ACIM-8801-(060)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	1	36

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-10	LAYOUTS
11-18	CONSTRUCTION AREA SIGNS
19-23	PAVEMENT DELINEATION PLAN, DETAILS AND QUANTITIES
24	SUMMARY OF QUANTITIES
25-36	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

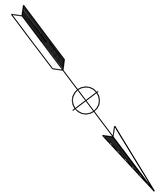
DEPARTMENT OF TRANSPORTATION

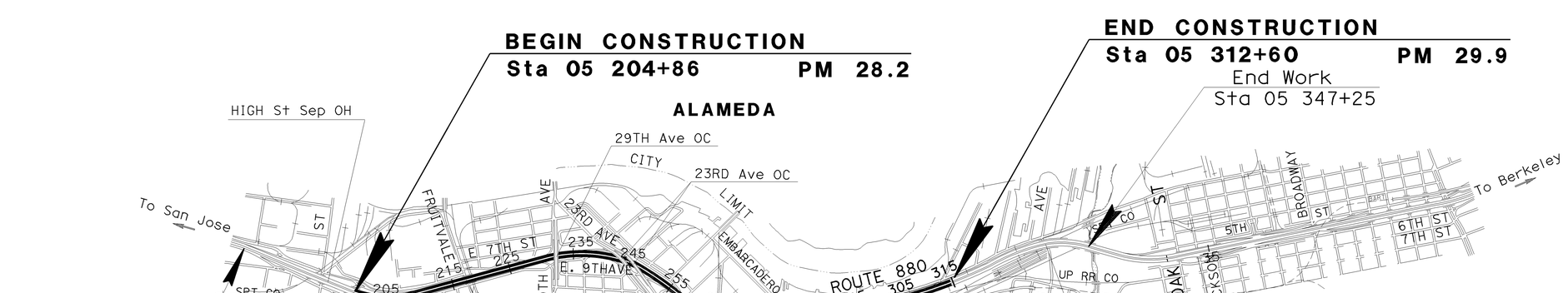
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN ALAMEDA COUNTY
IN OAKLAND
FROM 0.5 MILE NORTH OF THE HIGH STREET SEPARATION OVERHEAD TO 0.5 MILE SOUTH OF THE FIFTH AVENUE OVERHEAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006





NO SCALE

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

PROJECT MANAGER: STANLEY GEE

DESIGN ENGINEER: ERIC K. WONG

2-25-2010
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

March 8, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp. 9-30-10
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.

LAST REVISION 03-04-10
DATE PLOTTED => 21-JUN-2010
TIME PLOTTED => 10:57

CONTRACT No. 04-1A6814

BORDER LAST REVISED 8/1/2008 | CALTRANS WEB SITE IS: HTTP//WWW.DOT.CA.GOV/ | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s126853 DGN FILE => 41a681ab001.dgn | CU 04244 | EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	2	36

REGISTERED CIVIL ENGINEER 2-25-10 DATE

PLANS APPROVAL DATE 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Eric K. Wong — No. 70259 — Exp 9-30-10 — CIVIL — STATE OF CALIFORNIA

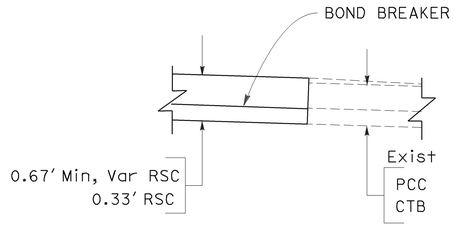
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

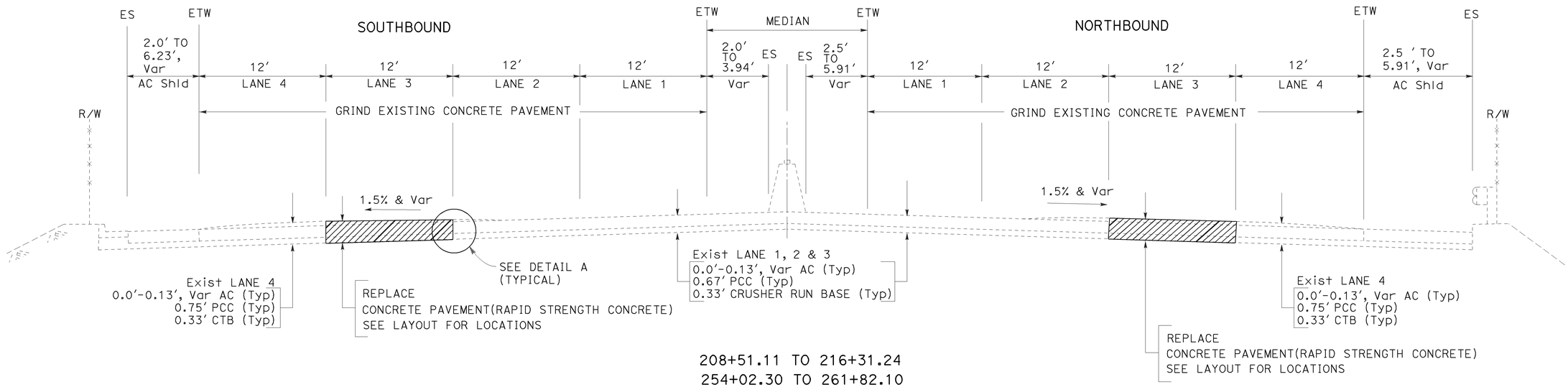
1. DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN.
3. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
4. EXACT LOCATIONS OF REPLACE CONCRETE PAVEMENT SHALL BE DETERMINED BY THE ENGINEER.
5. DO NOT REPLACE CONCRETE PAVEMENT ON STRUCTURES, STRUCTURE APPROACH SLABS AND ELECTRICAL LOOP DETECTORS.
6. DO NOT GRIND EXISTING CONCRETE PAVEMENT ON STRUCTURES, STRUCTURE APPROACH SLABS AND ELECTRICAL LOOP DETECTORS.
7. FOR REPLACE CONCRETE PAVEMENT, REGARDLESS OF ITS LENGTH, SEE REVISED Std PLAN RSP P1. OMIT TIE BARS AND LONGITUDINAL ISOLATION JOINTS. TRANSVERSE JOINTS TO MATCH SKEW OF EXISTING JOINTS.

ABBREVIATION:

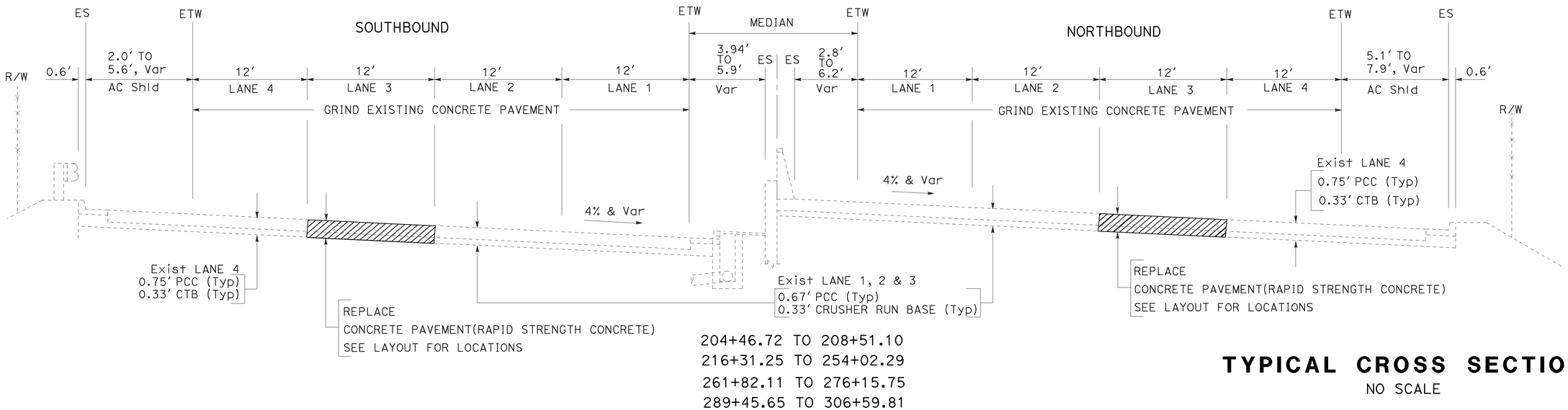
RSC: RAPID STRENGTH CONCRETE



DETAIL A



208+51.11 TO 216+31.24
254+02.30 TO 261+82.10
276+15.76 TO 289+45.64



204+46.72 TO 208+51.10
216+31.25 TO 254+02.29
261+82.11 TO 276+15.75
289+45.65 TO 306+59.81

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
BHUPENDRA SHAH | ERIC K. WONG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: EDMUND W. CHOY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION | DATE PLOTTED => 09-MAR-2010 | TIME PLOTTED => 09:36
03-04-10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	3	36

2-25-10
REGISTERED CIVIL ENGINEER DATE

Eric K. Wong
No. 70259
Exp 9-30-10
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-8-10
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:

REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)

GRIND EXISTING CONCRETE PAVEMENT

NOTES:

1. EXACT LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
2. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LAYOUT
SCALE: 1'' = 50'

L-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: THANH DOAN
CHECKED BY: ERIC K. WONG
FUNCTIONAL SUPERVISOR: EDMUND W. CHOY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 03-02-10 | DATE PLOTTED => 09-MAR-2010 | TIME PLOTTED => 09:38

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681ea001.dgn

CU 04244

EA 1A6811

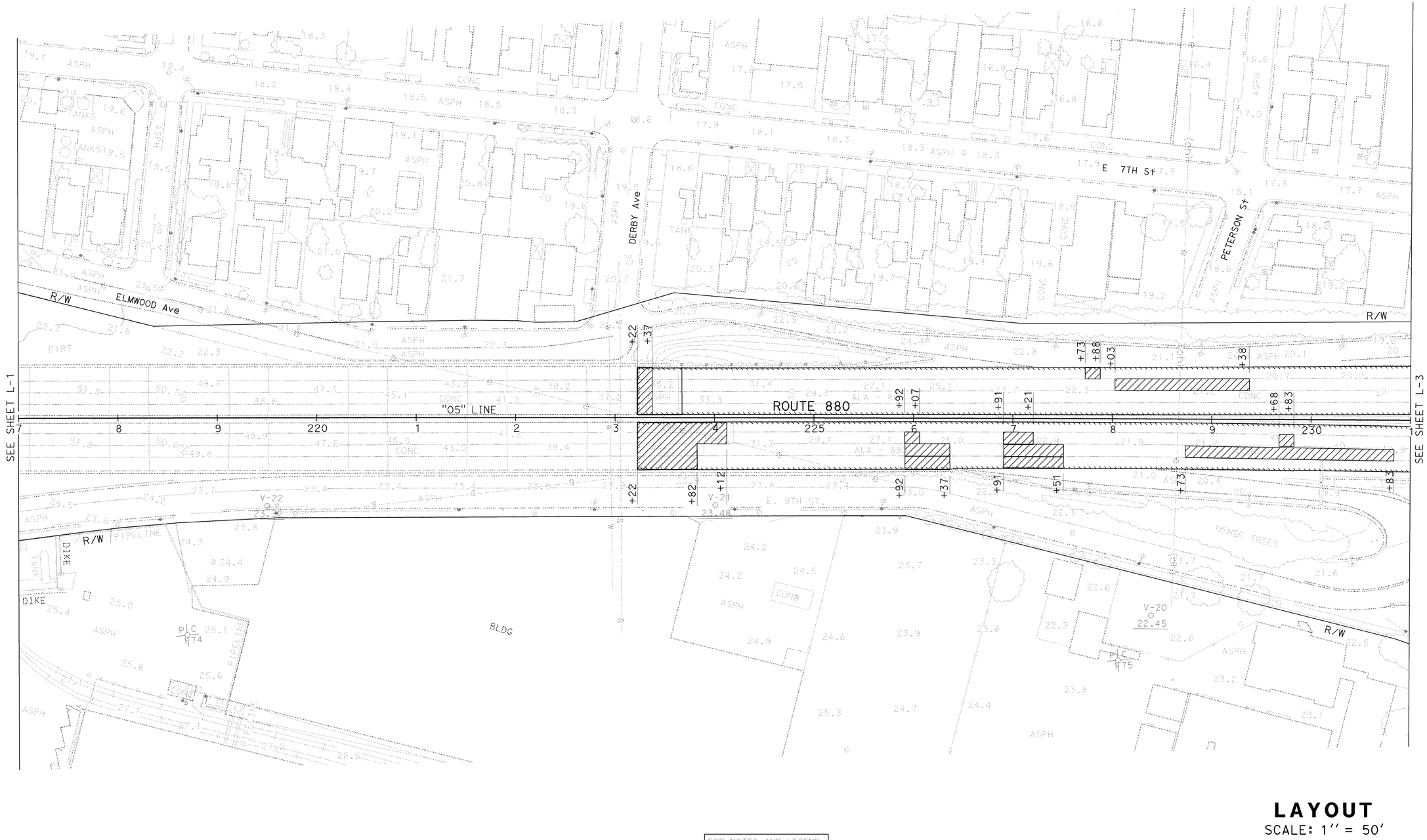
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	4	36

2-25-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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.



LAYOUT
SCALE: 1'' = 50'

FOR NOTES AND LEGEND, SEE SHEET L-1

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	THANH DOAN	REVISED BY
Caltrans	ERIC K. WONG	CALCULATED-DESIGNED BY	DATE REVISED
FUNCTIONAL SUPERVISOR	EDMUND W.CHOY	CHECKED BY	

LAST REVISION DATE PLOTTED => 09-MAR-2010
03-02-10 TIME PLOTTED => 09:38

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s126853 DGN FILE => 41a681ea002.dgn | CU 04244 | EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	5	36

2-25-20
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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.

LAYOUT
SCALE: 1'' = 50'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
FUNCTIONAL SUPERVISOR: EDMUND W. CHOY
CALCULATED-DESIGNED BY: ERIC K. WONG
CHECKED BY: THANH DOAN
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 09:39
03-02-10

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a681ea003.dgn
CU 04244
EA 1A6811

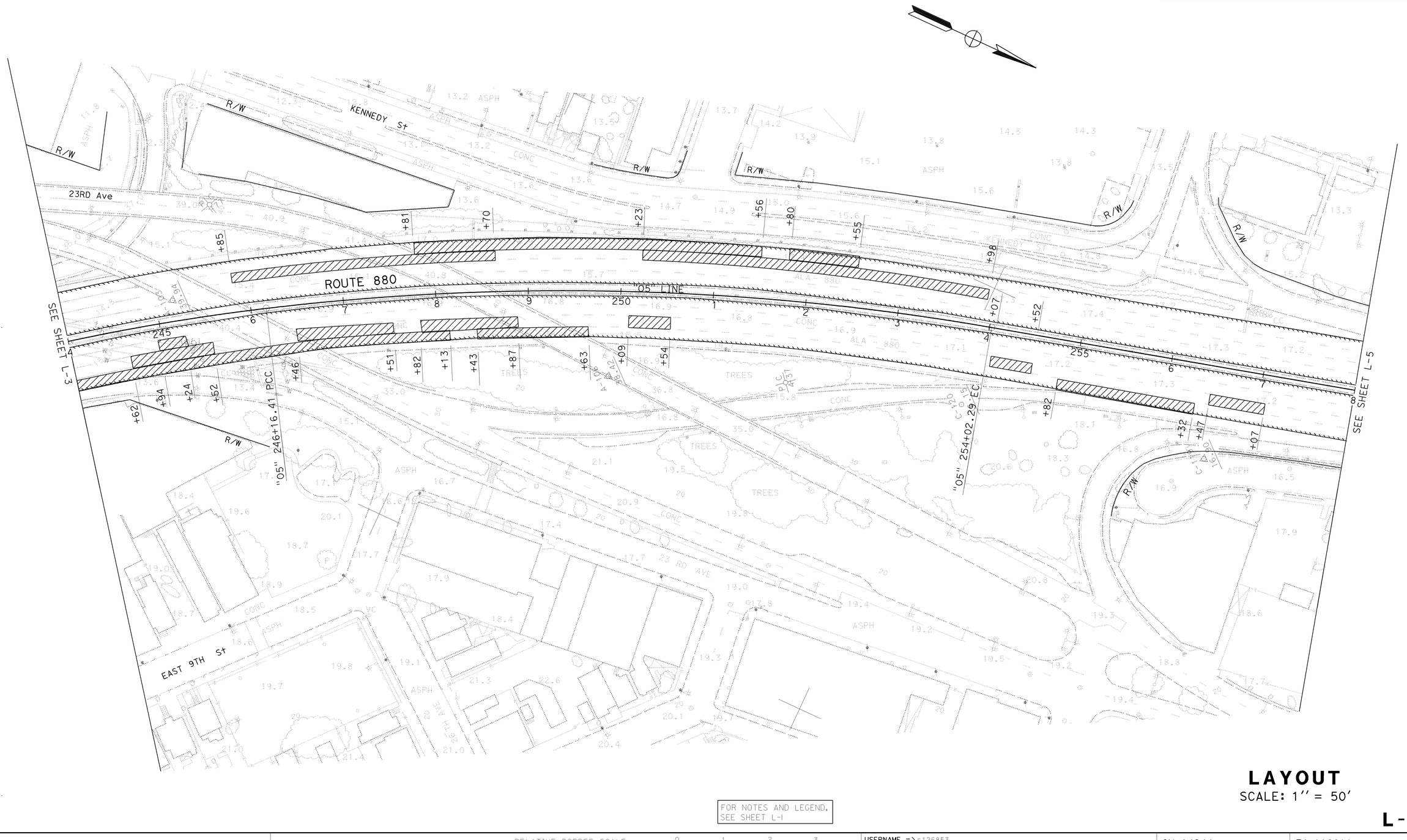
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	6	36

REGISTERED CIVIL ENGINEER — 2-25-10 DATE

PLANS APPROVAL DATE — 3-8-10

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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 L-1

LAYOUT

SCALE: 1'' = 50'

L-4

REVISED BY	DATE REVISED
THANH DOAN	
ERIC K. WONG	

CALCULATED-DESIGNED BY	CHECKED BY

FUNCTIONAL SUPERVISOR: EDMUND W. CHOY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

DESIGN

LAST REVISION: DATE PLOTTED => 09-MAR-2010
03-02-10 TIME PLOTTED => 09:40

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681ea004.dgn

CU 04244

EA 1A6811

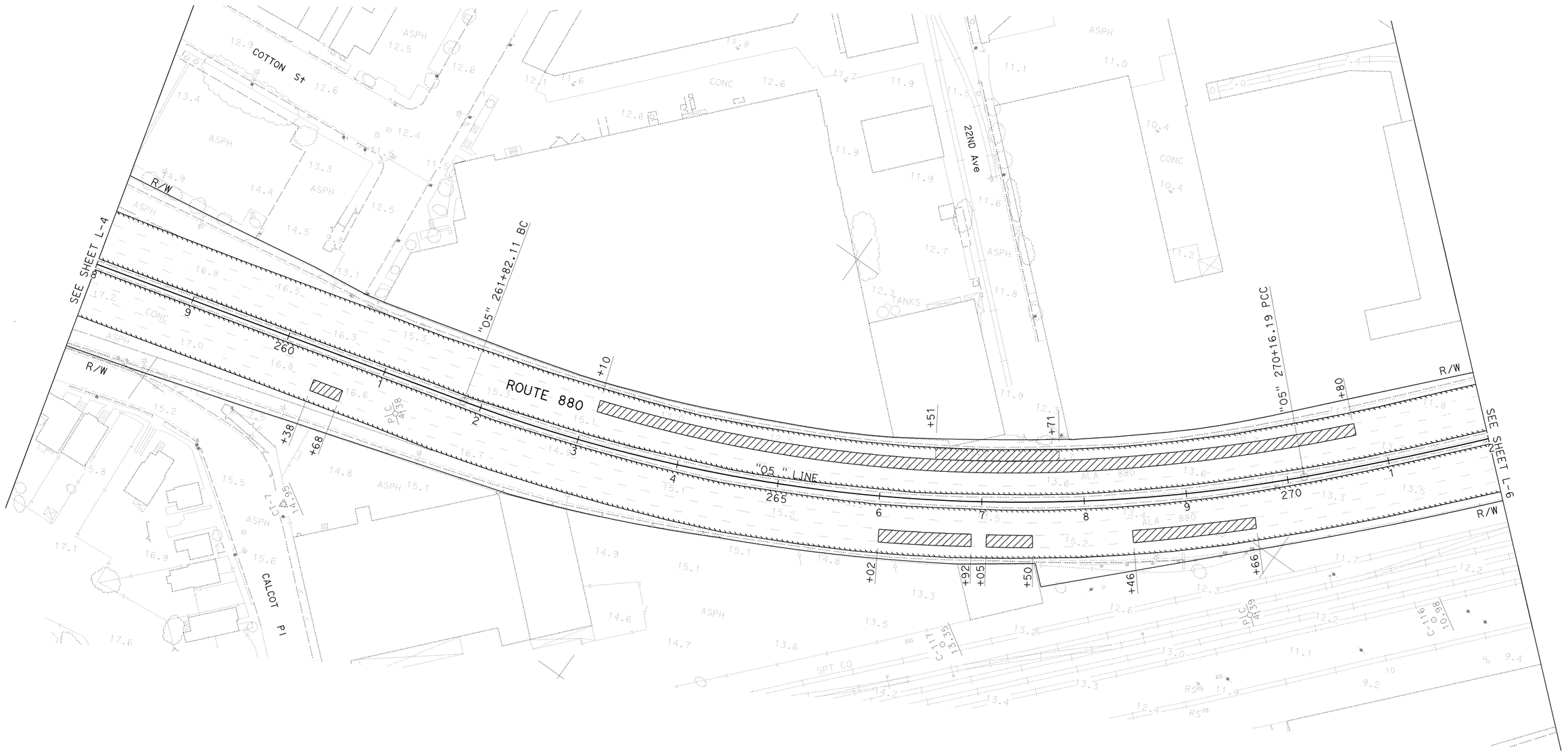
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	7	36

