dr TO IMOLA Ave INTERSECTION	2.5/2.68	12233.11		825.74		5.21			
TOTAL		53473.33		9213.06		58.08		2.5	

ABBREVIATION:

LNMI - LANE MILE

COLD PLANE AC PAVEMENT

DESCRIPTION	AREA (SQYD)
COLD PLANE (0.1' Max)	53473.33
COLD PLANE (0.4' Max)	83
TOTAL	53556.33

HOT MIX ASPHALT (TYPE A)

DESCRIPTION	QUANTITY (TON)
COLD PLANE 0.4' (Max) AND HMA	22.4
HMA DIKE	24.19
TOTAL	46.59

ROADWAY QUANTITIES
HMA DIKE, & IMPORTED MATERIAL (SHOULDER BACKING)

LOCATION	PM	REMOVE AC DIKE (TYPE A)		PLACE HMA DIKE (TYPE A)			IMPORTED MATERIAL (SHOULDER BACKING)	
		SOUTH BOUND	NORTH BOUND	SOUTH BOUND	NORTH BOUND	HOT MIX ASPHALT (TYPE A)	SOUTH BOUND	NORTH BOUND
		LF				TON		
FROM Rte 29 TO NAPA VALLEY CORPORATE Wy	0.0/0.51		303		303	8.28	90.9	60.6
AT NAPA VALLEY CORPORATE Wy INTERSECTION	0.51/0.74						7.9	6.3
TO KAISER Rd	0.74/1.08						50.5	40.4
AT KAISER ROAD INTERSECTION	1.08/1.17							9.2
FROM KAISER Rd TO BASALT Rd UC	1.17/1.49						38	57
AT BASALT ROAD INTERSECTION	1.49/1.76						13.9	
FROM BASALT Rd TO STREBLOW Dr	1.76/1.9						33.3	33.3
AT STREBLOW Dr INTERSECTION	1.9/2.02							14.4
FROM STREBLOW Dr TO MAGNOLIA Dr	2.02/2.5	582		582		15.91	57	57
FROM MAGNOLIA Dr TO IMOLA Ave INTERSECTION	2.5/2.68						2.3	
TOTAL		885		885		24.19	572	

ROADWAY QUANTITIES
COLD PLANE (0.4' Max) AND HMA (TYPE A)

PM	DIRECTION	COLD PLANE AC PAVEMENT (0.4' Max)				HOT MIX ASPHALT (TYPE A)
		DEPTH	WIDTH	LENGTH	AREA	
		LF(N)			SQYD	TON
0.75	SB	0.4	6	30	20	5.4
1.14	SB	0.4	5	12	6.67	1.8
1.16	SB	0.4	5	12	6.67	1.8
1.25	SB	0.4	5	12	6.67	1.8
2.05	SB	0.4	6	12	8	2.2
2.56	NB	0.4	5	15	8.33	2.3
NAPA VALLEY CORPORATE WAY		0.4	12	20	26.67	7.2
TOTAL					83	22.4

[N] NOT A PAY ITEM, FOR INFORMATION ONLY

SUMMARY OF QUANTITIES

Q-1

REVISED BY	DATE REVISED
BN	12/28/09

CALCULATED-DESIGNED BY	CHECKED BY
BA NGUYEN	RONNIE CHUA

FUNCTIONAL SUPERVISOR: RONNIE CHUA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN

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Elaine Wong 2-17-10
REGISTERED ELECT ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

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

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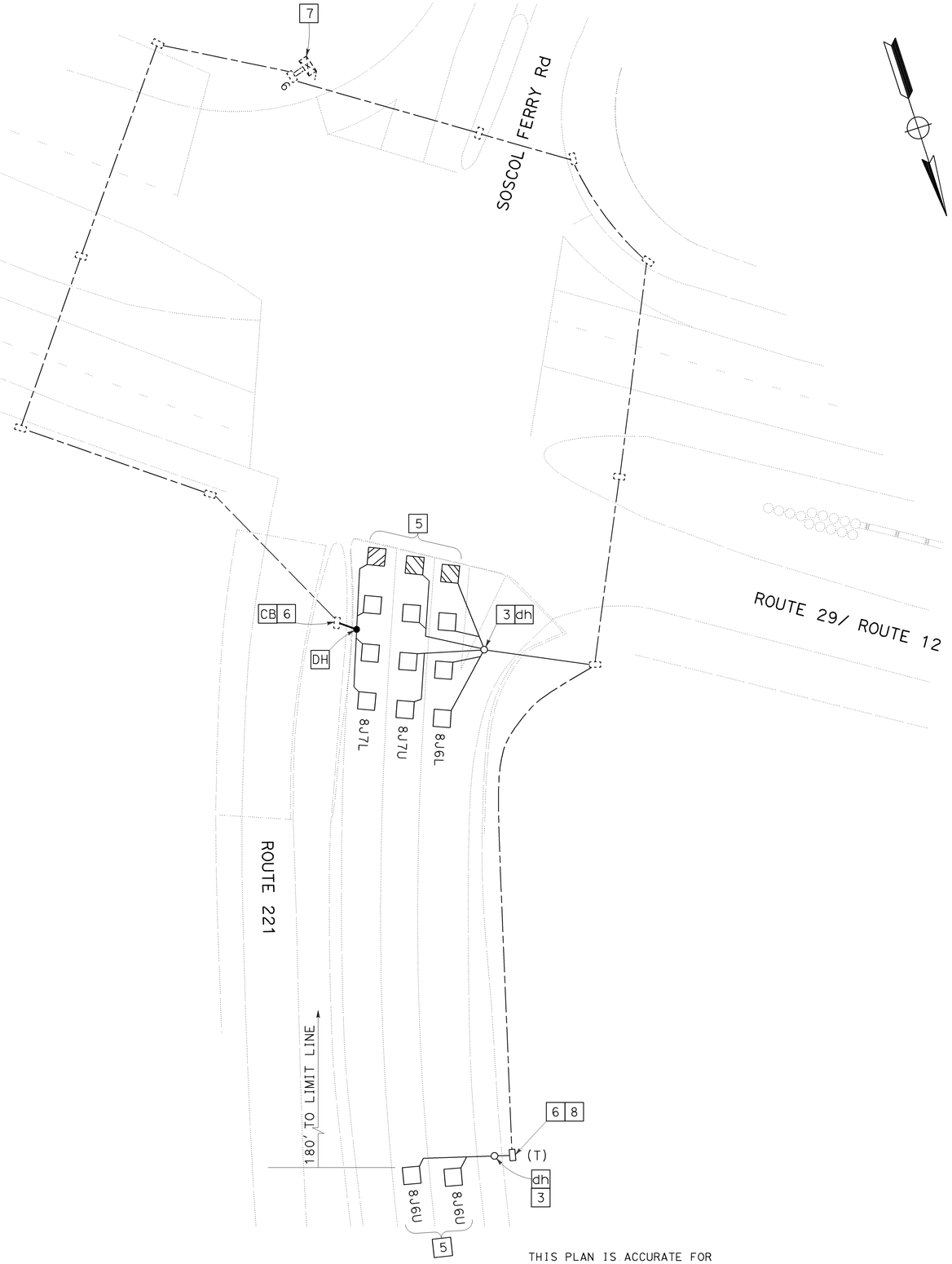

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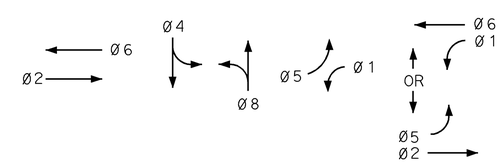

EXISTING TRAFFIC PHASE DIAGRAM

(NO CHANGE)

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE LOOP DETECTORS TO BE REPLACED PRIOR TO REPAVING.
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 TWO REPORTS PER LOCATION ON THE STATUS OF EACH DETECTOR LOOP REPLACEMENT SHOWING CONTINUITY AND INSULATION RESISTANCE READINGS. 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.

PROJECT NOTES

1. EXISTING DETECTOR HANDHOLE TO REMAIN IN PLACE.
2. EXISTING CONDUIT WITH CONDUCTORS OR/AND CABLES TO REMAIN.
3. ADJUST AND RAISE AFFECTED EXISTING HANDHOLES, SEE ES-5D.
4. EXISTING PULL BOX WITH CONDUCTORS AND/OR CABLES TO REMAIN.
5. INSTALL 6 FT X 6 FT, 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.
6. REMOVE EXISTING DETECTOR LOOP CONDUCTORS AND SPLICE NEW DETECTOR LOOP CONDUCTORS TO EXISTING dlc CABLES RESPECTIVELY.
7. EXISTING CONTROLLER CABINET TO REMAIN.
8. REPLACE EXISTING PULL BOX WITH NEW PULL BOX.
9. EXISTING CONDUIT WITH EXISTING CABLES AND CODUCTORS TO REMAIN. REMOVE EXISTING AND INSTALL NEW DLC AS SHOWN ON THE PLANS THROUGH EXISTING CONDUITS TO CONTROLLER CABINET.
10. INSTALL 1½'' C, 2 DLC.

