Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	1	10

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3 - 5	CONSTRUCTION AREA SIGNS
6	SUMMARY OF QUANTITIES
7 & 8	TRAFFIC CONTROL SYSTEM PLANS
9 & 10	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

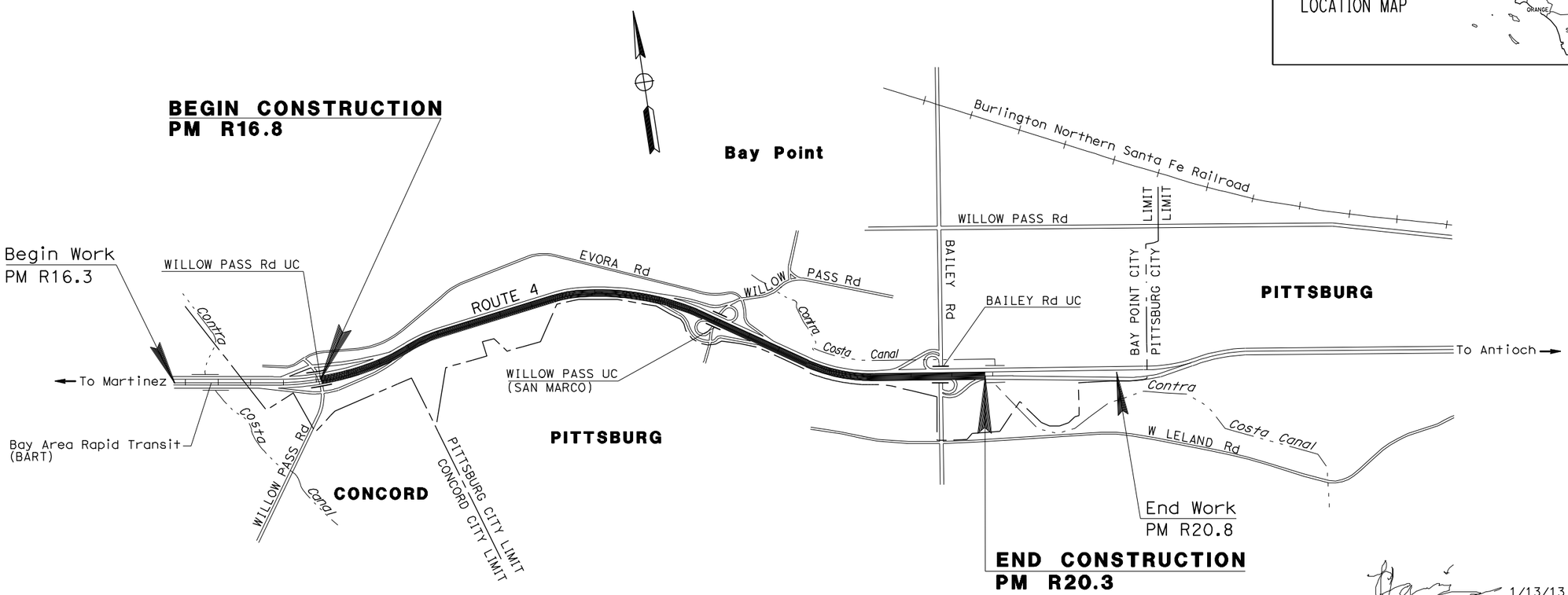
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN CONTRA COSTA COUNTY
IN PITTSBURG
FROM 0.3 MILE EAST OF WILLOW PASS ROAD UNDERCROSSING
TO 0.2 MILE EAST OF BAILEY ROAD UNDERCROSSING

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER: RAMSES SARGISS

DESIGN ENGINEER: ROBERT CARMAGO

1/13/13

PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — Calin Stanciu — No. 75253 — Exp. 12-31-13 — CIVIL — STATE OF CALIFORNIA

January 14, 2013

PLANS APPROVAL DATE

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

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

CONTRACT No.	04-3E2004
PROJECT ID	0412000521

LAST REVISION 01-13-13 — DATE PLOTTED => 22-JAN-2013 — TIME PLOTTED => 09:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	2	10

REGISTERED CIVIL ENGINEER 1/13/13 DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Calin Stanciu No. 75253 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

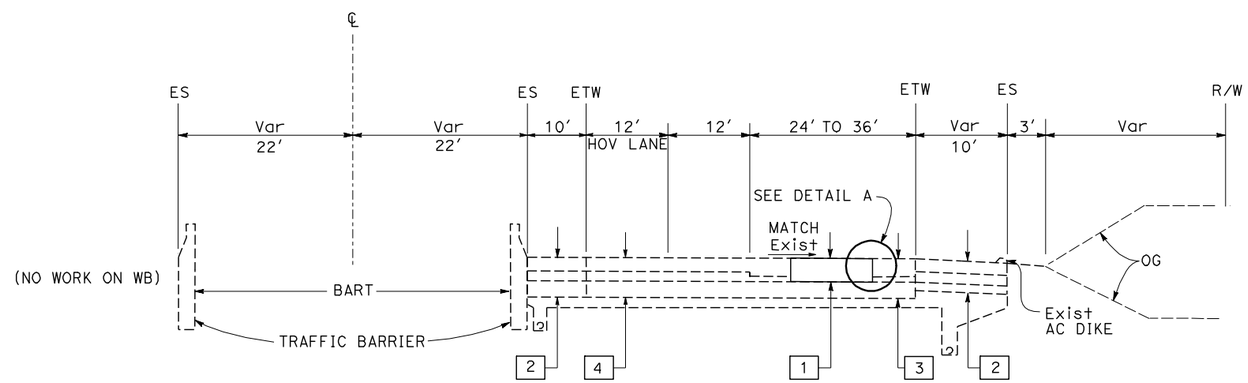
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
3. EXISTING UTILITIES ARE NOT SHOWN ON THE PLANS.
4. FOR WORK LIMITS OF PAVEMENT STRUCTURE SECTIONS, SEE SUMMARY OF QUANTITIES SHEET.
5. EXACT LOCATIONS OF INDIVIDUAL SLAB REPLACEMENT TO BE DETERMINED BY THE ENGINEER.