2-25-110
REGISTERED CIVIL ENGINEER DATE

Eric K. Wong
No. 70259
Exp 9-30-10
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

3-8-10
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 AND LEGEND, SEE SHEET L-1

LAYOUT
SCALE: 1'' = 50'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: EDMUND W. CHOY
CALCULATED-DESIGNED BY: THANH DOAN
CHECKED BY: ERIC K. WONG
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 09:41
03-02-10

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a681ea005.dgn
CU 04244
EA 1A6811

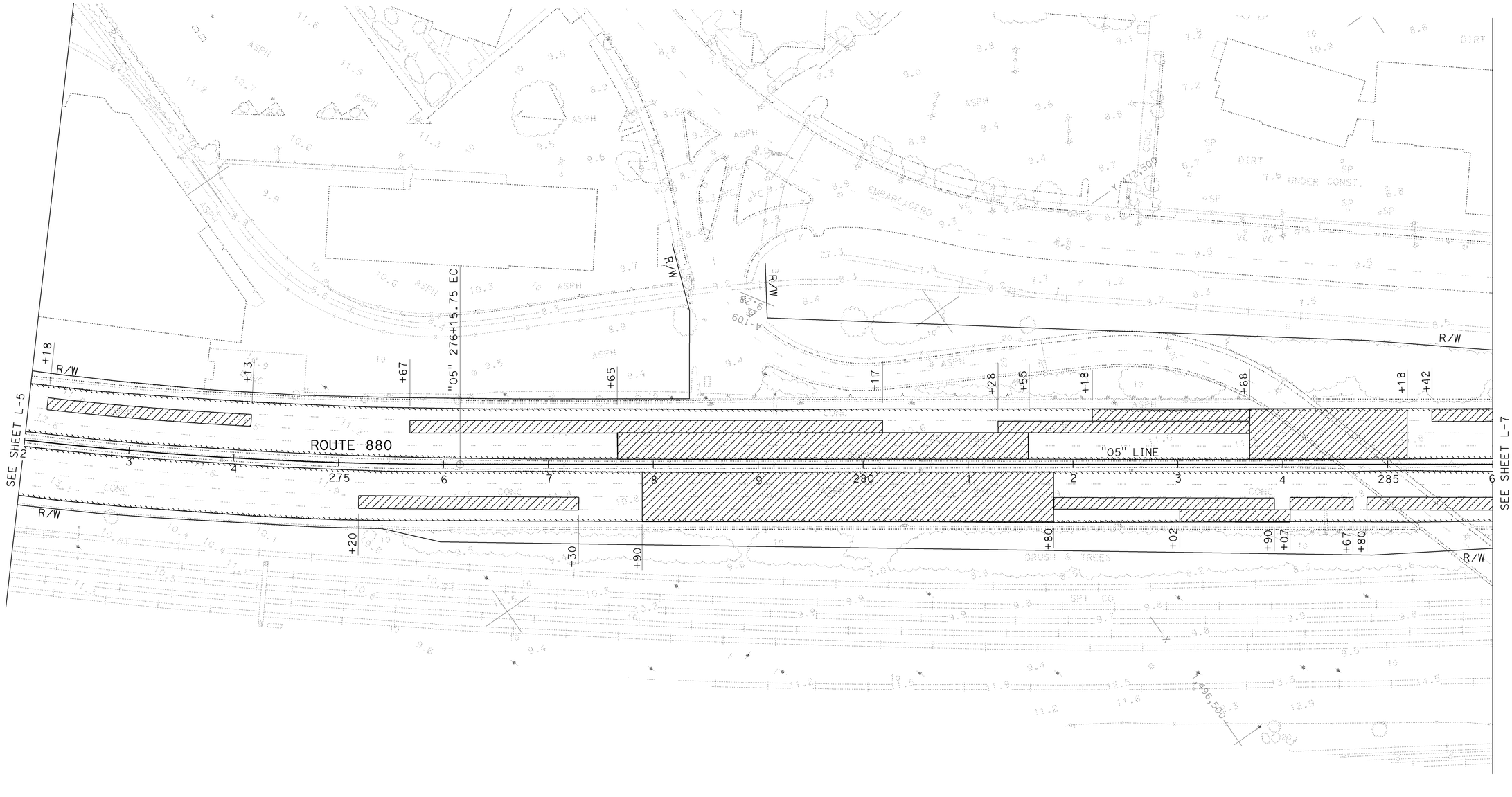
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	8	36

2-25-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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 L-1

LAYOUT
SCALE: 1'' = 50'

L-6

CALCULATED-DESIGNED BY: THANH DOAN
CHECKED BY: ERIC K. WONG
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: EDMUND W. CHOY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

LAST REVISION 03-02-10
DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 09:42

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a681ea006.dgn
CU 04244
EA 1A6811

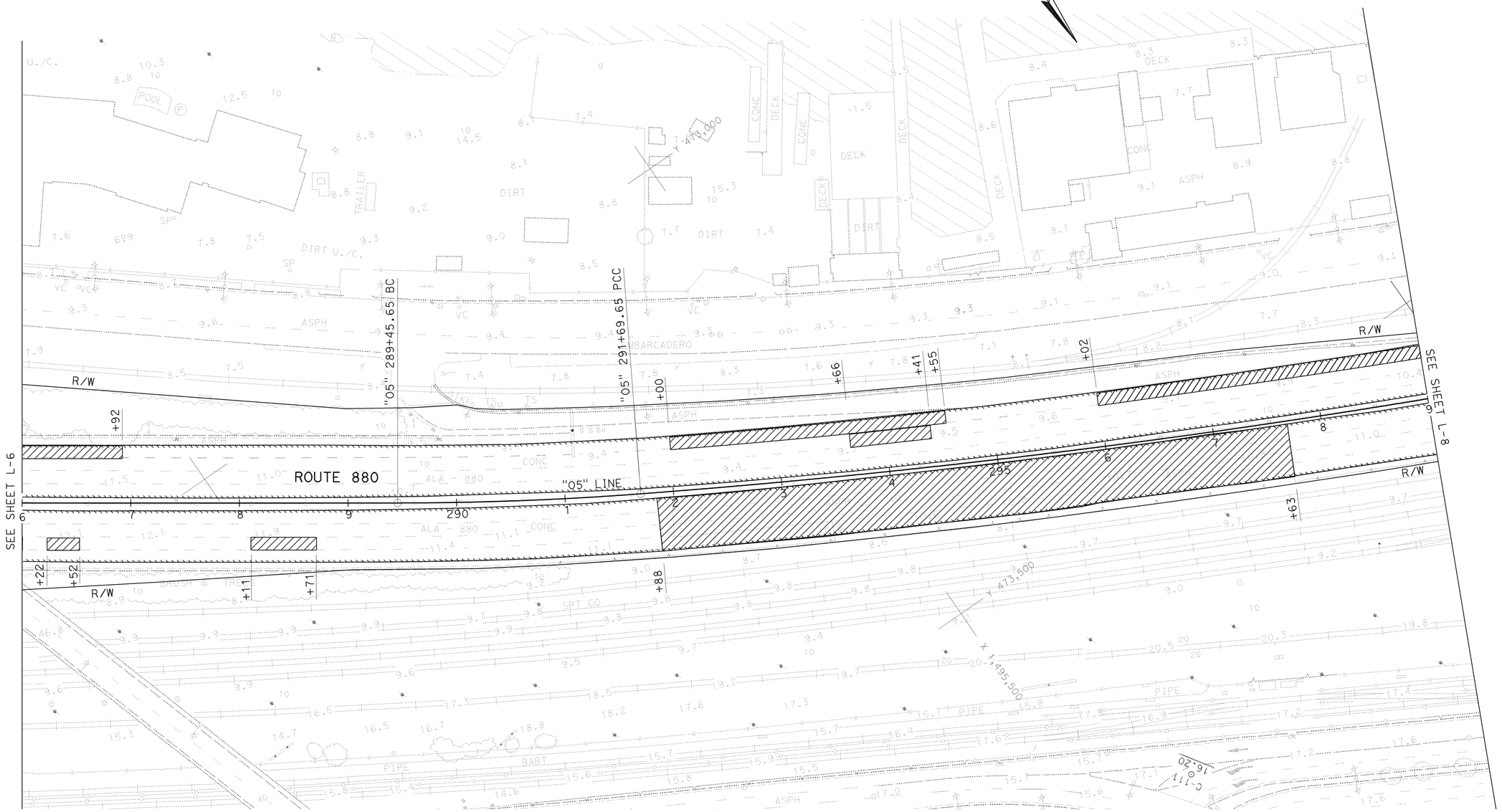
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	9	36

REGISTERED CIVIL ENGINEER — DATE: 2-25-10

PLANS APPROVAL DATE: 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Eric K. Wong — No. 70259 — Exp 9-30-10 — 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 L-1

LAYOUT

SCALE: 1'' = 50'

L-7

CALCULATED-DESIGNED BY	FUNCTIONAL SUPERVISOR	REVISED BY	LAST REVISION
THANH DOAN	EDMUND W. CHOY		DATE PLOTTED => 09-MAR-2010
CHECKED BY		DATE REVISED	TIME PLOTTED => 09:42
ERIC K. WONG			03-02-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

DESIGN

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681ea007.dgn

CU 04244

EA 1A6811

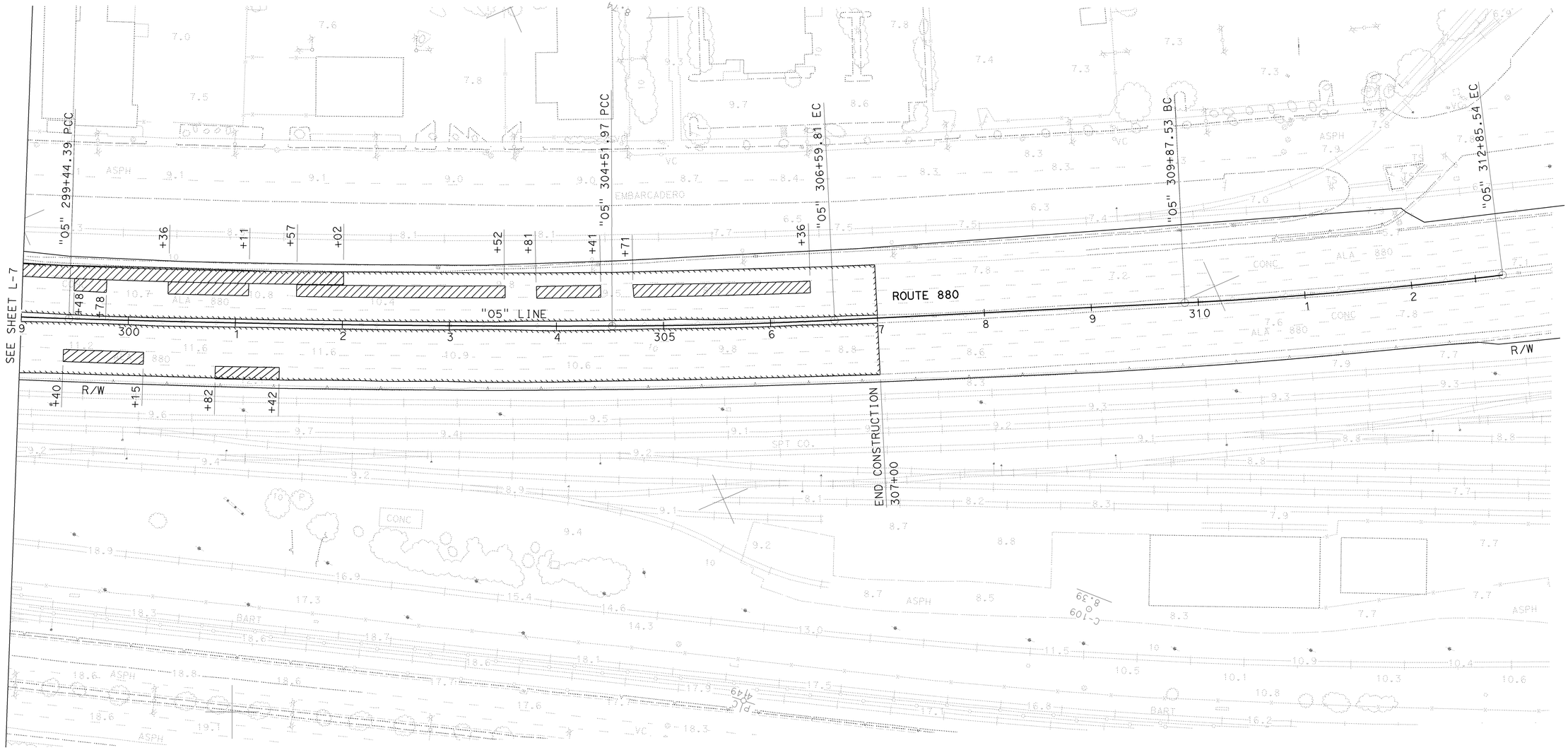
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	10	36

REGISTERED CIVIL ENGINEER — 2-25-10 DATE

PLANS APPROVAL DATE — 3-8-10

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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 L-1

LAYOUT

SCALE: 1'' = 50'

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: EDMUND W. CHOY

CALCULATED-DESIGNED BY: THANH DOAN
CHECKED BY: ERIC K. WONG

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 09-MAR-2010
03-02-10 | TIME PLOTTED => 09:43

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681ea008.dgn

CU 04244

EA 1A6811

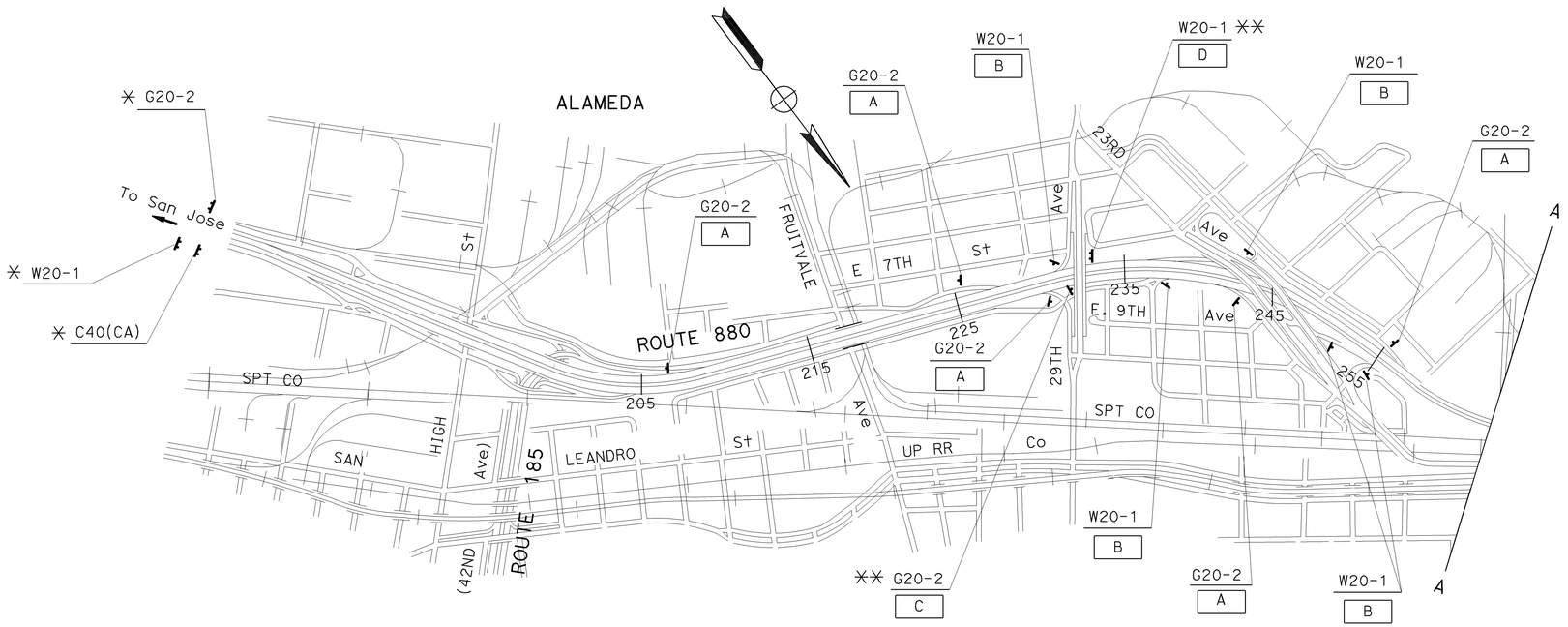
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	11	36

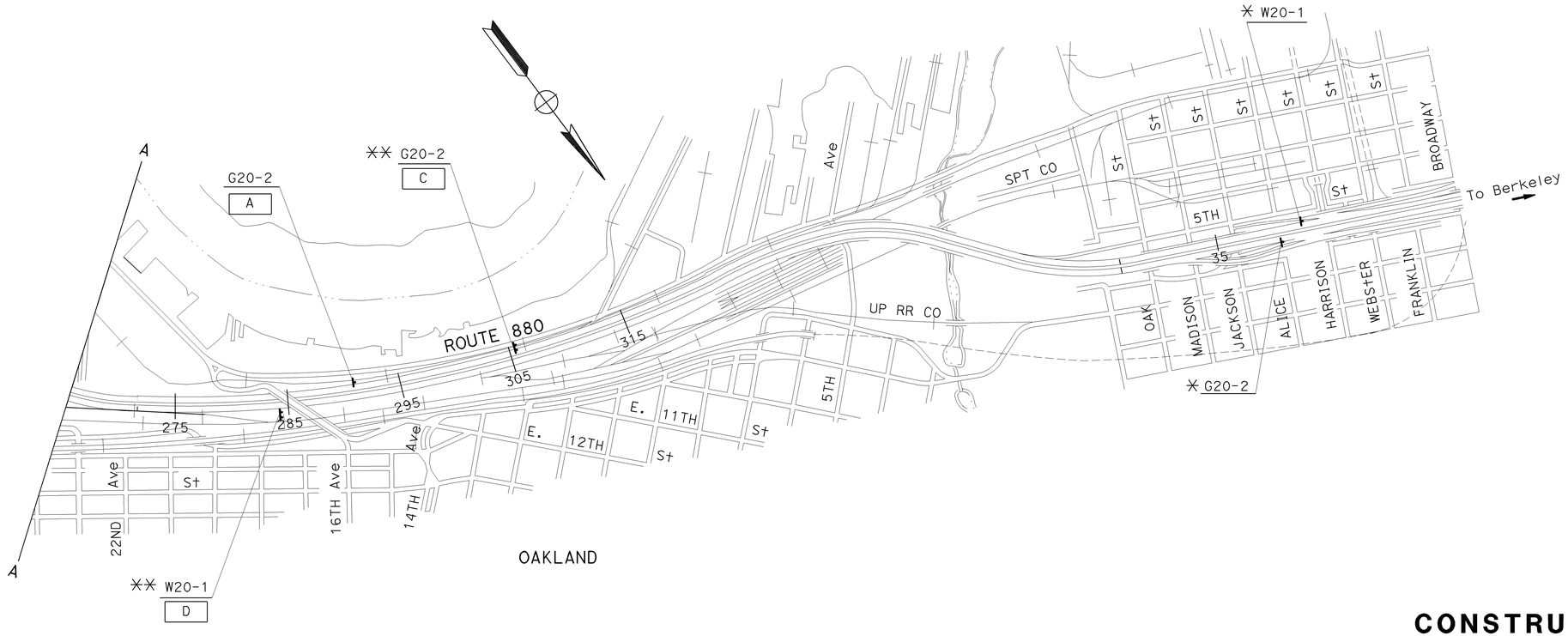
Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Florante P. Perez
No. 41030
Exp. 3-31-11
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:

C	CONSTRUCTION AREA SIGN LETTER
*	EXISTING CONSTRUCTION AREA SIGNS TO REMAIN
**	COVER EXISTING CONSTRUCTION AREA SIGNS.
→	DIRECTION OF TRAFFIC

NOTE:

EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

CALCULATED-DESIGNED BY		
CHECKED BY		
REVISED BY	LEOPOLDO G. BONGATO	
DATE REVISED	FLORANTE P. PEREZ	
FUNCTIONAL SUPERVISOR	LOURDES DAVID	
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	TRAFFIC	

LAST REVISION DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 09:57

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a6811a001.dgn

CU 04224

EA 1A6811

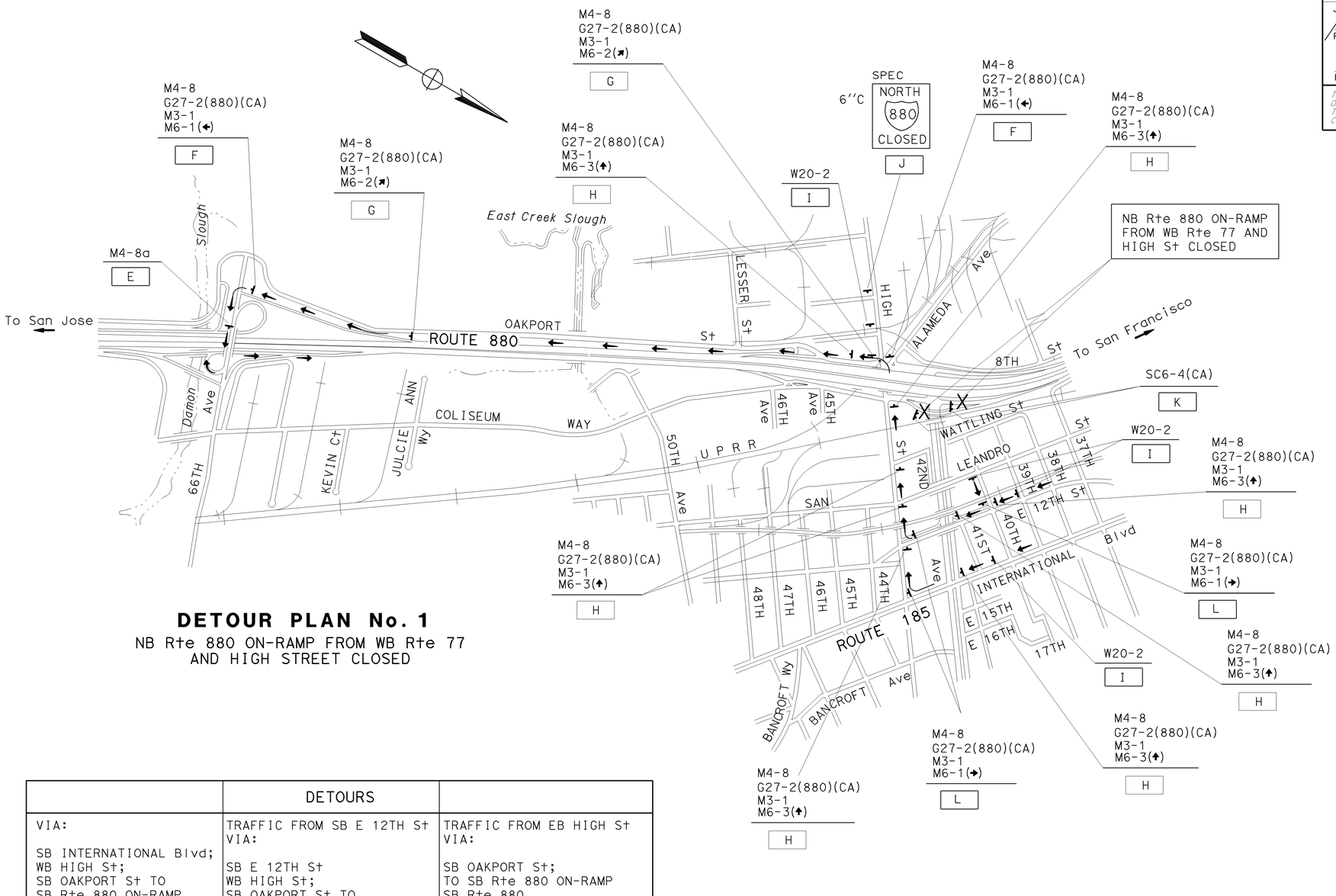
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	12	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

3-8-10
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.