TRAFFIC SIGNAL
(MODIFY)

SCALE: 1'' = 20'

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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ELECTRICAL

FUNCTIONAL SUPERVISOR: LAI-HONG CHIU
CALCULATED-DESIGNED BY: ALEX KHOO
CHECKED BY: ELAINE T. WONG
REVISED BY: AK
DATE REVISED: 2/11/10

LAST REVISION 02-11-10
DATE PLOTTED => 11-MAR-2010
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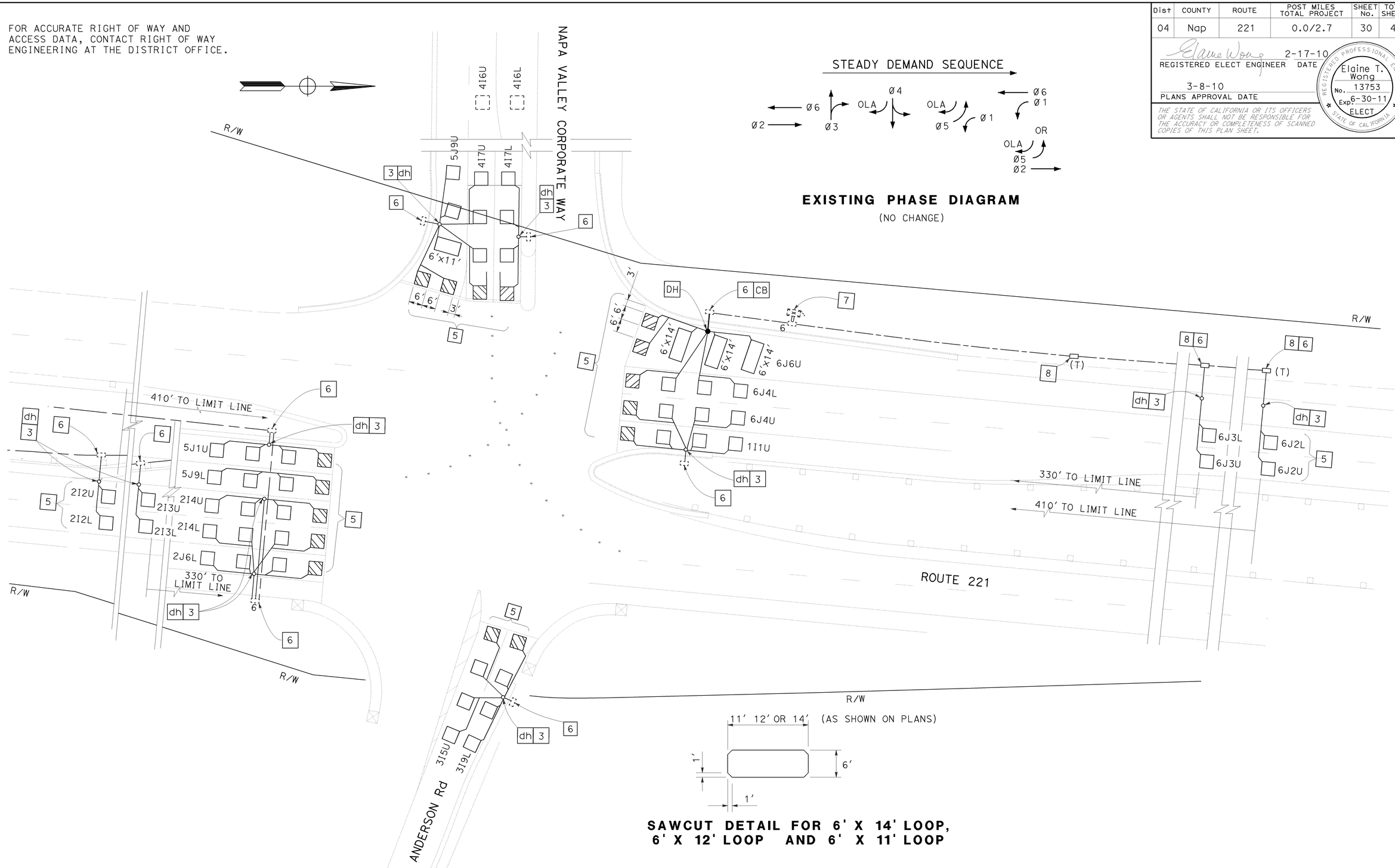

EXISTING PHASE DIAGRAM
(NO CHANGE)

**SAWCUT DETAIL FOR 6' X 14' LOOP,
6' X 12' LOOP AND 6' X 11' LOOP**

THIS PLAN IS ACCURATE FOR
ELECTRICAL WORK ONLY

FOR NOTES, SEE SHEET E-1

TRAFFIC SIGNAL
(MODIFY)

SCALE: 1'' = 20'

E-2

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Elaine Wong 2-17-10
REGISTERED ELECT ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

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

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CALCULATED-DESIGNED BY: ALEX KHOO
CHECKED BY: ELAINE T. WONG
REVISED BY: AK
DATE REVISED: 2/11/10
FUNCTIONAL SUPERVISOR: LAI-HONG CHIU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
ELECTRICAL

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Elaine Wong 2-17-10
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3-8-10
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REGISTERED PROFESSIONAL ENGINEER
Elaine T. Wong
No. 13753
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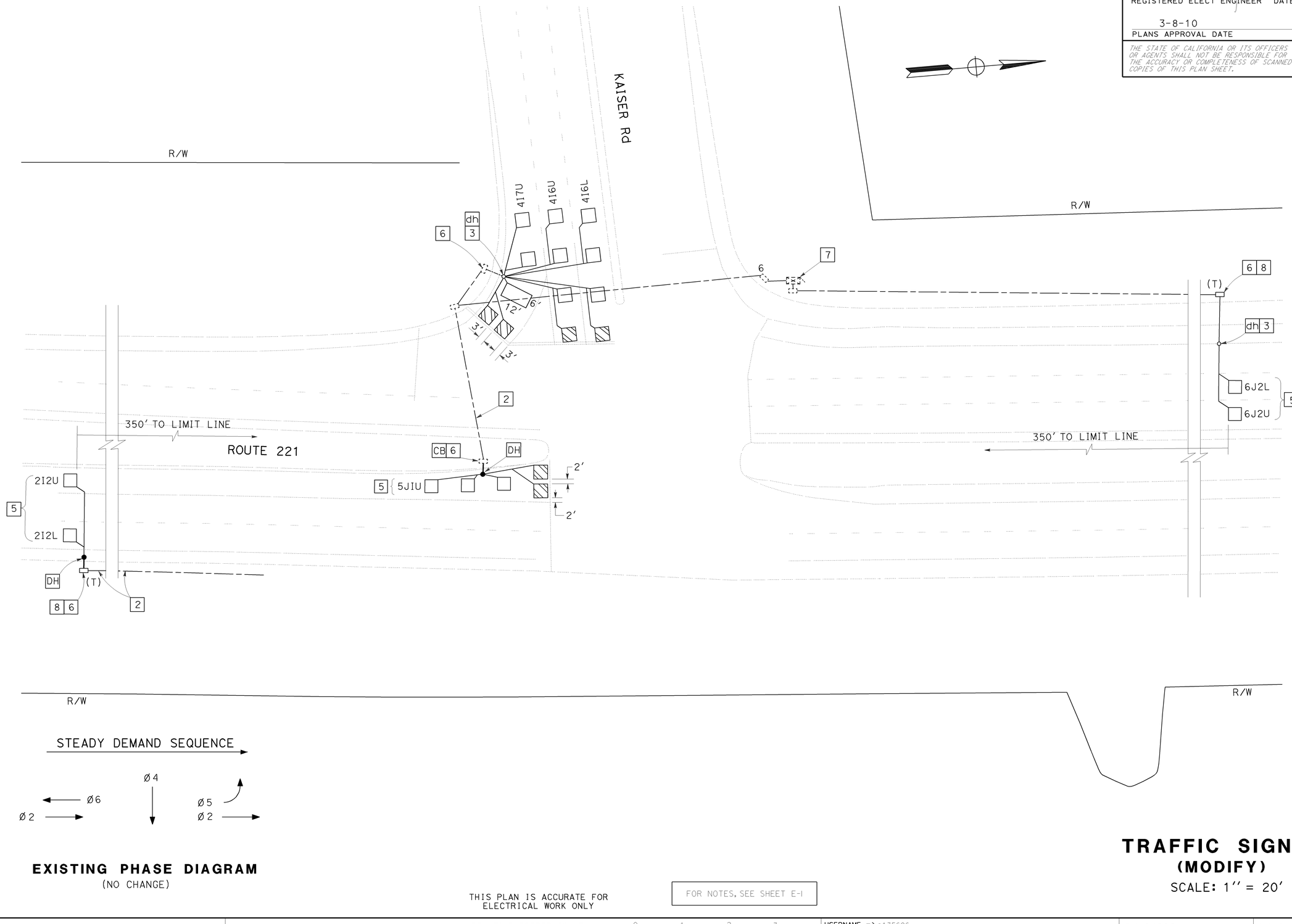

STEADY DEMAND SEQUENCE

Ø4
Ø6
Ø2
Ø5
Ø2

EXISTING PHASE DIAGRAM
(NO CHANGE)

