Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	1	25

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3-10	TRAFFIC HANDLING DETAILS
11	PAVEMENT DELINEATION QUANTITIES
12-15	REVISED STANDARD PLANS

STRUCTURES

16-25	ROUTE 170 BRIDGES

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

STATE OF CALIFORNIA

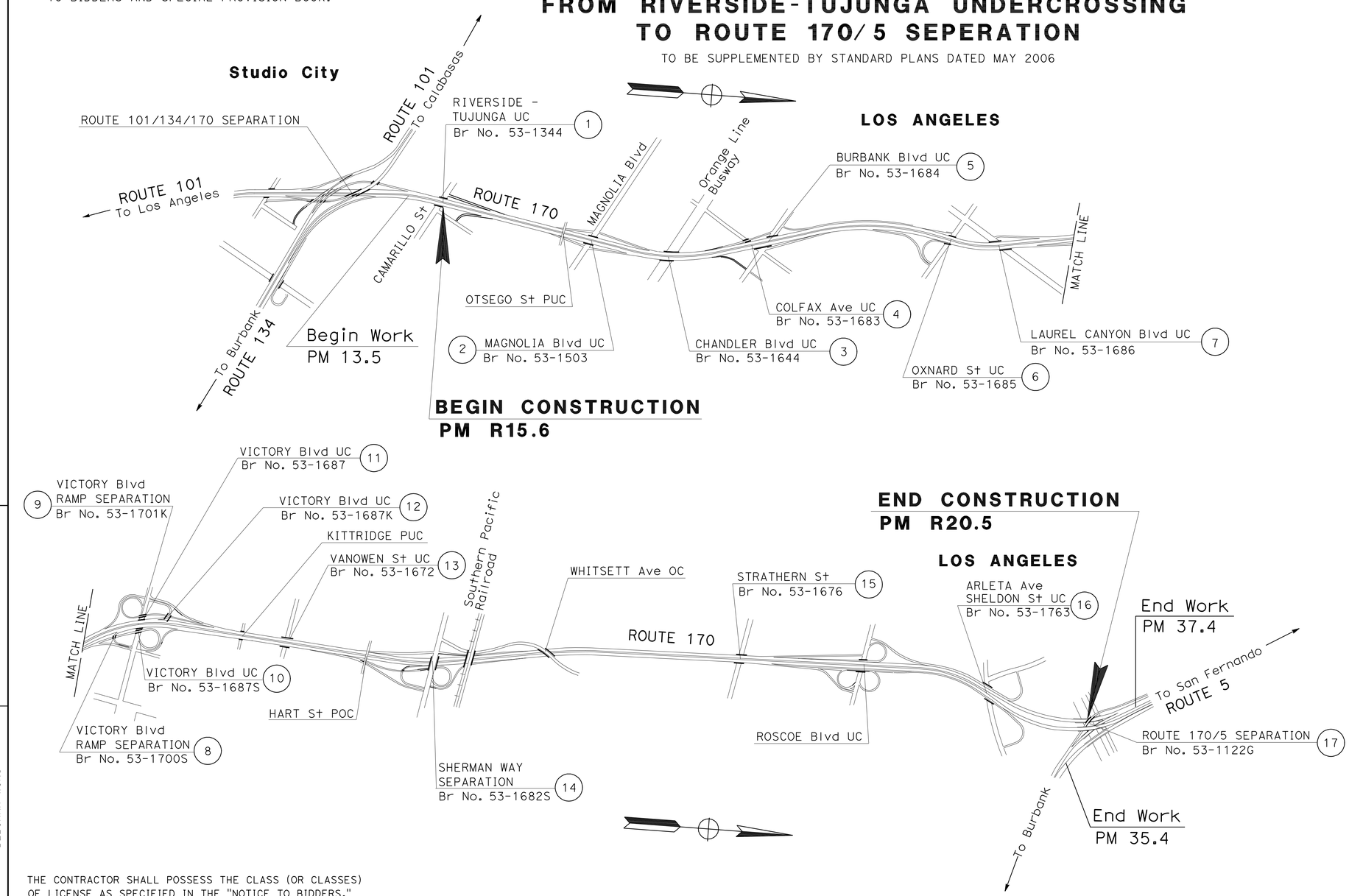
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN LOS ANGELES COUNTY
IN LOS ANGELES
AT VARIOUS LOCATIONS
FROM RIVERSIDE-TUJUNGA UNDERCROSSING
TO ROUTE 170/5 SEPERATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



LOCATION MAP

LOCATION OF CONSTRUCTION

Loc	PM	BRIDGE NAME	BRIDGE No.
1	14.78	RIVERSIDE-TUJUNGA UC	53-1344
2	15.36	MAGNOLIA Blvd UC	53-1503
3	15.62	CHANDLER Blvd UC	53-1644
4	15.91	COLFAX Ave UC	53-1683
5	15.98	BURBANK Blvd UC	53-1684
6	16.62	OXNARD St UC	53-1685
7	16.76	LAUREL CANYON Blvd UC	53-1686
8	17.44	VICTORY Blvd RAMP Sep	53-1700S
9	17.06	VICTORY Blvd RAMP Sep	53-1701K
10	17.24	VICTORY Blvd UC	53-1687S
11	17.25	VICTORY Blvd UC	53-1687
12	17.24	VICTORY Blvd UC	53-1687K
13	17.75	VANOWEN St UC	53-1672
14	18.16	SHERMAN WAY Sep	53-1682S
15	19.30	STRATHERN St UC	53-1676
16	20.10	ARLETA-SHELDEN St UC	53-1763
17	20.47	ROUTE 170-5 SEPARATION	53-1122G

11-24-10
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
DEBORAH WONG
No. C58313
Exp. 6/30/12
CIVIL
STATE OF CALIFORNIA

December 20, 2010
PLANS APPROVAL DATE

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

CONTRACT No.	07-3Y6604
PROJECT ID	0700000762

PROJECT MANAGER CHRISTIAN SAM
DESIGN ENGINEER DEBORAH WONG

LAST REVISION 00-00-00
DATE PLOTTED => 17-DEC-2010
TIME PLOTTED => 14:13

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	2	25

REGISTERED CIVIL ENGINEER 11-24-10 DATE

12-20-2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEBORAH WONG No. C58313 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

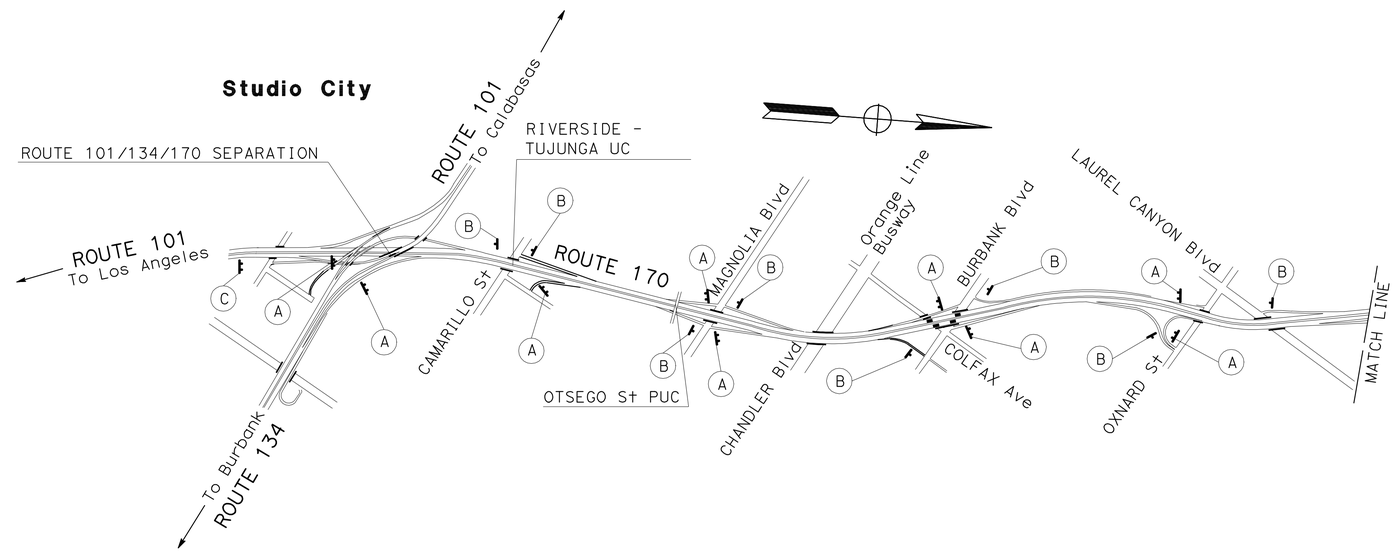
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

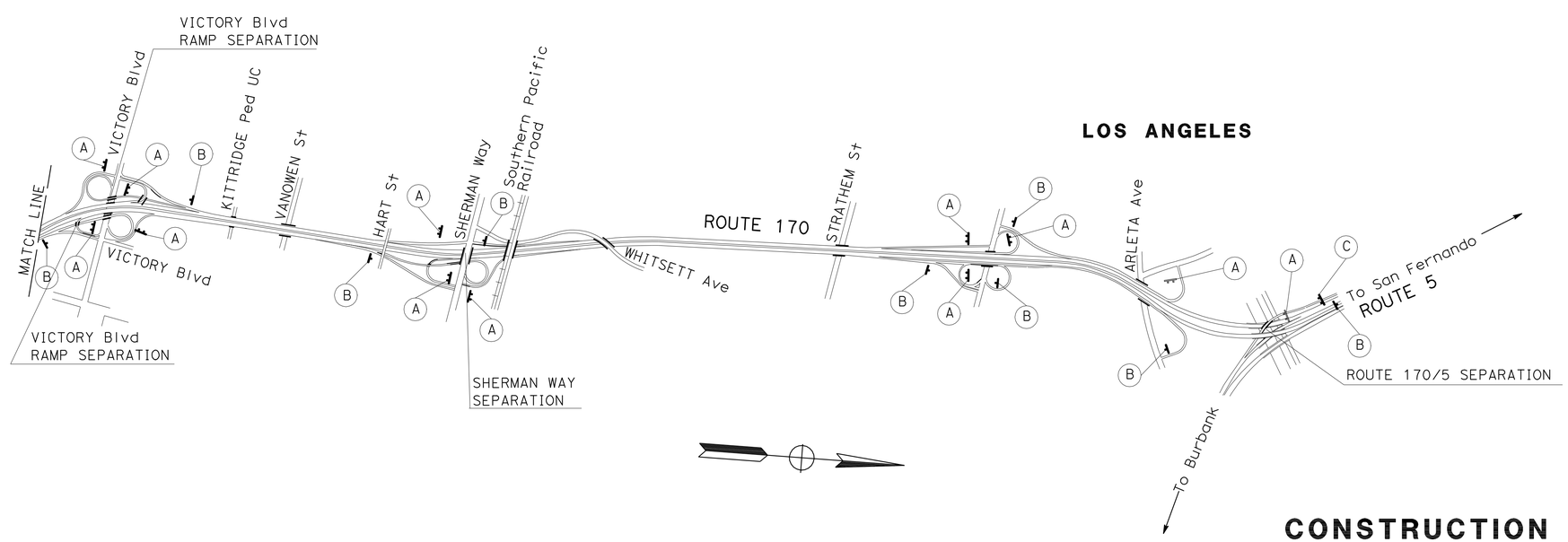
NOTES:

1. "TRAFFIC FINES DOUBLED IN WORK ZONES" SIGNS SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGNS OR AS DETERMINED BY THE ENGINEER.
2. LOCATIONS OF CONSTRUCTION AREA SIGNS AS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS PLAN.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NUMBER	SIGN CODE	PANEL SIZE	QUANTITY	NUMBER OF POST AND SIZE	SIGN MESSAGE
A	W20-1	48" x 48"	21	2 - 4" x 6"	ROAD WORK AHEAD
B	G20-2	48" x 24"	17	2 - 4" x 4"	END ROAD WORK
C	C40(CA)	72" x 36"	2	2 - 4" x 6"	TRAFFIC FINES DOUBLED IN WORK ZONES





CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: MONIR IBRAHIM
CALCULATED-DESIGNED BY: DINESH BHAVSAR
CHECKED BY: DEBORAH WONG
REVISED BY
DATE REVISED

LAST REVISION 06-28-10
DATE PLOTTED => 17-DEC-2010
TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	3	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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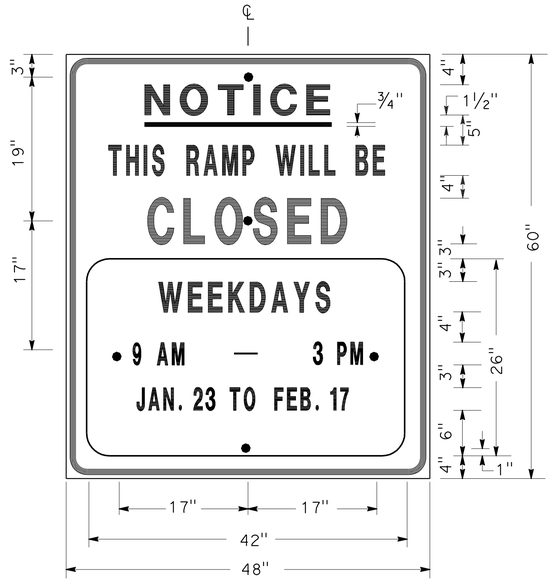
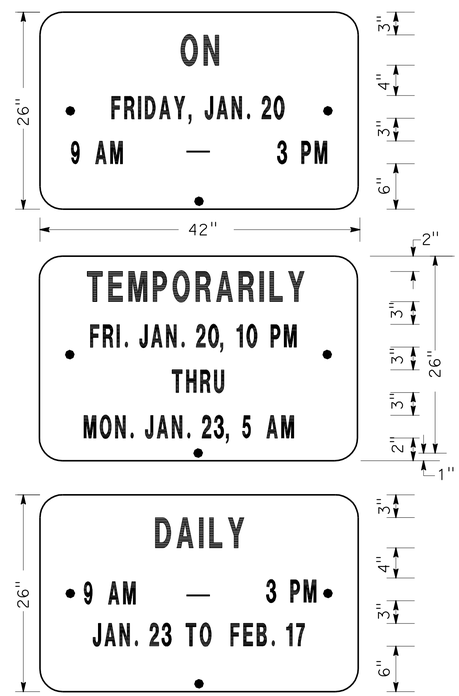


SIGN SP-1



ALTERNATE OVERLAY PANELS (TYPICAL)

SPECIAL ADVANCE NOTICE PUBLICITY SIGN

NOTES: (SIGN SP-1)

1. SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

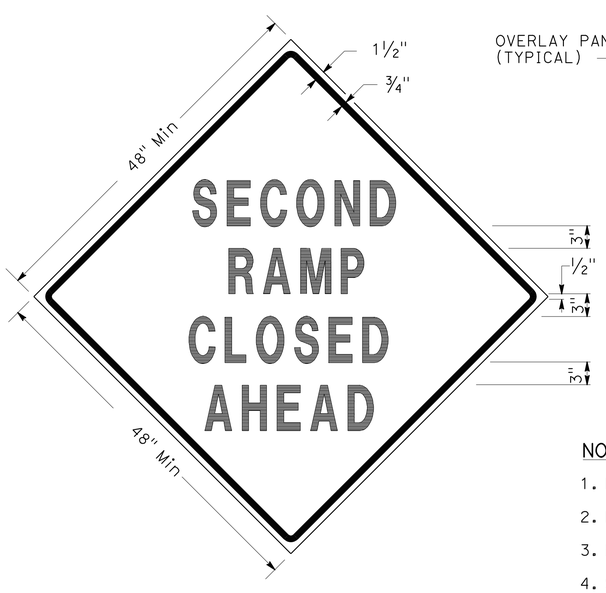
SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION: 00-00-00
DATE PLOTTED => 17-DEC-2010
TIME PLOTTED => 14:13

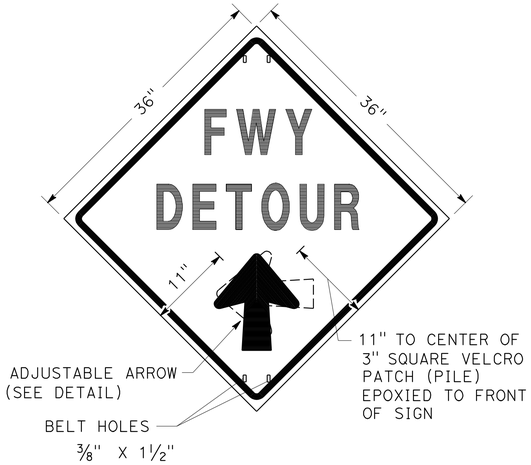
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	4	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

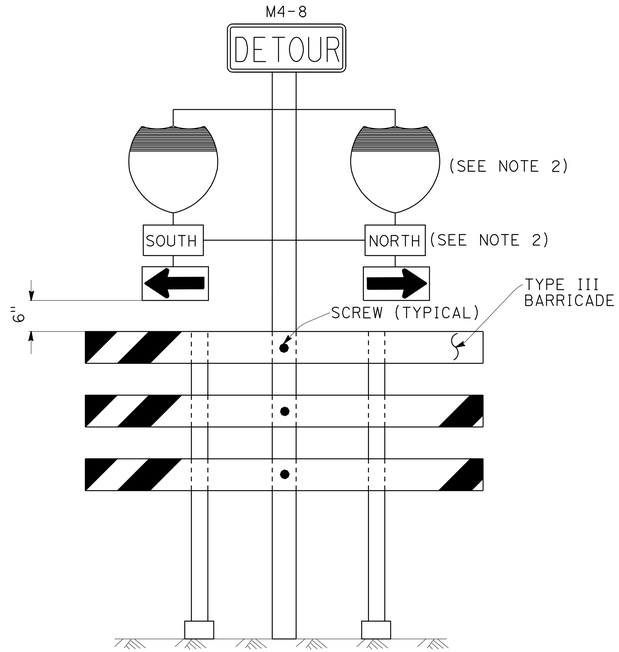
12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

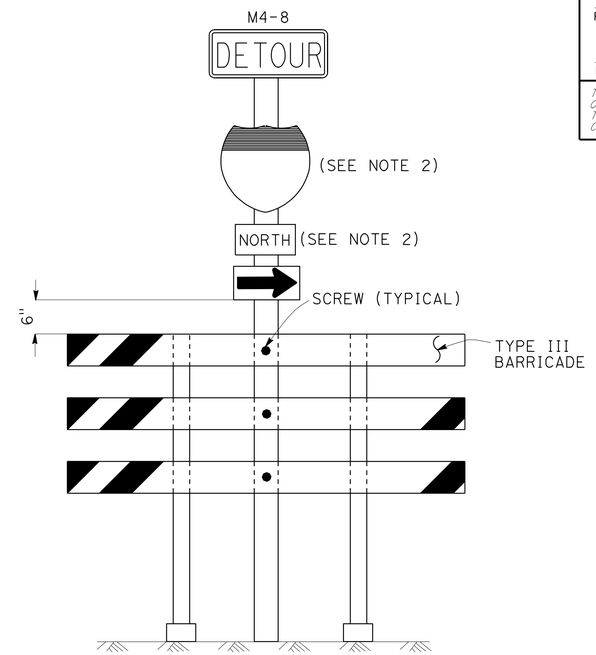
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

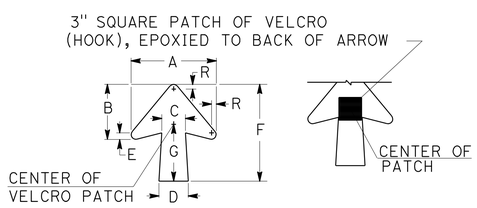
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 00-00-00 | DATE PLOTTED => 17-DEC-2010 | TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	5	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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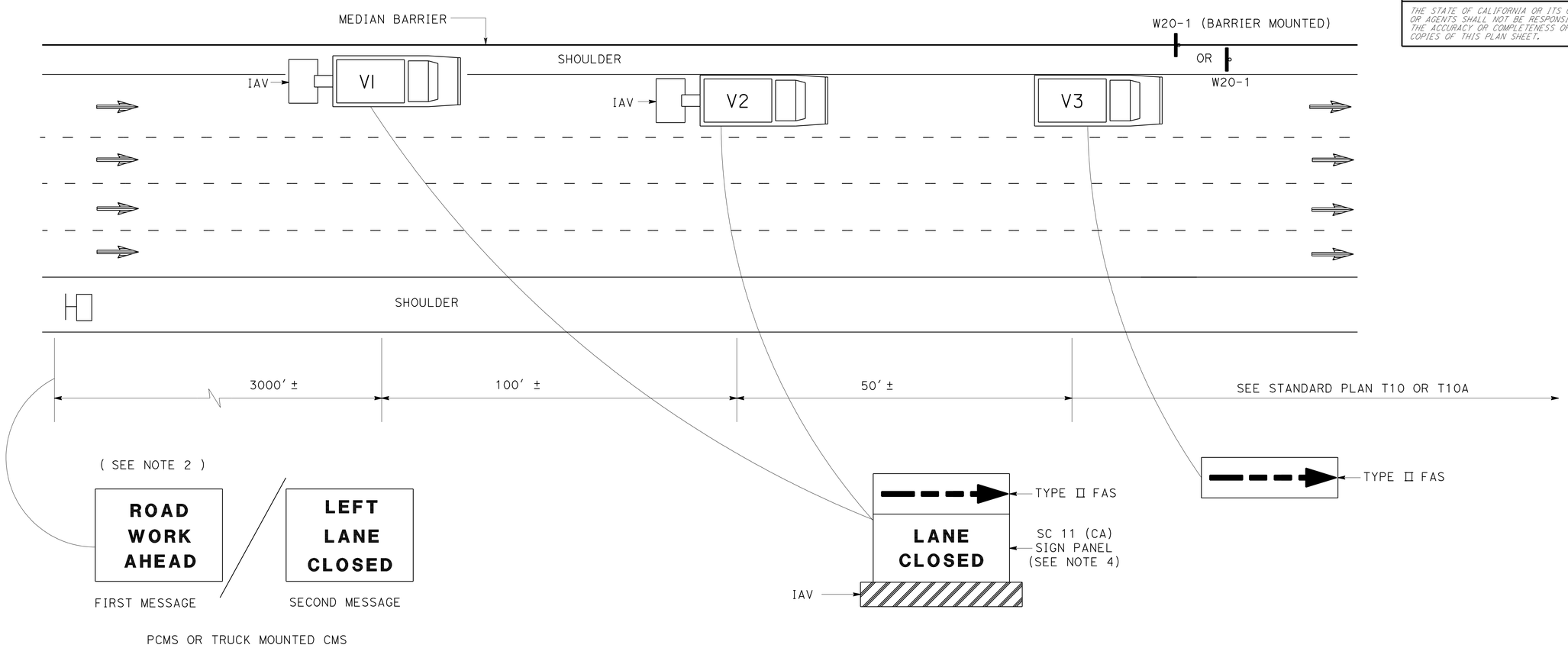


NOTES:

1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.

LEGEND

V1, V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	DIRECTION OF TRAVEL
	CONSTRUCTION AREA SIGN

ABBREVIATIONS

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-3

CALCULATED-DESIGNED BY	JC	REVISED BY	ALBERT K YU
CHECKED BY	7/10	DATE REVISED	JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR	JOHN YANG		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 00-00-00 | DATE PLOTTED => 17-DEC-2010 | TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	6	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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

NOTES:

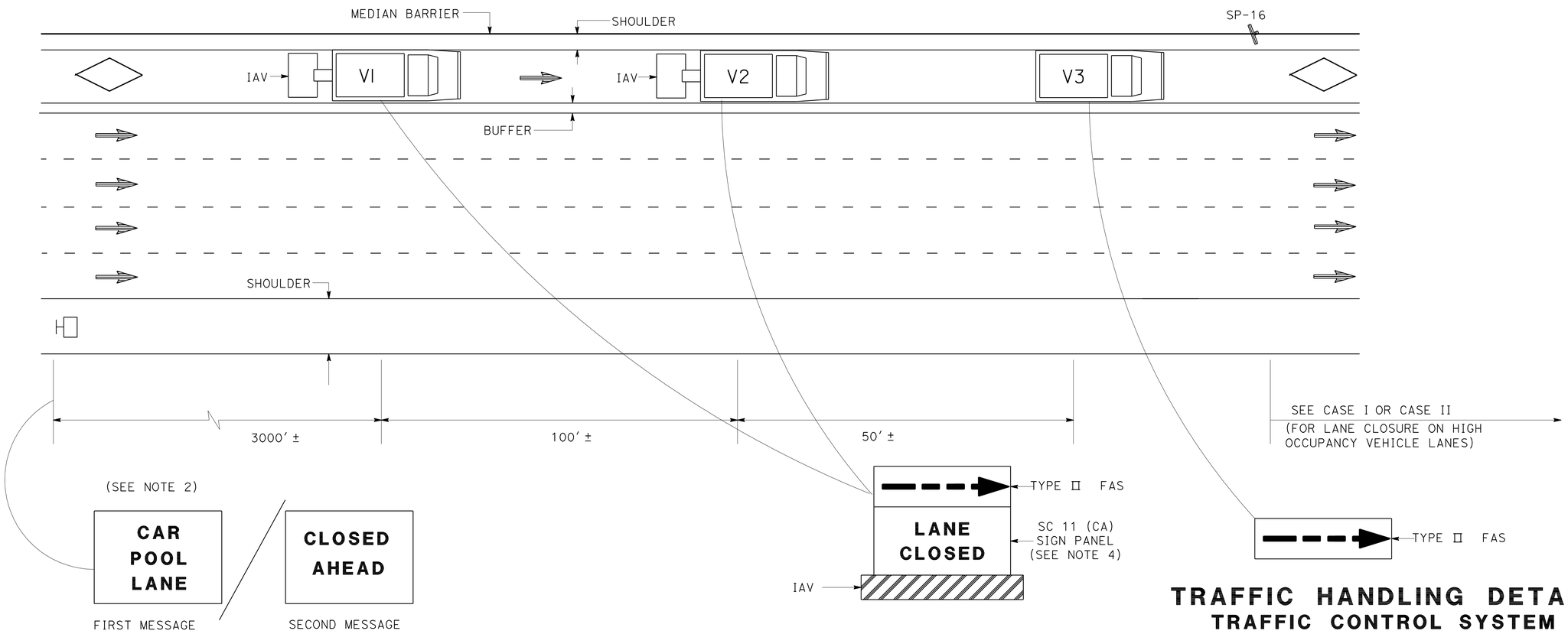
1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
5. PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.

LEGEND

V1, V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	DIRECTION OF TRAVEL
	HOV LANE

ABBREVIATIONS

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
HOV	HIGH OCCUPANCY VEHICLE



PCMS/TRUCK MOUNTED CMS
(SEE NOTE 5)

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES WITH MEDIAN SHOULDERS LESS THAN 8 FEET
NO SCALE

THD-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 00-00-00
DATE PLOTTED => 17-DEC-2010
TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	7	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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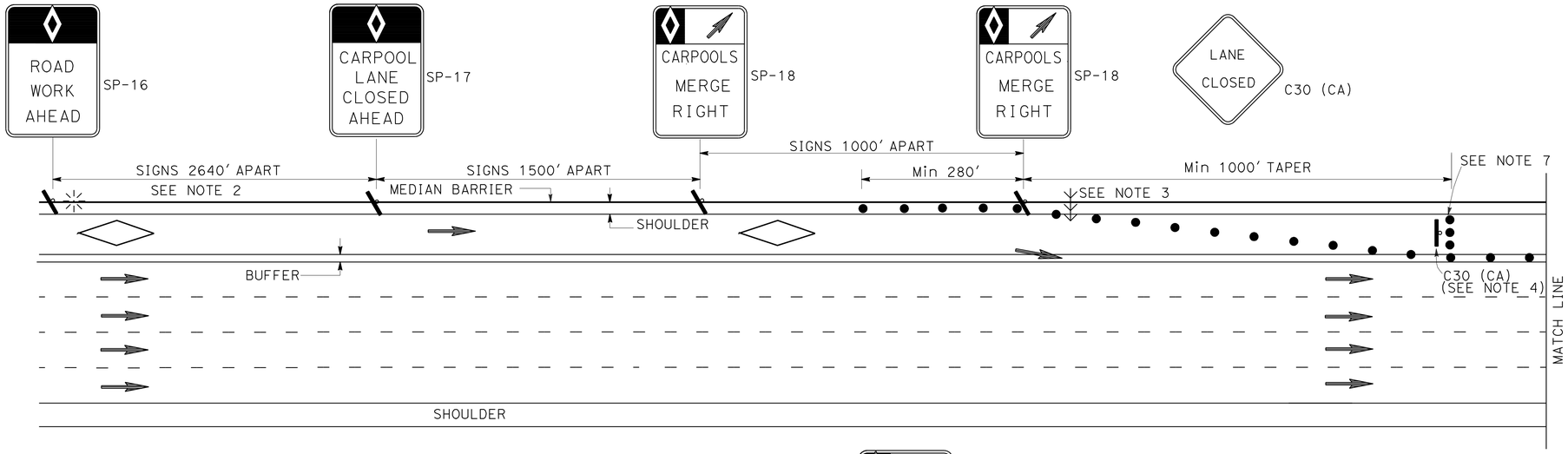