DETOUR PLAN No. 1

NB Rte 880 ON-RAMP FROM WB Rte 77
AND HIGH STREET CLOSED

	DETOURS	
VIA: SB INTERNATIONAL Blvd; WB HIGH St; SB OAKPORT St TO SB Rte 880 ON-RAMP SB Rte 880; 66TH Ave OFF-RAMP; EB 66TH Ave; LOOP ON-RAMP TO NB Rte 880	TRAFFIC FROM SB E 12TH St VIA: SB E 12TH St WB HIGH St; SB OAKPORT St TO SB Rte 880 ON-RAMP; SB Rte 880; 66TH Ave OFF-RAMP; EB 66TH Ave; TO NB Rte 880	TRAFFIC FROM EB HIGH St VIA: SB OAKPORT St; TO SB Rte 880 ON-RAMP SB Rte 880 66TH Ave OFF-RAMP; EB 66TH Ave; TO NB Rte 880

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN WORK ONLY

CS-2

REVISED BY | DATE REVISED
LEOPOLDO G. BONGATO | FLORANTE P. PEREZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION | DATE PLOTTED => 09-MAR-2010
03-02-10 | TIME PLOTTED => 09:58

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s126853 | DGN FILE => 41a6811a002.dgn | CU 04224 | EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	13	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Florante P. Perez — No. 41030 — Exp. 3-31-11 — 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.

CALCULATED- DESIGNED BY: LEOPOLDO G. BONGATO
CHECKED BY: FLORANTE P. PEREZ
REVISED BY
DATE REVISED
FUNCTIONAL SUPERVISOR: LOURDES DAVID
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

M4-10 (Lt)
DETOUR
M — TO HIGH St 42ND Ave — 4'' CAPS
SPEC

SC3 (CA)(↗)
DETOUR ↗
N — TO HIGH St 42ND Ave — 4'' CAPS
SPEC

M4-10 (Rt)
DETOUR
O — TO 42ND Ave — 4 CAPS
SPEC

SB Rte 880 OFF-RAMP TO HIGH St
AND EB 77TH/42ND Ave CLOSED

K
SC6-4(CA)

(OPTIONAL)
I
W20-2

SC3 (CA) (↑)
DETOUR ↑
P — TO HIGH St 42ND Ave — 4'' CAPS
SPEC

SC3 (CA) (↑)
DETOUR ↑
R — TO 42ND Ave — 4'' CAPS
SPEC

Q
HIGH St
42ND Ave
OFF-RAMP CLOSED — 4'' CAPS
SPEC

SC3 (CA) (↑)
DETOUR ↑
P — TO HIGH St 42ND Ave — 4'' CAPS
SPEC

M4-8a
E

M4-10 (Lt)
DETOUR
S — TO 42ND Ave — 4'' CAPS
SPEC

DETOUR

VIA: 66TH Ave OFF-RAMP
EB 66TH Ave
NB Rte 880 ON-RAMP
NB HIGH St OFF-RAMP
NB COLISEUM WAY
EB HIGH St
NB INTERNATIONAL Blvd

DETOUR PLAN No. 2

SB Rte 880 OFF TO HIGH St
AND EB Rte 77/42ND Ave CLOSURE

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-3

LAST REVISION DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 09:58
03-02-10

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a6811a003.dgn
CU 04224
EA 1A6811

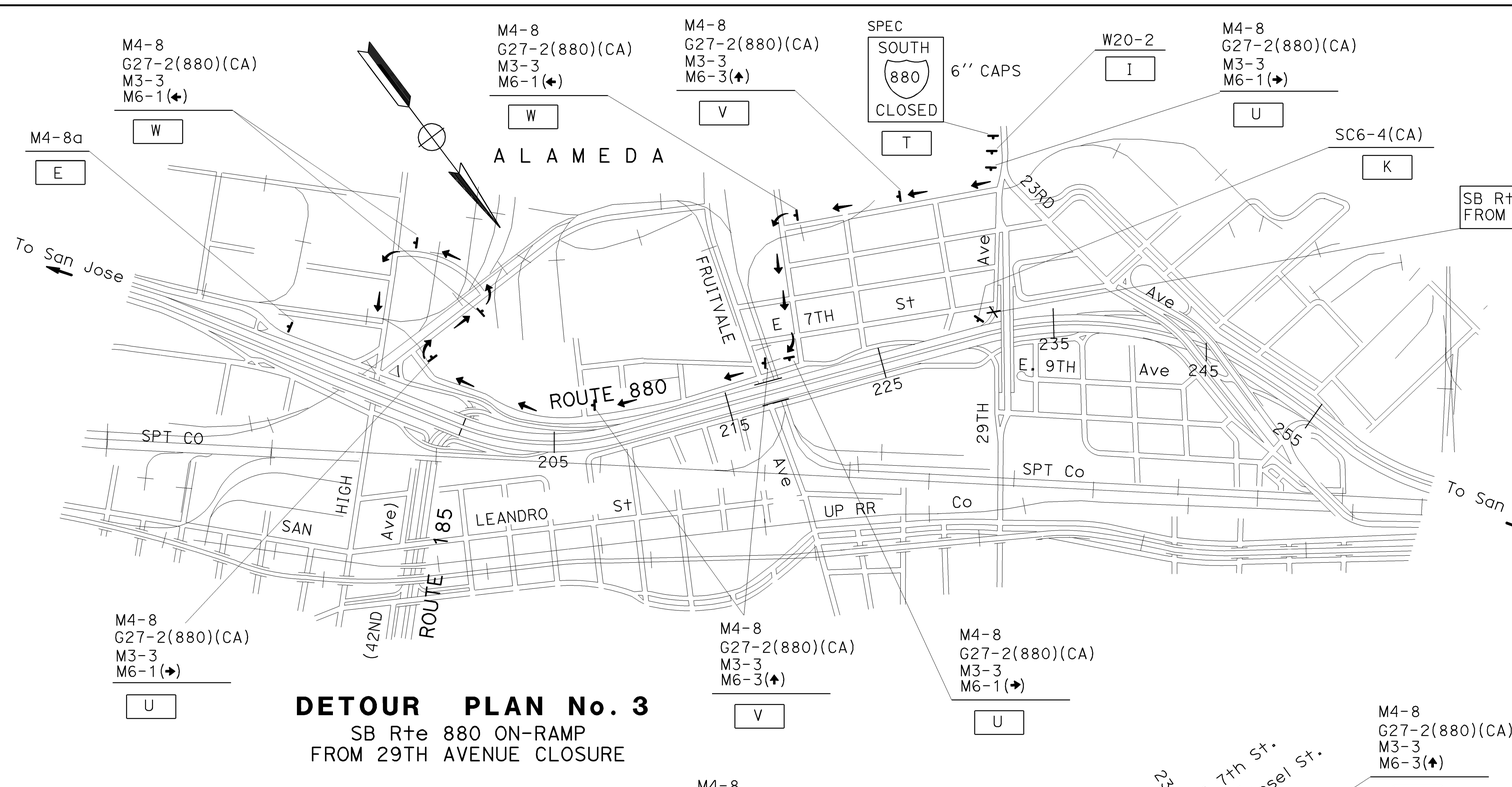
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	880	28.2/29.9	14	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-8-10
PLANS APPROVAL DATE

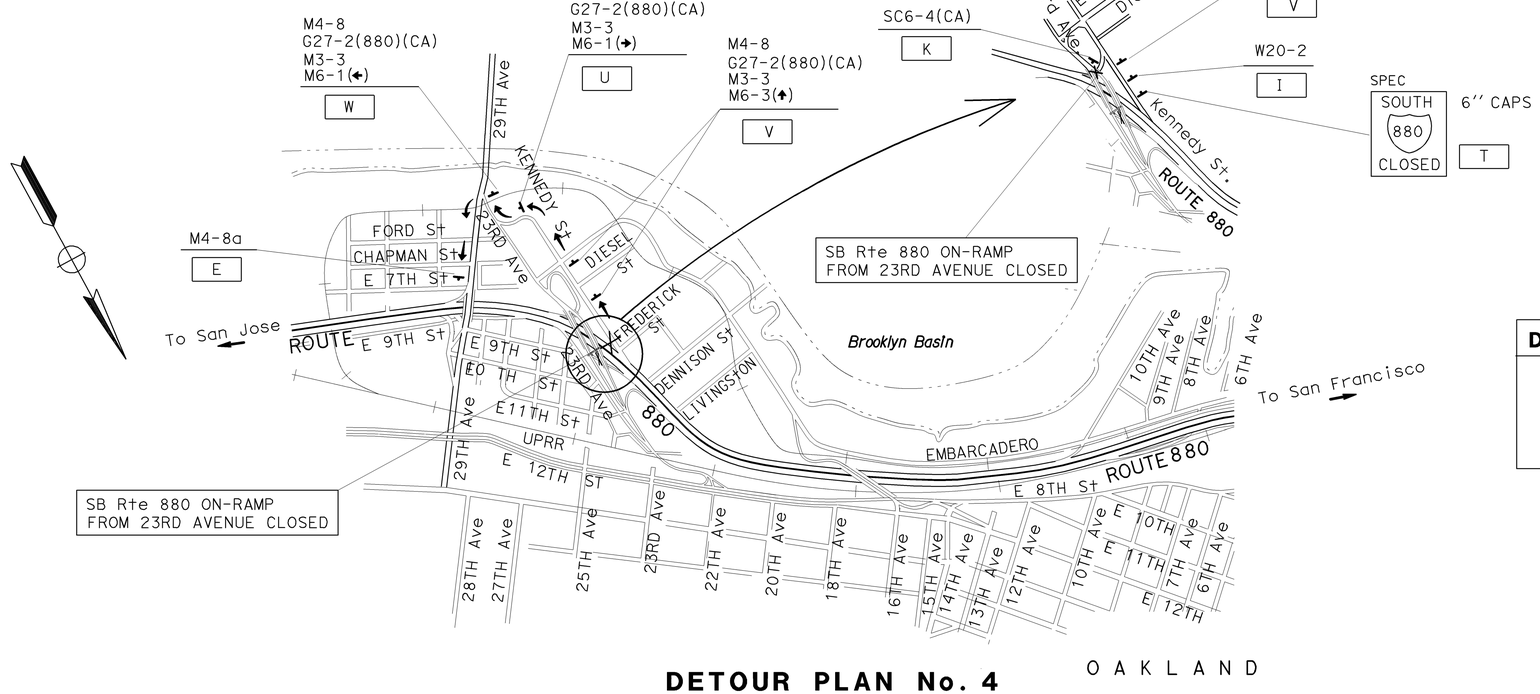
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DETOUR

VIA: EB 29TH Ave
NB E 10th St
EB LISBON Ave
NB E 11th St
ON-RAMP TO NB Rte 880

DETOUR PLAN No. 3
SB Rte 880 ON-RAMP
FROM 29TH AVENUE CLOSURE



DETOUR

VIA: EB EMBARCADERO
EB DENNISON
SB KENNEDY
SB Rte 880 ON-RAMP

DETOUR PLAN No. 4
SB Rte 880 ON-RAMP
FROM 23RD AVENUE CLOSURE

OAKLAND

CONSTRUCTION AREA SIGNS
NO SCALE

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN WORK ONLY

CS-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR: LOURDES DAVID
LEOPOLDO G. BONGATO
FLORANTE P. PEREZ

LAST REVISION: DATE PLOTTED => 09-MAR-2010
03-02-10 TIME PLOTTED => 09:59

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a6811a004.dgn
CU 04224
EA 1A6811

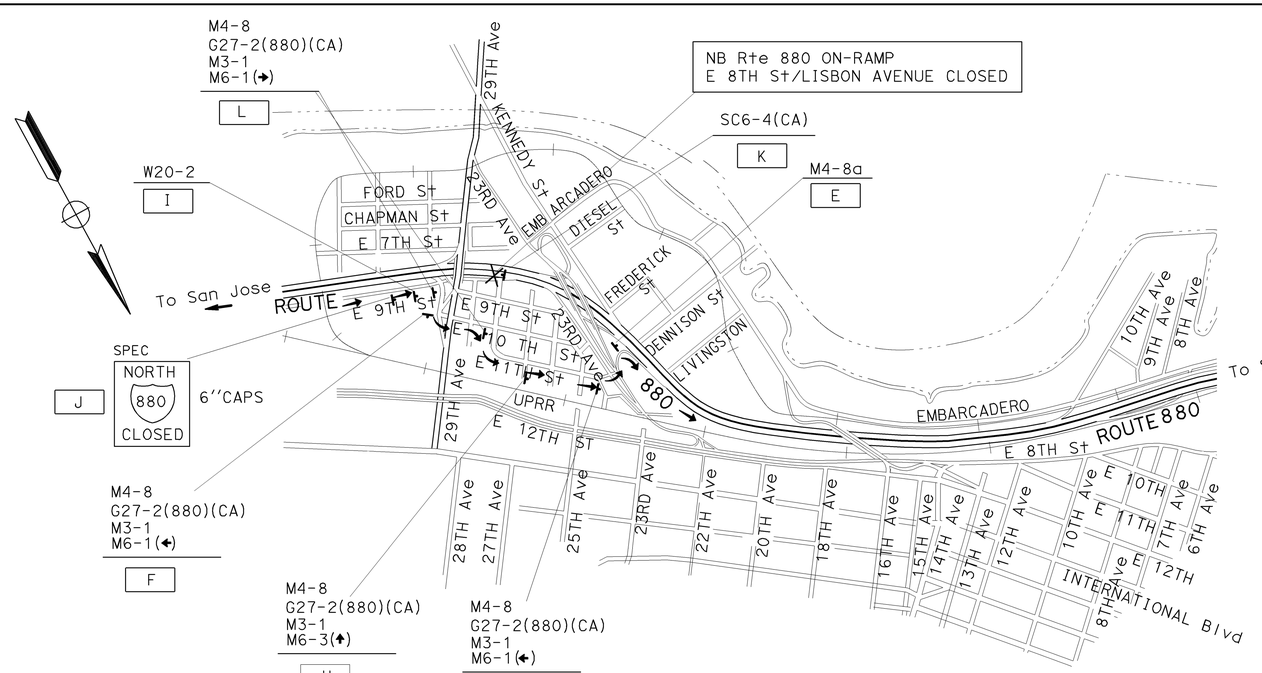
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	15	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL
REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-8-10
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.

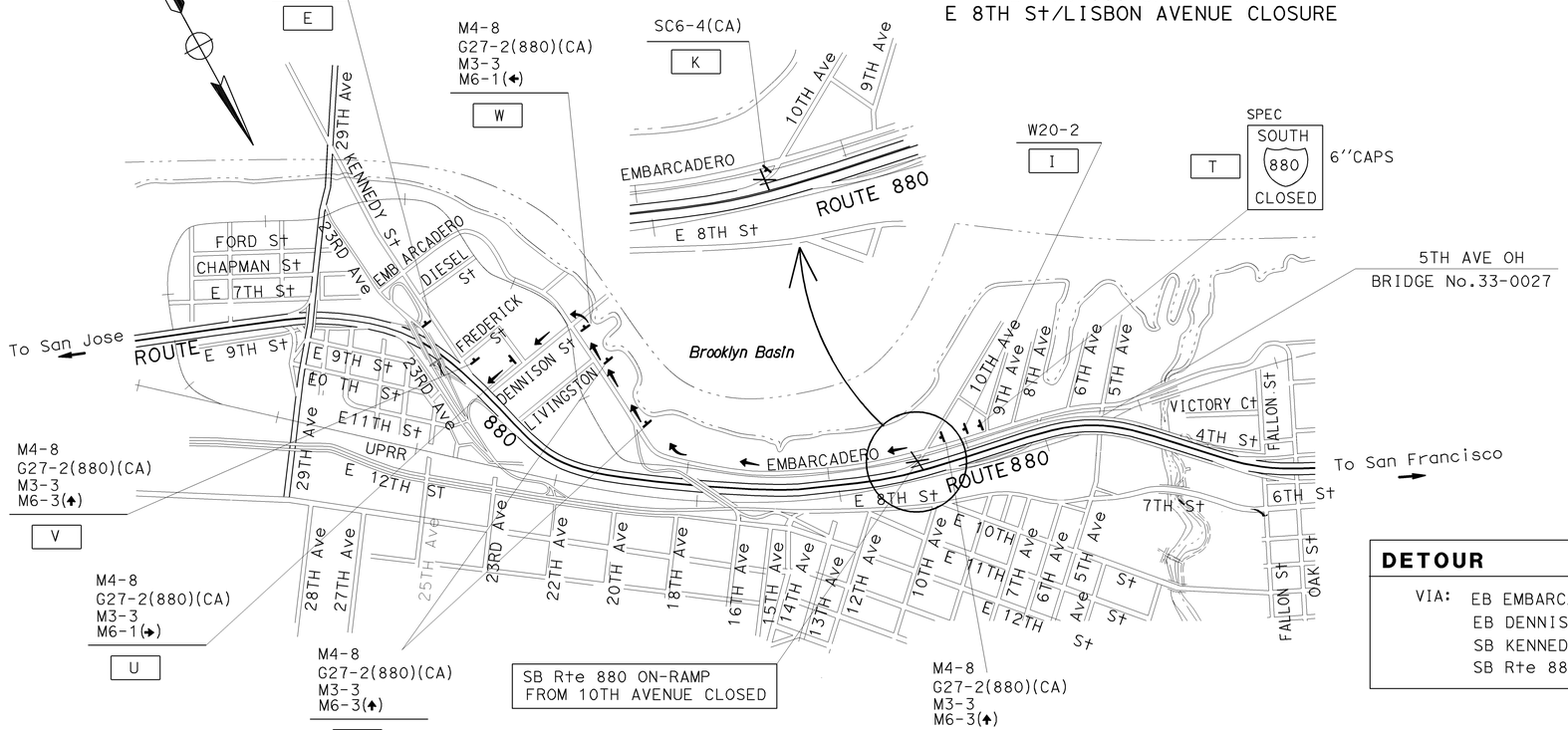


DETOUR

VIA: EB 29TH AVE
NB E 10th St
EB LISBON Ave
NB E 11th St
ON-RAMP TO NB Rte 880

DETOUR PLAN No. 5

NB Rte 880 ON-RAMP FROM
E 8TH St/LISBON AVENUE CLOSURE



DETOUR

VIA: EB EMBARCADERO
EB DENNISON
SB KENNEDY
SB Rte 880 ON-RAMP

DETOUR PLAN No. 6

SB Rte 880 ON-RAMP
FROM 10TH AVENUE CLOSURE

CONSTRUCTION AREA SIGNS

NO SCALE

THIS PLAN ACCURATE FOR
CONSTRUCTION AREA SIGN WORK ONLY

CS-5

CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
LOURDES DAVID
REVISED BY
DATE REVISED
LEOPOLDO G. BONGATO
FLORANTE P. PEREZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

LAST REVISION DATE PLOTTED => 09-MAR-2010
03-02-10 TIME PLOTTED => 10:00

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a6811a005.dgn
CU 04224
EA 1A6811