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

FOR NOTES, SEE SHEET E-1

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

E-3

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALEX KHOO	ELAINE T. WONG	AK	2/16/10

FUNCTIONAL SUPERVISOR: LAI-HONG CHIU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL
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LAST REVISION | DATE PLOTTED => 11-MAR-2010
02-16-10 | TIME PLOTTED => 15:34

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CU 04609

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Elaine Wong 2-17-10
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3-8-10
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REGISTERED PROFESSIONAL ENGINEER
Elaine T. Wong
No. 13753
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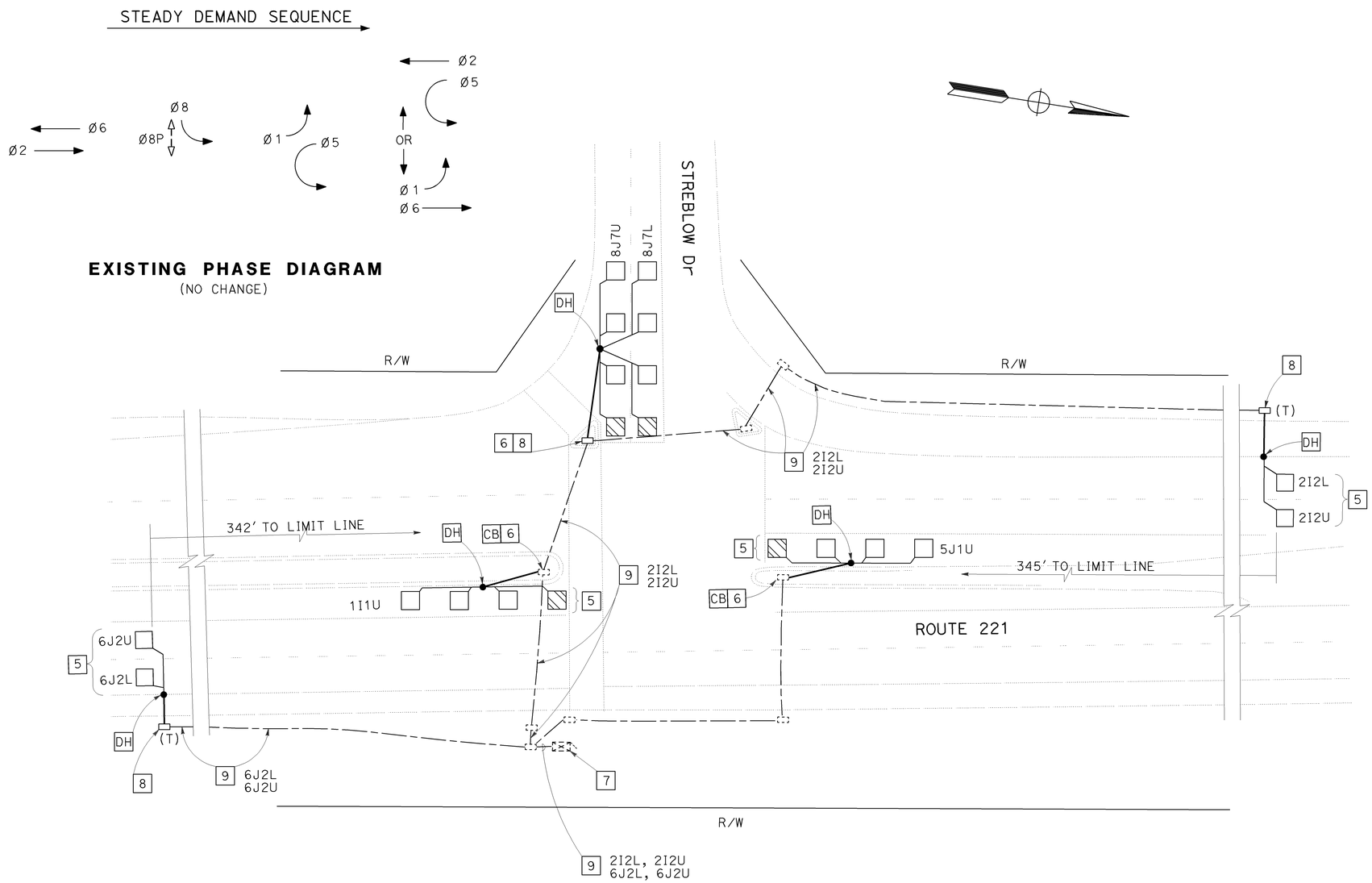

EXISTING PHASE DIAGRAM
(NO CHANGE)

TRAFFIC SIGNAL
(MODIFY)

SCALE: 1'' = 20'

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

FOR NOTES, SEE SHEET E-1

E-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL

FUNCTIONAL SUPERVISOR: LAI-HONG CHIU
CALCULATED-DESIGNED BY: ALEX KHOO
CHECKED BY: ELAINE T. WONG
REVISED BY: AK
DATE REVISED: 2/16/10

LAST REVISION 02-16-10
DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:34

FOR ACCURATE RIGHT OF WAY AND
ACCESS DATA, CONTACT RIGHT OF WAY
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Elaine Wong 2-17-10
REGISTERED ELECT ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

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

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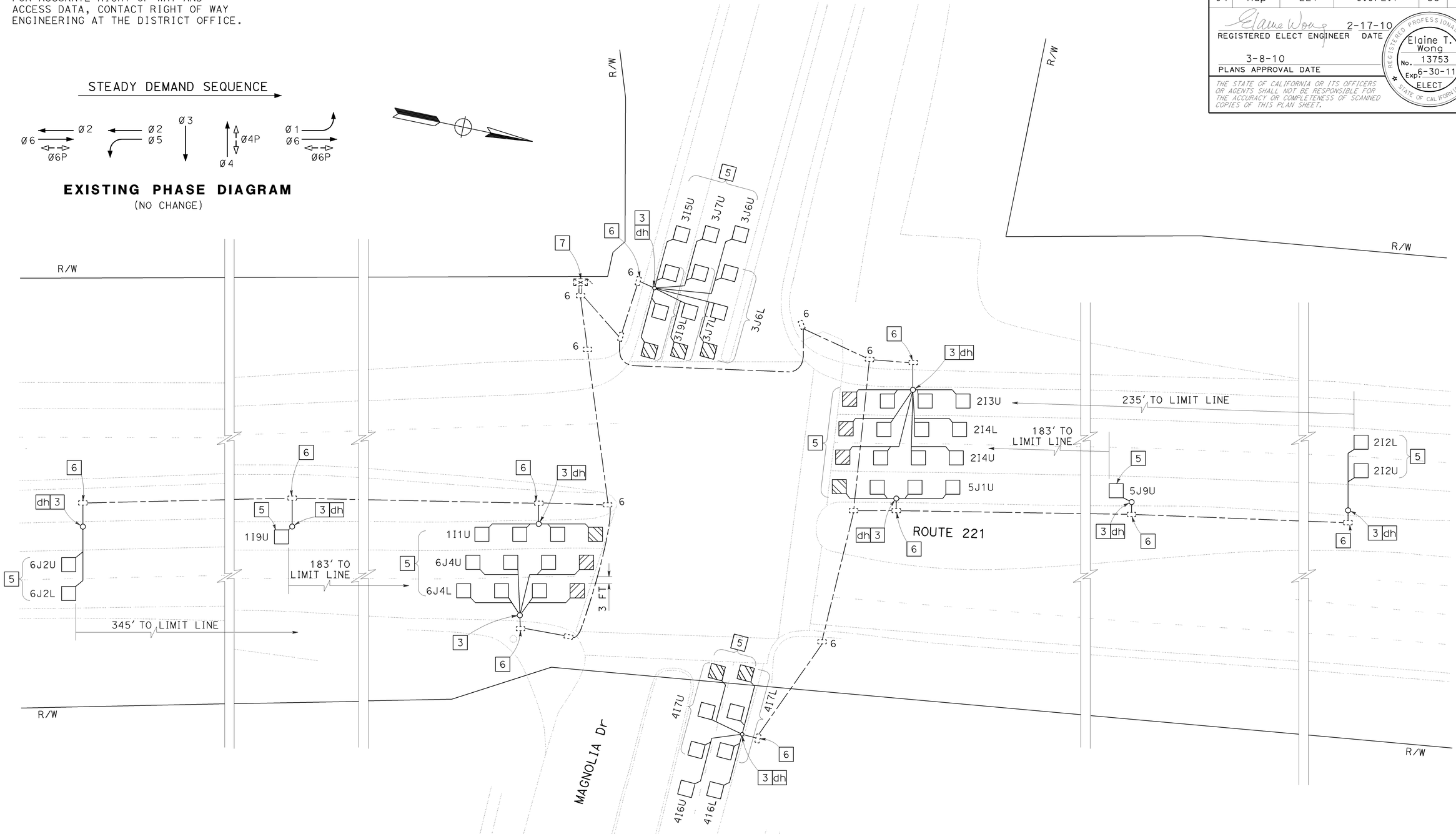
STEADY DEMAND SEQUENCE

EXISTING PHASE DIAGRAM
(NO CHANGE)



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

FOR NOTES, SEE SHEET E-1

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

E-5

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALEX KHOO	ELAINE T. WONG	AK	2/16/10