ABBREVIATIONS

BART - BAY AREA RAPID TRANSIT
ISR (RSC) - INDIVIDUAL SLAB REPLACEMENT (RAPID STRENGTH CONCRETE)
RUB (CTPBRS) - REPLACE UNDERLYING BASE (CEMENT TREATED PERMEABLE BASE RAPID SETTING)



EASTBOUND

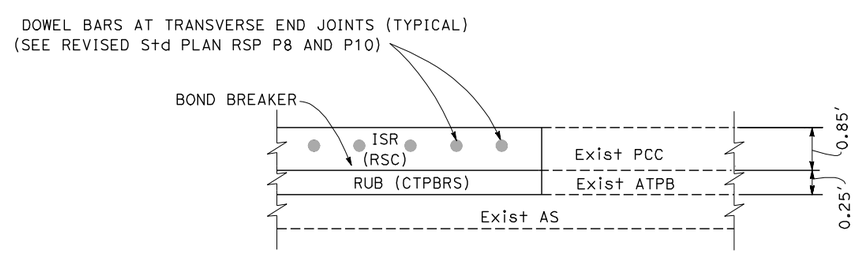
TYPICAL PAVEMENT STRUCTURE SECTIONS

1
- 0.85′ ISR (RSC)
- BOND BREAKER
- 0.25′ RUB (CTPBRS)

2
- Exist
- 0.50′ AC
- 0.60′ AB
- 0.35′ AS

3
- Exist
- 0.85′ PCC
- 0.25′ ATPB
- 0.35′ AS

4
- Exist
- 0.75′ PCC
- 0.35′ ATPB
- 0.35′ AS



DETAIL A

TYPICAL CROSS SECTION

NO SCALE

X-1

REVISED BY	DATE REVISED
CS	1/13/13

CALIN STANCIU — CALCULATED-DESIGNED BY
ROBERT CAMARGO — CHECKED BY
ROBERT CAMARGO — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

LAST REVISION 01-13-13 | DATE PLOTTED => 22-JAN-2013 | TIME PLOTTED => 09:30

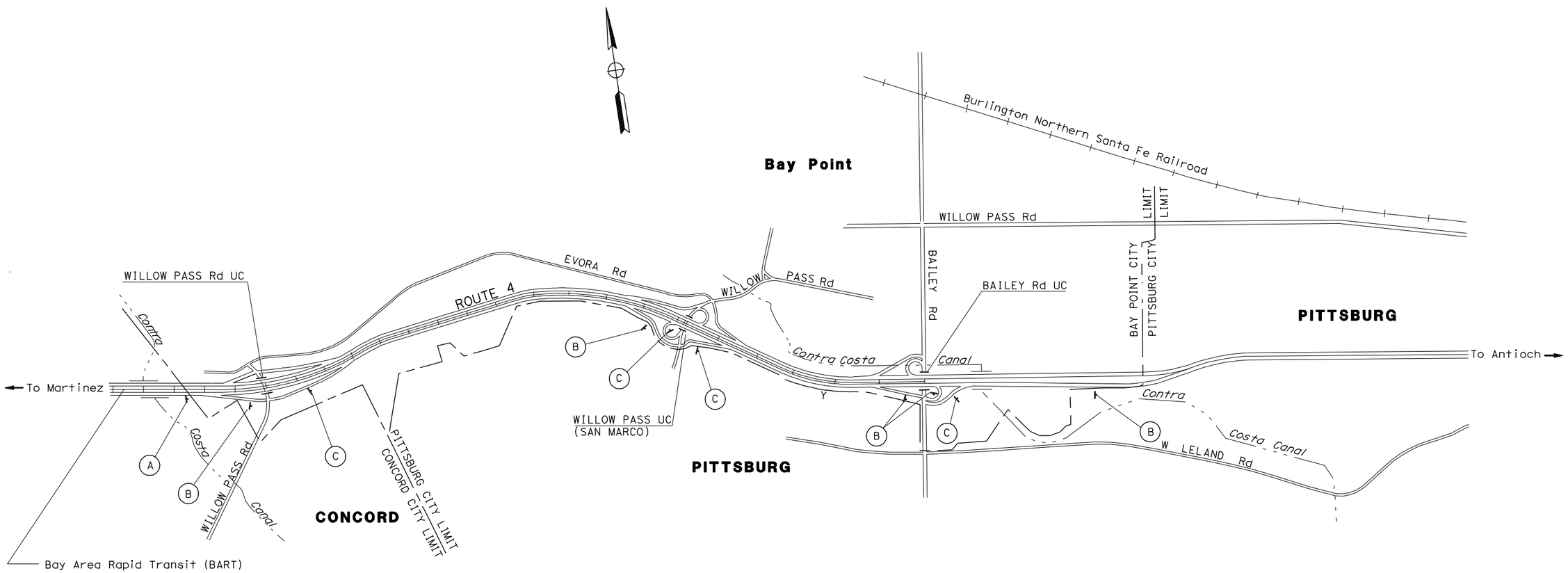
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	3	10

REGISTERED CIVIL ENGINEER 1/13/13 DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Calin Stanciu No. 75253 Exp. 12-31-13 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 AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	FLORANTE PEREZ	REVISED BY	CS
LOURDES DAVID	CHECKED BY	LOURDES DAVID	DATE REVISED	1/13/13

LAST REVISION 01-13-13 | DATE PLOTTED => 22-JAN-2013 | TIME PLOTTED => 09:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	4	10