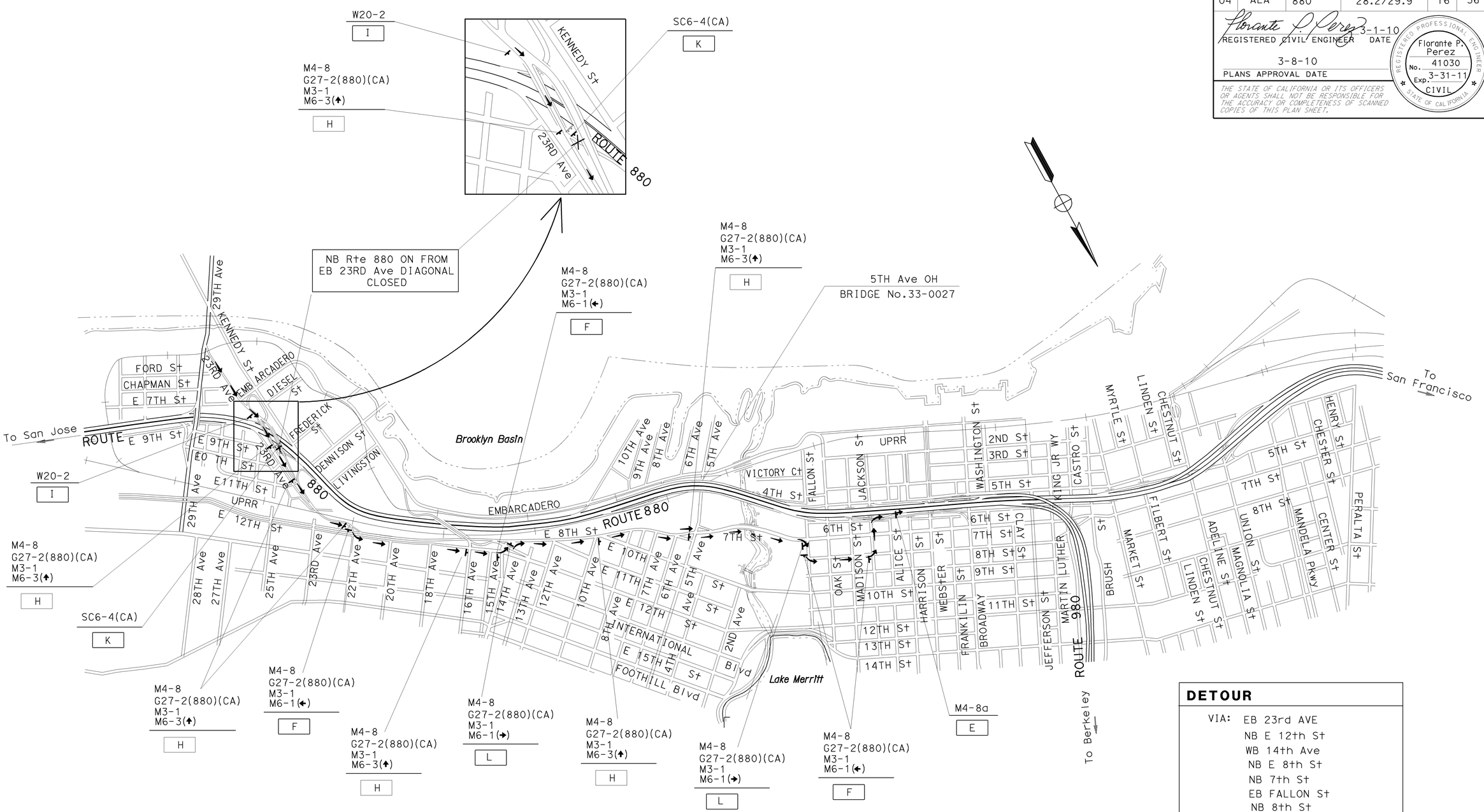
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	880	28.2/29.9	16	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Florante P. Perez — No. 41030 — Exp. 3-31-11 — 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.



DETOUR

VIA: EB 23rd AVE
NB E 12th St
WB 14th Ave
NB E 8th St
NB 7th St
EB FALLON St
NB 8th St
WB JACKSON St
NB Rte 880 ON-RAMP

DETOUR PLAN No. 7

NB Rte 880 ON FROM EB 23RD Ave
DIAGONAL CLOSURE

CONSTRUCTION AREA SIGNS

NO SCALE

FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
FUNCTIONAL SUPERVISOR: LOURDES DAVID
CALCULATED-DESIGNED BY: LEOPOLDO G. BONGATO
CHECKED BY: FLORANTE P. PEREZ
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 10:00

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a6811a006.dgn
CU 04224
EA 1A6811

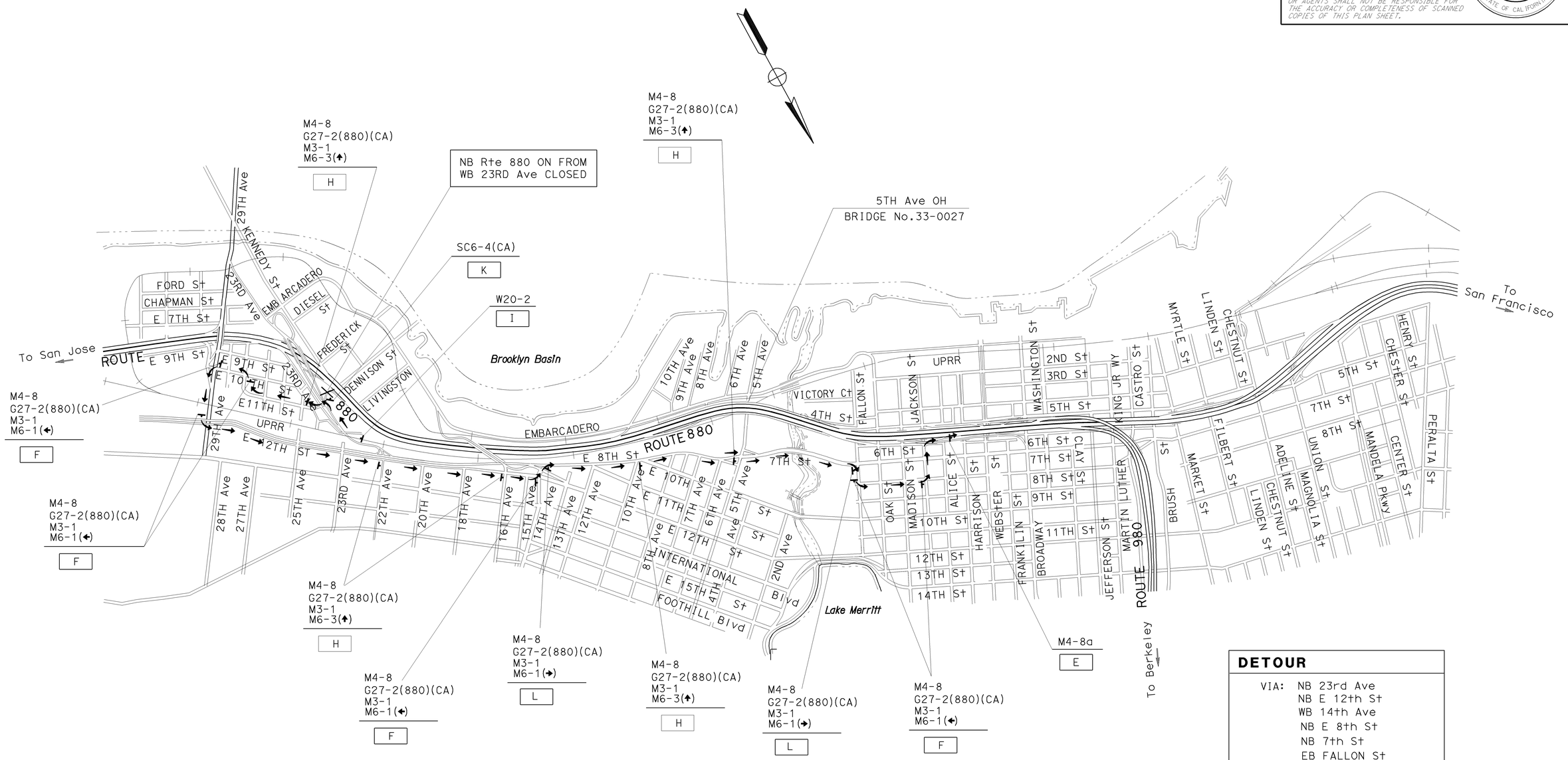
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	880	28.2/29.9	17	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL
REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

3-8-10
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.



DETOUR PLAN No. 8

NB Rte 880 ON FROM WB 23RD Ave
DIAGONAL CLOSURE

DETOUR

VIA: NB 23rd Ave
NB E 12th St
WB 14th Ave
NB E 8th St
NB 7th St
EB FALLON St
NB 8th St
WB JACKSON St
NB Rte 880 ON-RAMP

CONSTRUCTION AREA SIGNS

NO SCALE

CS-7

FOR NOTES, ABBREVIATIONS &/OR LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC
Caltrans

CALCULATED-DESIGNED BY: LEOPOLDO G. BONGATO
CHECKED BY: FLORANTE P. PEREZ
FUNCTIONAL SUPERVISOR: LOURDES DAVID
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 09-MAR-2010
03-02-10 TIME PLOTTED => 10:01

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a6811a007.dgn
CU 04224
EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	ALA	880	28.2/29.9	18	36

Florante P. Perez 3-1-10
REGISTERED CIVIL ENGINEER DATE

Florante P. Perez No. 41030 Exp. 3-31-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

3-8-10
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	MESSAGE	PANEL SIZE (Inches)	No. OF POSTS & SIZE (Inches) (EA)	No. of Signs	REMARKS
A	G20-2	END ROAD WORK	36 x 18	1-4 x 4	4	
B	W20-1	ROAD WORK AHEAD	48 x 48	1-4 x 6	5	
C	G20-2	END ROAD WORK			2	COVER SIGNS
D	W20-1	ROAD WORK AHEAD			2	COVER SIGNS
E	M4-8a	END DETOUR	30 x 18	1-4 x 4	8	
F	M4-8	DETOUR	21 x 18	1-4 x 6	12	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-1	NORTH	21 x 15			
	M6-2(←)	LEFT ARROW	21 x 9			
G	M4-8	DETOUR	21 x 18	1-4 x 6	2	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-1	NORTH	21 x 15			
	M6-2(↗)	UP-RIGHT ARROW	21 x 9			
H	M4-8	DETOUR	21 x 18	1-4 x 6	8	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-1	NORTH	21 x 15			
	M6-3(↑)	UP ARROW	21 x 9			
I	W20-2	DETOUR AHEAD	48 x 48	1-4 x 6	11	
J	SPECIAL	NORTH ROUTE 880 CLOSED	48 x 48	1-4 x 6	2	
K	SC6-4(CA)	RAMP CLOSED DATES TIMES	48 x 60	1-4 x 6	9	
L	M4-8	DETOUR	21 x 18	1-89 x 140	9	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-1	NORTH	21 x 15			
	M6-1(→)	RIGHT ARROW	21 x 9			
M	M4-10(←)	DETOUR LEFT ARROW	48 x 18	1-4 x 6	1	
	SPECIAL	TO HIGH ST 42ND AVE	48 x 21			
N	SC3(↗)(CA)	DETOUR LEFT ARROW	48 x 18	1-4 x 6	3	
	SPECIAL	TO HIGH ST 42ND AVE	48 x 21			
O	M4-10(→)	DETOUR RIGHT ARROW	48 x 18	1-4 x 6	1	
	SPECIAL	TO 42ND AVE	48 x 12			
P	SC3(↑)(CA)	DETOUR UP ARROW	48 x 21	1-4 x 6	2	
	SPECIAL	TO HIGH ST 42ND AVE	48 x 21			
Q	SPECIAL	TO HIGH ST 42ND AVE OFF RAMP CLOSED	48 x 36	1-4 x 6	1	
R	SC3(↑)(CA)	DETOUR UP ARROW	48 x 21	1-4 x 6	2	
	SPECIAL	TO 42ND AVE	48 x 21			
S	M4-10(←)	DETOUR LEFT ARROW	48 x 18	1-4 x 6	1	
	SPECIAL	TO 42ND AVE	48 x 12			
T	SPECIAL	SOUTH ROUTE 880 CLOSED	48 x 48	1-4 x 6	3	
U	M4-8	DETOUR	21 x 18	1-4 x 6	5	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-3	SOUTH	21 x 15			
	M6-1(→)	RIGHT ARROW	21 x 9			
V	M4-8	DETOUR	21 x 18	1-4 x 6	10	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-3	SOUTH	21 x 15			
	M6-1(↑)	UP ARROW	21 x 9			
W	M4-8	DETOUR	21 x 18	1-4 x 6	5	
	G27-2(CA)	ROUTE 880 SHIELD	30 x 25			
	M3-3	SOUTH	21 x 15			
	M6-1(←)	LEFT ARROW	21 x 9			

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: LEOPOLDO G. BONGATO
CHECKED BY: FLORANTE P. PEREZ
FUNCTIONAL SUPERVISOR: LOURDES DAVID
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

CONSTRUCTION AREA SIGNS

CS-8

LAST REVISION | DATE PLOTTED => 09-MAR-2010
03-02-10 | TIME PLOTTED => 10:01

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s126853 DGN FILE => 41a6811a008.dgn | CU 04224 | EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	19	36

S Mamoon 2-22-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Saif Mamoon
No. 53427
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.

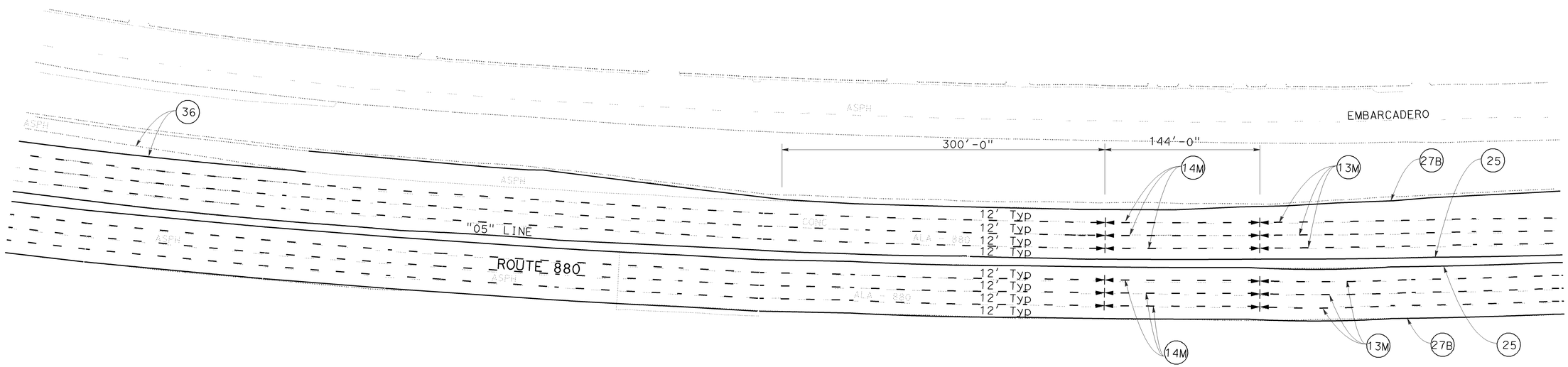
LEGEND:

(No.) PAVEMENT DELINEATION DETAIL

CHANGE OF PAVEMENT DELINEATION DETAIL

NOTE:

ALL PAVEMENT DELINEATION SHALL BE PLACED ON THE SAME ALIGNMENT AND LOCATIONS AS EXISTING PAVEMENT DELINEATION.



TYPICAL STRIPING (MAINLINE)

PAVEMENT DELINEATION PLAN

SCALE: 1'' = 50'

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY

PD-1

REVISED BY | DATE REVISED

ROWAIDA HASHIMI | SAIF MAMOON

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: EMILY TANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

TRAFFIC

Caltrans®

LAST REVISION | DATE PLOTTED => 09-MAR-2010
02-24-10 | TIME PLOTTED => 10:02

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681na001.dgn

CU 04244

EA 1A6811

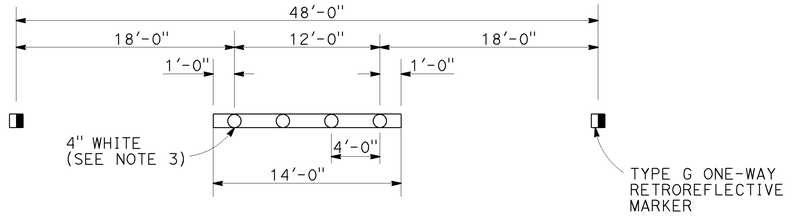
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	20	36

S Mamoon 2-22-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Saif Mamoon
No. 53427
Exp 6-30-11
CIVIL
STATE OF CALIFORNIA

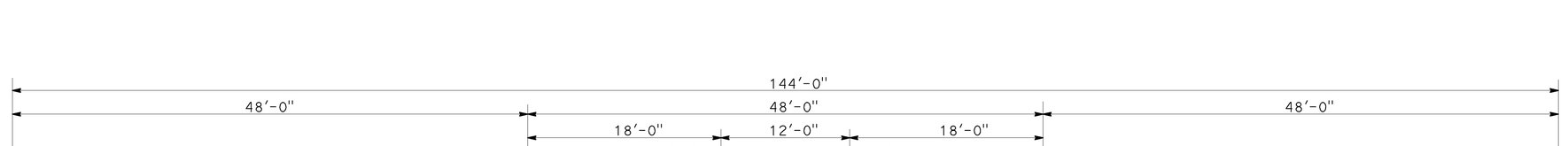
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



DETAIL 13M

NOTES:

1. DETAIL 13M IS MODIFIED PAVEMENT DELINEATION DETAIL 13.
2. FOR DETAILS NOT SHOWN, SEE STANDARD PLAN A20A.
3. INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.



DETAIL 14M

NOTES:

1. DETAIL 14M IS MODIFIED PAVEMENT DELINEATION DETAIL 14.
2. FOR DETAILS NOT SHOWN, SEE STANDARD PLAN A20A.
3. INSTALL 4" WHITE AFTER INSTALLING PAVEMENT MARKERS.

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: ROWAIDA HASHIMI
CHECKED BY: RAIF MAMOON
FUNCTIONAL SUPERVISOR: EMILY TANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
TRAFFIC

LAST REVISION | DATE PLOTTED => 09-MAR-2010
02-17-10 | TIME PLOTTED => 10:03

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681nb001.dgn

CU 04244

EA 1A6811

TRAFFIC STRIPES, PAVEMENT MARKERS AFTER SLAB REPLACEMENT

SHEET No.	STATION LIMITS	LOCATION	DETAIL No.	PAVEMENT MARKER				PAINT TRAFFIC STRIPE (2-COATS)				
				NON-REFLECTIVE	RETROREFLECTIVE			4"			8"	
				TYPE A	TYPE C	TYPE G	TYPE H	WHITE (BROKEN 34'-14')	WHITE SOLID	YELLOW SOLID	WHITE (BROKEN 12'-3')	WHITE SOLID
				EA				LF				
L-1	"05" 206+89 TO 208+84	L	27B						195			
		L	13M	37		11		420				
	"05" 205+15 TO 206+05	R	27B						90			
		R	13M	8		3		90				
	"05" 206+29 TO 206+59	R	13M	8		2		60				
L-2	"05" 223+22 TO 224+12	R & L	25				3			105		
		R & L	13M	20		11		285				
		R & L	27B						75			
	"05" 225+92 TO 226+37	R	27B						45			
		R	13M	8		4		105				
	"05" 226+91 TO 227+51	R	27B						60			
		R	13M	14		5		150				
	"05" 227+73 TO 227+88	L	37		2						15	
	"05" 228+03 TO 229+38	L	13M	23		8		270				
	"05" 228+73 TO 230+83	R	13M	35		13		435				
L-3	"05" 233+40 TO 234+15	R & L	27B						105			
		R & L	13M	14		7		165				
	"05" 234+54 TO 236+19	R & L	13M	48		18		570				
	"05" 234+84 TO 235+14	R	27B						30			
	"05" 237+46 TO 238+81	R & L	13M	43		16		510				
	"05" 239+28 TO 239+58	R	13M	8		2		60				
	"05" 241+98 TO 244+00	R	14M	14	5			154				
		R	37		8	2					98	
		R	13M	16		7		198				
L-4	"05" 244+00 TO 248+13	R	37		6	2					65	
		R	27B						78			
		R	36			12						270
		R	13M	34		10		413				
	"05" 244+62 TO 245+52	R	13M	12		4		120				
	"05" 246+46 TO 247+51	R	13M	9		3		105				
	"05" 247+82 TO 248+87	R	13M	9		4		105				
	"05" 248+43 TO 249+63	R	27B						120			
		R	13M	10		3		120				
	"05" 245+85 TO 248+70	L	13M	48		14		570				
	"05" 247+81 TO 251+56	L	27B						375			
		L	13M	24		7		286				
	"05" 250+23 TO 253+98	L	13M	51		15		617				
		L	27B						75			
	"05" 250+09 TO 250+54	R	13M	8		4		90				
	"05" 254+07 TO 254+52	R	13M	8		4		90				
	"05" 254+82 TO 256+32	R	27B						150			
		R	13M	13		4		150				
	"05" 256+47 TO 257+07	R	13M	10		4		120				
L-5	"05" 260+38 TO 260+68	R	13M	8		2		60				
	"05" 263+10 TO 270+80	L	27B						120			
		L	13M	128		34		1540				
	"05" 266+02 TO 269+66	R	13M	44		18		510				
SHEET TOTAL				712		277			10439			

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	21	36

REGISTERED CIVIL ENGINEER — DATE 2-25-10

PLANS APPROVAL DATE 3-8-10

REGISTERED PROFESSIONAL ENGINEER — Eric K. Wong — No. 70259 — Exp 9-30-10 — 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.