FUNCTIONAL SUPERVISOR: LAI-HONG CHIU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION DATE PLOTTED => 11-MAR-2010
02-16-10 TIME PLOTTED => 15:34

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ua005.dgn

CU 04609

EA 1E9901

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Nap	221	0.0/2.7	34	44

Elaine Wong 2-17-10
REGISTERED ELECT ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

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

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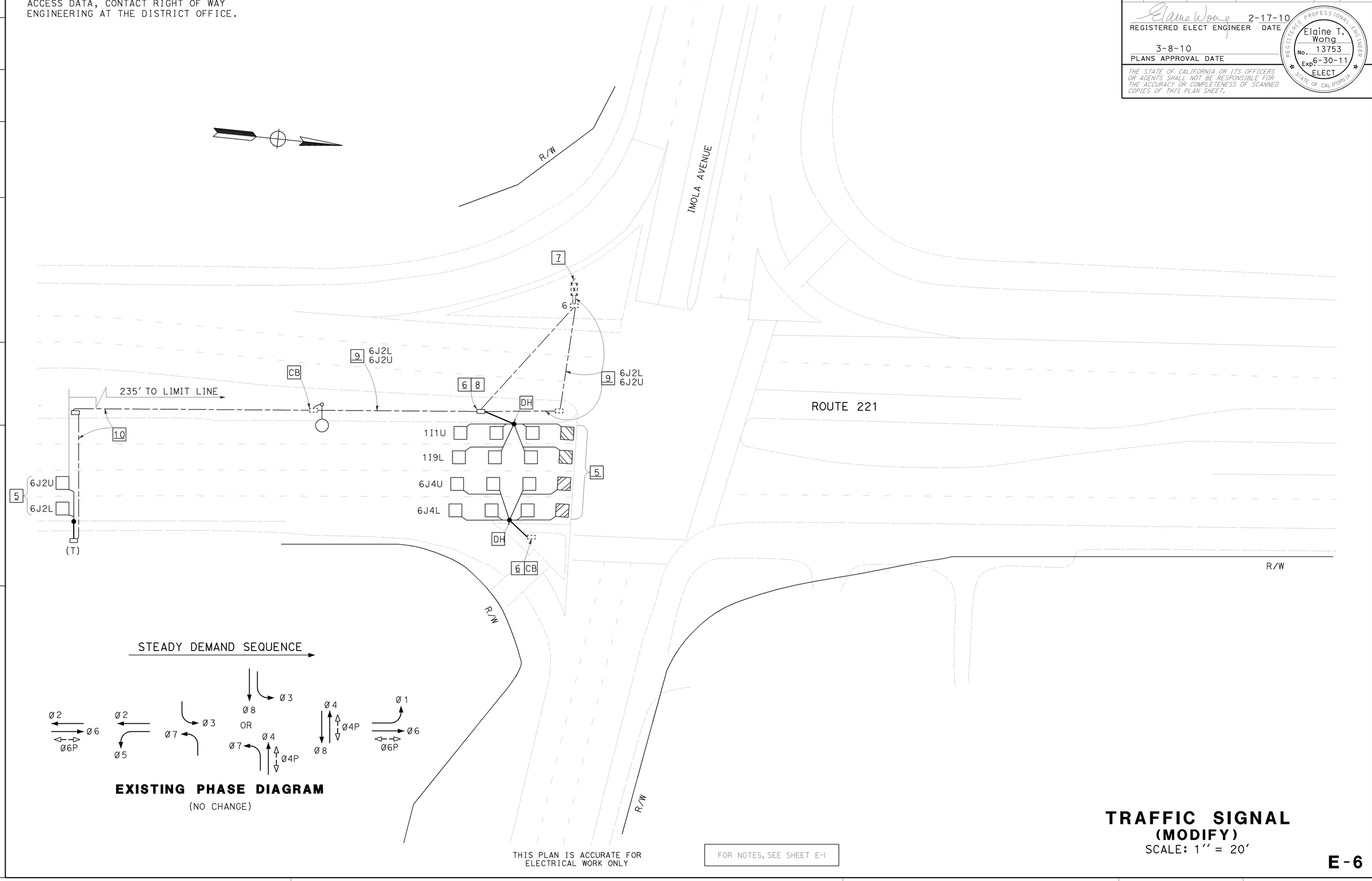

EXISTING PHASE DIAGRAM
(NO CHANGE)

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

FOR NOTES, SEE SHEET E-1

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

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL
Caltrans

CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
ALEX KHOO	ELAINE T. WONG	LAI-HONG CHIU

REVISED BY	DATE REVISED
AK	2/17/10

LAST REVISION DATE PLOTTED => 11-MAR-2010
TIME PLOTTED => 15:34
02-17-10

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135696
DGN FILE => 41e990ua006.dgn

CU 04609

EA 1E9901

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	35	44

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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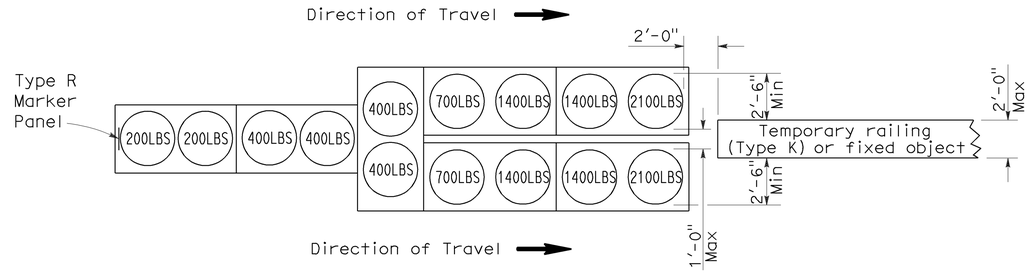
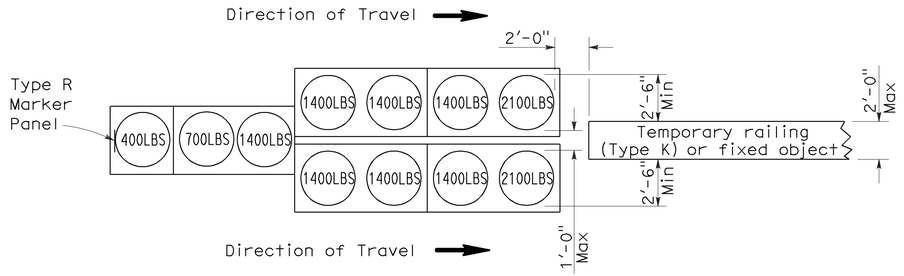
To accompany plans dated 3-8-10



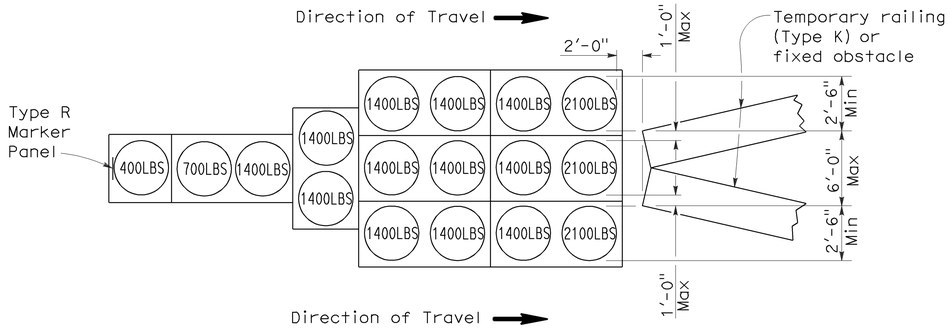
ARRAY 'TU14'

Approach speed 45 mph or more



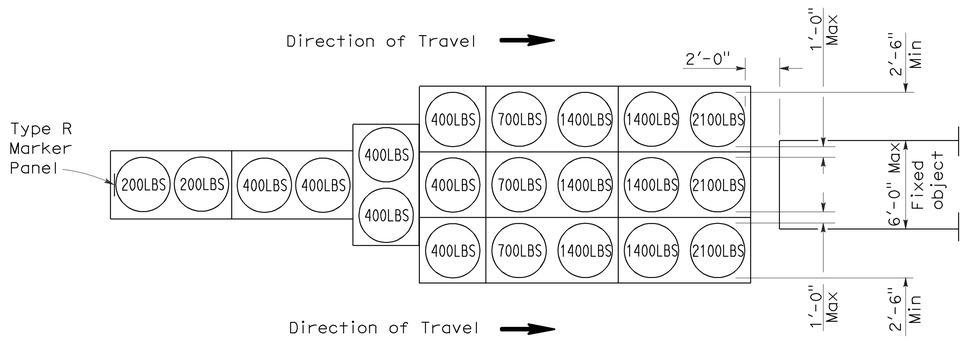
ARRAY 'TU11'

Approach speed less than 45 mph



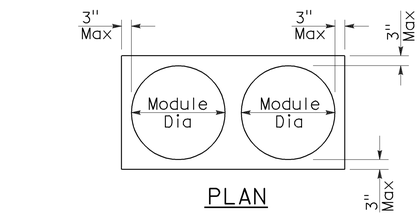
ARRAY 'TU17'