REGISTERED CIVIL ENGINEER 1/13/13 DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Calin Stanciu No. 75253 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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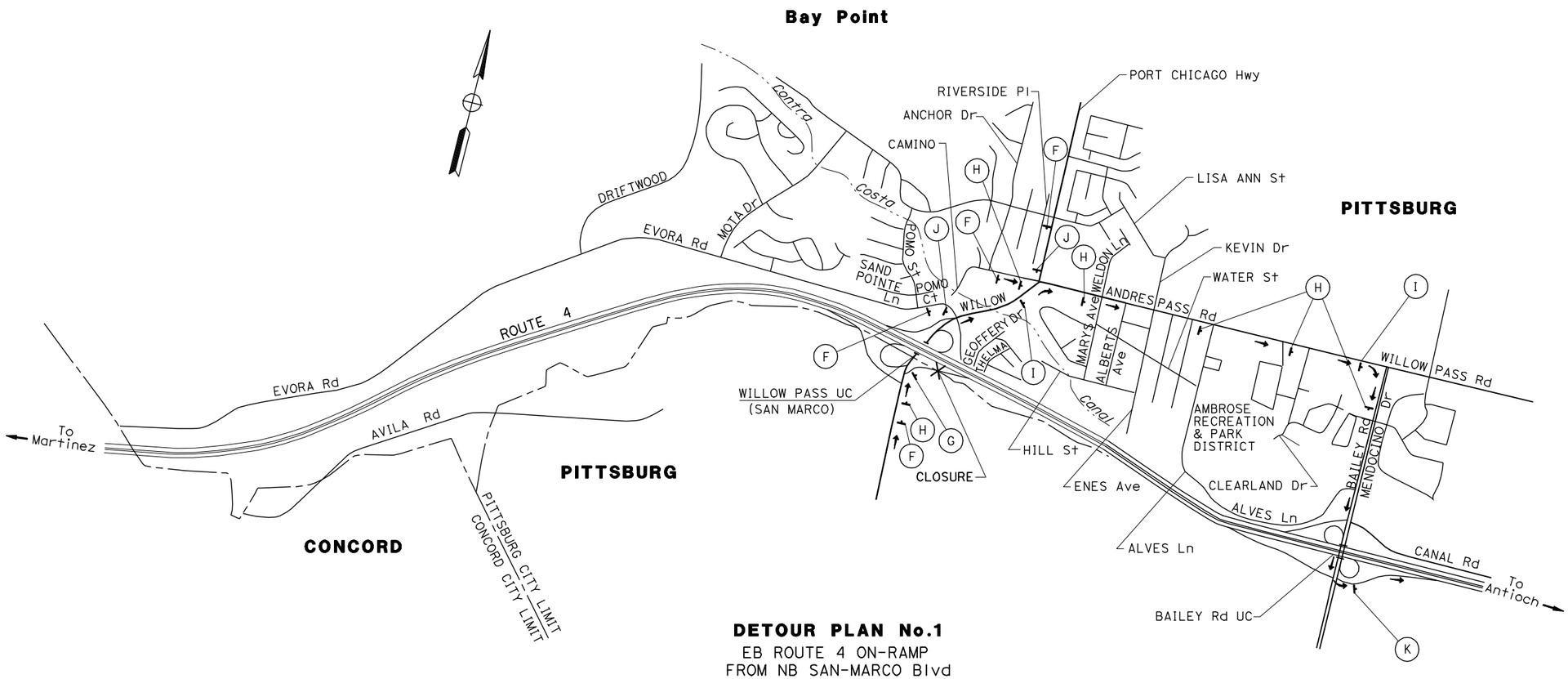

DETOUR PLAN No.1

EB ROUTE 4 ON-RAMP
FROM NB SAN-MARCO Blvd
CLOSED

VIA:
NB ROUTE WILLOW PASS Rd;
EB WILLOW PASS Rd;
SB BAILEY Rd;
EB ROUTE 4 ON FROM BAILEY Rd.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

CALCULATED-DESIGNED BY	FLORANTE PEREZ	REVISED BY	CS
CHECKED BY	LOURDES DAVID	DATE REVISED	1/13/13
FUNCTIONAL SUPERVISOR	LOURDES DAVID		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC

LAST REVISION 01-13-13 | DATE PLOTTED => 22-JAN-2013 | TIME PLOTTED => 09:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	5	10

REGISTERED CIVIL ENGINEER 1/13/13 DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Calin Stanciu No. 75253 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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NOTE

LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

LEGEND

(X) CONSTRUCTION AREA SIGN LETTER

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
A	W20-1	ROAD WORK AHEAD	60" x 60"	2 - 4" x 6"	1
B	G20-2	END ROAD WORK	36" x 18"	1 - 4" x 4"	5
C	W20-1	ROAD WORK AHEAD	48" x 48"	1 - 4" x 6"	4
F	W20-2	DETOUR AHEAD	24" x 12"	1 - 4" x 4"	4
G	SC6-4(CA)	RAMP CLOSED	48" x 60"	1 - 4" x 6"	1
H	M4-8	DETOUR	24" x 12"	1 - 4" x 6"	6
	G28-2(4)(CA)	ROUTE 4 SHIELD	24" x 25"		
	M3-2	EAST	24" x 12"		
	M6-3(↑)	STRAIGHT AHEAD ARROW	21" x 15"		
I	M4-8	DETOUR	24" x 12"	1 - 4" x 6"	2
	G28-2(4)(CA)	ROUTE 4 SHIELD	24" x 25"		
	M3-2	EAST	24" x 12"		
	M6-1(→)	RIGHT ARROW	21" x 15"		
J	M4-8	DETOUR	24" x 12"	1 - 4" x 6"	2
	G28-2(4)(CA)	ROUTE 4 SHIELD	24" x 25"		
	M3-2	EAST	24" x 12"		
	M6-1(←)	LEFT ARROW	21" x 15"		
K	M4-8A	END DETOUR	30" x 18"	1 - 4" x 4"	1

CONSTRUCTION AREA SIGNS

CS-3

REVISED BY	DATE REVISED
CS	1/13/13

FLORANTE PEREZ — CALCULATED-DESIGNED BY
LOURDES DAVID — CHECKED BY
LOURDES DAVID — FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC

LAST REVISION 01-13-13 | DATE PLOTTED => 22-JAN-2013 | TIME PLOTTED => 09:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	6	10

REGISTERED CIVIL ENGINEER 1/13/13 DATE

1-14-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Calin Stanciu No. 75253 Exp. 12-31-13 CIVIL STATE OF CALIFORNIA