CALCULATED-DESIGNED BY: ROWAIDA HASHIMI
CHECKED BY: ERIC K. WONG
FUNCTIONAL SUPERVISOR: EDMUND W CHOY
REVISED BY
DATE REVISED
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

PAVEMENT DELINEATION QUANTITIES

PDQ-1

LAST REVISION 02-25-10
DATE PLOTTED => 09-MAR-2010
TIME PLOTTED => 10:04

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a681nc001.dgn
CU 04244
EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	22	36

2-25-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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.

TRAFFIC STRIPES, PAVEMENT MARKERS AFTER SLAB REPLACEMENT (Cont)

SHEET No.	STATION LIMITS	LOCATION	DETAIL No.	PAVEMENT MARKER				PAINT TRAFFIC STRIPE (2-COATS)				
								4"			8"	
				NON-REFLECTIVE	RETROREFLECTIVE			WHITE (BROKEN 34'-14')	WHITE SOLID	YELLOW SOLID	WHITE (BROKEN 12'-3')	WHITE SOLID
				TYPE A	TYPE C	TYPE G	TYPE H					
				EA				LF				
L-6	"05" 272+18 TO 274+13	L	13M	33		10		390				
	"05" 275+67 TO 281+55	L	13M	120		33		1428				
		L	25				9			390		
	"05" 281+28 TO 286+00	L	27B						358			
		L	13M	81		24		961				
		L	25				4			150		
	"05" 275+20 TO 277+30	R	13M	35		10		420				
	"05" 277+90 TO 281+80	R	13M	98		27		1170				
		R	27B						390			
		R	25				9			390		
	"05" 281+80 TO 286+00	R	13M	65		22		780				
		R	27B						105			
L-7	"05" 286+00 TO 286+92	L	13M	8		3		92				
		L	27B						92			
	"05" 286+22 TO 288+71	R	13M	18		8		90				
	"05" 292+00 TO 294+55	L	36			12						255
		L	13M	27		8		330				
	"05" 296+02 TO 299+00	L	13M	25		7		298				
	"05" 291+88 TO 297+63	R	27B						575			
		R	13M	132		36		1581				
		R	14M	12	6			144				
		R	25				13			575		
L-8	"05" 299+00 TO 302+02	L	27B						302			
		L	13M	39		13		452				
	"05" 302+02 TO 303+52	L	14M	24	8			150				
	"05" 303+81 TO 306+36	L	13M	38		14		450				
	"05" 299+40 TO 300+15	R	13M	13		6		150				
	"05" 300+82 TO 301+42	R	27B						60			
		R	13M	5		2		60				
SHEET TOTAL				773	284			12588				

REVISED BY | DATE REVISED
ROWAIDA HASHIMI | ERIC K. WONG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
EDMUND W CHOY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN

PAVEMENT DELINEATION QUANTITIES

PDQ-2

LAST REVISION 02-25-10 | DATE PLOTTED => 09-MAR-2010 | TIME PLOTTED => 10:04

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s126853
DGN FILE => 41a681nc002.dgn

CU 04244

EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	23	36

2-25-10
REGISTERED CIVIL ENGINEER DATE

3-8-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Eric K. Wong
No. 70259
Exp 9-30-10
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.

TRAFFIC STRIPES, PAVEMENT MARKERS

STATION LIMITS	DETAIL No.	PAVEMENT MARKER				PAINT TRAFFIC STRIPE (2-COATS)				
						4"			8"	
		NON-REFLECTIVE	RETROREFLECTIVE			WHITE (BROKEN 34'-14')	WHITE SOLID	YELLOW SOLID	WHITE (BROKEN 12'-23')	WHITE SOLID
		TYPE A	TYPE C	TYPE G	TYPE H					
		EA				LF				
SOUTHBOUND										
"05" 205+58 TO 209+14	25				9			356		
	13M	53		18		636				
	14M	36	12			432				
	27B						356			
"05" 223+22 TO 307+00	25				175			8378		
	13M	1987		497		23838				
	14M	108	36			1296				
	27B						6476			
	37		18	6					310	
	36			34						810
SUBTOTAL		2184	805			42888				
NORTHBOUND										
"05" 204+86 TO 209+14	25				9			428		
	13M	107		30			1284			
	27B						428			
"05" 223+22 TO 307+00	25				175			8378		
	13M	1987		497		23838				
	14M	108	36			1296				
	27B						7453			
	37		12	2					162	
	36			24						540
SUBTOTAL		2202	785			43807				
SHEET TOTAL		4386	1590			86695				
TOTAL FROM SHEET PDQ-1		712	277			10439				
TOTAL FROM SHEET PDQ-2		773	284			12588				
GRAND TOTAL		5871	2151			109722				

REMOVE PAVEMENT MARKER

STATION LIMITS	DETAIL No.	REMOVE PAVEMENT MARKER
		EA
SOUTHBOUND		
"05" 205+58 TO 209+14	25	9
	13	119
"05" 223+22 TO 307+00	25	175
	13, 14	2628
	37	24
	36	34
SUBTOTAL		2989
NORTHBOUND		
"05" 204+86 TO 209+14	25	10
	13	137
"05" 223+22 TO 307+00	25	175
	13, 14	2628
	37	14
	36	24
SUBTOTAL		2988
TOTAL		5977

PAVEMENT DELINEATION QUANTITIES

PDQ-3

REVISED BY | DATE REVISED
ROWAIDA HASHIMI | ERIC K. WONG
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: EDMUND W CHOY
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION | DATE PLOTTED => 09-MAR-2010
02-25-10 | TIME PLOTTED => 10:05

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s126853
DGN FILE => 41a681nc003.dgn
CU 04244
EA 1A6811

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	28.2/29.9	24	36

REGISTERED CIVIL ENGINEER — 2-25-10 DATE

PLANS APPROVAL DATE — 3-8-10

Eric K. Wong No. 70259 Exp 9-30-10 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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

REPLACE CONCRETE PAVEMENT

SHEET No.	STATION LIMITS	DIRECTION	No. OF SLABS [N] (LANE No.)				LENGTH OF SLAB [N]	RAPID STRENGTH CONCRETE
			LANE 1	LANE 2	LANE 3	LANE 4	FT	VOLUME (CY)
L-1	205+15 TO 206+05	NB				6	15	40.00
L-1	206+29 TO 206+59	NB		2			15	13.33
L-1	206+89 TO 208+84	SB			13	13	15	173.33
L-1	208+15 TO 208+45	SB		2			15	13.33
L-2	223+22 TO 223+37	SB	1	1	1	1	15	30.16
L-2	223+22 TO 224+12	NB	6	6			15	90.48
L-2	223+22 TO 224+82	NB			4	4	15	60.29
L-2	225+92 TO 226+07	NB		1			15	6.67
L-2	225+92 TO 226+37	NB			3	3	15	40.00
L-2	226+91 TO 227+21	NB		2			15	13.33
L-2	226+91 TO 227+51	NB			4	4	15	53.33
L-2	227+73 TO 227+88	SB				1	15	6.67
L-2	228+03 TO 229+38	SB			9		15	60.00
L-2	228+73 TO 230+83	NB			14		15	93.33
L-2	229+68 TO 229+83	NB		1			15	6.67
L-3	232+03 TO 232+18	NB				1	15	6.67
L-3	233+40 TO 234+15	SB				5	15	33.33
L-3	233+64 TO 234+09	NB			3		15	20.00
L-3	233+79 TO 234+09	NB				2	15	13.33
L-3	234+54 TO 236+19	NB			11		15	73.33
L-3	234+84 TO 235+14	NB				2	15	13.33
L-3	234+66 TO 235+86	SB			8		15	53.33
L-3	237+46 TO 238+81	NB			9		15	60.00
L-3	237+60 TO 238+80	SB			8		15	53.33
L-3	239+28 TO 239+58	NB			2		15	13.33
L-3 TO L-4	241+98 TO 248+13	NB				40	15	266.67
L-3	242+16 TO 243+66	NB			10		15	66.67
L-4	244+62 TO 245+52	NB			6		15	40.00
L-4	244+94 TO 245+24	NB			2		15	13.33
L-4	246+46 TO 247+51	NB			7		15	46.67
L-4	247+82 TO 248+87	NB			7		15	46.67
L-4	248+43 TO 249+63	NB				8	15	53.33
L-4	245+85 TO 248+70	SB			20		15	133.33
L-4	247+81 TO 251+56	SB				25	15	166.67
L-4	251+80 TO 252+55	SB				5	15	33.33
L-4	250+23 TO 253+98	SB			25		15	166.67
L-4	250+09 TO 250+54	NB			3		15	20.00
L-4	254+07 TO 254+52	NB			3		15	20.00
L-4	254+82 TO 256+32	NB				10	15	66.67
L-4	256+47 TO 257+07	NB			4		15	26.67
L-5	260+38 TO 260+68	NB			2		15	13.33
L-5	263+10 TO 270+80	SB			51		15	340.00
L-5	266+02 TO 266+92	NB			6		15	40.00
L-5	266+51 TO 267+71	SB				8	15	53.33
L-5	267+05 TO 267+50	NB			3		15	20.00
L-5	268+46 TO 269+66	NB			8		15	53.33
L-6	272+18 TO 274+13	SB			13		15	86.67
L-6	275+20 TO 277+30	NB			14		15	93.33
L-6	275+67 TO 280+17	SB			30		15	200.00
L-6	277+65 TO 281+55	SB	26	26			15	391.91
L-6	277+90 TO 281+80	NB	26	26	26	26	15	783.81
L-6	281+28 TO 283+68	SB			16		15	106.67
L-6	282+18 TO 283+68	SB				10	15	66.67
L-6	283+02 TO 284+07	NB				7	15	46.67
L-6	283+68 TO 285+18	SB	13	13	13	13	15	391.91
L-6	284+07 TO 284+67	NB			4		15	26.67
L-6 TO L-7	284+80 TO 286+00	NB			8		15	53.33
L-6 TO L-7	285+42 TO 286+92	SB				10	15	66.67
L-7	286+22 TO 286+52	NB			2		15	13.33
L-7	288+11 TO 288+71	NB			4		15	26.67
L-7	291+88 TO 297+63	NB	38	38	38	38	15	1145.57
L-7	292+00 TO 294+55	SB				17	15	113.33
L-7	293+66 TO 294+41	SB			5		15	33.33
L-7 TO L-8	296+02 TO 302+02	SB				40	15	266.67
L-8	299+40 TO 300+15	NB			5		15	33.33
							SUB-TOTAL	6674.11

NOTES:

1. EXACT LOCATION SHALL BE DETERMINED BY THE ENGINEER.
2. [N] NOT A SEPARATE PAY ITEM. FOR INFORMATION ONLY.

REPLACE CONCRETE PAVEMENT

SHEET No.	STATION LIMITS	DIRECTION	No. OF SLABS [N] (LANE No.)				LENGTH OF SLAB [N]	RAPID STRENGTH CONCRETE
			LANE 1	LANE 2	LANE 3	LANE 4	FT	VOLUME (CY)
L-8	300+82 TO 301+42	NB				4	15	26.67
L-8	299+48 TO 299+78	SB			2		15	13.33
L-8	300+36 TO 301+11	SB			5		15	33.33
L-8	301+57 TO 303+52	SB			13		15	86.67
L-8	303+81 TO 304+41	SB			4		15	26.67
L-8	304+71 TO 306+36	SB			11		15	73.33
								260.00
							SUB-TOTAL	6674.11
							TOTAL	6935

GRIND EXISTING CONCRETE PAVEMENT

SHEET No.	STATION LIMITS	AREA
		SQYD
L-1 TO L-8	204+86 TO 307+00	99300

REPAIR SPALLED JOINTS

SHEET No.	STATION LIMITS	AREA
		SQYD
L-1 TO L-8	204+86 TO 307+00	4965

SUMMARY OF QUANTITIES

Q-1

REVISED BY | DATE REVISED
BHUPENDRA SHAH | THANH DOAN
CALCULATEDTO DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
EDMUND W. CHOY

STATE OF CALIFORNIA TO DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION | DATE PLOTTED => 09-MAR-2010
02-25-10 | TIME PLOTTED => 10:06

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => s126853 | DGN FILE => 41a681pa001.dgn | CU 04244 | EA 1A6811

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	25	36

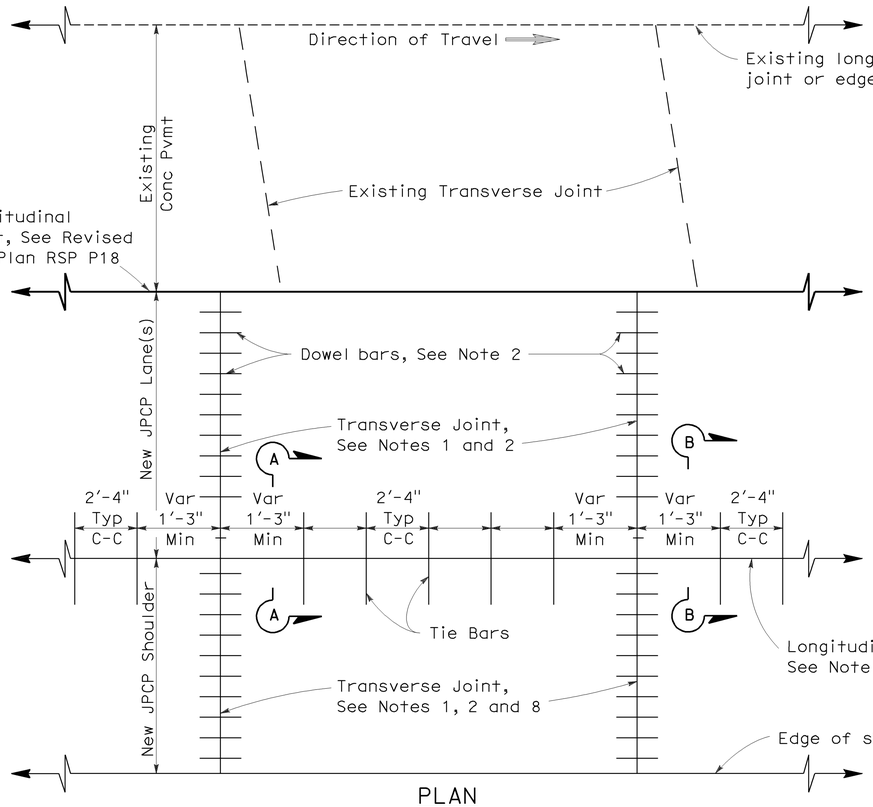
William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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.

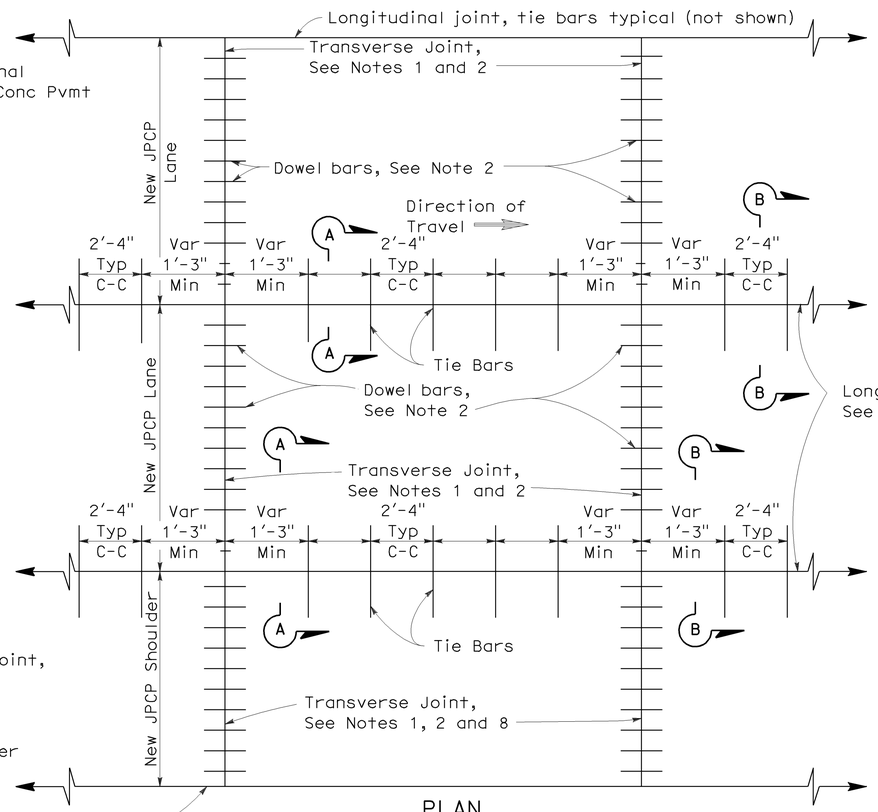
To accompany plans dated 3-8-10



PLAN

LANE/SHOULDER ADDITION OR RECONSTRUCTION

See Notes 6 and 7



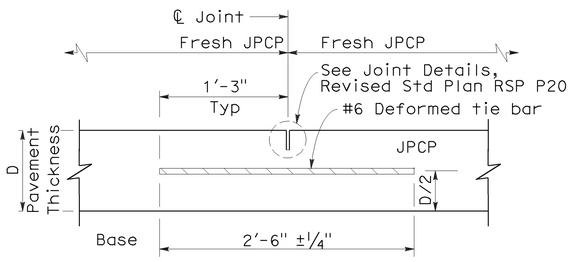
PLAN

NEW CONSTRUCTION

See Notes 6 and 7

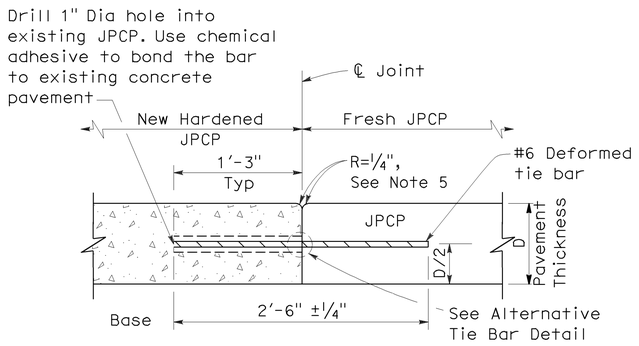
NOTES:

1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



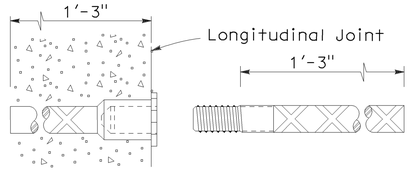
SECTION A-A

LONGITUDINAL CONTRACTION JOINT



SECTION B-B

LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL

(Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

2006 REVISED STANDARD PLAN RSP P1

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	26	36

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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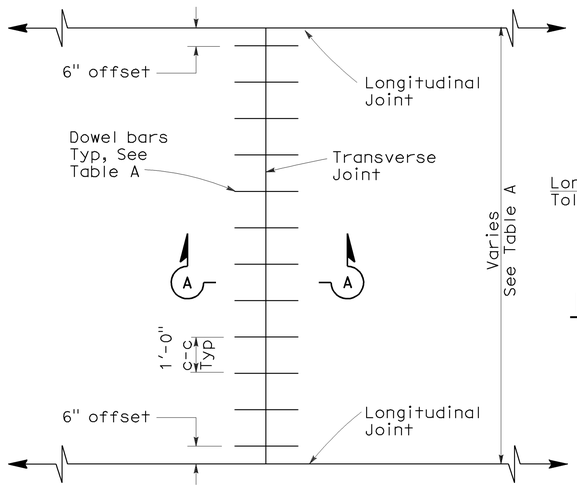
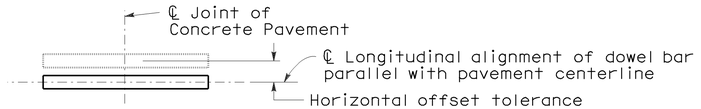
To accompany plans dated 3-8-10

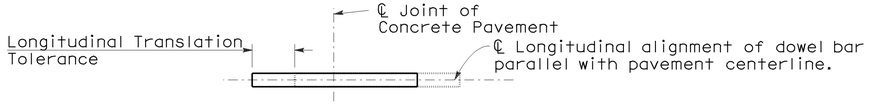


TRANSVERSE JOINT DOWEL BAR LAYOUT



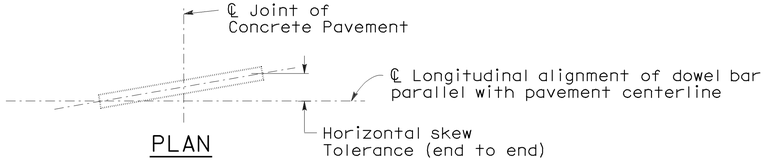
PLAN

HORIZONTAL OFFSET TOLERANCE



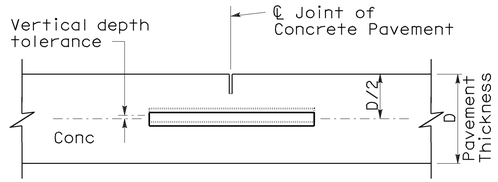
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



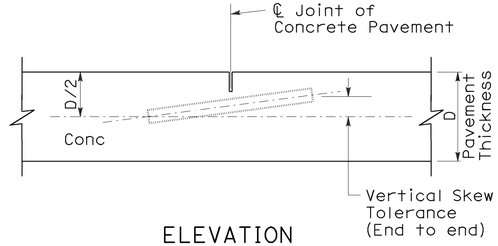
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE



ELEVATION

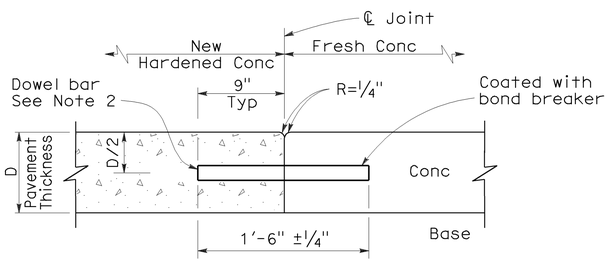
VERTICAL SKEW TOLERANCE

NOTES:

1. See Revised Standard Plan RSP P1 for typical dowel bar placement and locations.
2. 1½" Dia smooth dowel bars are to be used with a pavement thickness, D, equal to or greater than 0.70 feet. For pavement thickness, D, less than 0.70 feet, use 1¼" Dia smooth dowel bars.
3. For widths not shown, see Project Plans.
4. If fresh concrete pavement is placed adjacent to existing concrete pavement, the top corner of the existing concrete pavement does not need to be rounded to the ¼" radius, as shown.