Approach speed less than 45 mph

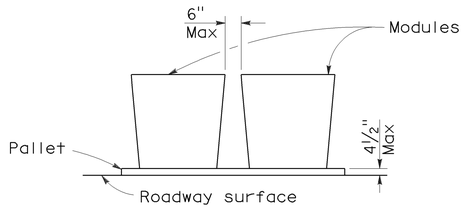


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	36	44

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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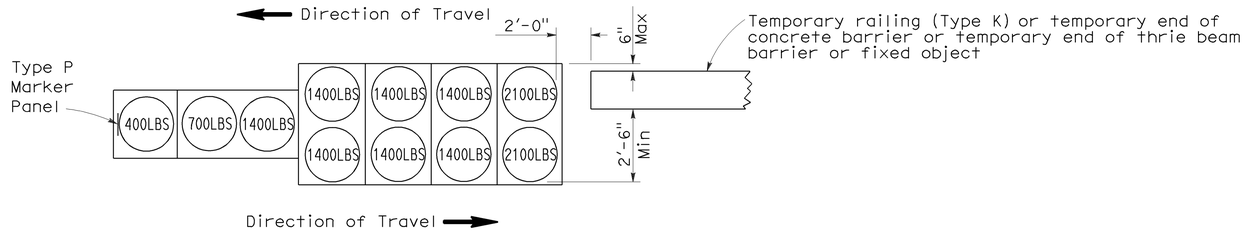
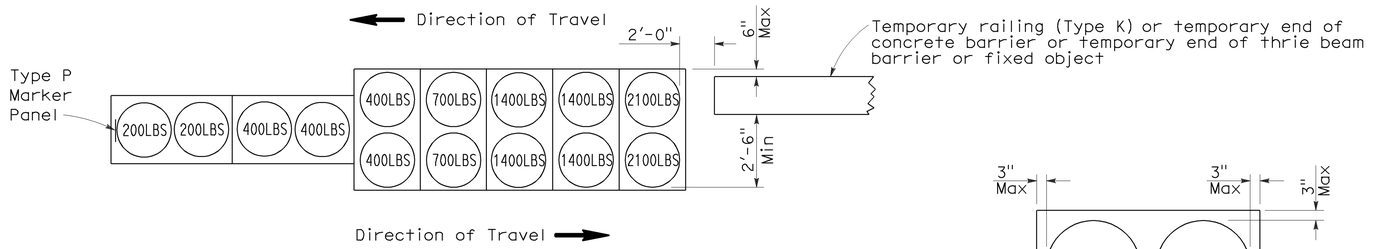
To accompany plans dated 3-8-10



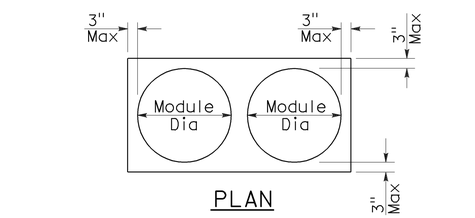
ARRAY 'TB11'

Approach speed less than 45 mph

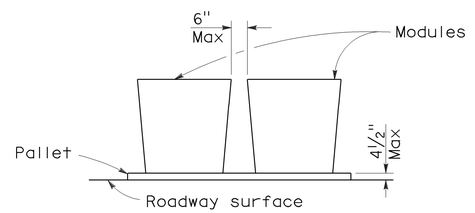


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	37	44

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Registered Professional Engineer — Randell D. Hiatt — No. C50200 — Exp. 6-30-09 — CIVIL — State of California

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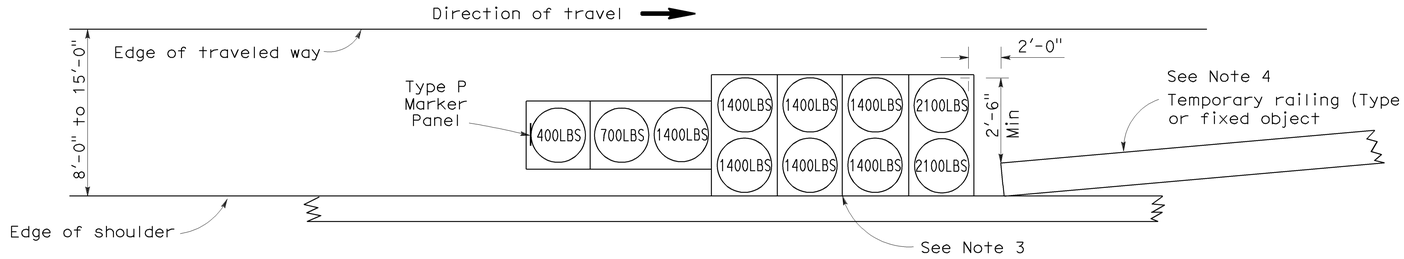
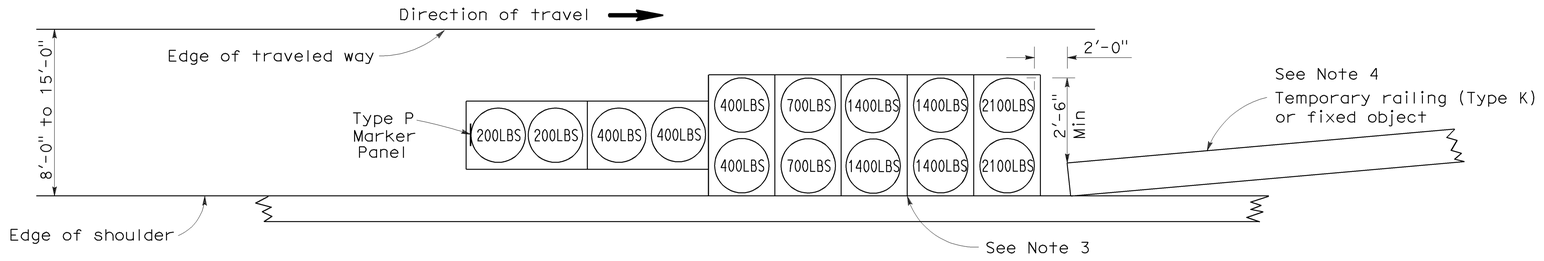
To accompany plans dated 3-8-10



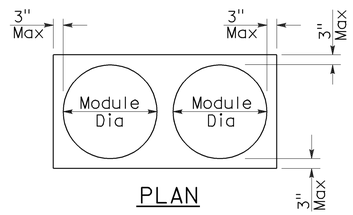
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

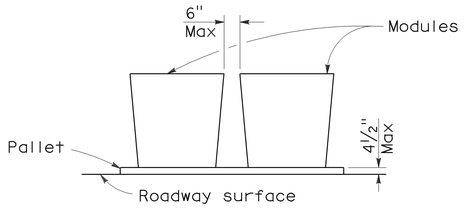


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	38	44

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

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

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 3-8-10

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. 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.
2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
3. 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,
MAS-4B	mas-4B	side attachment - 4 signal section
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces,
MAS-5B	mas-5B	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

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	39	44

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 3-8-10

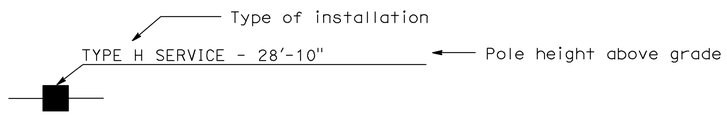
CONDUIT

PROPOSED	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 (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

PROPOSED	EXISTING	
—OH—	—oh—	Overhead lines
U	U	Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
III		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
T	t	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

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
PV	PV	Modifications of basic symbols: "L" Indicates all non-arrow sections louvered "LG" Indicates louvered 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
R	Y	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:

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

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	40	44

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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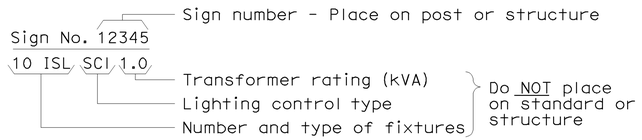
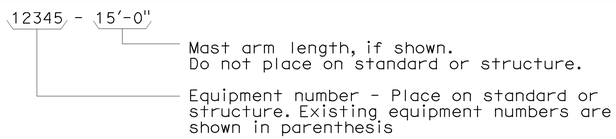
To accompany plans dated 3-8-10

EQUIPMENT IDENTIFICATION

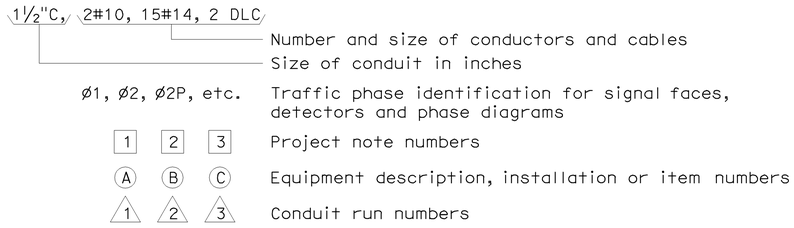
ILLUMINATED SIGN IDENTIFICATION NUMBER:



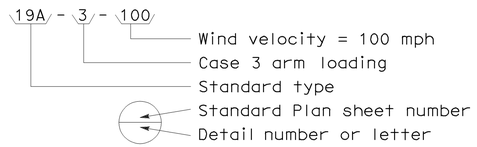
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:

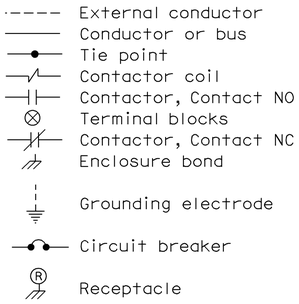


SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)



PULL BOXES

PROPOSED EXISTING

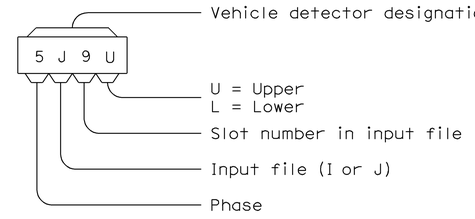
Pull box-No. 5 unless otherwise indicated or noted.