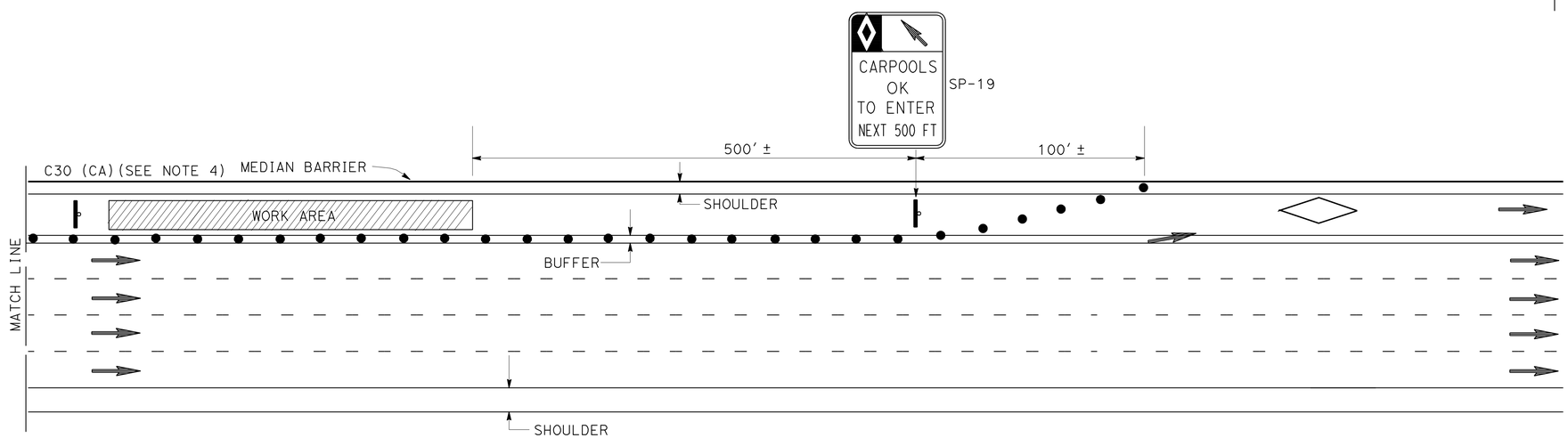

ABBREVIATIONS

(CA) CALIFORNIA CODE

HOV HIGH OCCUPANCY VEHICLE

NOTES: FOR CASE I AND CASE II

1. AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON SP-16 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS SHALL BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN SHALL BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE SHALL BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES SHALL BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES SHALL BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) SHALL BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 SHALL BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS SHALL BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES SHALL BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

LEGEND

- CONE
- FLASHING BEACON
- HOV LANE
- FLASHING ARROW SIGN
- PORTABLE SIGN
- DIRECTION OF TRAVEL

SIGN PANEL

SIZE (MIN)

SP-16 36" X 54"
SP-17 36" X 54"
SP-18 36" X 48"
SP-19 36" X 60"
C30 (CA) 30" X 30"
G20-2 48" X 24"

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AT NON-INGRESS/EGRESS AREAS
CASE I
NO SCALE

THD-5

REVISED BY	JC
DATE REVISED	7/10
ALBERT K YU	JOCELYN C CHIANG
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION DTM Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 17-DEC-2010 | TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	8	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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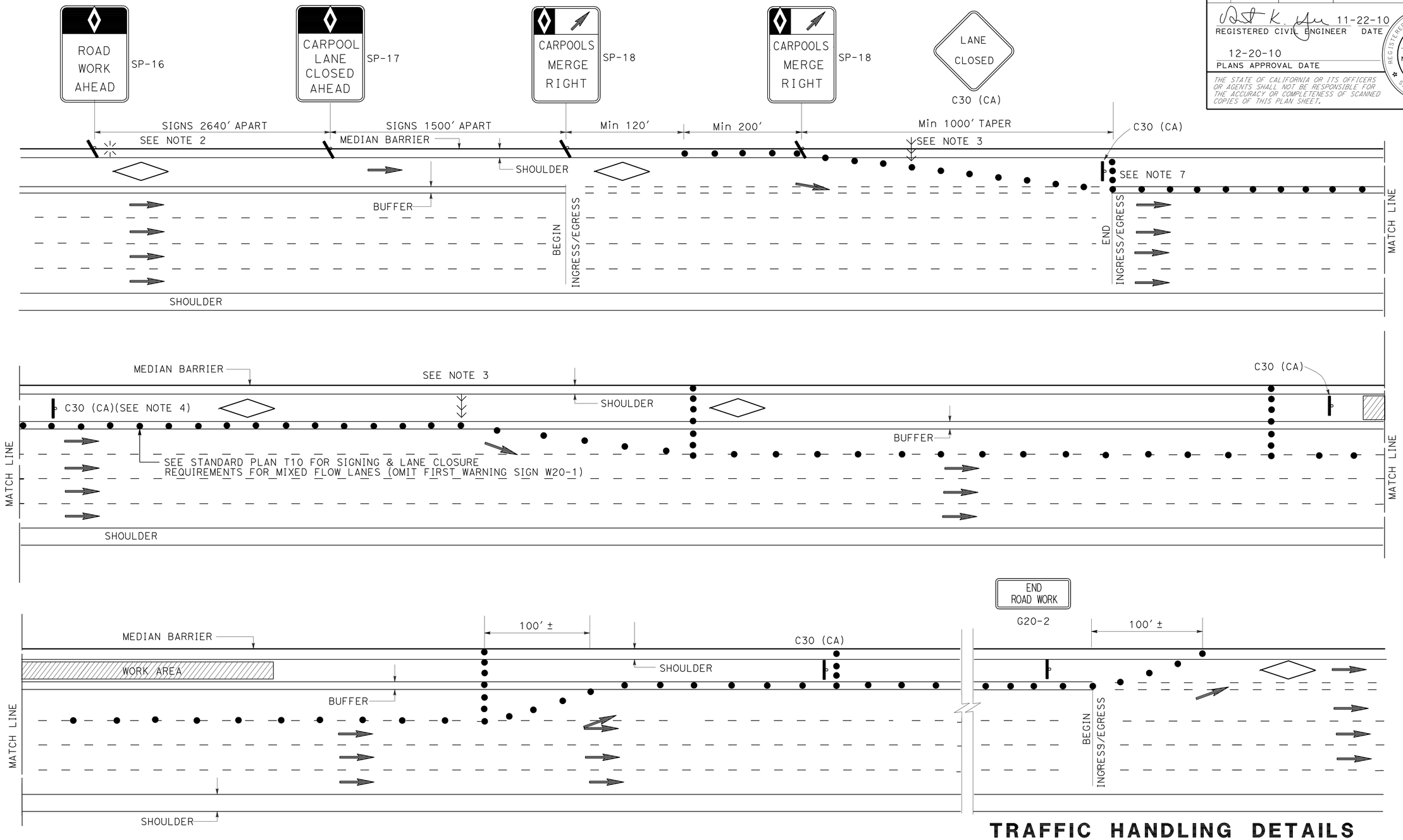

NOTES:

1. SEE CASE I FOR NOTES, LEGENDS AND ABBREVIATIONS FOR THIS SHEET.
2. CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AND ADJACENT FREEWAY LANES BETWEEN INGRESS/EGRESS AREAS
CASE II
NO SCALE

THD-6

REVISED BY	DATE REVISED
JC	7/10

ALBERT K YU — JOCELYN C CHIANG — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DTM — Caltrans

LAST REVISION 00-00-00 — DATE PLOTTED => 17-DEC-2010 — TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	9	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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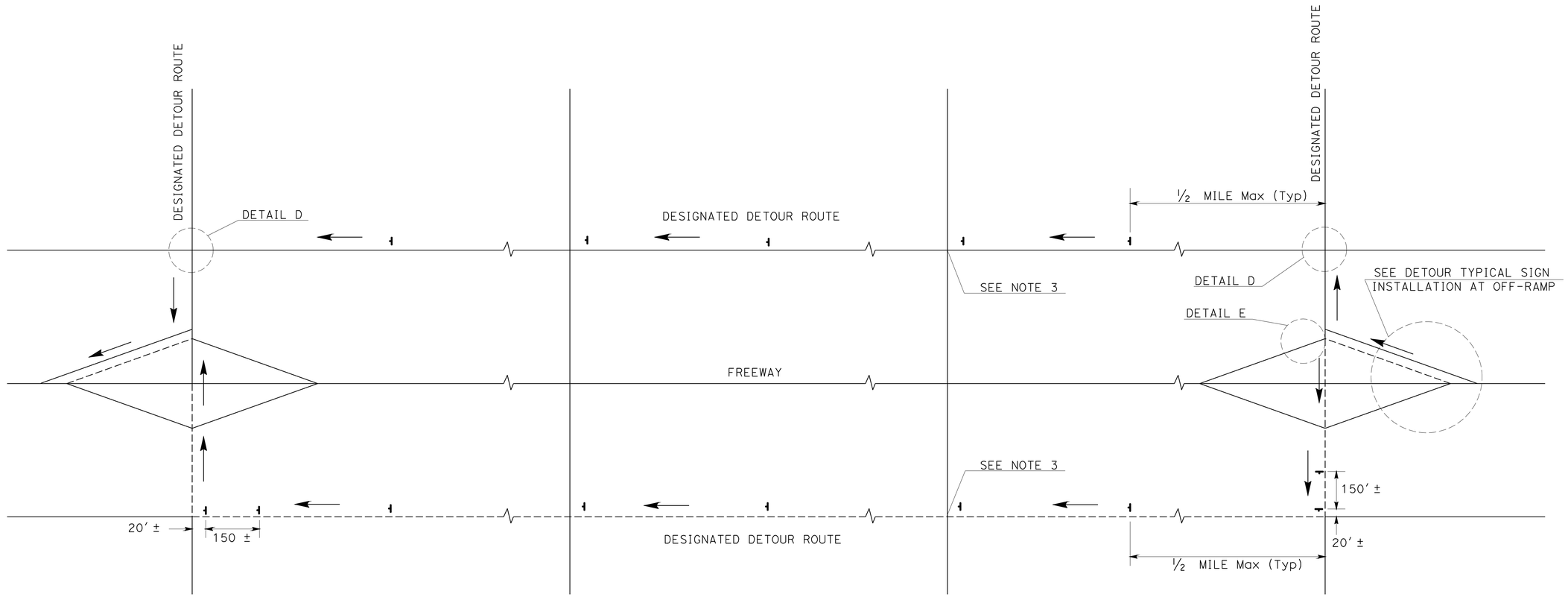

TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND

- SIGN SP-2
- AND/OR DESIGNATED DETOUR ROUTE
- DIRECTION OF TRAVEL

NOTES:

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR ½ MILE MAXIMUM APART.

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE SHEET 1 OF 2

NO SCALE

THD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 00-00-00 | DATE PLOTTED => 17-DEC-2010 | TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	10	25

REGISTERED CIVIL ENGINEER 11-22-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ALBERT K. YU No. C43220 Exp. 3-31-12 CIVIL STATE OF CALIFORNIA

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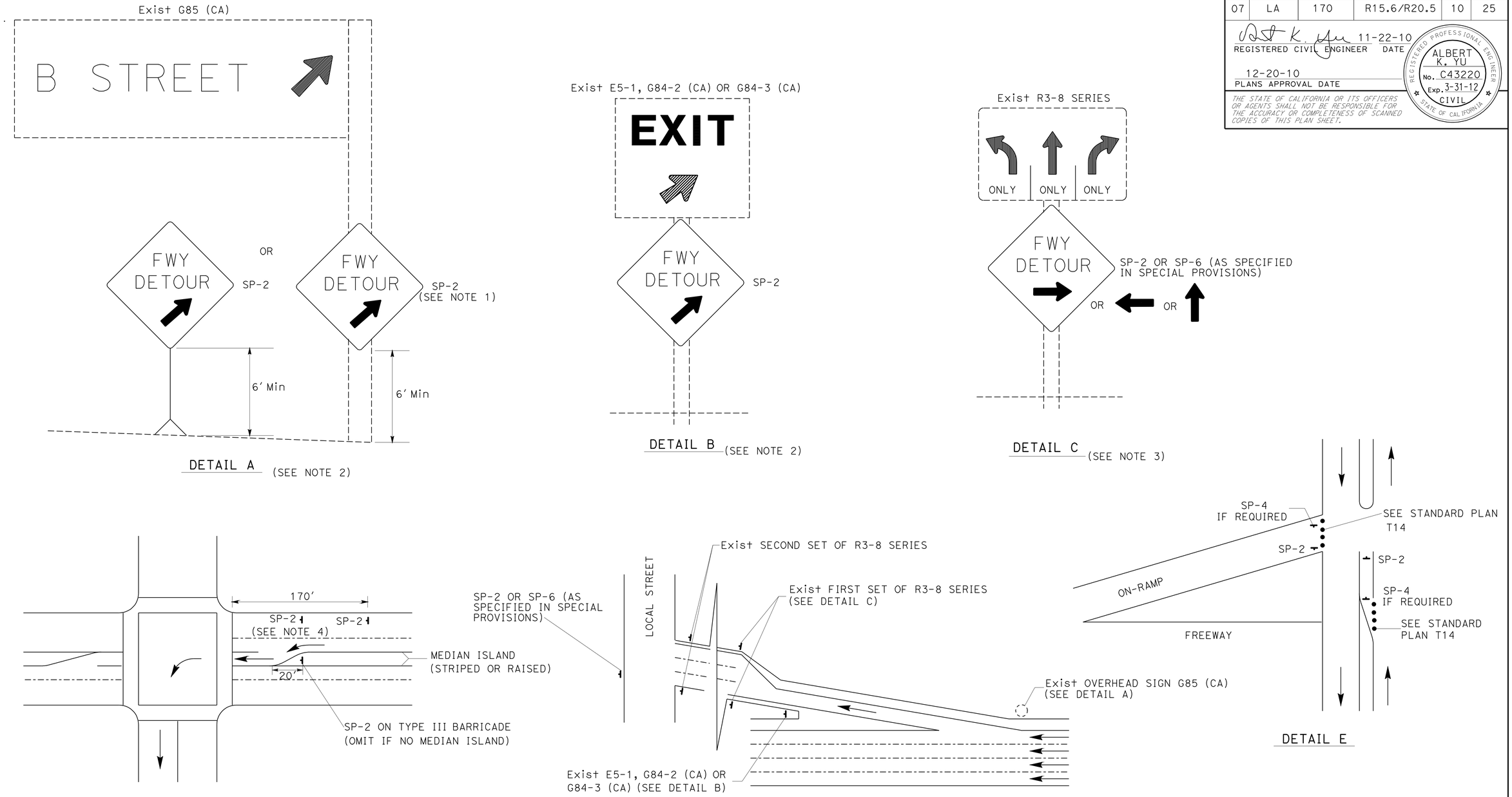

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES:

1. SP-2 MAY BE STRAPPED ON EXISTING ELECTROLIER SIGNAL POSTS OR SIGN POSTS.
2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.
4. OMIT IF MEDIAN ISLAND EXIST.