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ROADWAY QUANTITIES

PM EB ONLY	TRAFFIC LANE No. (N)	LANE LENGTH (N)	NUMBER OF SLABS (N)	LOCATION	ISR (RSC)	RUB (CTPBRS)	DRILL AND BOND DOWEL
		LF	EA		CY		EA
R17.65	4	45	3	WEST OF ROAD SIGN PM 17.70 "CENTRAL BAY POINT NEXT EXIT"	17.0	5.0	26
R17.66		45	3	WEST OF ROAD SIGN PM 17.70	17.0	5.0	26
R17.72		90	6	WEST OF OVERHEAD SIGN PM 17.75 "BAY POINT EXIT ¾ MILES"	34.0	10.0	26
R17.74		45	3	WEST OF OVERHEAD SIGN PM 17.75	17.0	5.0	26
R17.75		45	3	AT OVERHEAD SIGN PM 17.75	17.0	5.0	26
R17.76		15	1	EAST OF OVERHEAD SIGN PM 17.75	5.7	1.7	26
R17.78		15	1	WEST OF ROAD SIGN "BAY POINT EXIT" PM 17.80	5.7	1.7	26
R17.80		15	1	WEST OF ROAD SIGN "BAY POINT EXIT"	5.7	1.7	26
R17.82		45	3	EAST OF ROAD SIGN "BAY POINT EXIT"	17.0	5.0	26
R17.85		30	2	EAST OF ROAD SIGN "BAY POINT EXIT"	11.3	3.3	26
R17.86		30	2	WEST OF OVERHEAD SIGN AT PM 17.98 "BAY POINT SAN MARCO EXIT ONLY"	11.3	3.3	26
R17.90		45	3	EAST OF OVERHEAD SIGN AT PM 17.97	17.0	5.0	26
R17.92		90	6	EAST OF OVERHEAD SIGN AT PM 17.98	34.0	10.0	26
R17.97		30	2	EAST OF OVERHEAD SIGN PM 17.98	11.3	3.3	26
R17.97		90	6	AT OVERHEAD SIGN PM 17.98 "BAY POINT SAN MARCO EXIT ONLY"	34.0	10.0	26
R18.00		60	4	EAST OF OVERHEAD SIGN PM 17.98	22.7	6.7	26
R18.01		30	2		11.3	3.3	26
R18.04		75	6		28.3	8.3	26
R18.05		15	1		5.7	1.7	26
R18.07		45	3		17.0	5.0	26
R18.09		45	3		17.0	5.0	26
R18.15		45	3	WEST OF DETECTOR LOOPS	17.0	5.0	26
R18.17		45	3	WEST OF DETECTOR LOOPS	17.0	5.0	26
R18.18	3	45	3	AT DETECTOR LOOPS	17.0	5.0	26
R18.20	4	45	3		17.0	5.0	26
R18.20		30	2		11.3	3.3	26
R18.20	3	15	1		5.7	1.7	26
R18.22	3	30	2		11.3	3.3	26
R18.21	4	60	4		22.7	6.7	26
R18.22	3	30	2		11.3	3.3	26
R19.25	4	75	5	AT ALVES RANCH Rd.CATCH BASIN W OF PEDESTRIAN OC BART	28.3	8.3	26
R19.40		75	5	AT ALVES RANCH Rd.CATCH BASIN W OF PEDESTRIAN OC BART	28.3	8.3	26
TOTAL					544.0	159.9	832

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

REPAIR SPALLED JOINTS, POLYESTER GROUT

LOCATION	SQYD
PM 17.64	10
PM 17.82	10
PM 17.85	10
PM 18.17	10
PM 18.20	10
PM 19.40	10
TOTAL	60

EXISTING ELECTRICAL LOOPS

APPROXIMATE LOCATION
PM
17.20
17.85
18.20

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR ROBERT CARMAGO
CALCULATED-DESIGNED BY CALIN STANCIU
CHECKED BY ROBERT CARMAGO
REVISED BY CS
DATE REVISED 1/13/13

LAST REVISION 01-13-13
DATE PLOTTED => 22-JAN-2013
TIME PLOTTED => 09:30

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	7	10

REGISTERED CIVIL ENGINEER 12-7-12 DATE

1-14-13
PLANS APPROVAL DATE

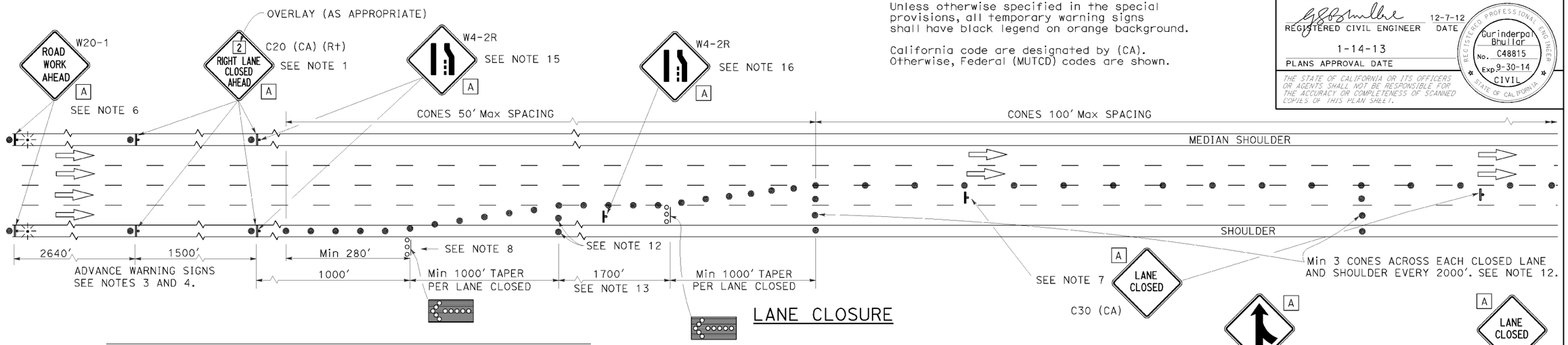
REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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

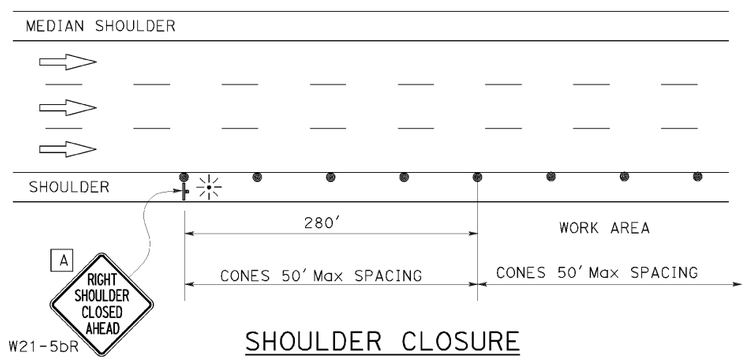
NOTES:

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

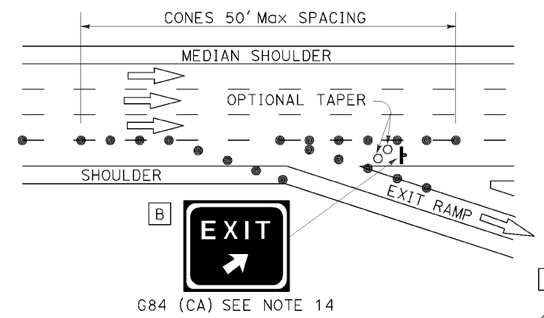
California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



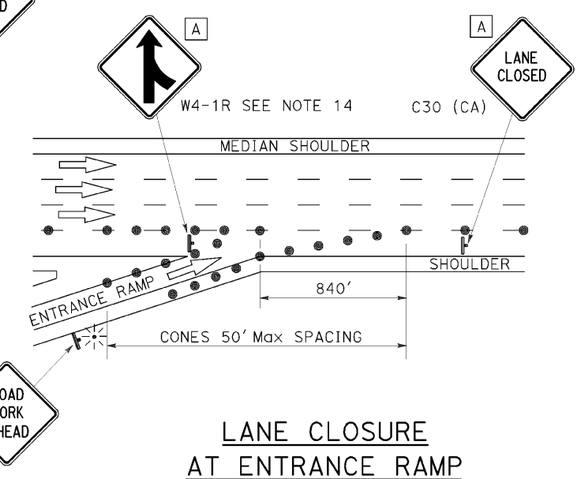
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	8	10

REGISTERED CIVIL ENGINEER 12-7-12 DATE

1-14-13
PLANS APPROVAL DATE

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

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

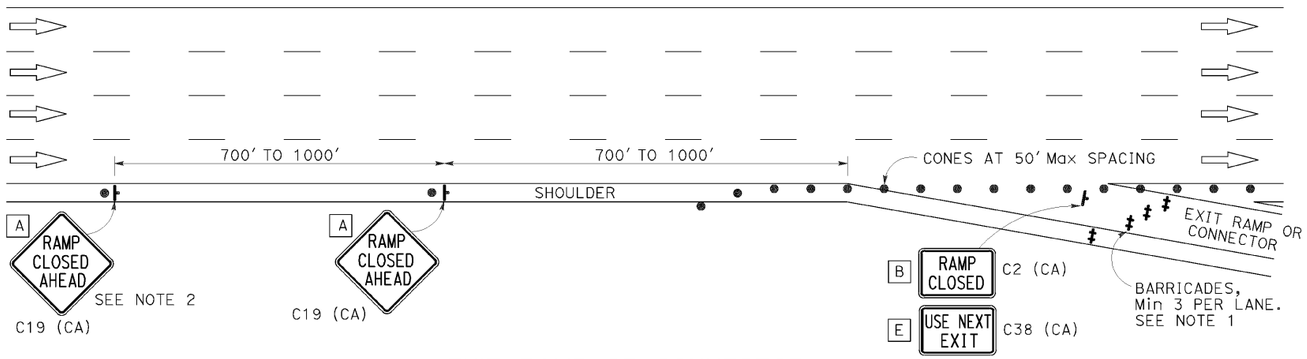
TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

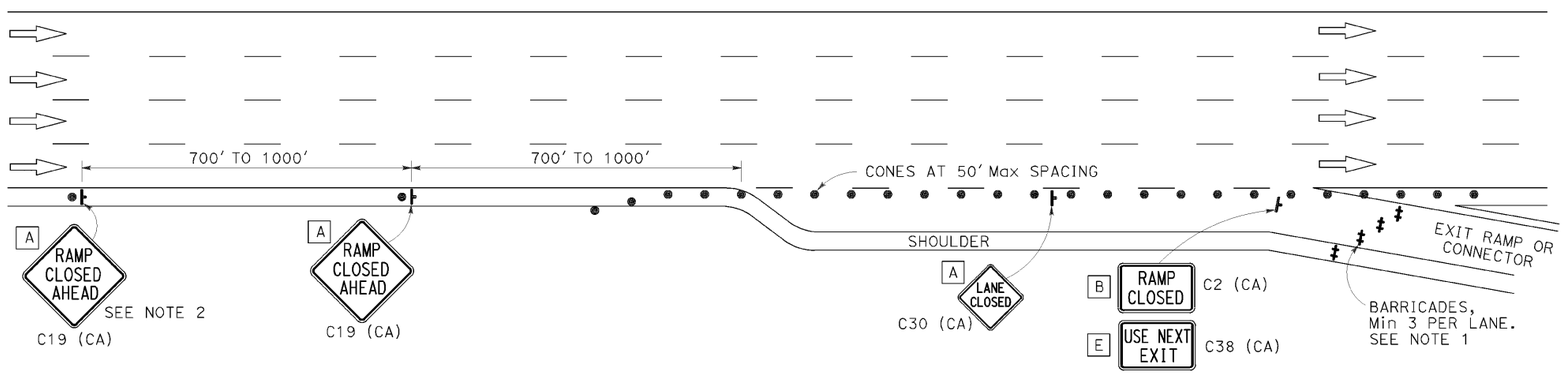
- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
  36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