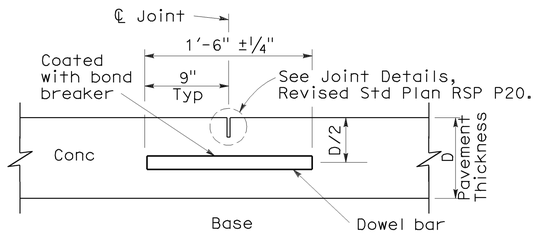
TABLE A (See Note 3)

Dowel Bar Transverse Spacing Table	
Width between Longitudinal Joints	Number of Dowels between Longitudinal Joints
14'-0"	14
13'-0"	13
12'-0"	12
11'-0"	11
10'-0"	10
8'-0"	8
5'-0"	5
4'-0"	4

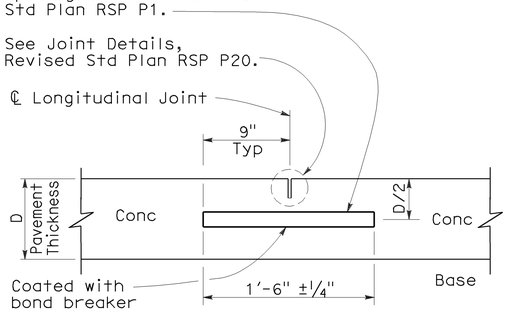


SECTION A-A

TRANSVERSE CONSTRUCTION JOINT DETAIL

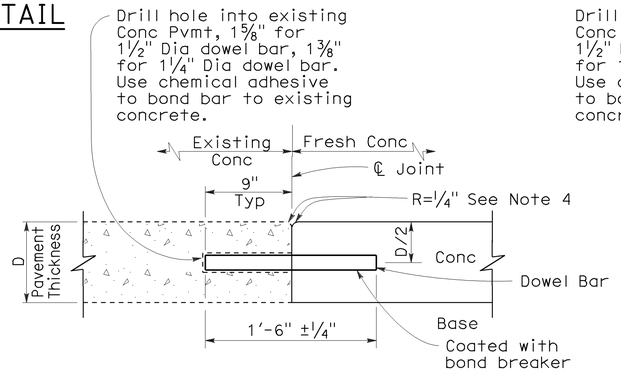


TRANSVERSE CONTRACTION JOINT



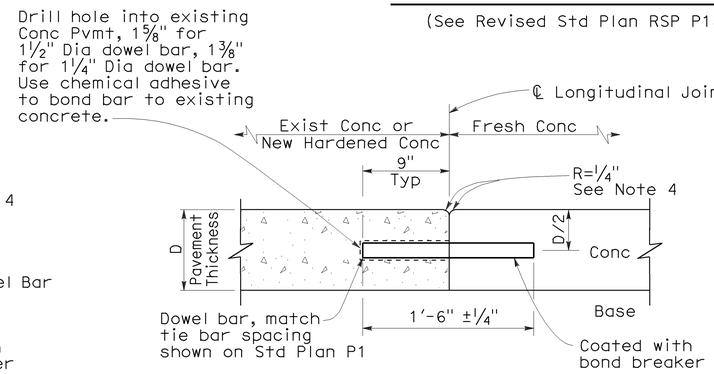
LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)



TRANSVERSE CONSTRUCTION JOINT FOR EXISTING CONCRETE PAVEMENT

(Drill and bond locations)



LONGITUDINAL CONSTRUCTION JOINT WITH DOWEL BARS

(See Revised Std Plan RSP P18)

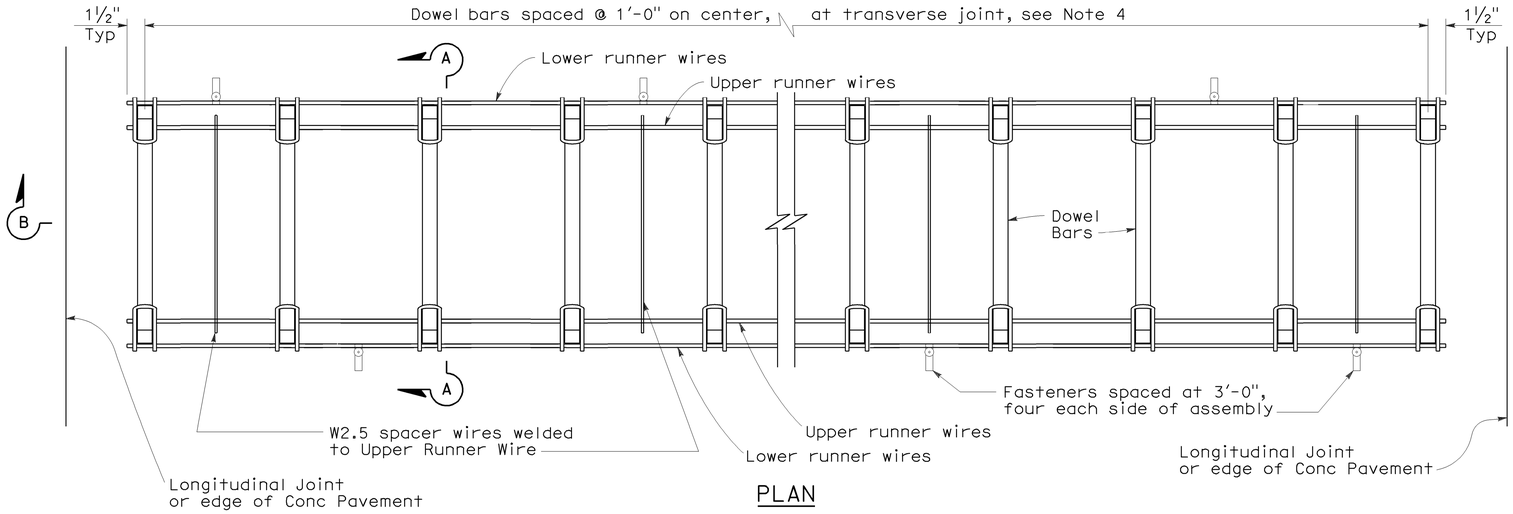
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR DETAILS

NO SCALE

RSP P10 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P10 DATED MAY 1, 2006 - PAGE 124 OF THE STANDARD PLANS BOOK DATED MAY 2006.

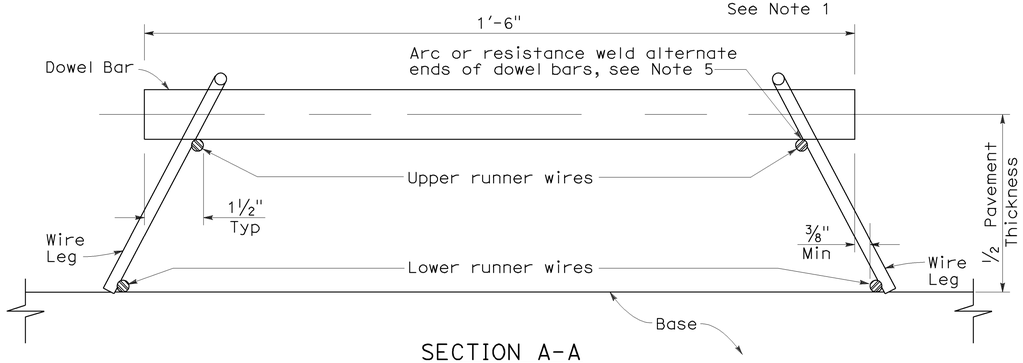
REVISED STANDARD PLAN RSP P10



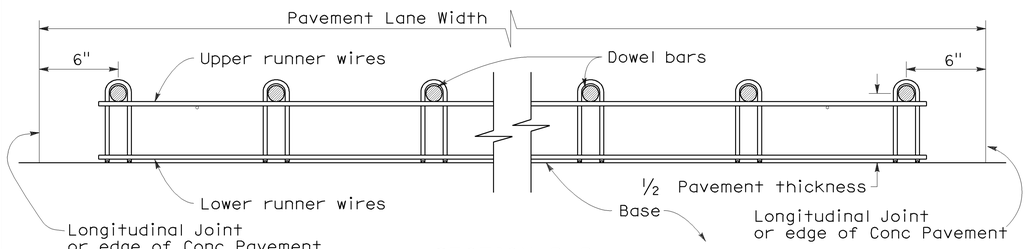
PLAN

DOWEL BAR BASKET (TRANSVERSE JOINT)

See Note 1

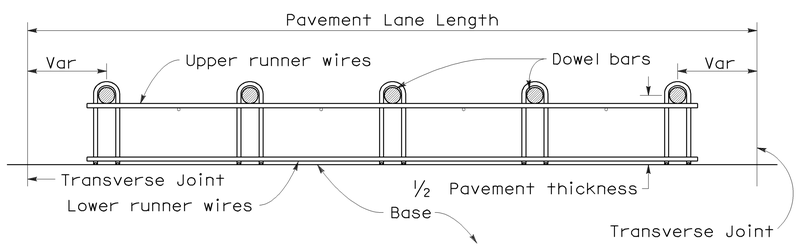


SECTION A-A



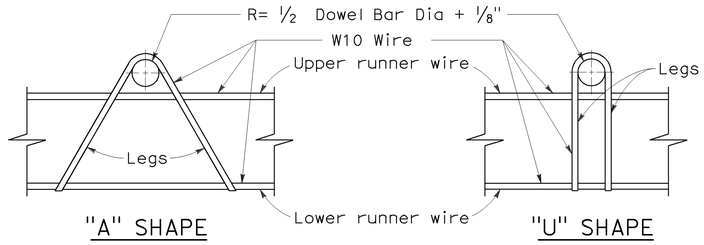
SECTION B-B

See Note 1



SECTION C-C

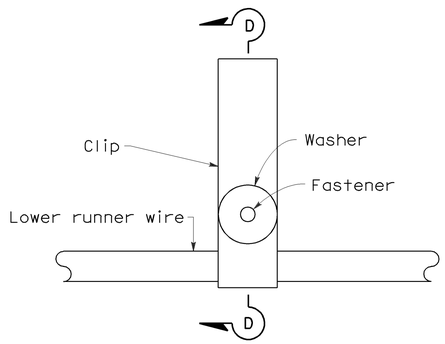
See Notes 1 and 4



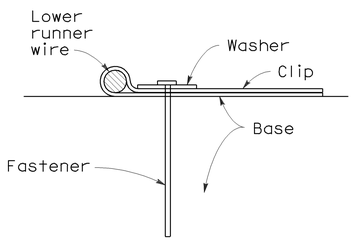
"A" SHAPE

"U" SHAPE

ASSEMBLY FRAME DETAILS

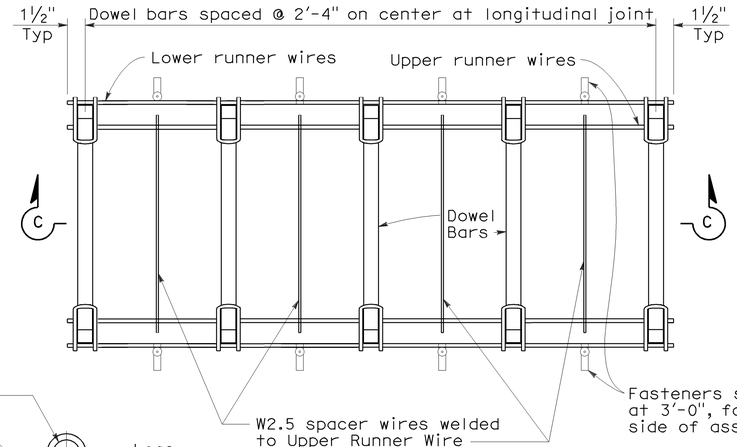


PLAN



SECTION D-D

FASTENER DETAIL



PLAN

DOWEL BAR BASKET (LONGITUDINAL JOINT)

See Note 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	27	36

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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

NOTES:

1. "U" frame shape assembly shown. "U" frame shape or "A" frame shape are acceptable.
2. Wire sizes shown are minimum required.
3. All wire intersections are to be resistance welded.
4. Use tie bar spacing for longitudinal dowel bar locations. See Revised Std Plans RSPs P1, P2, and P3 for tie bar requirements.
5. Weld may be at top or bottom of dowel bar.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-DOWEL BAR BASKET DETAILS

NO SCALE

RSP P12 DATED MAY 15, 2009 SUPERSEDES RSP P12 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P12 DATED MAY 1, 2006 - PAGE 125 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P12

2006 REVISED STANDARD PLAN RSP P12

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	28	36

William K. Farnbach
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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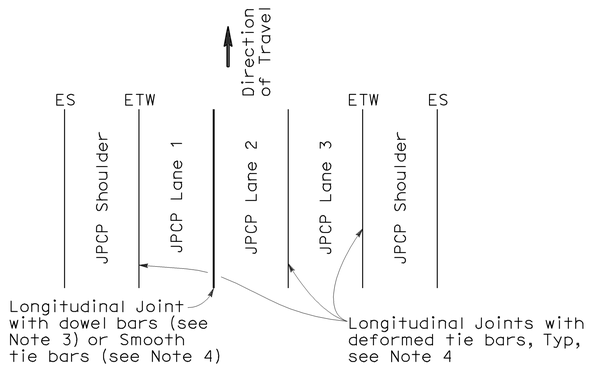
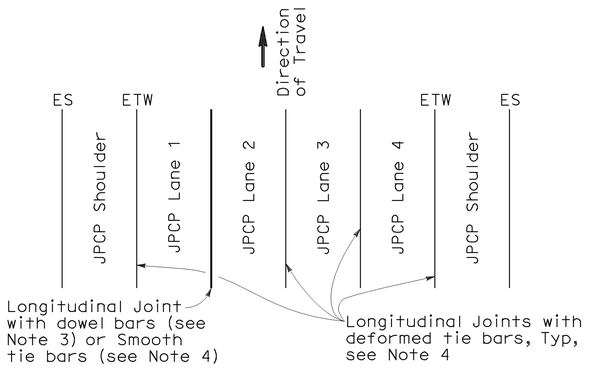
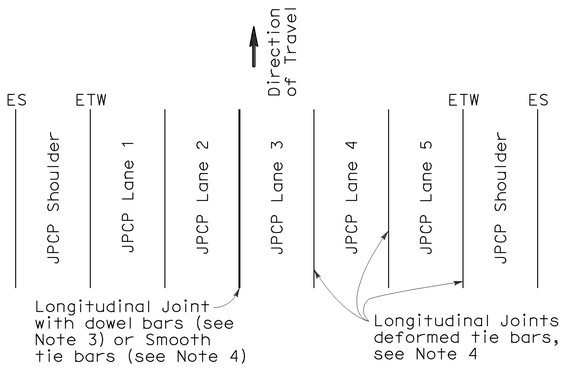
To accompany plans dated 3-8-10



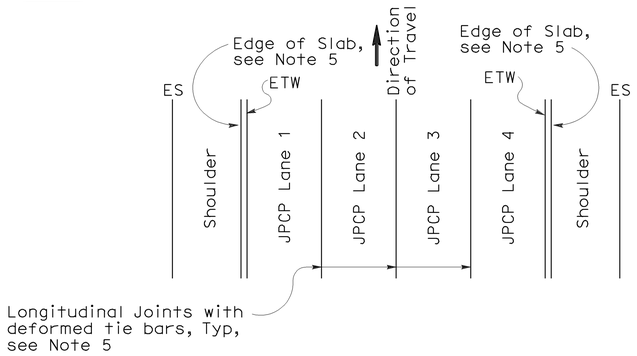
3 LANES WITH TIED CONCRETE SHOULDERS
PLAN



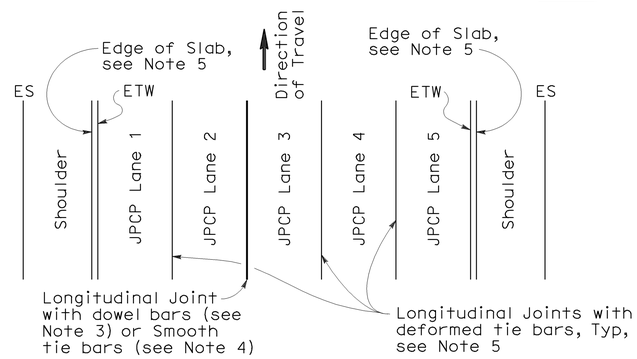
4 LANES WITH TIED CONCRETE SHOULDERS
PLAN



5 LANES WITH TIED CONCRETE SHOULDERS
PLAN



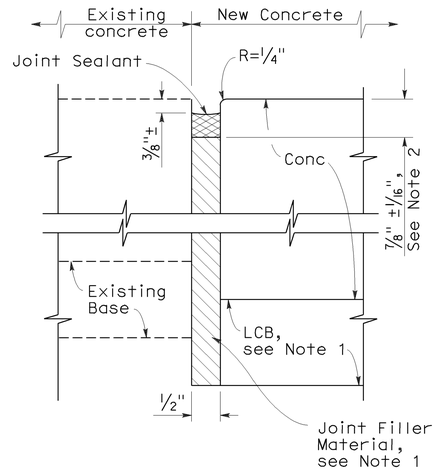
4 LANES OR LESS WITH WIDENED SLAB
PLAN



5 LANES WITH WIDENED SLAB
PLAN

NOTES:

1. Where Lean Concrete Base is not used as base material, the joint filler material used for the longitudinal isolation joint shall only extend to the bottom of the new concrete slab. See Detail A.
2. Use $\frac{5}{8}$" $\pm\frac{1}{16}$" dimension for silicone sealant.
3. See Revised Standard Plan RSP P10 for longitudinal joint with dowel bars.
4. See Revised Standard Plan RSP P1.
5. See Revised Standard Plan RSP P2.

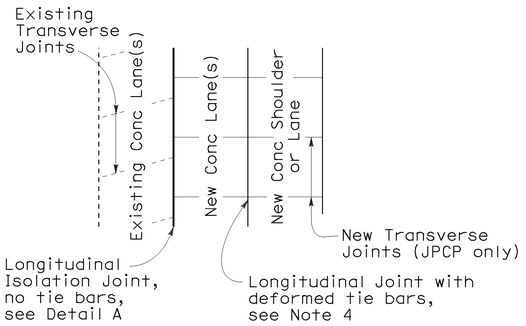


DETAIL A

ISOLATION JOINT

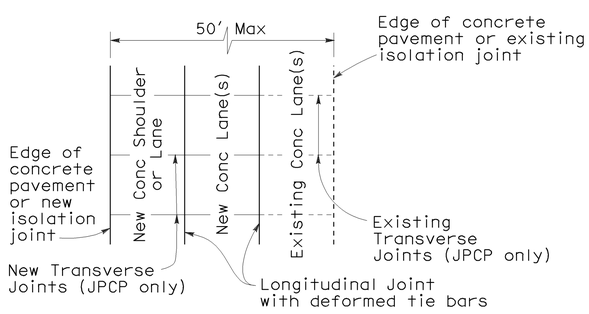
NEW CONSTRUCTION

Location of Longitudinal Joints
(For JPCP)



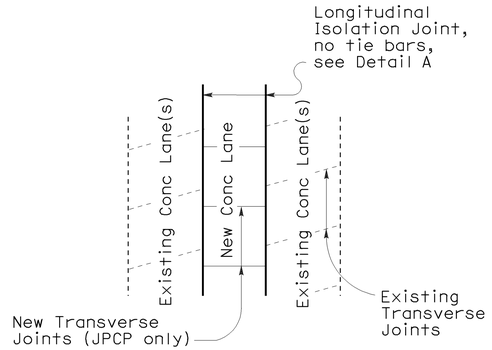
CASE 1
PLAN

Transverse Joints do not align between new and existing



CASE 2
PLAN

Transverse Joints align between new and existing



CASE 3 (INTERIOR LANE REPLACEMENT)
PLAN

Transverse Joints do not align between new and existing

LANE/SHOULDER ADDITION OR RECONSTRUCTION

(For JPCP and CRCP)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-LANE SCHEMATICS AND ISOLATION JOINT DETAIL

NO SCALE

RSP P18 DATED JUNE 5, 2009 SUPERSEDES RSP P18 DATED MAY 15, 2009, RSP P18 DATED NOVEMBER 17, 2006 AND STANDARD PLAN P18 DATED MAY 1, 2006 - PAGE 127 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P18

2006 REVISED STANDARD PLAN RSP P18

5-14-09

NOTE:

1. Tie bars, dowel bars, and reinforcement are not shown in joint seal details, see Revised Standard Plans RSP P1, RSP P3, RSP P10, RSP P35, RSP P45, or RSP P46 as applicable.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	29	36

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — William K. Farnbach — No. C49042 — Exp. 9-30-10 — CIVIL — STATE OF CALIFORNIA