ABBREVIATIONS

(CA) CALIFORNIA CODE

LEGENDS

- • CONE
- PORTABLE SIGN
- → DIRECTION OF TRAVEL
- ◌ EXISTING OVERHEAD SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2
NO SCALE

THD-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DTM
Caltrans

FUNCTIONAL SUPERVISOR: JOHN YANG
CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
REVISED BY: JC
DATE REVISED: 7/10

LAST REVISION 00-00-00
DATE PLOTTED => 17-DEC-2010
TIME PLOTTED => 14:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	11	25

REGISTERED CIVIL ENGINEER 11-24-10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER DEBORAH WONG No. C58313 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA

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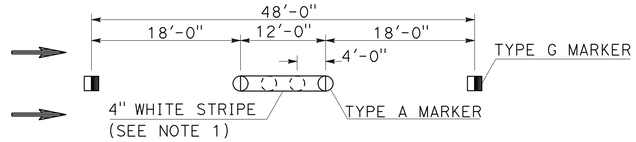
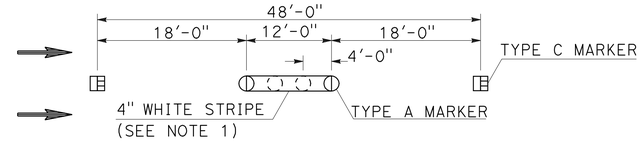
NOTES:

1. PLACE 4" WIDE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NON-REFLECTIVE MARKERS.



DETAIL 13 (MODIFIED)



DETAIL 14 (MODIFIED)

PAVEMENT DELINEATION QUANTITIES

LOCATION	Co	PM	BRIDGE No.	BRIDGE NAME	DIRECTION	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER					REMOVE			
												RETROREFLECTIVE							
						DETAIL 25	HIGH OCCUPANCY VEHICLE (HOV)		DETAIL 27B	DETAIL 13/14 (MOD)	DETAIL 13/14 (MOD)	DETAIL 13/14	DETAIL 25	HOV	THERMOPLASTIC PAVEMENT MARKING (DIAGONALS, SYMBOLS, WORDS,LIMIT LINES,ARROWS)	PAVEMENT MARKER	YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING (DIAGONALS, SYMBOLS, WORDS,LIMIT LINES,ARROWS)
						4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	4" SOLID WHITE	4" BROKEN WHITE (36 - 12)	TYPE A NON-REFLECTIVE	TYPE G	TYPE H	TYPE H					
						LF	LF	LF	LF	LF	EA	EA	EA	EA		EA	LF	LF	SQF
1	LA	14.78	53-1344	RIVESIDE/TUJUNGA UC	SB	550	1100	550	550	1650	138	38	13	48		237	1650	1513	
					NB	550	1100	550	550	1650	138	38	13	48		237	1650	1513	
2	LA	15.37	53-1503	MAGNOLIA Blvd UC	SB	167	334	167	167	501	42	14	5	16		77	501	460	
					NB	167	334	167	167	501	42	14	5	16		77	501	460	
3	LA	15.63	53-1644	CHANDLER Blvd UC	SB	294	588	294	294	882	74	22	8	27		131	882	809	
					NB	294	588	294	294	882	74	22	8	27	22	153	882	809	22
4	LA	15.91	53-1683	COLFAX Ave UC	SB	214	428	214	214	642	54	17	6	20	39	136	642	589	39
					NB	214	428	214	214	642	54	17	6	20	73	170	642	589	73
5	LA	15.99	53-1684	BURBANK Blvd UC	SB	262	524	262	262	786	66	20	7	24	11	128	786	721	11
					NB	262	524	262	262	786	66	20	7	24		117	786	721	
6	LA	16.63	53-1685	OXNARD St UC	SB	181	362	181	181	543	46	15	5	18		84	543	498	
					NB	181	362	181	181	543	46	15	5	18		84	543	498	
7	LA	16.77	53-1686	LAUREL CANYON Blvd UC	SB	272				816	68	20	7			95	272	476	
					NB	272				816	68	20	7			95	272	476	
8	LA	17.13	53-1700S	VICTORY Blvd RAMP Sep	SB	116							4			4	116	116	
					NB	116							4				116	87	
9	LA	17.33	53-1701K	VICTORY Blvd RAMP Sep	SB	128							4			4	128	128	
					NB	128							4				128	96	
10	LA	17.25	53-1687S	VICTORY Blvd UC	SB	168				168	14	5	5			24	168	210	
					NB	168							5				168	126	
11	LA	17.25	53-1687	VICTORY Blvd UC	SB	173	346	173	173	519	44	14	5	17		80	519	476	
					NB	173	346	173	173	519	44	14	5	17		80	519	476	
12	LA	17.25	53-1687K	VICTORY Blvd UC	SB	168				168	14	5	5			24	168	210	
					NB	168							5				168	126	
13	LA	17.76	53-1672	VANOWEN St UC	SB	145	290	145	145	435	37	13	5	15		70	435	399	
					NB	145	290	145	145	435	37	13	5	15		70	435	399	
14	LA	18.16	53-1682S	SHERMAN WAY Sep	SB	132							4			4	132	132	
					NB	132							4				132	99	
15	LA	19.30	53-1676	STRATHERN St UC	SB	145	290	145	145	435	37	13	5	15		70	435	399	
					NB	145	290	145	145	435		13	5	15		70	435	399	
16	LA	20.10	53-1763	ARLETA/SHELDEN St UC	SB	482				1446		34	12			167	482	844	
					NB	482				964	121	23	12			116	482	723	
17	LA	20.52	53-1122G	ROUTE 5/170 Sep	SB	550				550	81	13	13			72	550	138	
					NB	550					46		13				550	412	
SUBTOTAL						8,294	8,524	4,262	4,262	17,714	1,451	452	226	400	145	2,676	16,818	16,127	145
TOTAL						25,342				17,714	1,451	1078			145	2,676	16,818	16,127	145

PAVEMENT DELINEATION QUANTITIES

PDQ-1

REVISED BY	DATE REVISED
DINESH BHAVSAR	DEBORAH WONG
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	MONIR IBRAHIM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

LAST REVISION 06-28-10 DATE PLOTTED => 17-DEC-2010 TIME PLOTTED => 14:13

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	12	25

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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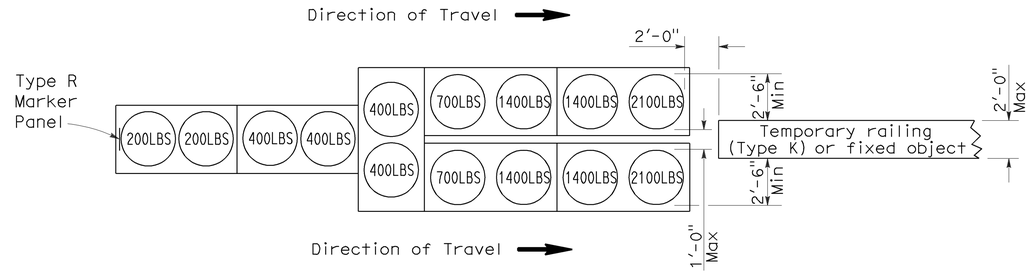
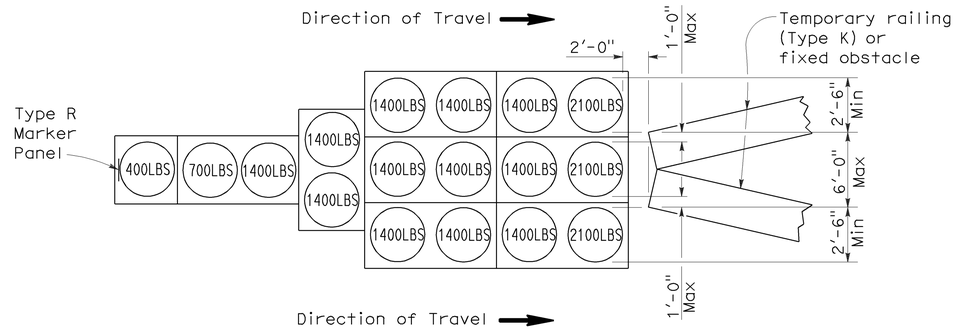
To accompany plans dated 12-20-10



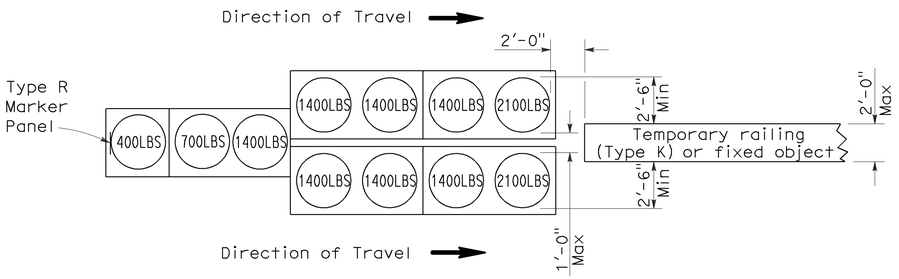
ARRAY 'TU14'

Approach speed 45 mph or more



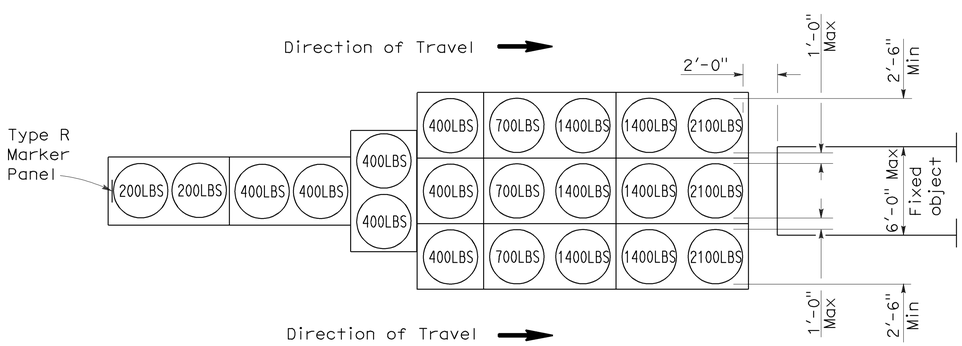
ARRAY 'TU17'

Approach speed less than 45 mph



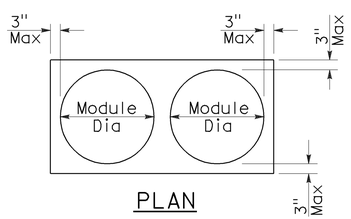
ARRAY 'TU11'

Approach speed less than 45 mph

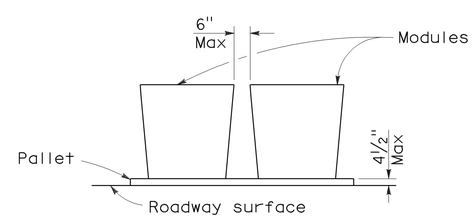


ARRAY 'TU21'

Approach speed 45 mph or more



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	170	R15.6/R20.5	13	25

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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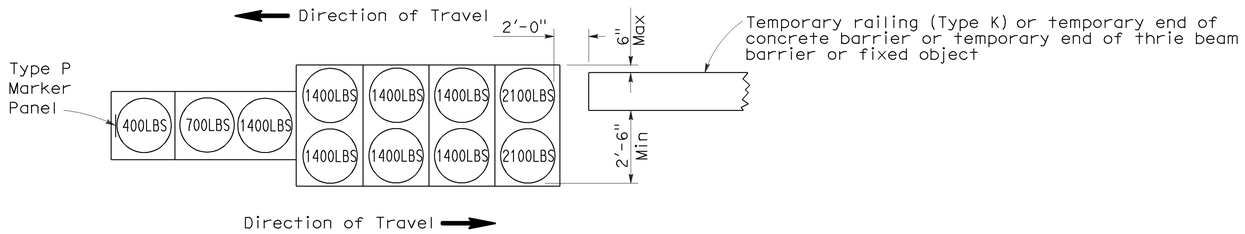
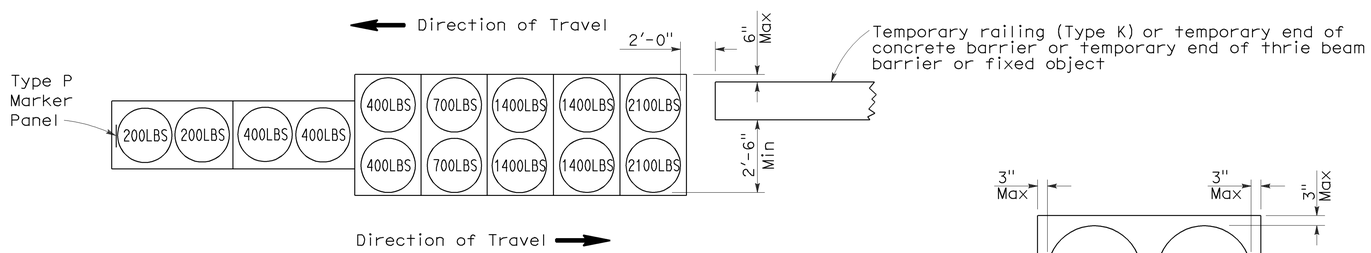
To accompany plans dated 12-20-10



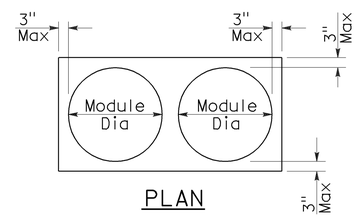
ARRAY 'TB11'

Approach speed less than 45 mph

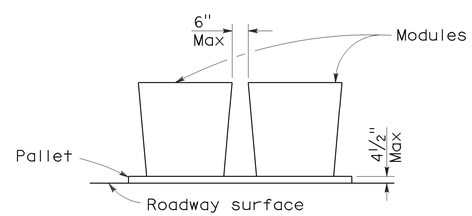


ARRAY 'TB14'

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
07	LA	170	R15.6/R20.5	14	25

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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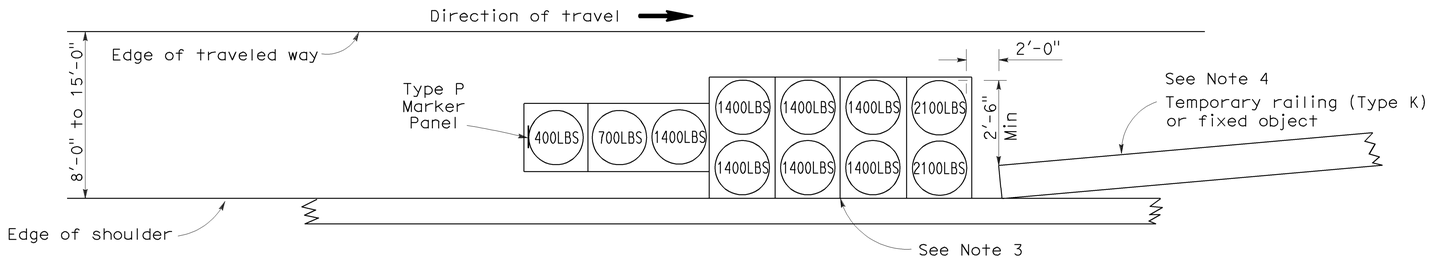
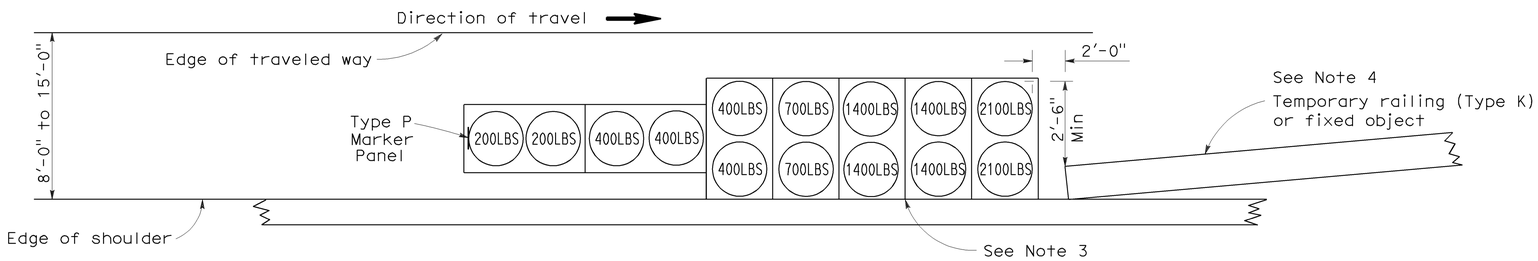
To accompany plans dated 12-20-10