LEGEND

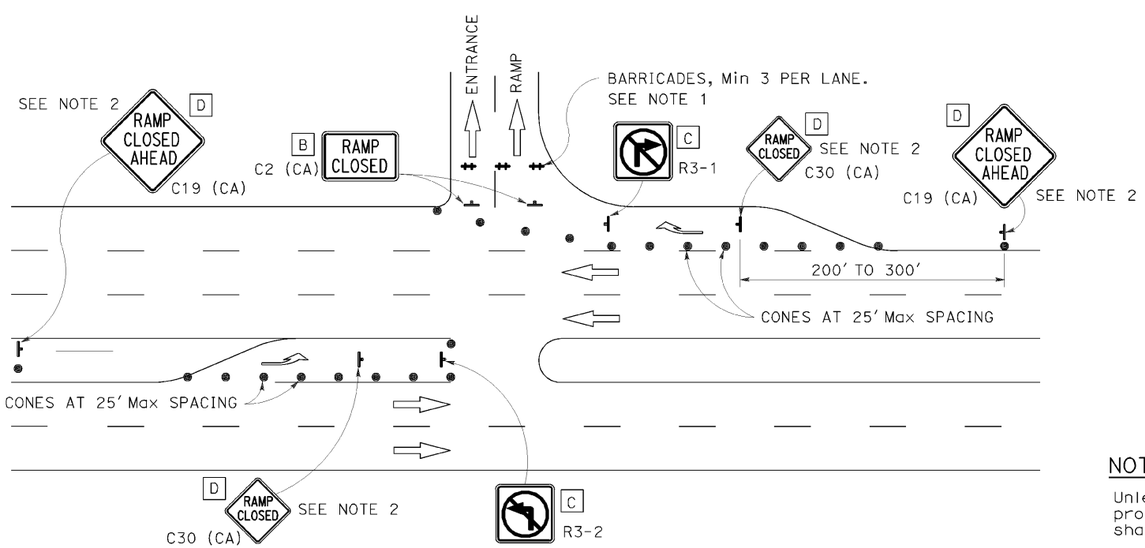
- TRAFFIC CONE
- TEMPORARY SIGN
- BARRICADES



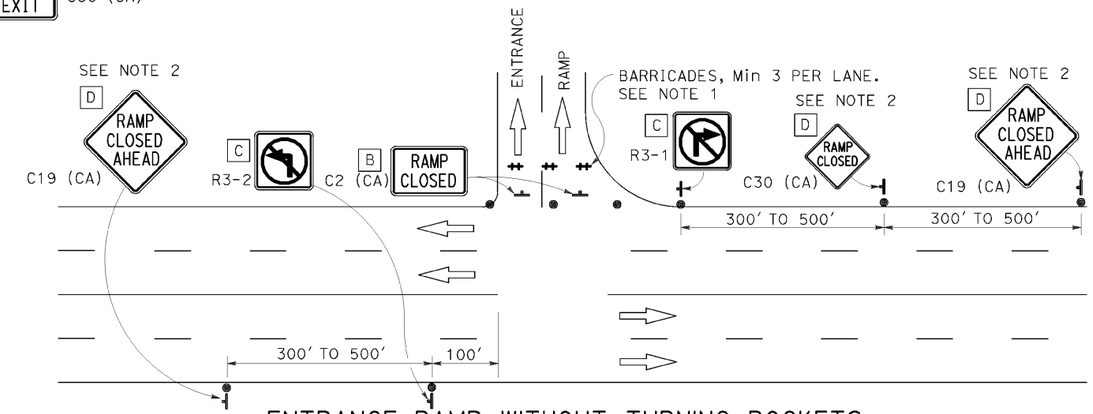
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

1. Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
2. In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
3. Each advance C19 (CA) "RAMP CLOSED AHEAD" sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color.
4. All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
6. At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
7. The existing "EXIT" sign in the gore area shall be covered during ramp closures.

NOTES:

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

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	9	10

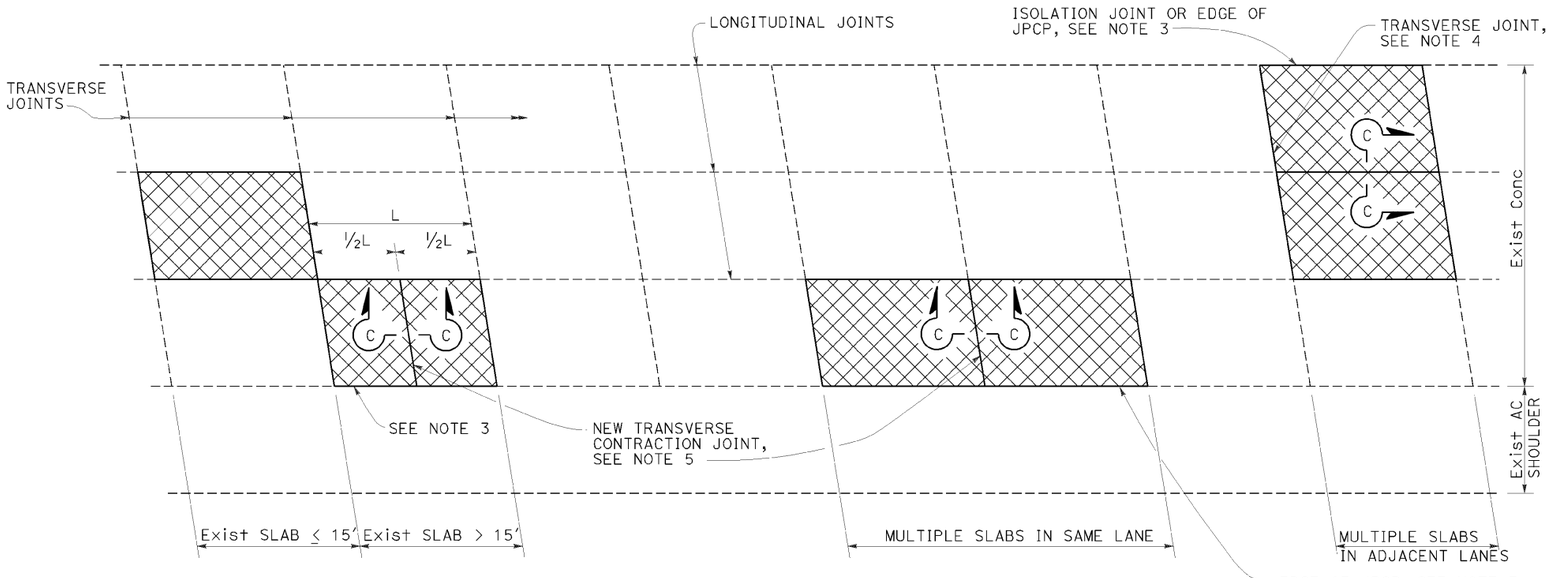
William K. Farnbach
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-12 CIVIL STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 1-14-13