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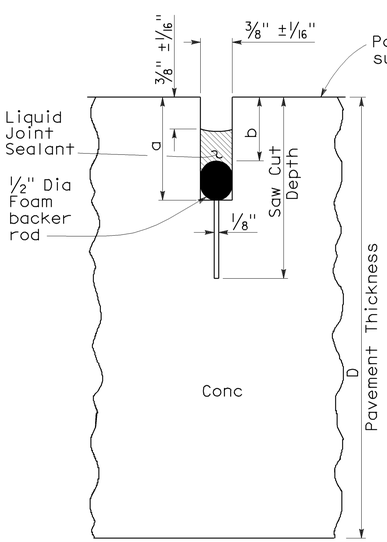
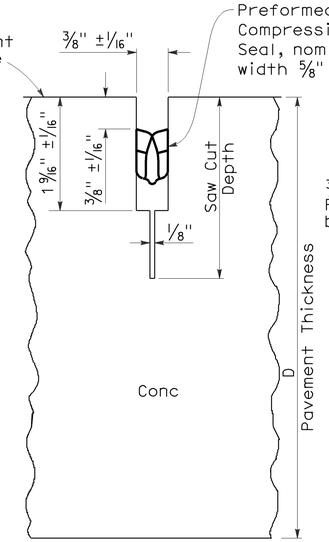
To accompany plans dated 3-8-10



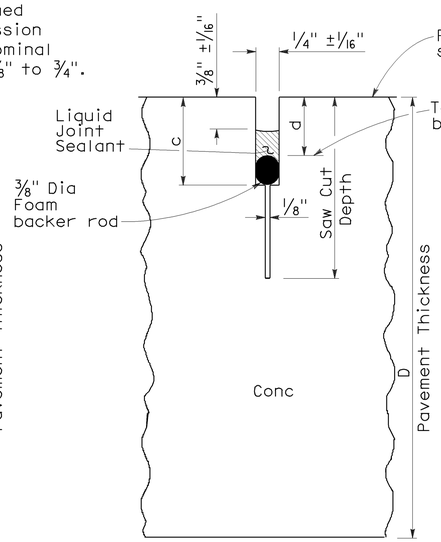
LIQUID SEALANT



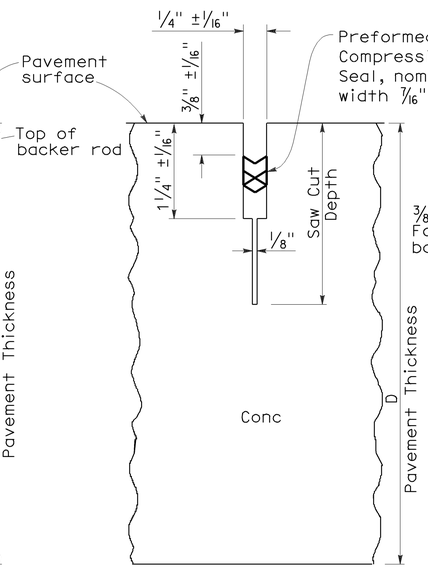
COMPRESSION SEAL

TYPE A1

Transverse Contraction Joints



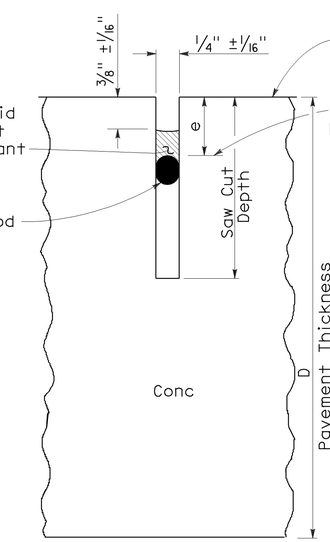
LIQUID SEALANT



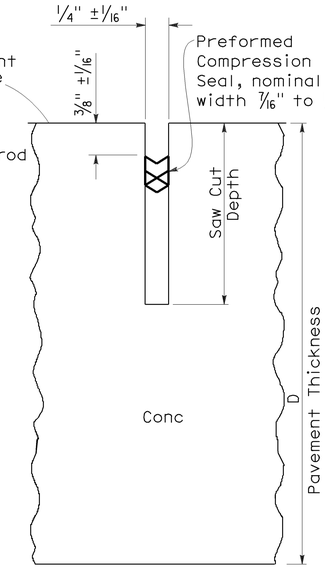
COMPRESSION SEAL

TYPE A2

Longitudinal Contraction Joints



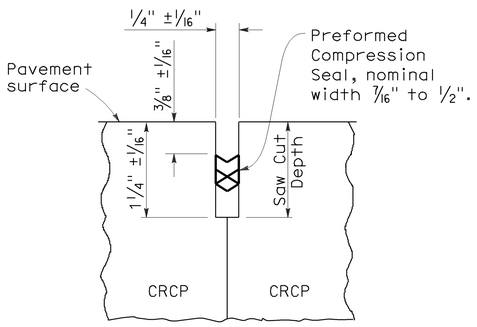
LIQUID SEALANT



COMPRESSION SEAL

TYPE B

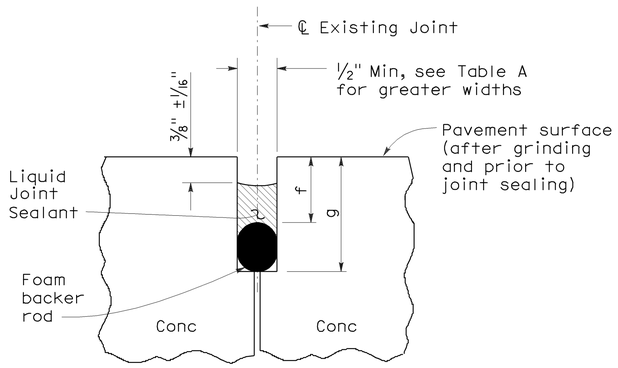
Longitudinal or Transverse Contraction Joint



COMPRESSION SEAL

TYPE C

Transverse and Longitudinal Construction Joints (For CRCP)



LIQUID SEALANT

TYPE R

Retrofit Transverse and Longitudinal Joints

LIQUID SEALANT RESERVOIR DEPTH

LIQUID SEALANT MATERIAL	3/8" Joint Width Type A1		1/4" Joint Width Type A2		1/4" Joint Width Type B
	DIMENSION		DIMENSION		DIMENSION
	a	b	c	d	e
SILCONE	1" ±1/16"	5/8" ±1/16"	15/16" ±1/16"	9/16" ±1/16"	9/16" ±1/16"
ASPHALT RUBBER	1 3/16" ±1/16"	3/4" ±1/16"	1 1/16" ±1/16"	11/16" ±1/16"	11/16" ±1/16"

TABLE A (TYPE R JOINT)

Sawn Joint Width	Backer Rod Diameter ± 1/16"	DIMENSION "f"	DIMENSION "g"
1"	1 5/16"	7/8"	2 1/4"
7/8"	1 3/16"	13/16"	2"
3/4"	1"	3/4"	1 3/4"
5/8"	7/8"	11/16"	1 1/2"
1/2"	11/16"	5/8"	1 1/4"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PAVEMENT-JOINT DETAILS

NO SCALE

RSP P20 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P20 DATED MAY 1, 2006 - PAGE 128 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P20

2006 REVISED STANDARD PLAN RSP P20

5-8-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	30	36

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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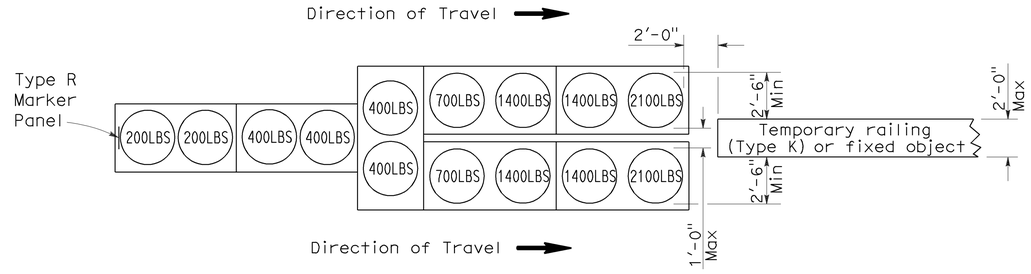
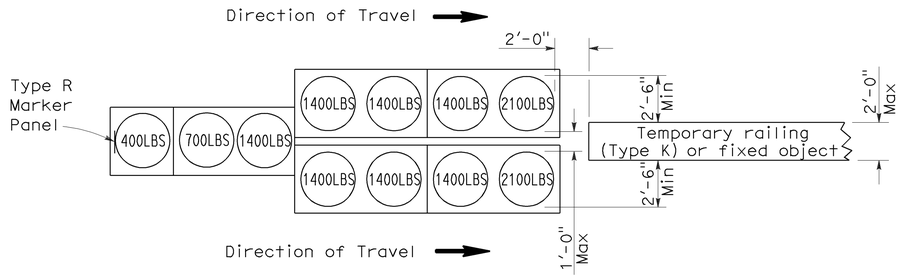
To accompany plans dated 3-8-10



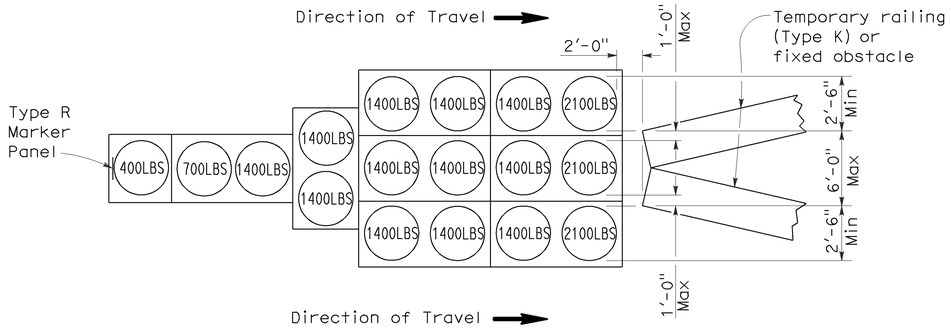
ARRAY 'TU14'

Approach speed 45 mph or more



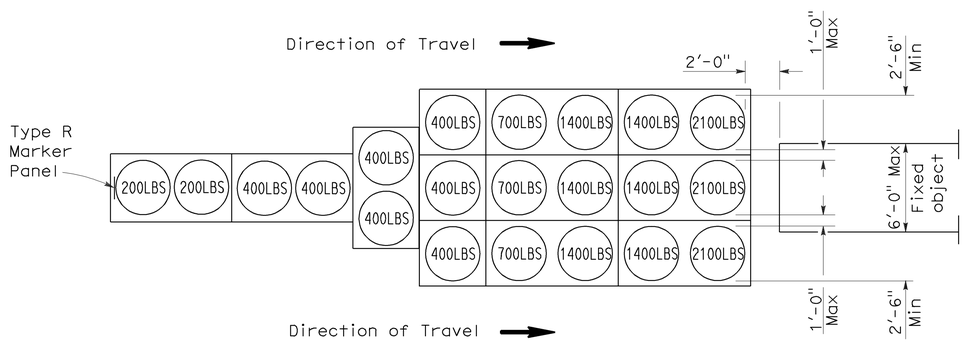
ARRAY 'TU11'

Approach speed less than 45 mph



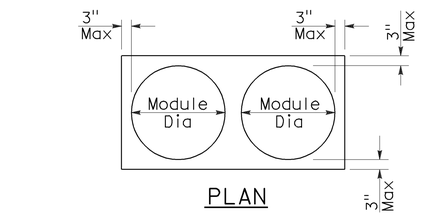
ARRAY 'TU17'

Approach speed less than 45 mph

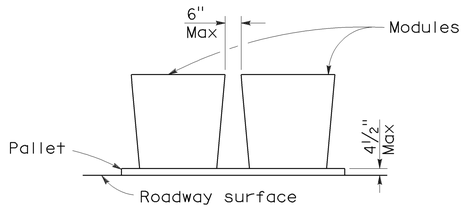


ARRAY 'TU21'

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	Ala	880	28.2/29.9	31	36

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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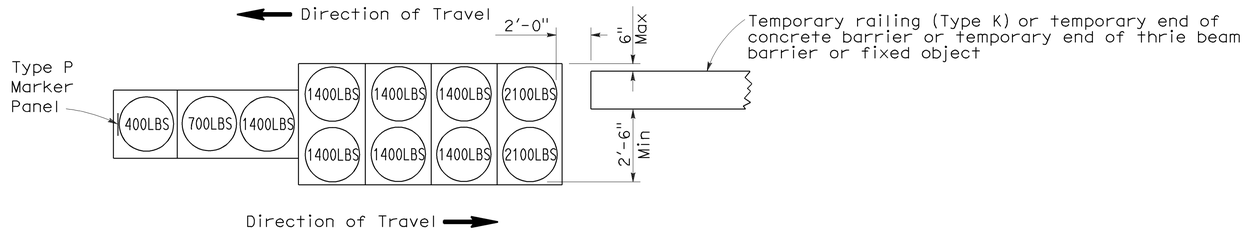
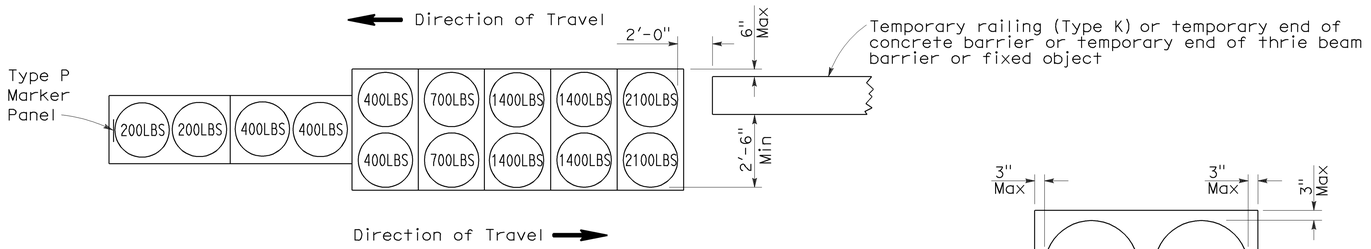
To accompany plans dated 3-8-10



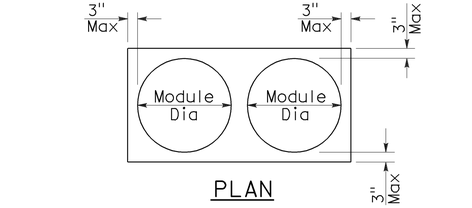
ARRAY 'TB11'

Approach speed less than 45 mph

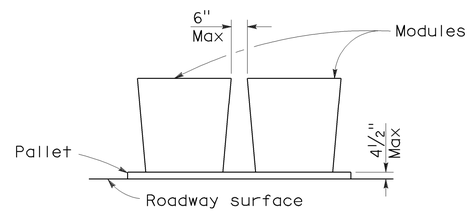


ARRAY 'TB14'

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	Ala	880	28.2/29.9	32	36

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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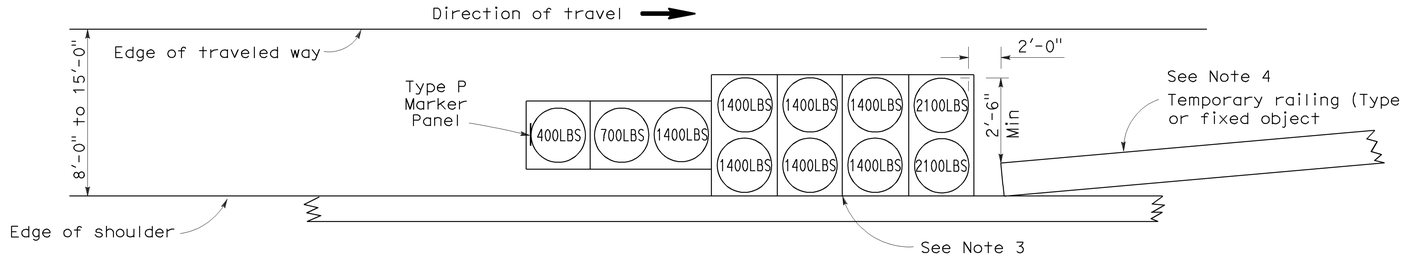
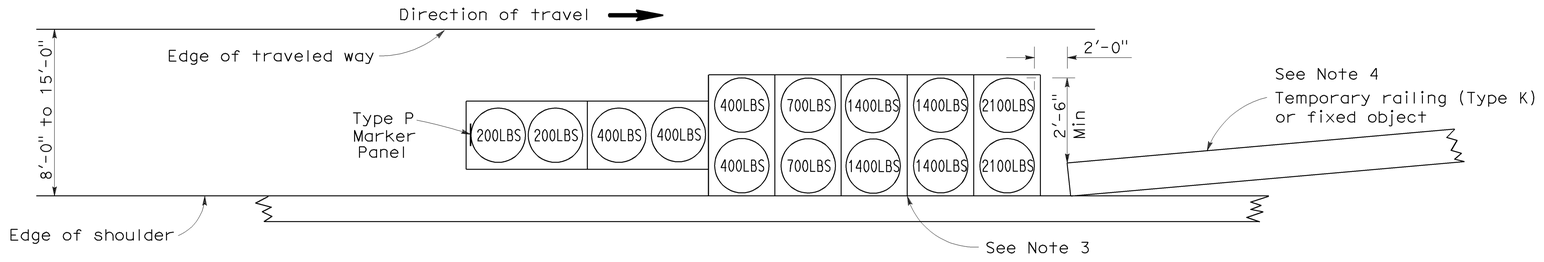
To accompany plans dated 3-8-10



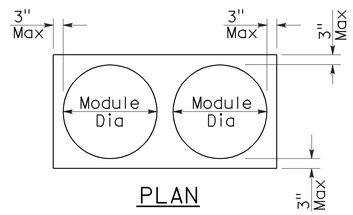
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

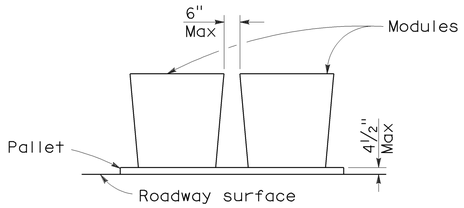


ARRAY 'TS14'

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	Ala	880	28.2/29.9	33	36

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS Approval DATE

LICENSED LANDSCAPE ARCHITECT
Robert B. Schott 3885
Registration Date
11-04-08
Renewal Date
08-11-08
Date
STATE OF CALIFORNIA

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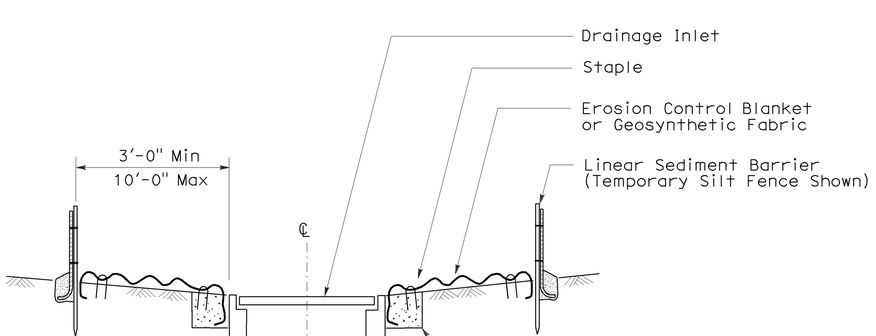
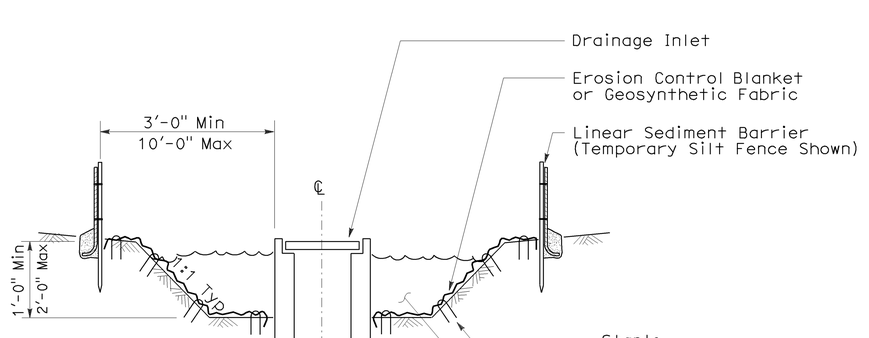
To accompany plans dated 3-8-10