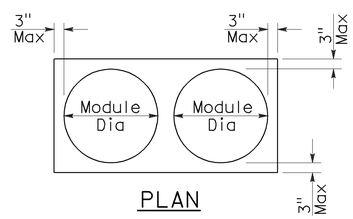
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

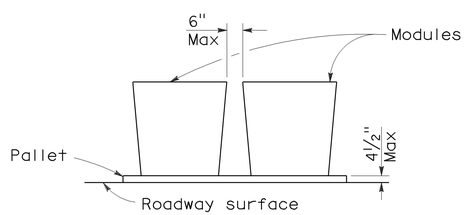


ARRAY 'TS14'

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
07	LA	170	R15.6/R20.5	15	25

REGISTERED CIVIL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Efthymios Delis No. C51434 Exp. 6-30-08 CIVIL STATE OF CALIFORNIA

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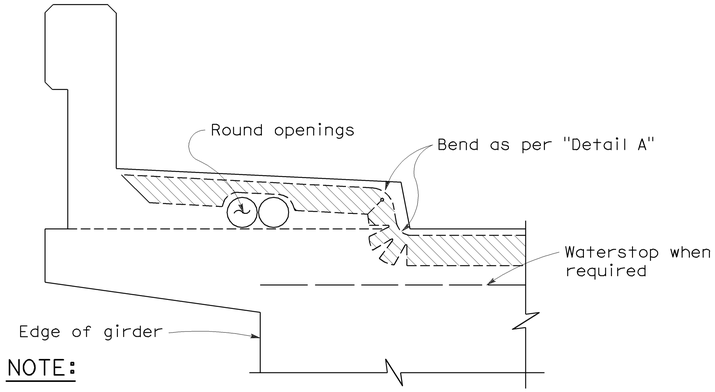
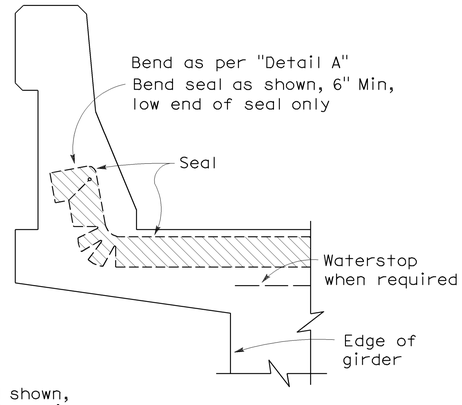
To accompany plans dated 12-20-10



NOTE:

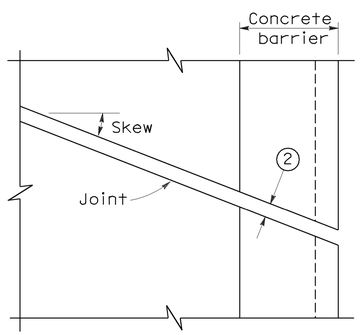
Type "B" seal shown. Type "A" seals to comform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK

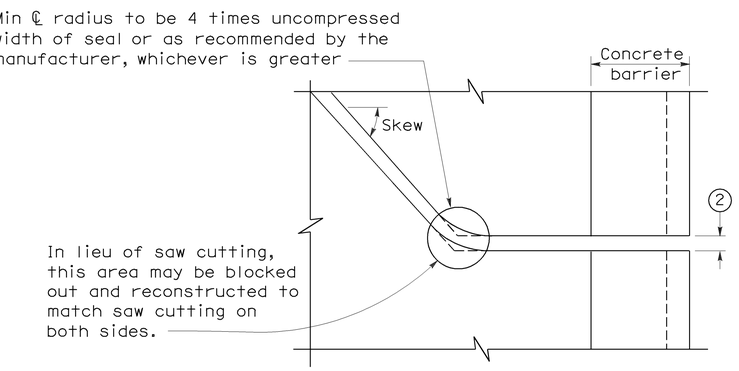


CONCRETE BARRIER

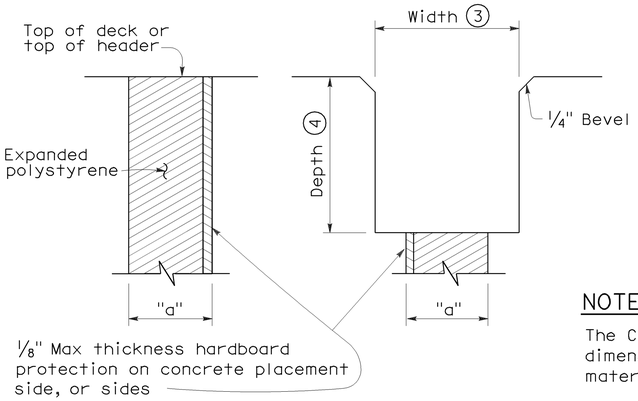
JOINT SEALS DETAILS



PLAN OF JOINT (SKEW ≤ 20°)



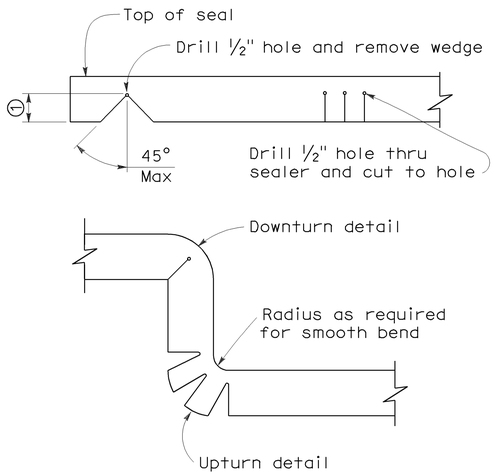
PLAN OF JOINT (SKEW > 20°)



FORMING DETAIL SAWCUT DETAIL

NOTE:

The Contractor shall verify all controlling field dimensions before ordering or fabricatiing any material.



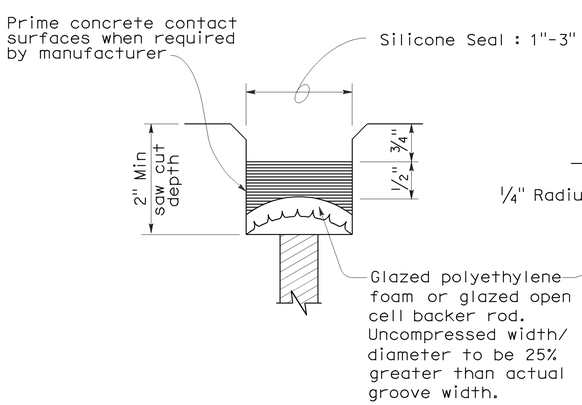
DETAIL A

NOTES:

1. Make smooth cuts from the bottom of seal to 1½" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
2. Opening in barrier to match width of sawn deck joint.
3. Sawcut groove widths shall be as ordered by the Engineer.
4. Depth of sawcut: Type A - Depth to be 2" minimum.
   Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W_2) plus dimensions shown.
5. MR (movement rating) as shown on other plan sheets.
6. Other depths must be approved by the Engineer.

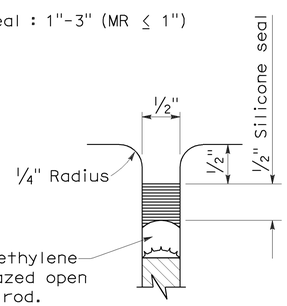
DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) 5	Bridge Type	"a" Dimension Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1½"	1¼"	¾"
	CIP/PS	1¼"	1"	½"
1½"	All except CIP/PS	1¼"	1"	½"
	CIP/PS	1"	¾"	½"
1"	All except CIP/PS	1"	¾"	½"
	CIP/PS	¾"	½"	½"
½"	All except CIP/PS	¾"	¾"	½"
	CIP/PS	½"	½"	½"



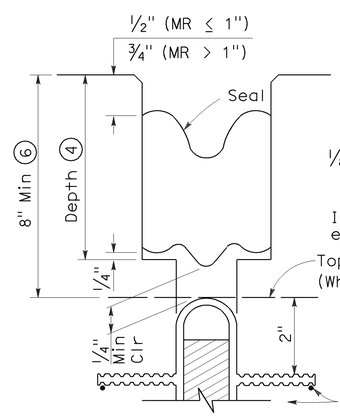
TYPE A SEAL

Movement rating : Silicone = 1" Max

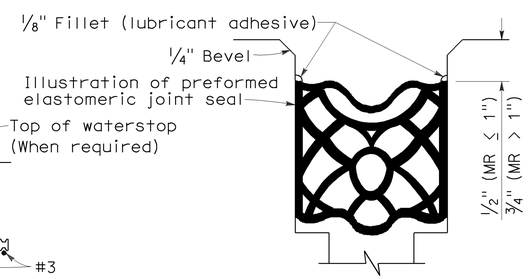


TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL
IN MINIMUM WIDTH POSITION (W_2)



TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

NO SCALE

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP B6-21

2006 REVISED STANDARD PLAN RSP B6-21

5-8-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	16	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	MISCELLANEOUS DETAILS NO. 1
9	MISCELLANEOUS DETAILS NO. 2
10	MISCELLANEOUS DETAILS NO. 3

STANDARD PLANS DATED MAY 2006

SHEET NO.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
A77F2	MBGR TYPICAL LAYOUTS FOR STRUCTURE APPROACH AND BETWEEN STRUCTURES
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")
B7-6	DECK DRAINS TYPES D-1 AND D-2

STANDARD PLAN SHEET NO.

DETAIL NO.

LEGEND:

Indicates existing.

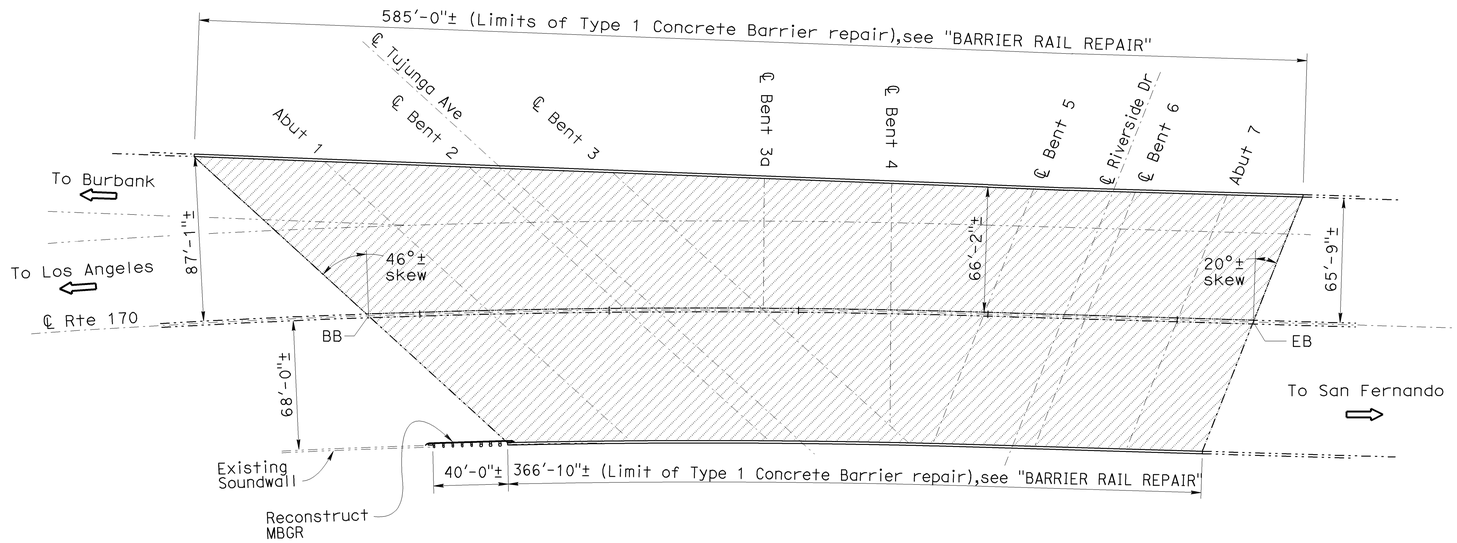
Indicates direction of traffic.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

Indicates repair spalled surface area.

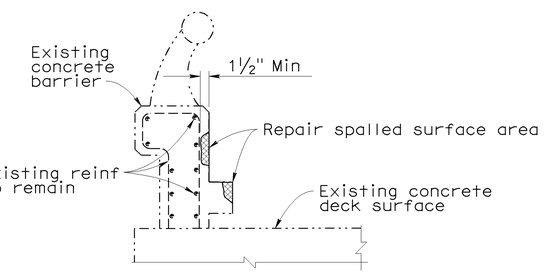
BARRIER REPAIR NOTES:

1. Existing reinforcement shall be protected in place during repair of spalled surface area.
2. It is the responsibility of the Contractor to repair any reinforcement that is accidently cut by sawcutting operations.
3. Repair spalled surface area by exposing sound hard concrete substrate. Replace original surface with rapid setting concrete patch.