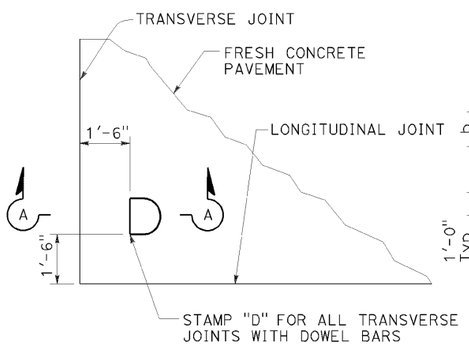
PLAN

NOTES:

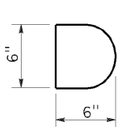
1. For details not shown, see Revised Standard Plan P10.
2. Where the existing outer shoulder pavement is asphalt concrete pavement, the "a" dimension shall be 1'-0" and the "b" dimension shall be 2'-0".
3. Side forms shall be used where edge of pavement is adjacent to asphalt concrete.
4. For detail, see Transverse Construction Joint for existing concrete pavement detail on Revised Standard Plan P10.
5. Transverse joint to match skew of existing joint. Omit dowel bars.

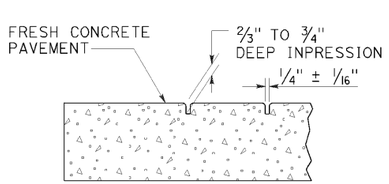
LEGEND:

Replace Concrete Pavement (See Slab Layout Detail)

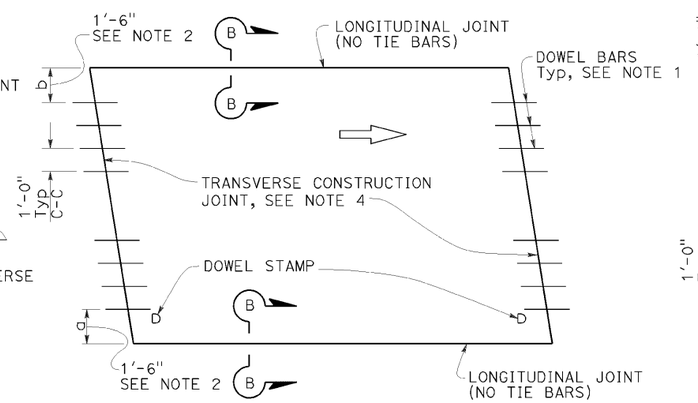


DOWEL STAMP DETAIL



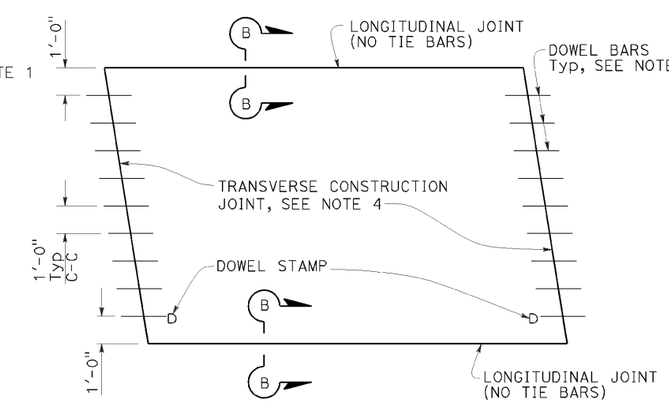


SECTION A-A



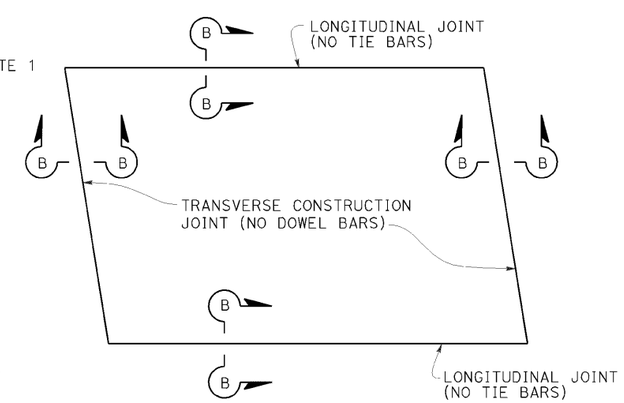
TYPE I

Traffic lane lines match longitudinal joints



TYPE II

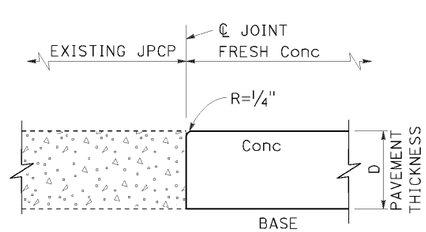
Traffic lane lines do not match longitudinal joints



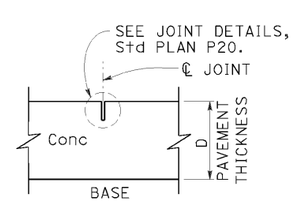
TYPE III

For short term repairs < 5 yrs design life or for slab replacements with a cracking and seating operation

SLAB LAYOUT



SECTION B-B



SECTION C-C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT-INDIVIDUAL SLAB REPLACEMENT

NO SCALE

RSP P8 DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN P8
DATED MAY 20, 2011 - PAGE 130 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P8

2010 REVISED STANDARD PLAN RSP P8

2-22-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	CC	4	R16.8/R20.3	10	10

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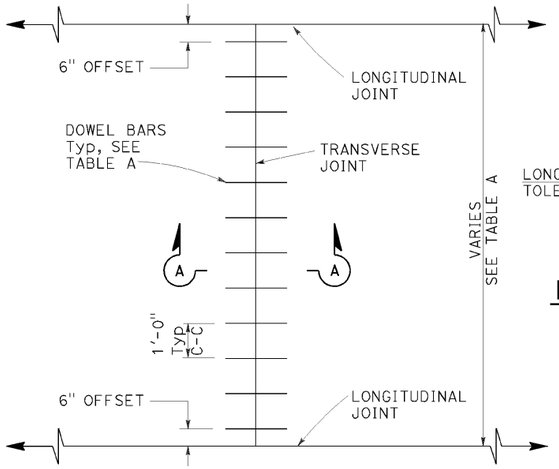
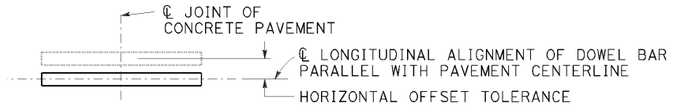
TO ACCOMPANY PLANS DATED 1-14-13