Pull box-Additional designations or descriptions

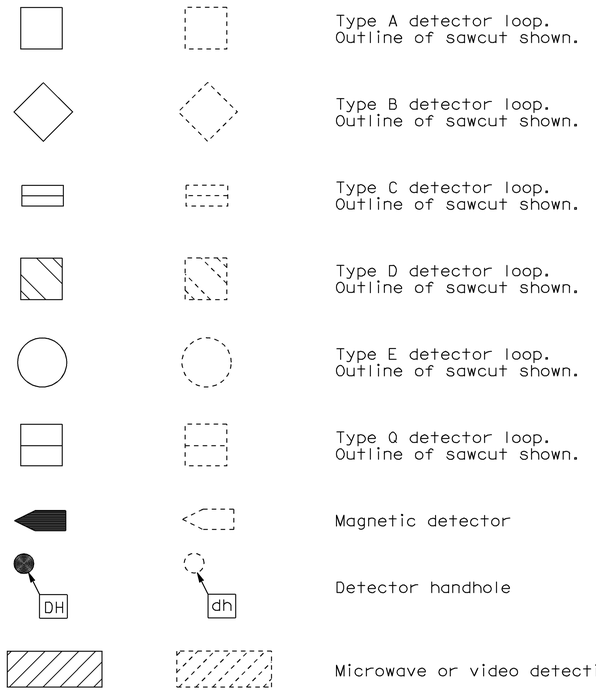
- (C) = Communications pull box
- (E) = Pull box with extension
- (S) = Sprinkler control pull box
- (21) = Anchor bolts and conduit for future installation of Type 21 Standard
- (T) = Traffic pull box

- 3 = No. 3½ pull box
- 5 = No. 5 pull box
- 6 = No. 6 pull box
- 7 = No. 7 (Ceiling pull box)
- 8 = No. 8 (Pendant soffit pull box)
- 9 = No. 9 pull box
- 9A = No. 9A pull box

VEHICLE DETECTORS

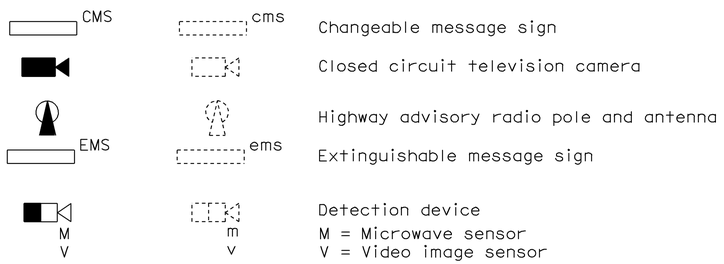


PROPOSED EXISTING



MISCELLANEOUS EQUIPMENT

PROPOSED EXISTING



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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	41	44

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

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

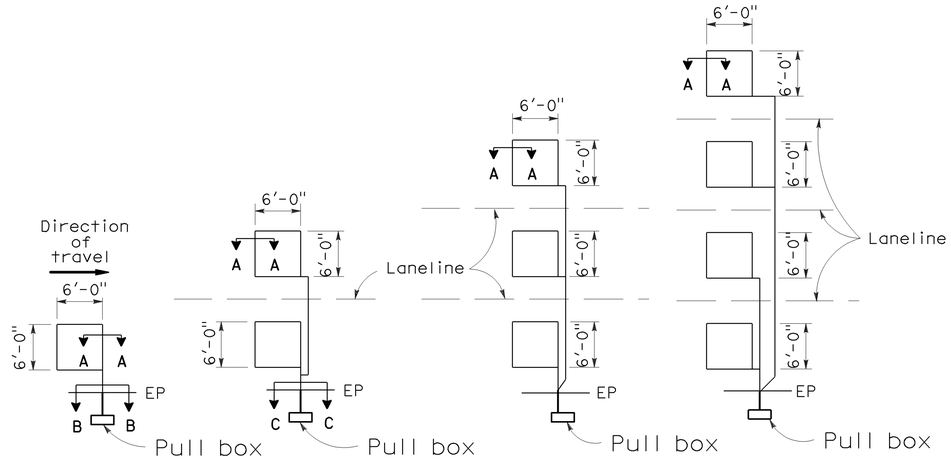
October 5, 2007
PLANS APPROVAL DATE

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 3-8-10

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.

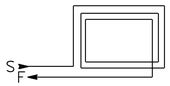


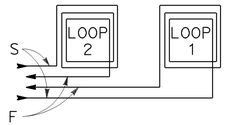
TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

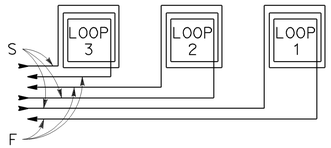
SAWCUT DETAILS

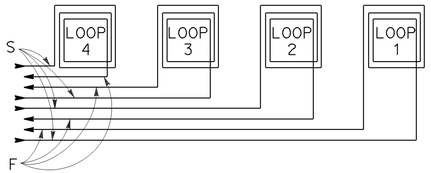
(Type A loop detector configurations illustrated)

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)



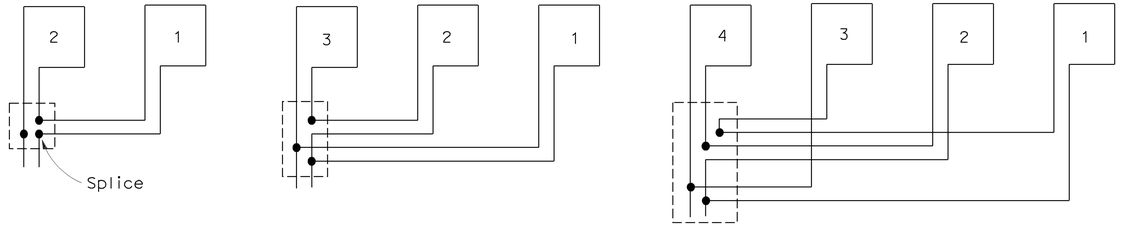






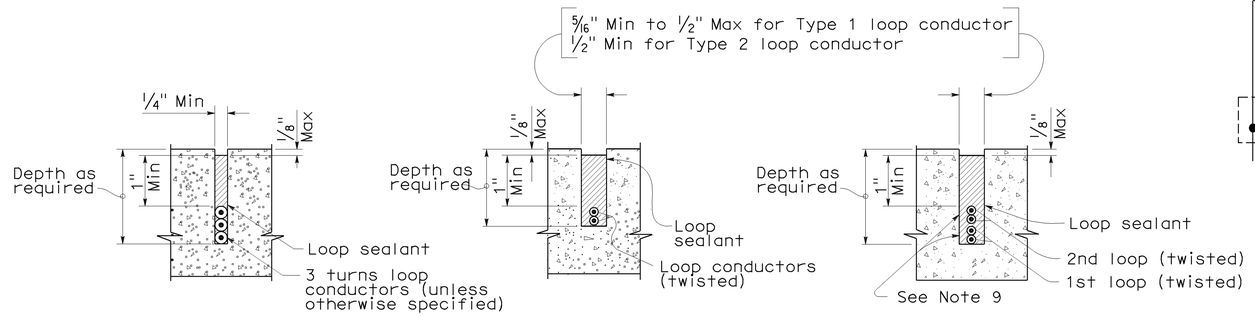
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A | SECTION B-B | SECTION C-C

SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

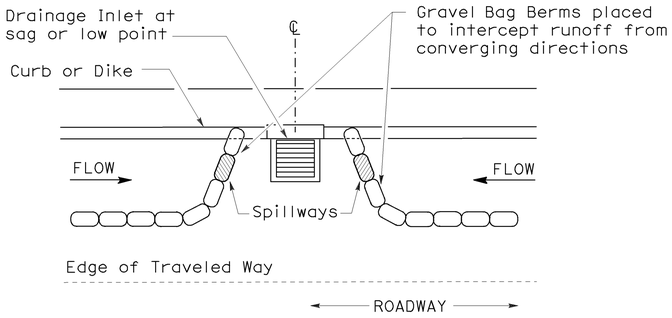
NO SCALE

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

8-17-07



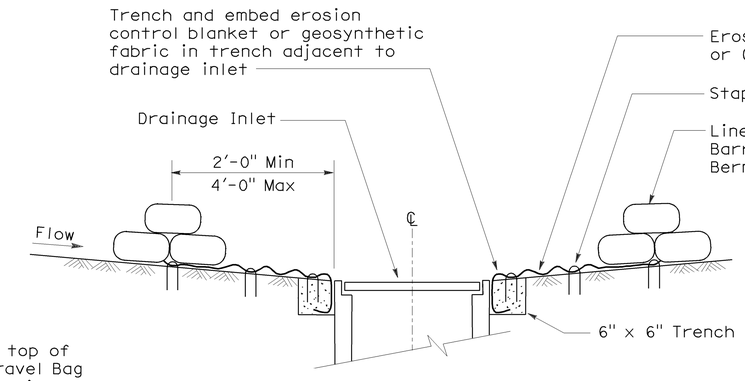
PLAN

CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)