RIVERSIDE-TUJUNGA UC

Br No. 53-1344 Rte 170, PM R14.78
1" = 40'



BARRIER RAIL REPAIR

NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

RIVERSIDE-TUJUNGA UC — BRIDGE NO. 53-1344

QUANTITIES

REMOVE UNSOUND CONCRETE	164	CF
CLEAN BRIDGE DECK	65,420	SQFT
RAPID SETTING CONCRETE (PATCH)	164	CF
REPAIR SPALLED SURFACE AREA	40	SQFT
TREAT BRIDGE DECK	65,420	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	820	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

BARRIER RAIL REPAIR

BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQFT)	APPROX AREA DAMAGED
RIVERSIDE-TUJUNGA UC	53-1344	1910	2%

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
LAYOUT — BY Tom Dang — CHECKED Gerald Joo
SPECIFICATIONS — BY Erwin Rufino — PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. 53-1344
POST MILE R14.78

ROUTE 170 BRIDGES
GENERAL PLAN NO. 1

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES — REVISION DATES 7-11-10 7-12-10 7-14-10 7-16-10

SHEET 01 OF 10

FILE => 01.dgn

USERNAME = s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	17	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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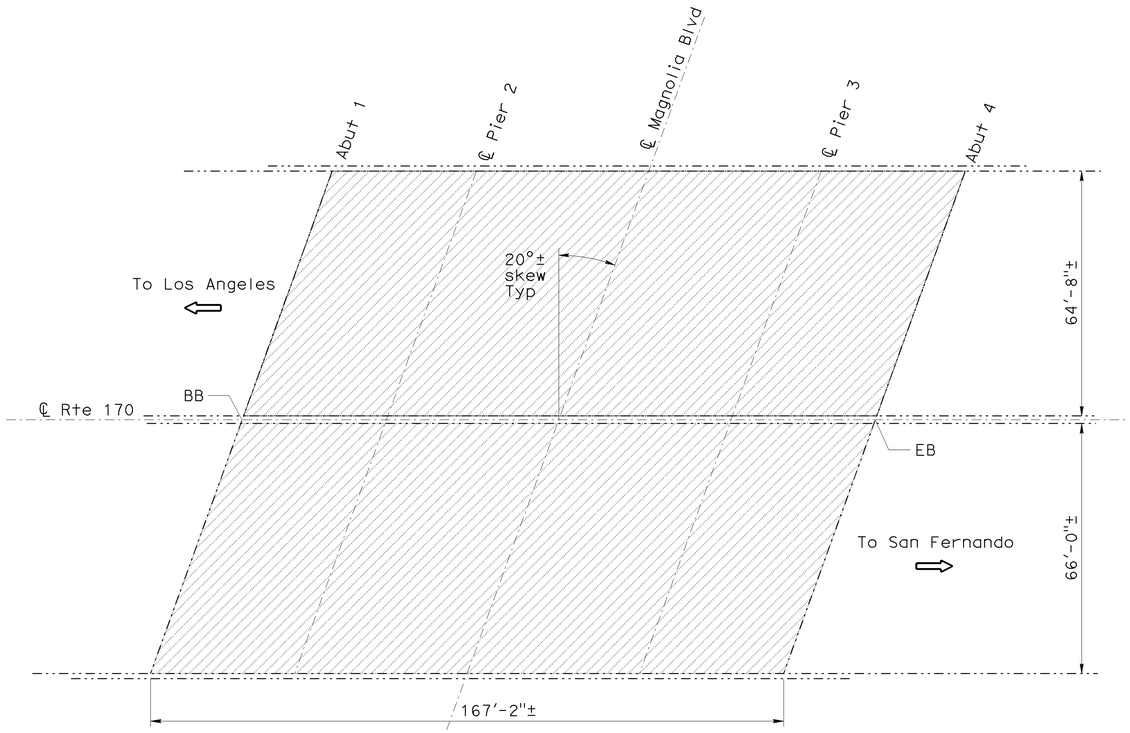
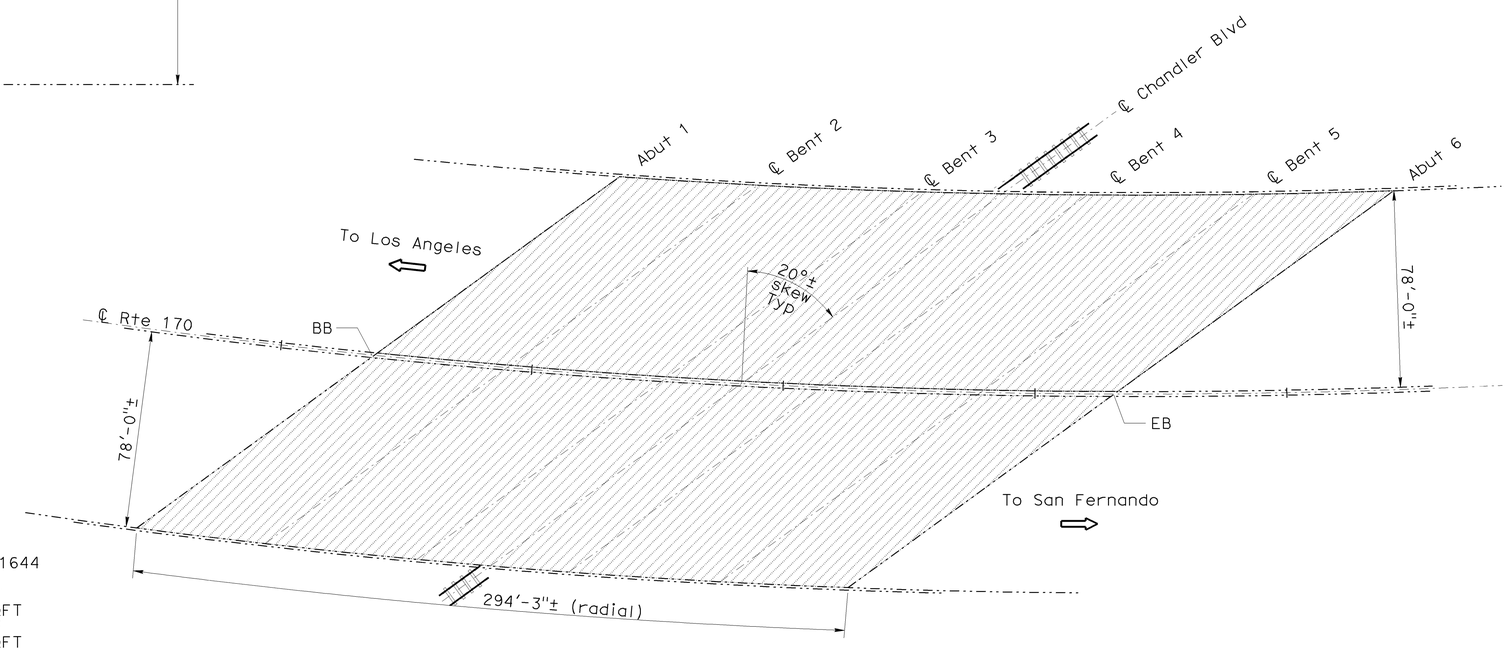


MAGNOLIA BLVD UC

Br No. 53-1503 Rte 170, PM R15.37
1" = 20'

MAGNOLIA BLVD UC — BRIDGE NO. 53-1503

QUANTITIES		
REMOVE UNSOUND CONCRETE	55	CF
CLEAN BRIDGE DECK	21,877	SQFT
RAPID SETTING CONCRETE (PATCH)	55	CF
TREAT BRIDGE DECK	21,870	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	275	GAL
PUBLIC SAFETY PLAN	LUMP SUM	



CHANDLER BLVD OH

Br No. 53-1644 Rte 170, PM R15.63
1" = 30'

CHANDLER BLVD OH — BRIDGE NO. 53-1644

QUANTITIES		
REMOVE UNSOUND CONCRETE	115	CF
CLEAN BRIDGE DECK	45,920	SQFT
RAPID SETTING CONCRETE (PATCH)	115	CF
TREAT BRIDGE DECK	45,920	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	574	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY Tom Dang	CHECKED Gerald Joo
SPECIFICATIONS	BY Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 2

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07
EA 3Y6601

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 3-11-10

REVISION DATES

SHEET 02 OF 10

FILE => 02.dgn

USERNAME => s129233 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	18	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

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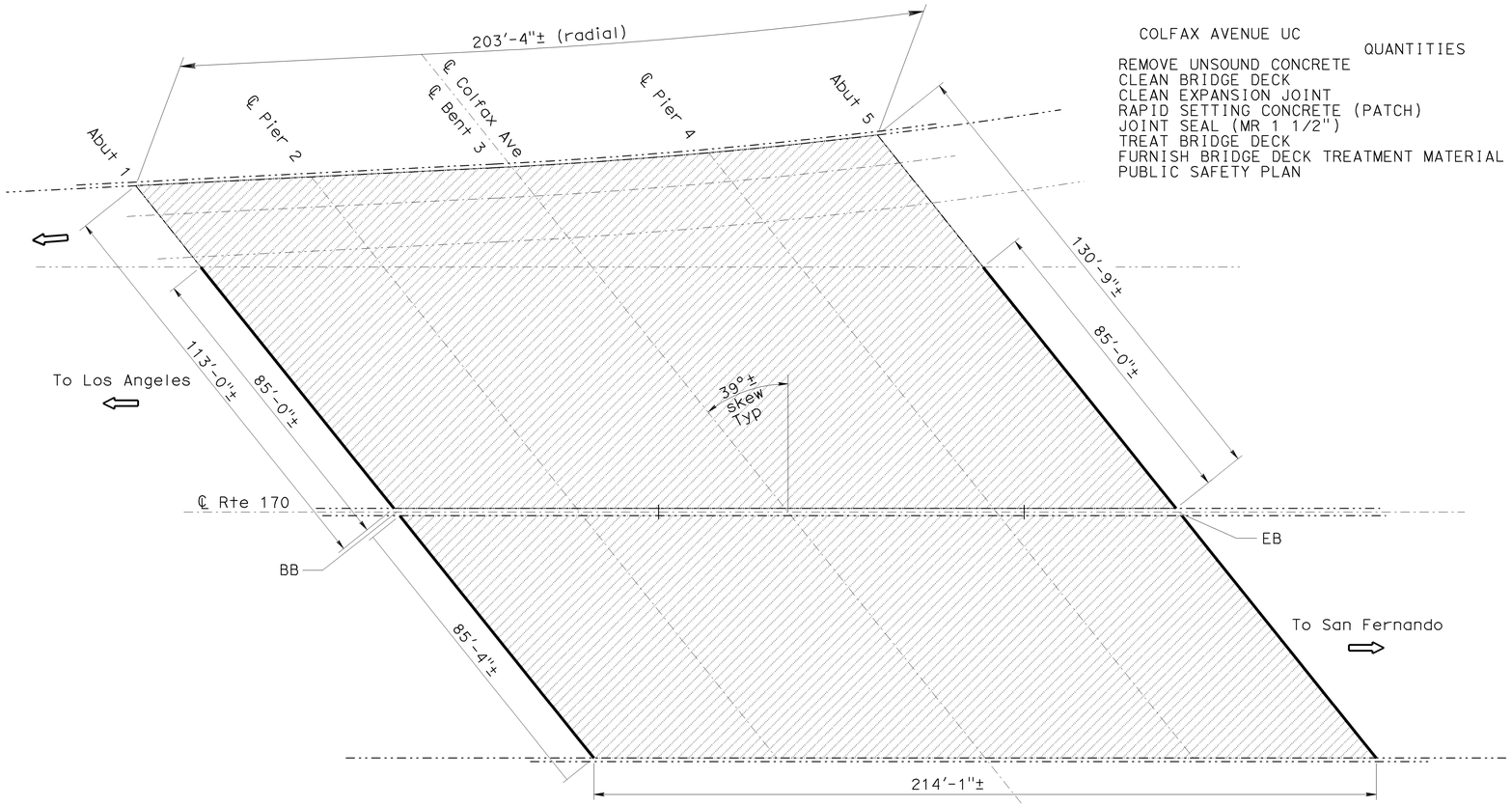
REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA



COLFAX AVENUE UC

QUANTITIES		
REMOVE UNSOUND CONCRETE	93	CF
CLEAN BRIDGE DECK	34,330	SQFT
CLEAN EXPANSION JOINT	342	LF
RAPID SETTING CONCRETE (PATCH)	93	CF
JOINT SEAL (MR 1 1/2")	342	LF
TREAT BRIDGE DECK	34,330	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	430	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

BRIDGE NO. 53-1683

COLFAX AVENUE UC

Br No. 53-1683 Rte 170, PM R15.91
1" = 20'

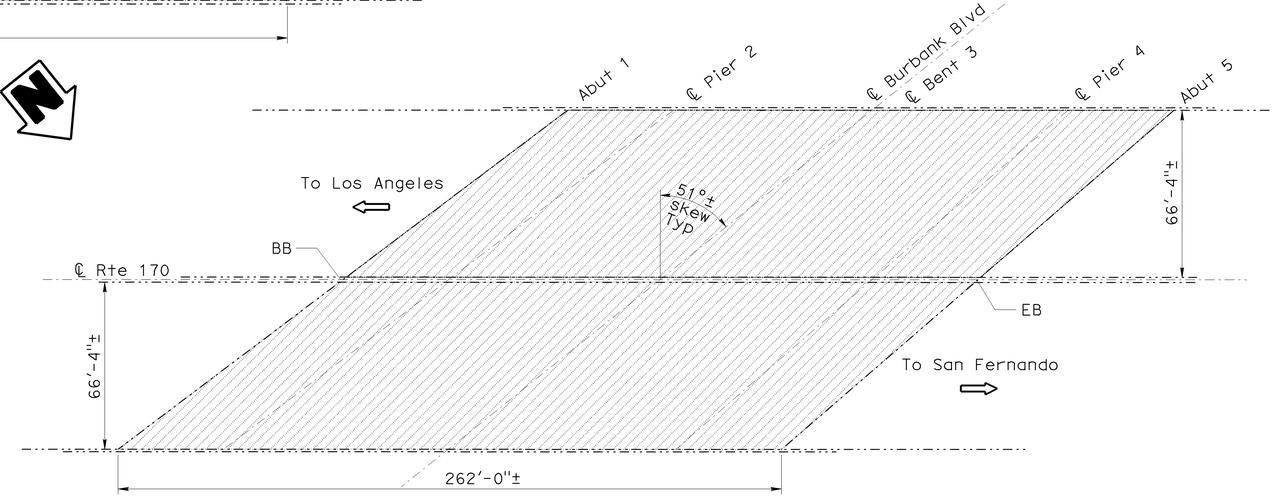
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

Indicates location of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal repair joint spalls.