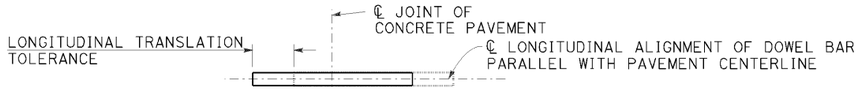


TRANSVERSE JOINT DOWEL BAR LAYOUT



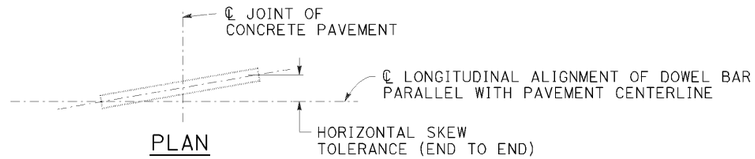
PLAN

HORIZONTAL OFFSET TOLERANCE



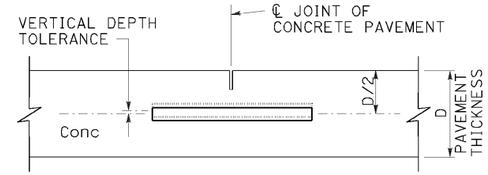
PLAN

LONGITUDINAL TRANSLATION TOLERANCE



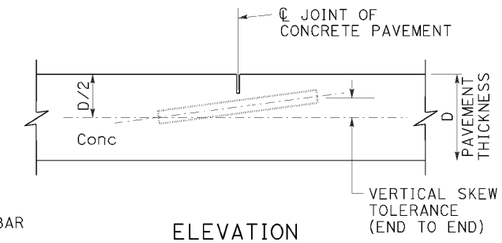
PLAN

HORIZONTAL SKEW TOLERANCE



ELEVATION

VERTICAL DEPTH TOLERANCE

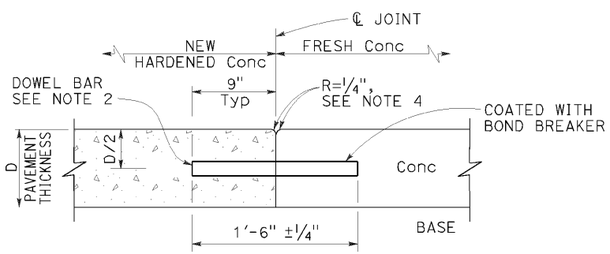


ELEVATION

VERTICAL SKEW TOLERANCE

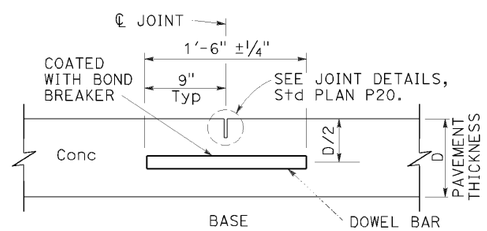
NOTES:

1. See Standard Plan P1 for typical dowel bar placement and locations.
2. 1½" Dia 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 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.
5. May also use ¾" Dia dowel bars 2'-4" ± ¼" in length. Center the length of dowel bars at the centerline of longitudinal joint.

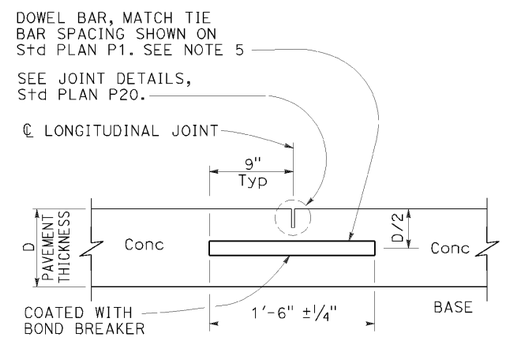


SECTION A-A

TRANSVERSE CONSTRUCTION JOINT DETAIL



TRANSVERSE CONTRACTION JOINT

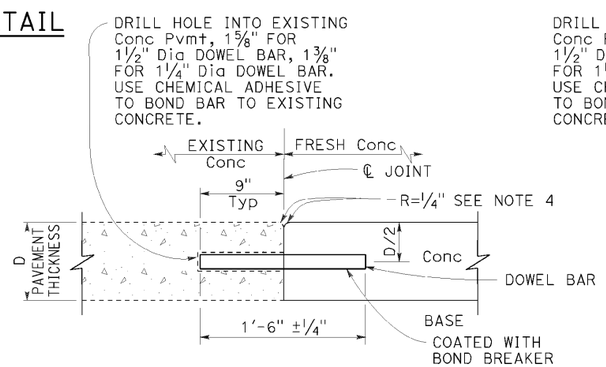


LONGITUDINAL CONTRACTION JOINT WITH DOWEL BARS

See Revised Std Plan RSP P18

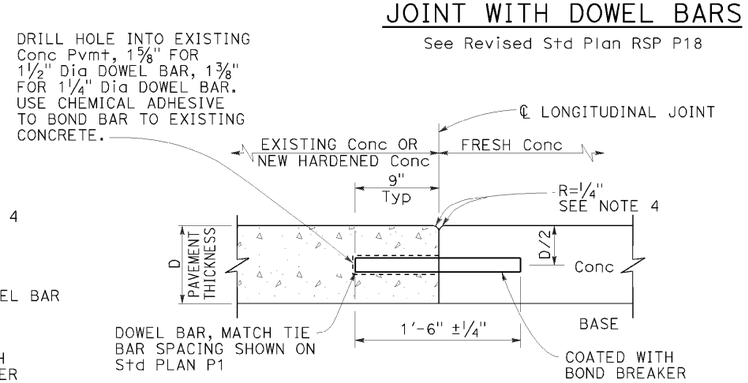
TABLE A (See Note 3)

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



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 APRIL 20, 2012 SUPERSEDES STANDARD PLAN P10 DATED MAY 20, 2011 - PAGE 131 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP P10

2010 REVISED STANDARD PLAN RSP P10

2-22-12