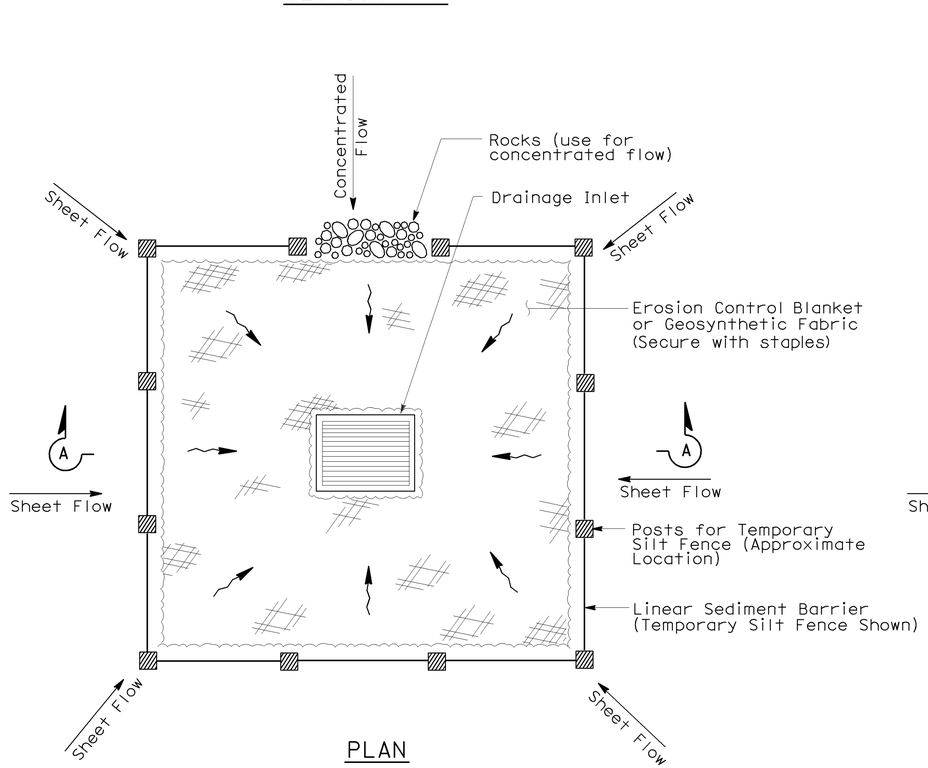
SECTION A-A



SECTION B-B

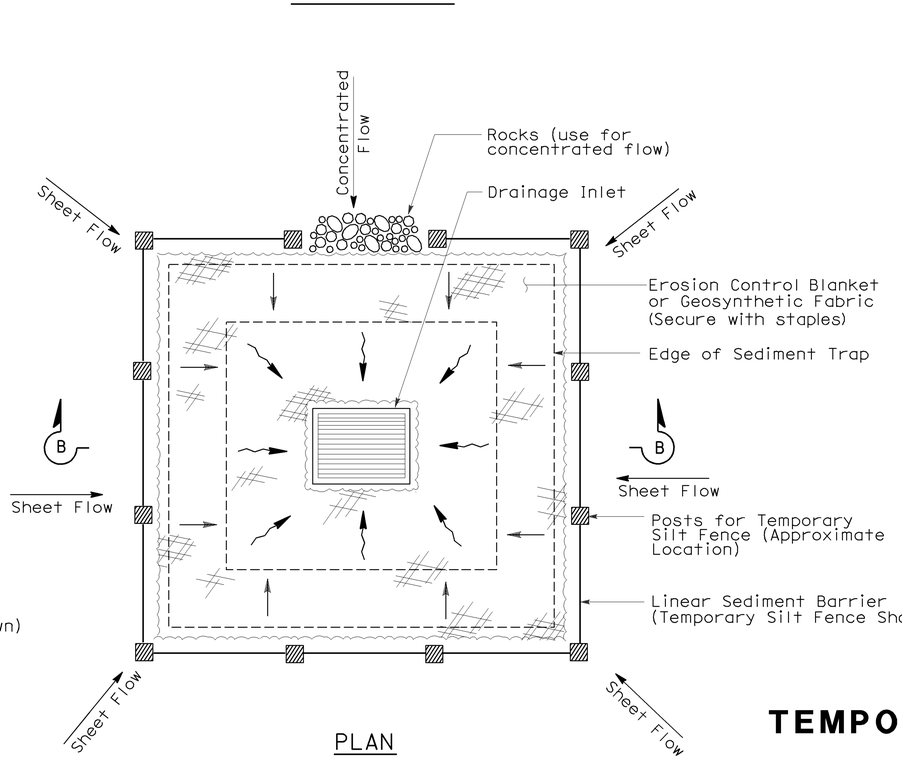
NOTES:

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



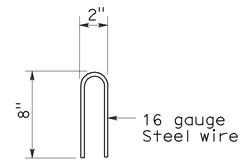
PLAN

TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 1)



PLAN

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)

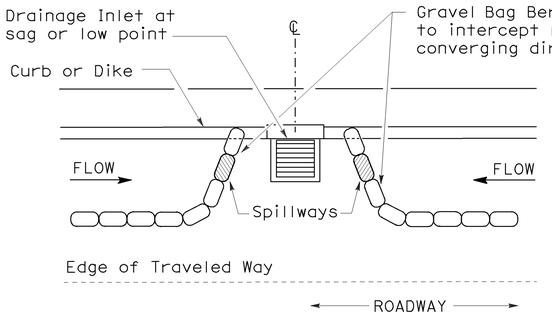
NO SCALE

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

NEW STANDARD PLAN NSP T61

2006 NEW STANDARD PLAN NSP T61

7-11-08



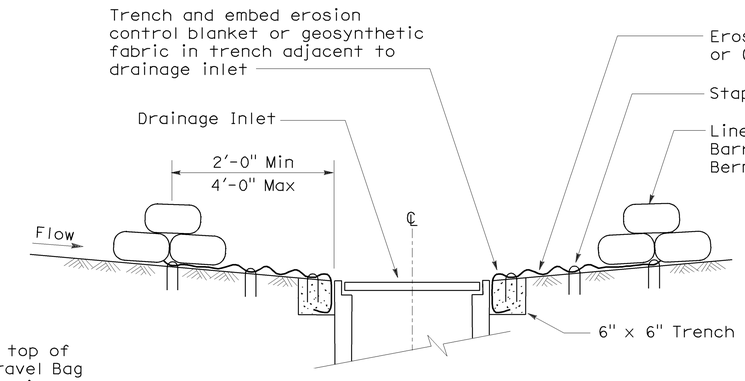
PLAN

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′

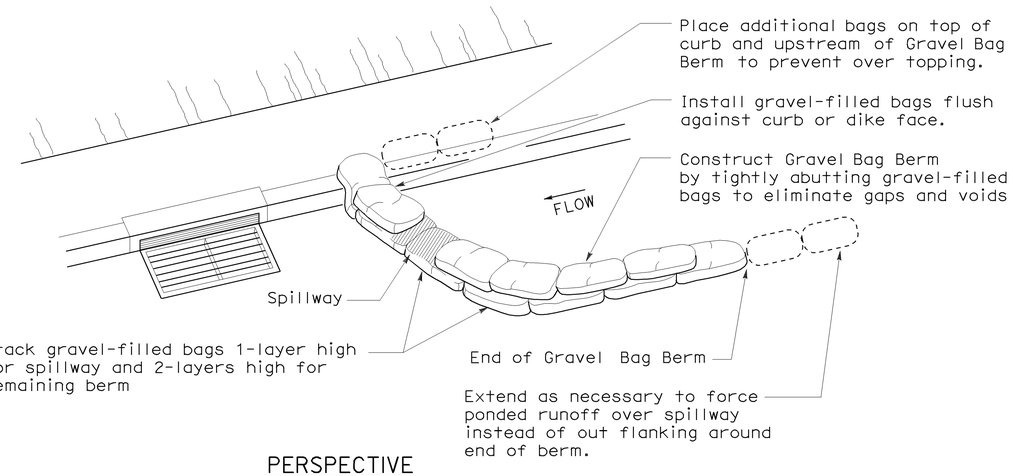
For slope of less than 1%, install barriers only if erosion/sediment is prevalent



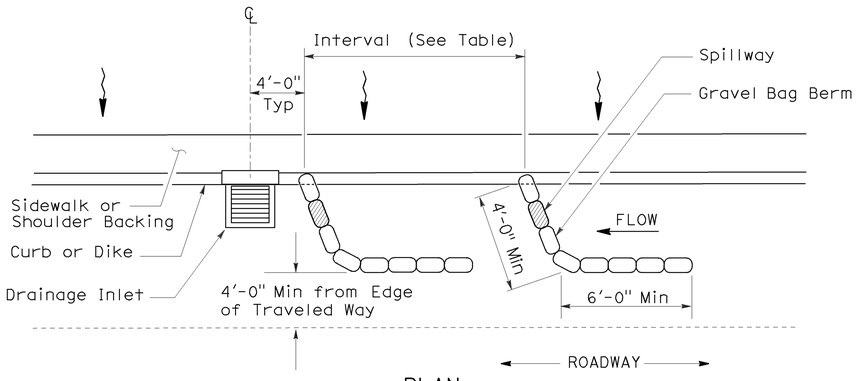
SECTION A-A

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.

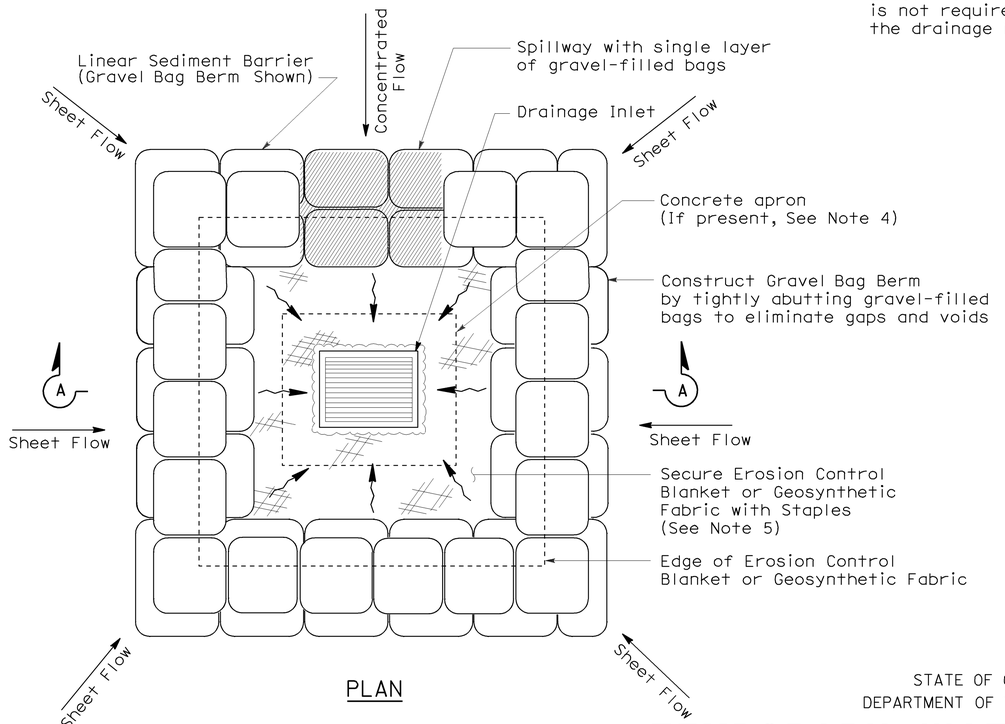


PERSPECTIVE



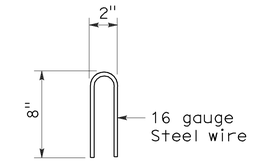
PLAN

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



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Ala	880	28.2/29.9	34	36

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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

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To accompany plans dated 3-8-10

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	Ala	880	28.2/29.9	35	36

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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

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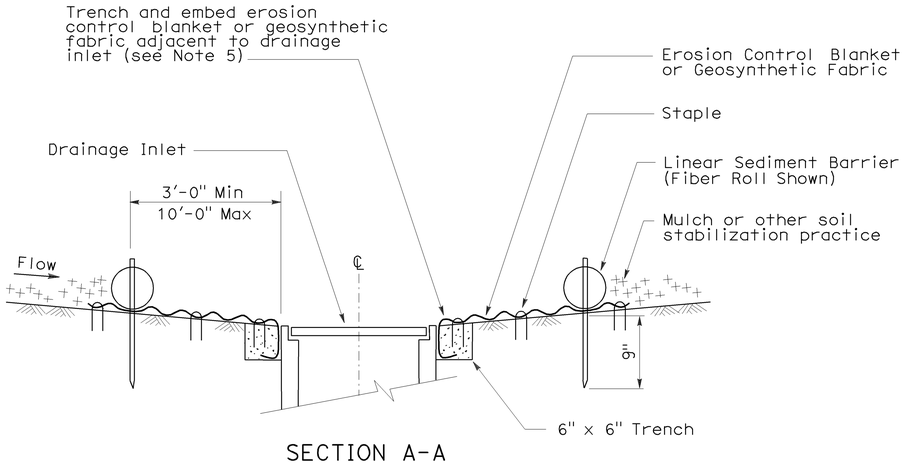
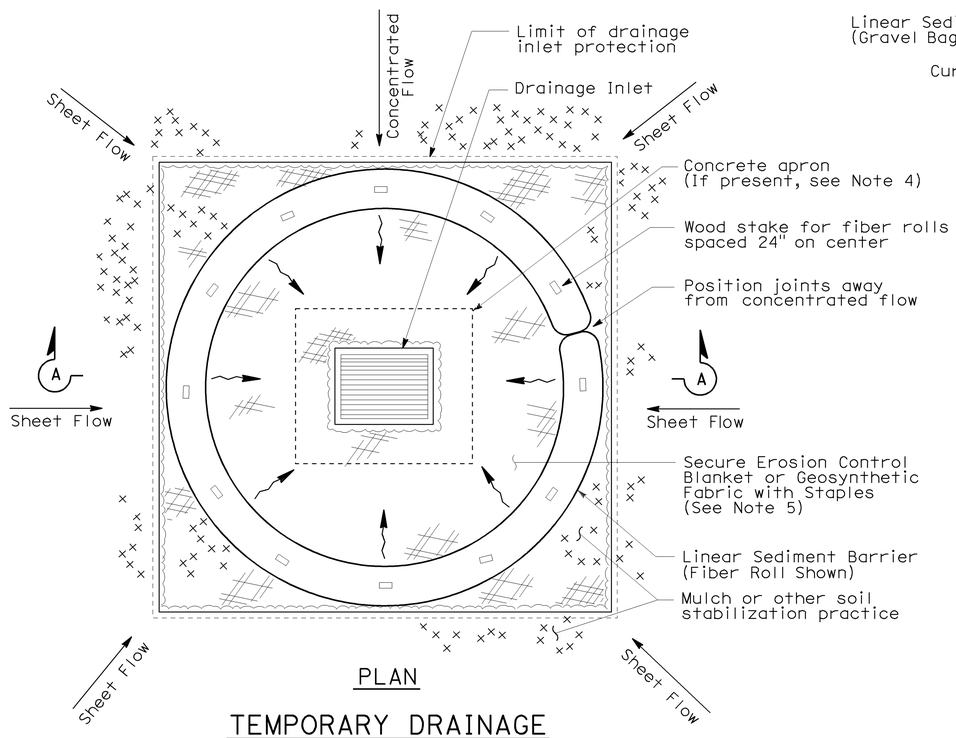
To accompany plans dated 3-8-10

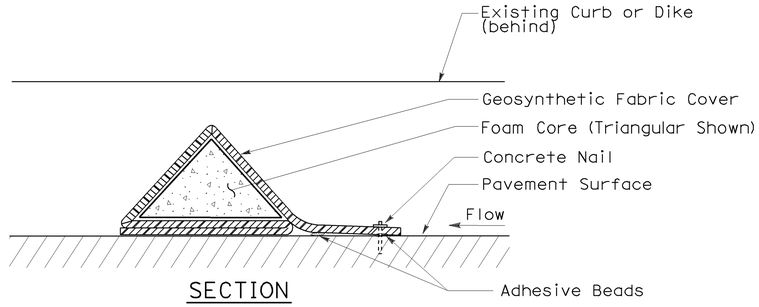


SECTION A-A



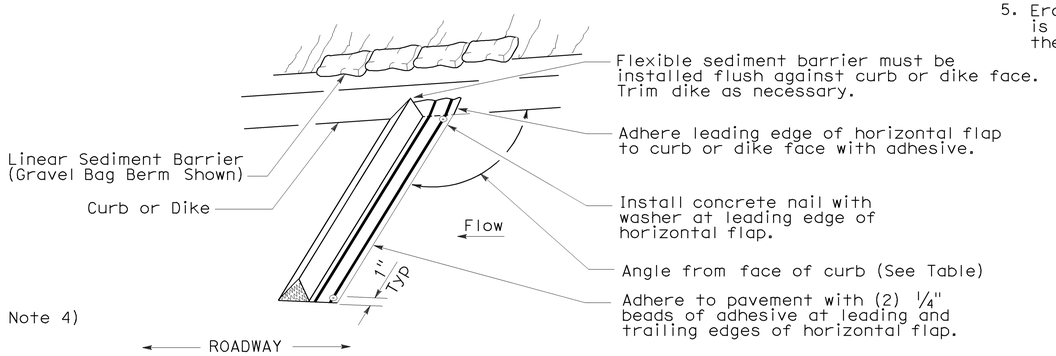
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)

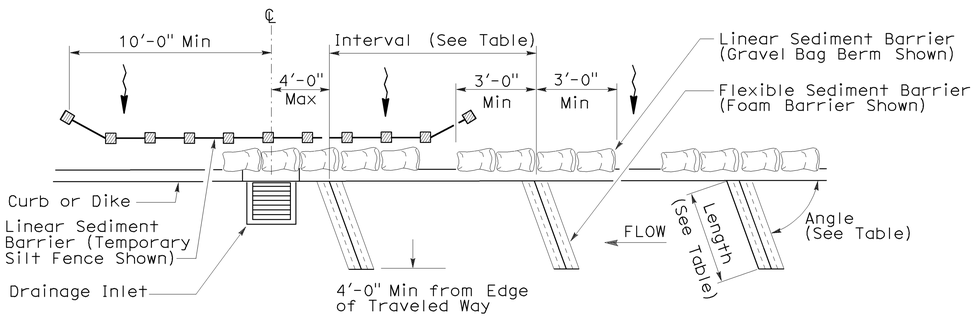


SECTION

FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)

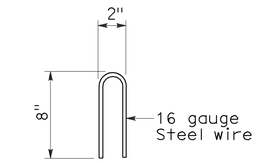


PERSPECTIVE



PLAN

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



STAPLE DETAIL

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.

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	Ala	880	28.2/29.9	36	36

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

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

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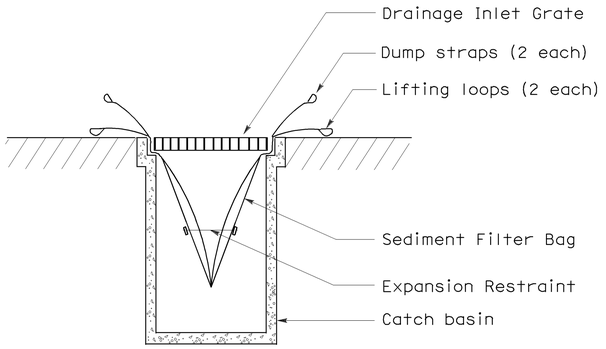
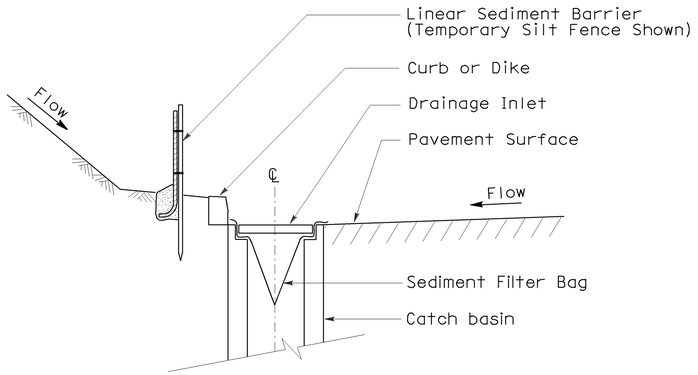
To accompany plans dated 3-8-10

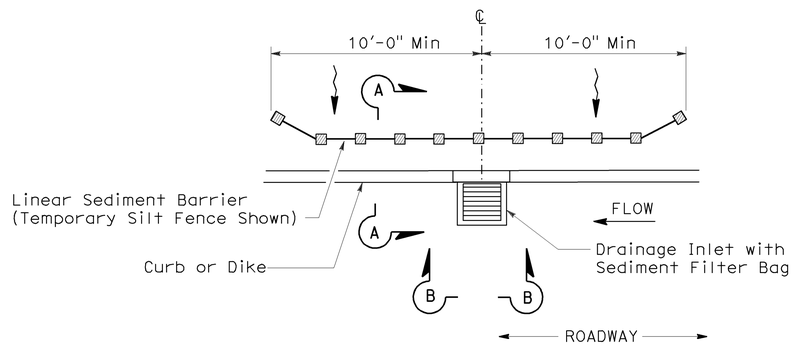


SECTION B-B

SEDIMENT FILTER BAG DETAIL

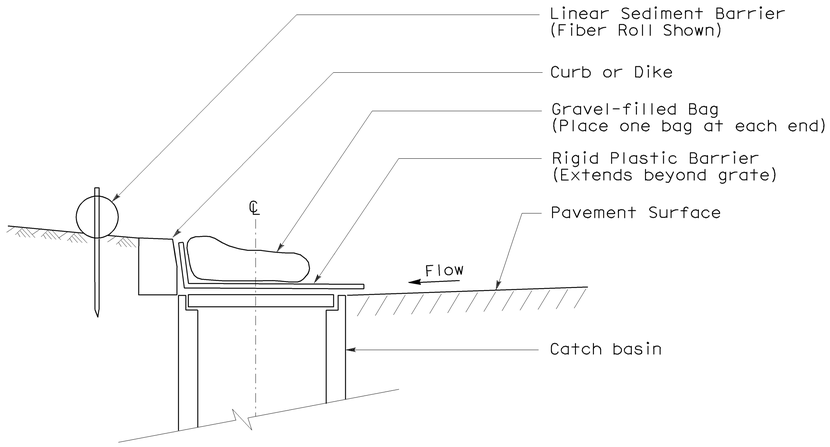


SECTION A-A



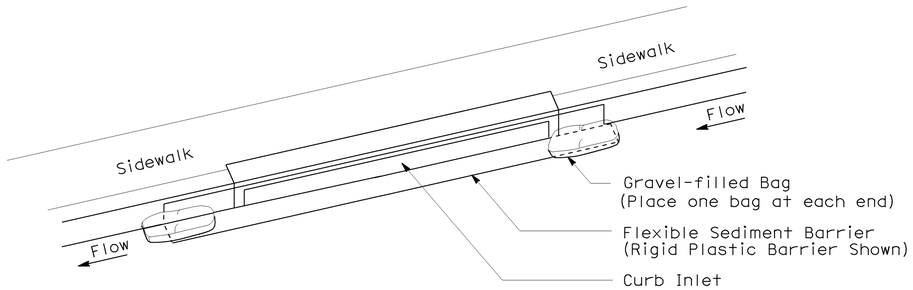
PLAN

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