BURBANK BLVD UC

QUANTITIES		
REMOVE UNSOUND CONCRETE	90	CF
CLEAN BRIDGE DECK	34,750	SQFT
RAPID SETTING CONCRETE (PATCH)	90	CF
TREAT BRIDGE DECK	34,750	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	435	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

BRIDGE NO. 53-1684

BURBANK BLVD UC

Br No. 53-1684 Rte 170, PM R15.99
1" = 30'

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED			
DESIGN	Gerald Joo	Edward Li	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	Tom Dang	Gerald Joo	LAYOUT	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li	SPECIFICATIONS	Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 3

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 03 OF 10

FILE => 03.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	19	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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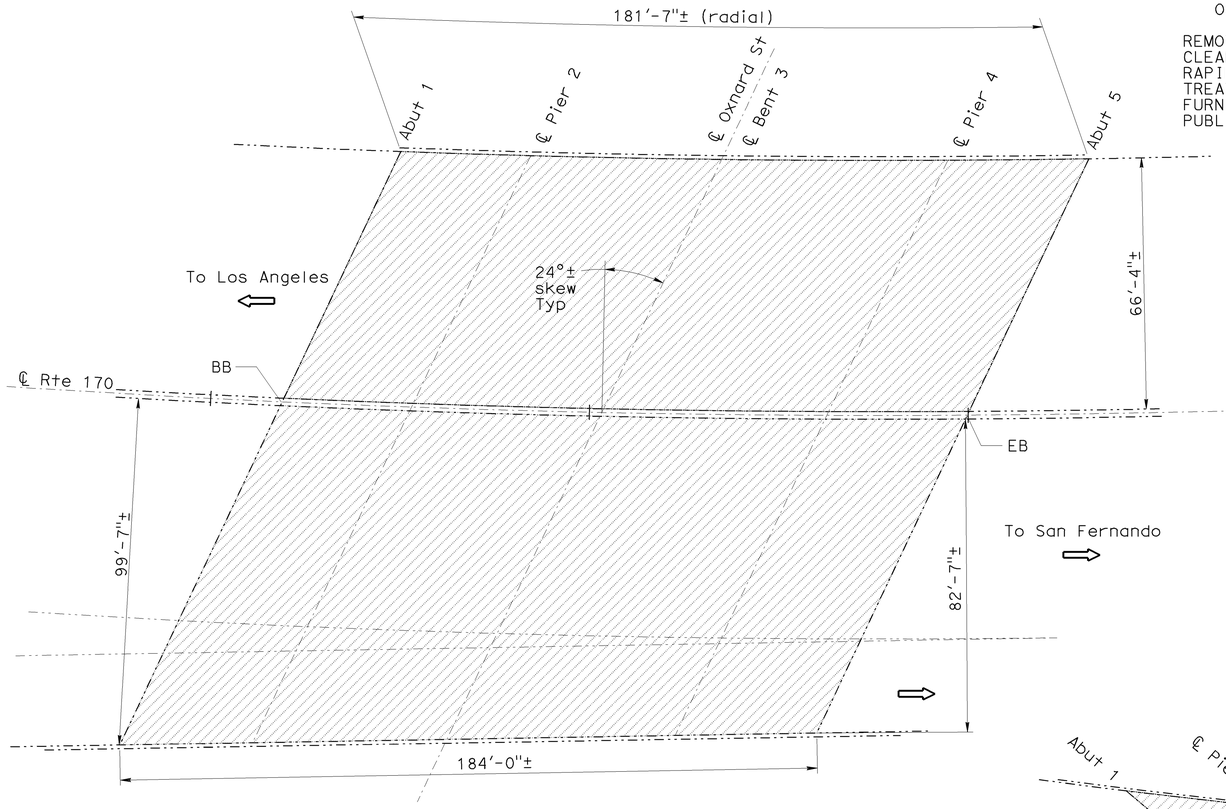


OXNARD STREET UC

Br No. 53-1685 Rte 170, PM R16.63
1" = 20'

OXNARD STREET UC — BRIDGE NO. 53-1685

QUANTITIES		
REMOVE UNSOUND CONCRETE	70	CF
CLEAN BRIDGE DECK	27,640	SQFT
RAPID SETTING CONCRETE (PATCH)	70	CF
TREAT BRIDGE DECK	27,640	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	350	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

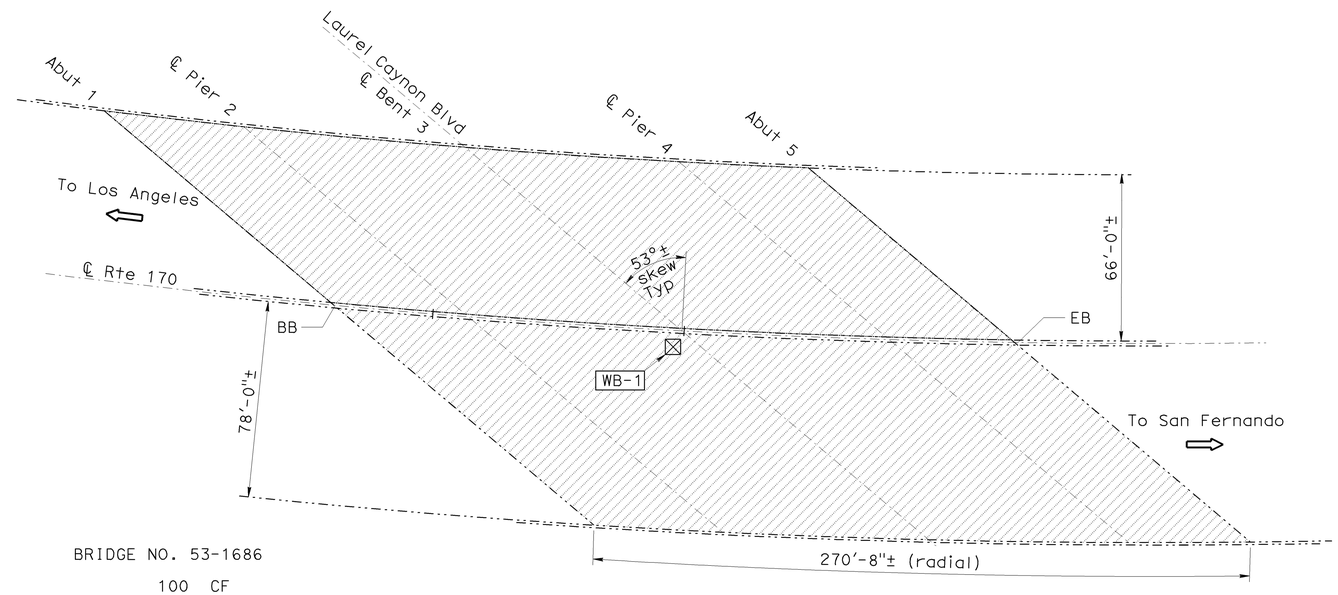
LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

xx-x — Indicates approximate location of cleanout plugged drain pipe, see "MISCELLANEOUS DETAILS NO. 3" sheet.



LAUREL CANYON BLVD UC

Br No. 53-1686 Rte 170, PM R16.77
1" = 30'

LAUREL CANYON BLVD UC — BRIDGE NO. 53-1686

QUANTITIES		
REMOVE UNSOUND CONCRETE	100	CF
CLEAN BRIDGE DECK DRAINAGE SYSTEM	42	LF
CLEAN BRIDGE DECK	38,990	SQFT
RAPID SETTING CONCRETE (PATCH)	100	CF
TREAT BRIDGE DECK	38,990	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	490	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY Tom Dang	CHECKED Gerald Joo
SPECIFICATIONS	BY Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 4

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 7-14-10 7-15-10 7-16-10

SHEET 04 OF 10

FILE => 04.dgn

USERNAME => s129239 DATE PLOTTED => 20-JUL-2010 TIME PLOTTED => 09:33

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	20	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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LEGEND:

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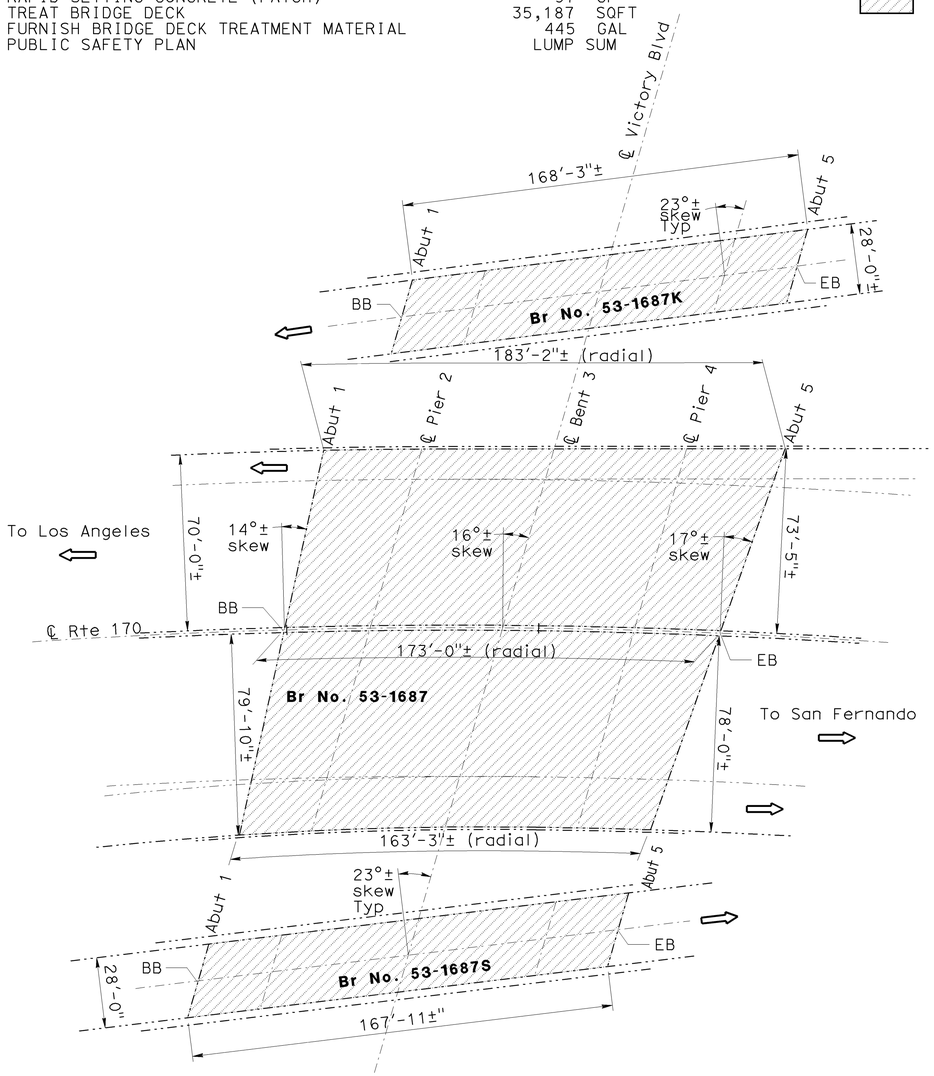
VICTORY BLVD UC — BRIDGE NO. 53-1687/K/S

QUANTITIES		
REMOVE UNSOUND CONCRETE	97	CF
CLEAN BRIDGE DECK	35,187	SQFT
RAPID SETTING CONCRETE (PATCH)	97	CF
TREAT BRIDGE DECK	35,187	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	445	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



VICTORY BLVD UC

Br No. 53-1687,1687K/S Rte 170, PM R17.25
1" = 30'

NOTE:
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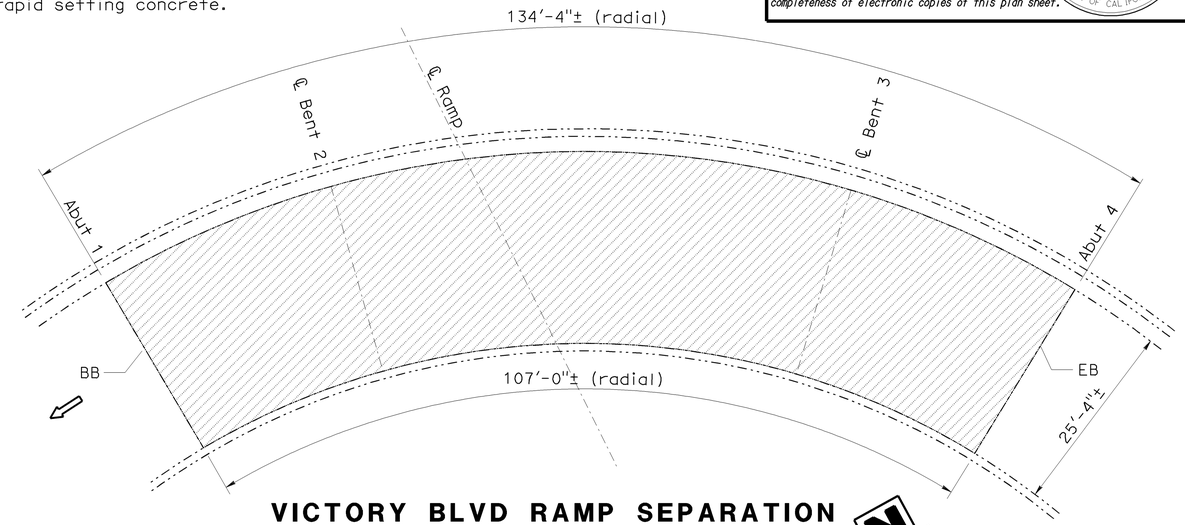
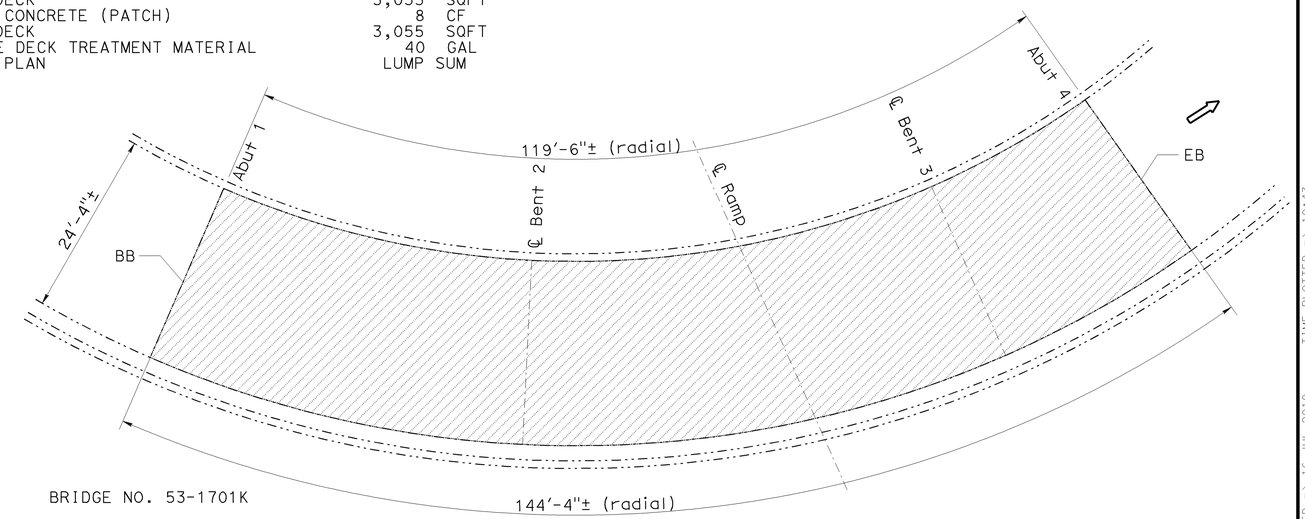


VICTORY BLVD RAMP SEPARATION

Br No. 53-1700S Rte 170, PM R17.13
1" = 10'

VICTORY BLVD RAMP SEPARATION — BRIDGE NO. 53-1700S

QUANTITIES		
REMOVE UNSOUND CONCRETE	8	CF
CLEAN BRIDGE DECK	3,055	SQFT
RAPID SETTING CONCRETE (PATCH)	8	CF
TREAT BRIDGE DECK	3,055	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40	GAL
PUBLIC SAFETY PLAN	LUMP	SUM



VICTORY BLVD RAMP SEPARATION

Br No. 53-1701K Rte 170, PM R17.33
1" = 10'

VICTORY BLVD RAMP SEPARATION — BRIDGE NO. 53-1701K

QUANTITIES		
REMOVE UNSOUND CONCRETE	8	CF
CLEAN BRIDGE DECK	3,205	SQFT
RAPID SETTING CONCRETE (PATCH)	8	CF
TREAT BRIDGE DECK	3,205	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40	GAL
PUBLIC SAFETY PLAN	LUMP	SUM

TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY Tom Dang	CHECKED Gerald Joo
SPECIFICATIONS	BY Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 5