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



SECTION A-A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	42	44

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3895 — Registration Date 11-04-08 — Renewal Date 08-11-08 — Date — STATE OF CALIFORNIA

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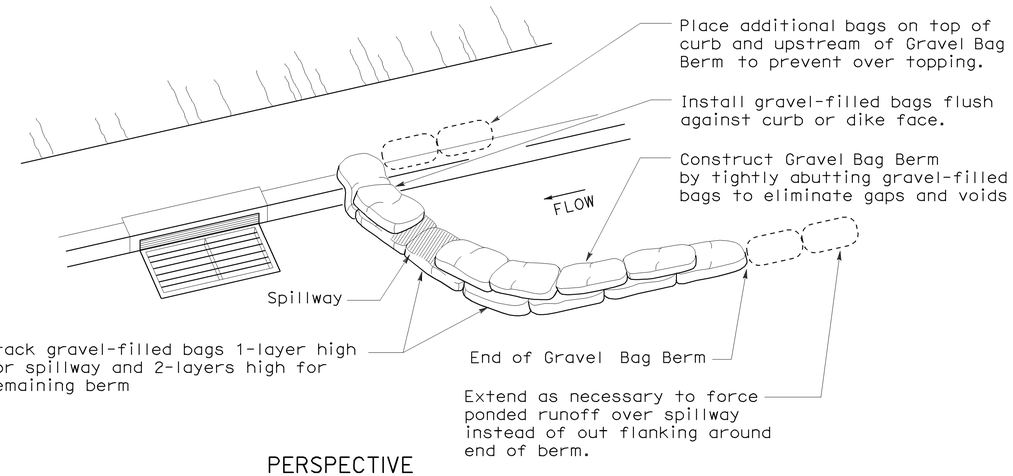
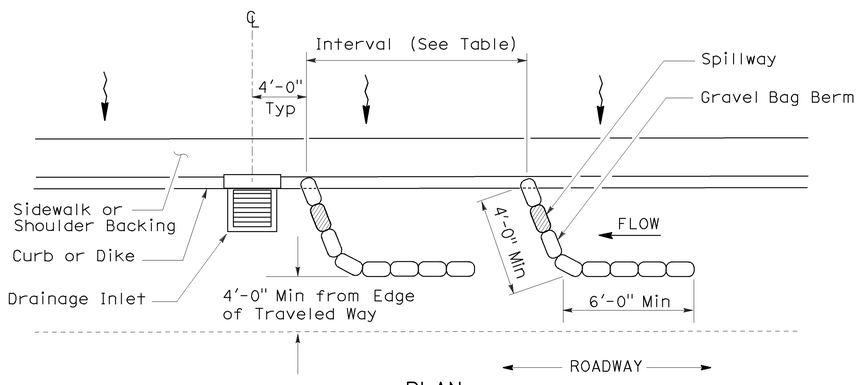
To accompany plans dated 3-8-10

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.

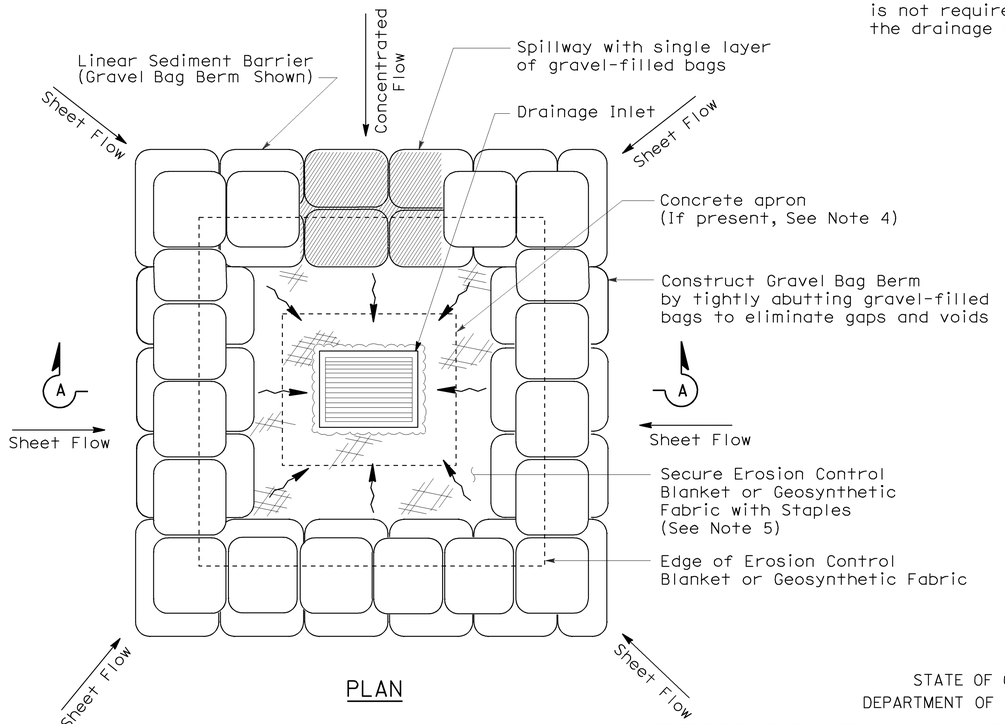


PERSPECTIVE



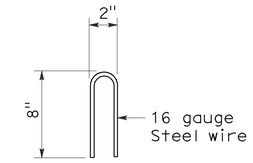
PLAN

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



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

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.

NEW STANDARD PLAN NSP T62

2006 NEW STANDARD PLAN NSP T62

7-11-08

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	221	0.0/2.7	43	44

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT Robert B. Schott 3825 Registration Expires 11-04-08 Renewal Date 08-11-08 Date STATE OF CALIFORNIA

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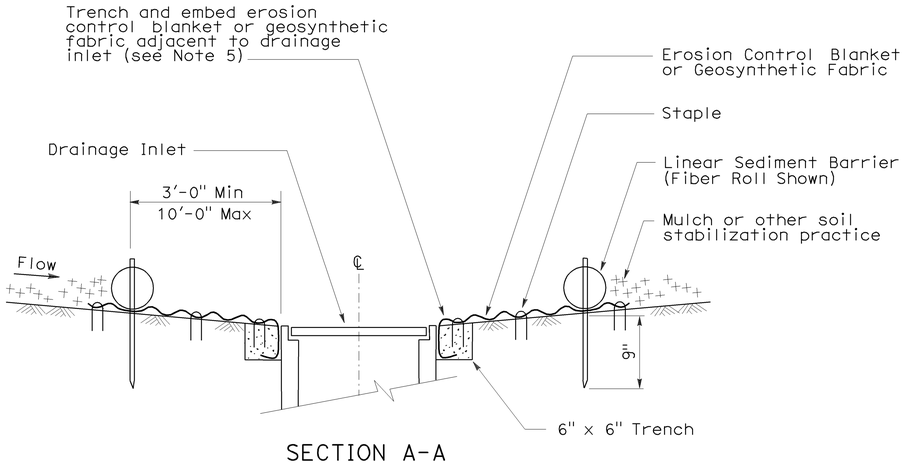
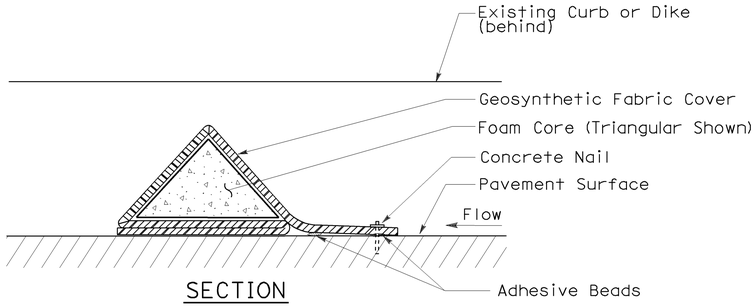
To accompany plans dated 3-8-10



SECTION A-A

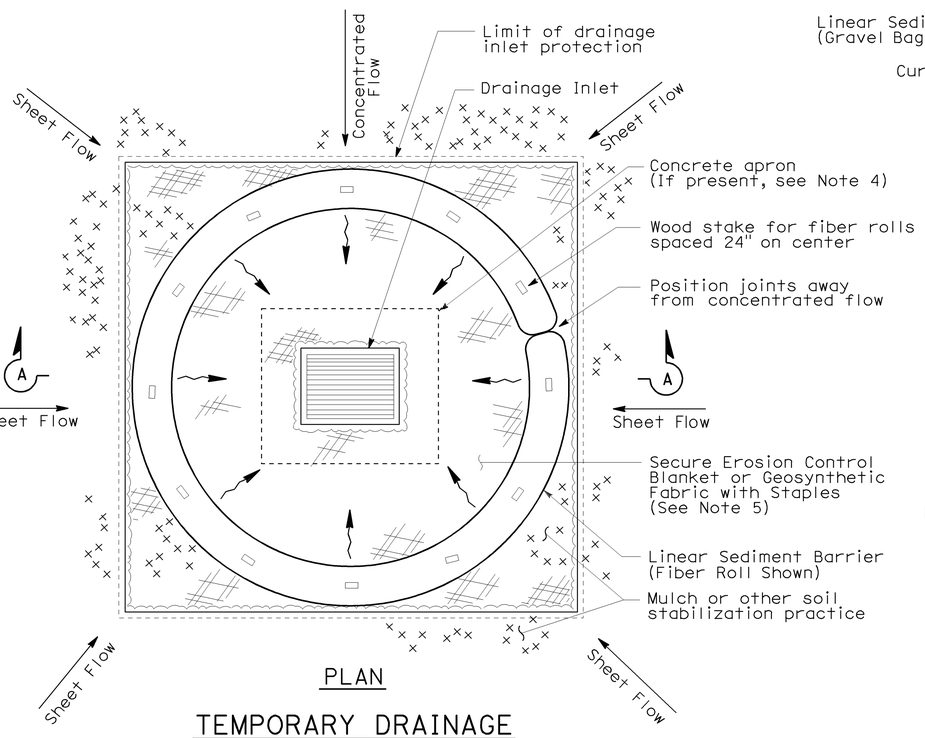


SECTION

FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

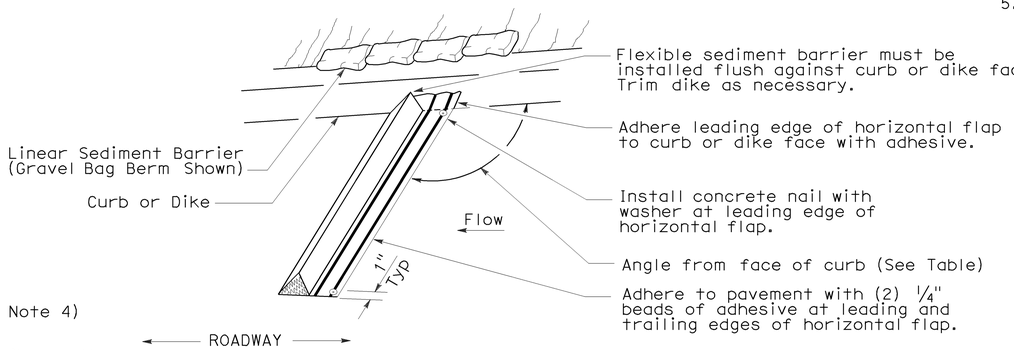
NOTES:

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.

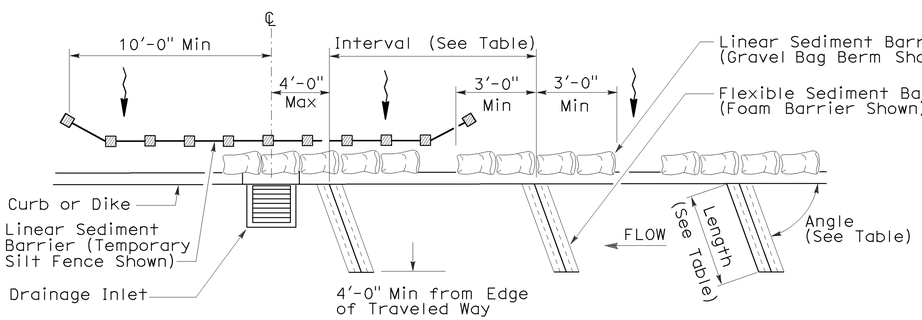


PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)

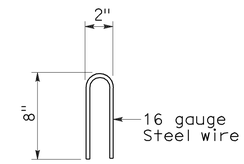


PERSPECTIVE



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.

NEW STANDARD PLAN NSP T63

2006 NEW STANDARD PLAN NSP T63

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Nap	221	0.0/2.7	44	44

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3895 — Registration Date 11-04-08 — Renewal Date 08-11-08 — Date — STATE OF CALIFORNIA

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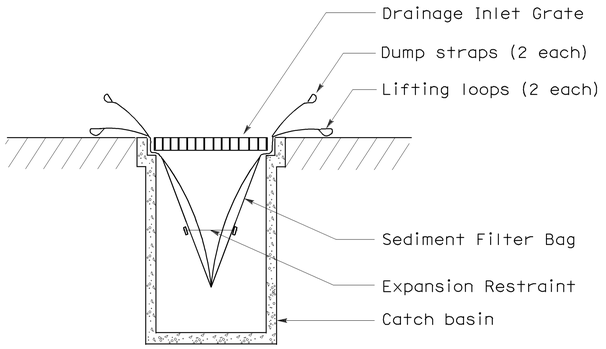
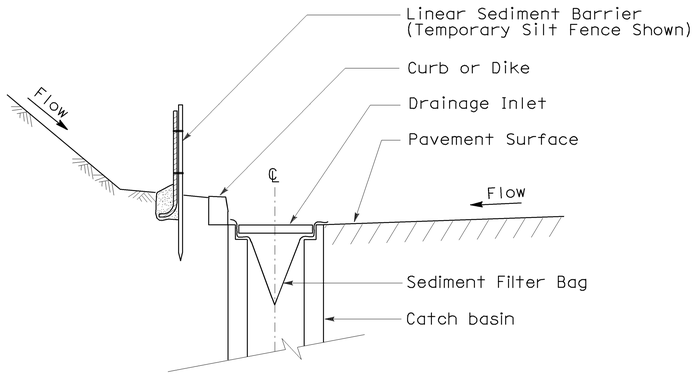
To accompany plans dated 3-8-10

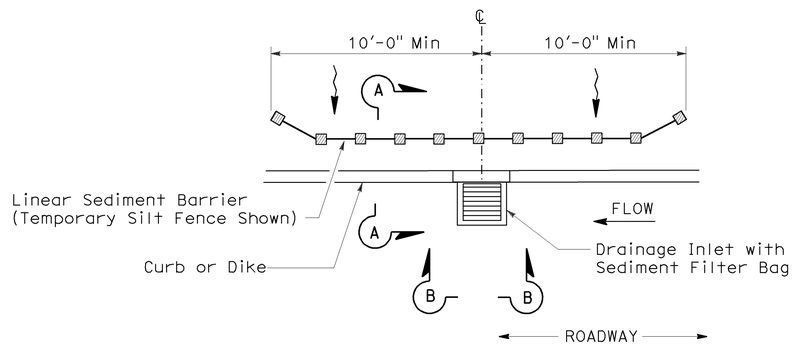


SECTION B-B

SEDIMENT FILTER BAG DETAIL

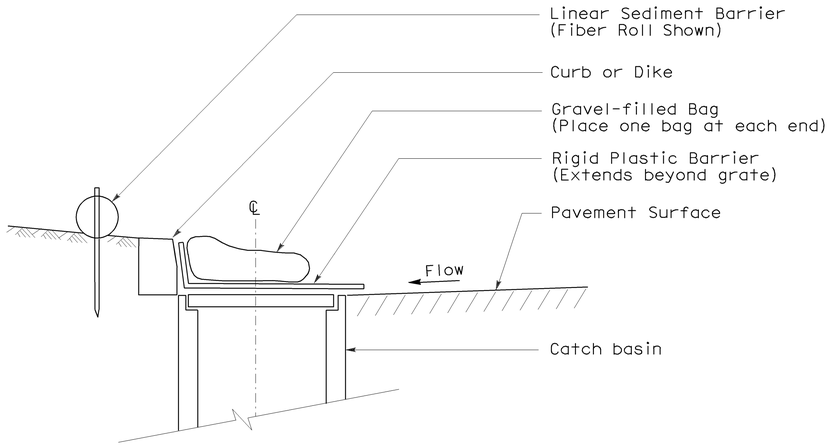


SECTION A-A



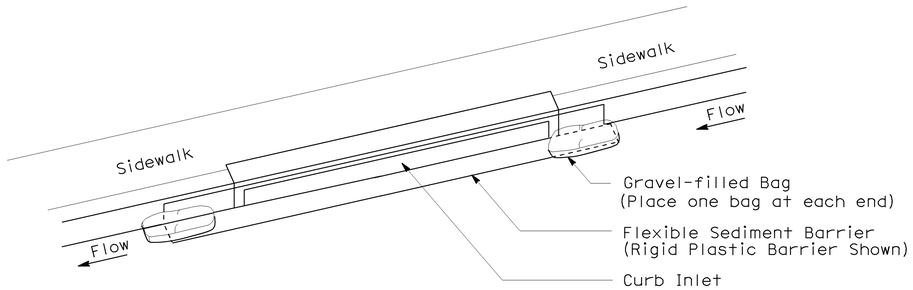
PLAN

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



SECTION

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



PERSPECTIVE

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

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

7-11-08