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 05 OF 10

FILE => 05.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	21	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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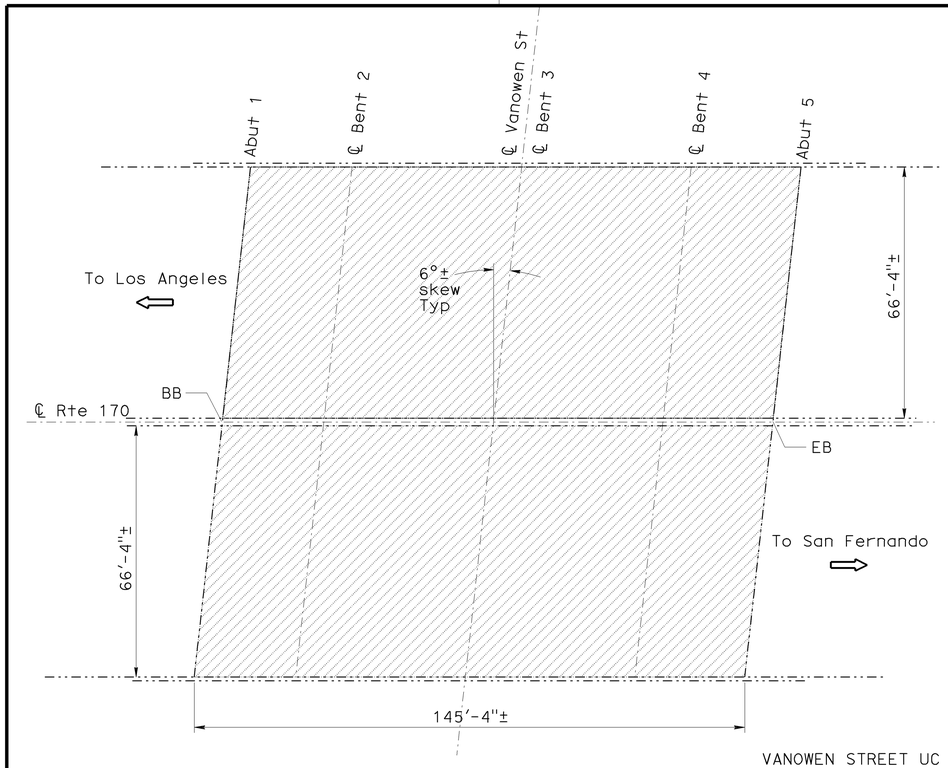
Indicates direction of traffic.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

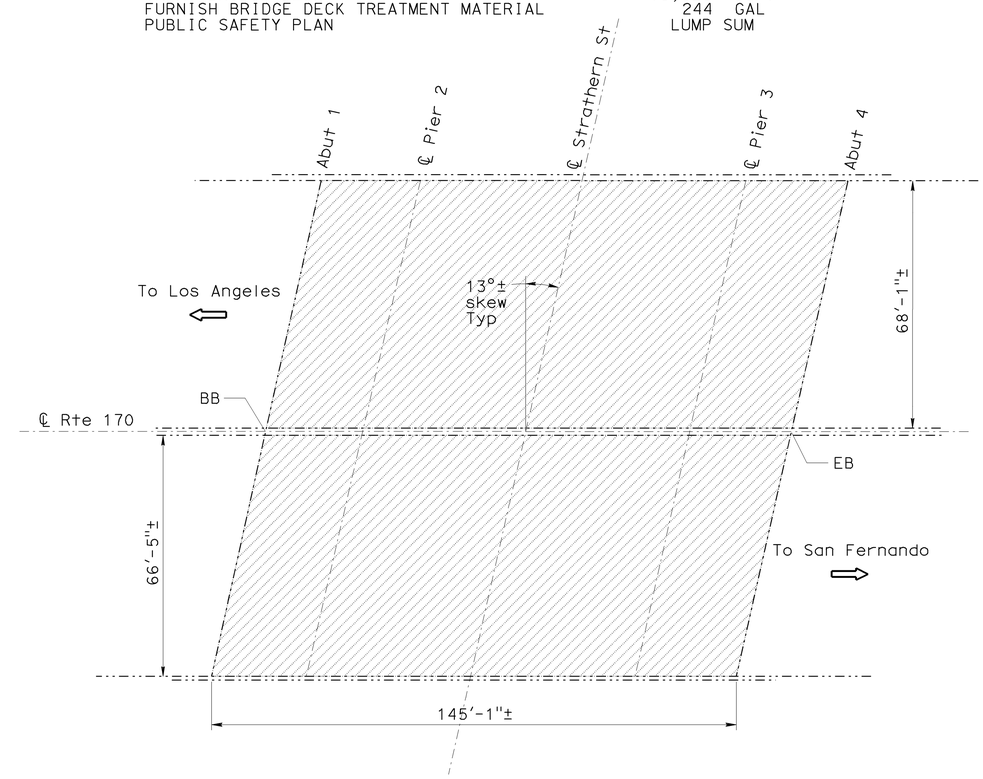


VANOWEN STREET UC

Br No. 53-1672 Rte 170, PM R17.75
1" = 20'

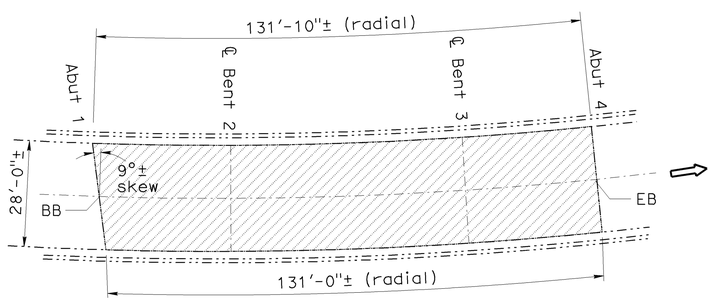
VANOWEN STREET UC QUANTITIES	BRIDGE NO. 53-1672	
REMOVE UNSOUND CONCRETE	48	CF
CLEAN BRIDGE DECK	19,270	SQFT
RAPID SETTING CONCRETE (PATCH)	48	CF
TREAT BRIDGE DECK	19,270	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	240	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

STRATHERN STREET UC QUANTITIES	BRIDGE NO. 53-1676	
REMOVE UNSOUND CONCRETE	50	CF
CLEAN BRIDGE DECK	19,520	SQFT
RAPID SETTING CONCRETE (PATCH)	50	CF
TREAT BRIDGE DECK	19,520	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	244	GAL
PUBLIC SAFETY PLAN	LUMP SUM	



STRATHERN STREET UC

Br No. 53-1676 Rte 170, PM R19.30
NO SCALE



SHERMAN WAY SEPARATION

Br No. 53-1682S Rte 170, PM R18.16
1" = 20'

SHERMAN WAY SEPARATION QUANTITIES	BRIDGE NO. 53-1682S	
REMOVE UNSOUND CONCRETE	10	CF
CLEAN BRIDGE DECK	3,700	SQFT
RAPID SETTING CONCRETE (PATCH)	10	CF
TREAT BRIDGE DECK	3,700	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	47	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
LAYOUT	BY Tom Dang	CHECKED Gerald Joo
SPECIFICATIONS	BY Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 6

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07
EA 3Y6601

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 06 OF 10

FILE => 06.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	22	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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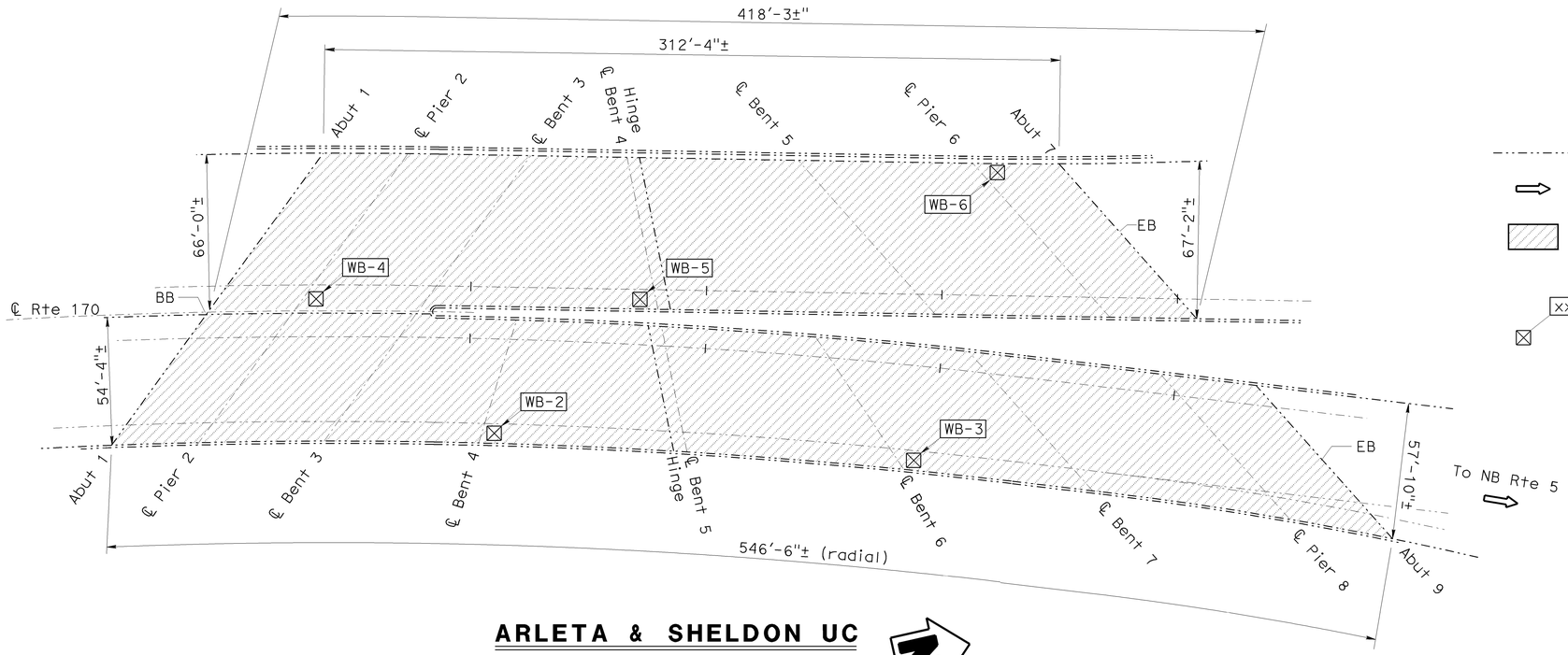


ARLETA & SHELDON UC

Br No. 53-1763 Rte 170, PM R20.10
1" = 30'

LEGEND:

Indicates existing.

Indicates direction of traffic.

Indicates limits of clean and treat existing bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete.

xx-x

Indicates approximate location of cleanout plugged drain pipe, see "MISCELLANEOUS DETAILS NO. 3" sheet.

ROUTE 170/5 SEPARATION — BRIDGE NO. 53-1122G

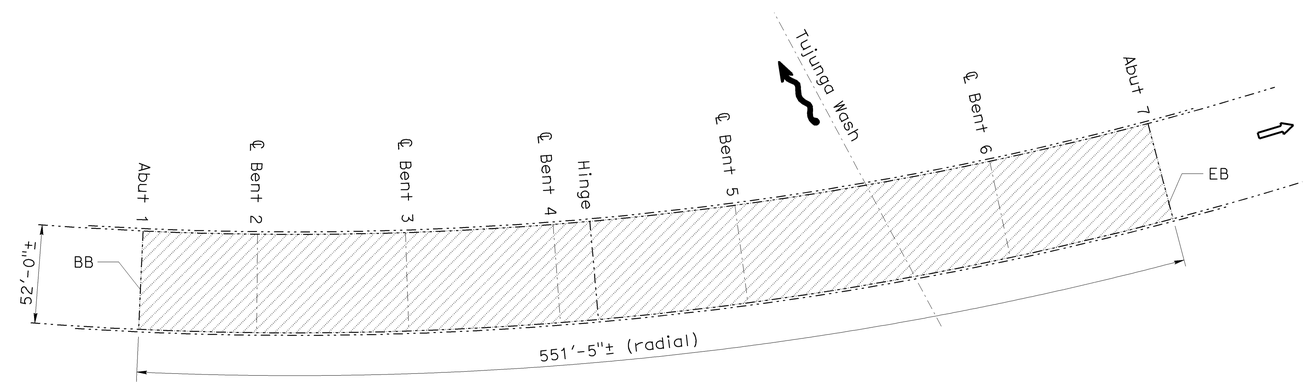
QUANTITIES

REMOVE UNSOUND CONCRETE	72	CF
CLEAN BRIDGE DECK	28,680	SQFT
RAPID SETTING CONCRETE (PATCH)	72	CF
TREAT BRIDGE DECK	28,680	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	360	GAL
PUBLIC SAFETY PLAN	LUMP SUM	

ARLETA & SHELDON UC — BRIDGE NO. 53-1763

QUANTITIES

REMOVE UNSOUND CONCRETE	125	CF
CLEAN BRIDGE DECK DRAINAGE SYSTEM	175	LF
CLEAN BRIDGE DECK	49,550	SQFT
RAPID SETTING CONCRETE (PATCH)	125	CF
TREAT BRIDGE DECK	49,550	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	620	GAL
PUBLIC SAFETY PLAN	LUMP SUM	



ROUTE 170/5 SEPARATION

Br No. 53-1122G, Rte 170, PM R20.52
1" = 40'

NOTE:
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TONY D. BRAKE
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

LOAD FACTOR DESIGN — LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD

	BY	CHECKED
LAYOUT	Tom Dang	Gerald Joo
SPECIFICATIONS	Erwin Rufino	PLANS AND SPECS COMPARED Erwin Rufino

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
GENERAL PLAN NO. 7

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 07 OF 10

FILE => 07.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	23	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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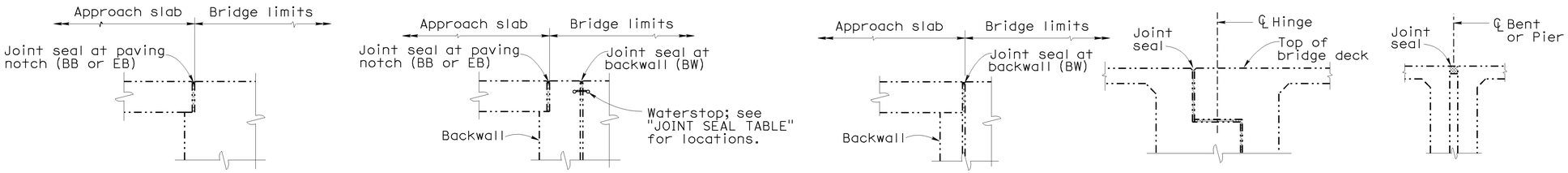


DIAPHRAGM ABUTMENT | ABUTMENT WITH BACKWALL AND PAVING NOTCH | ABUTMENT WITH BACKWALL | HINGE | BENT OR PIER

JOINT SEAL LOCATION

NO SCALE

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION		MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
COLFAX AVENUE UC	53-1683	Abut 1	PN	1½	171	NO	12	3	6	5
		Abut 5	PN	1½	171	NO	12	3	6	5

PN = Paving notch
BW = Backwall
DJ = Deck Joint

NOTES:

The following notes apply to JOINT SEAL TYPE A:

Install Joint Seal (MR = ½") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.

For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:

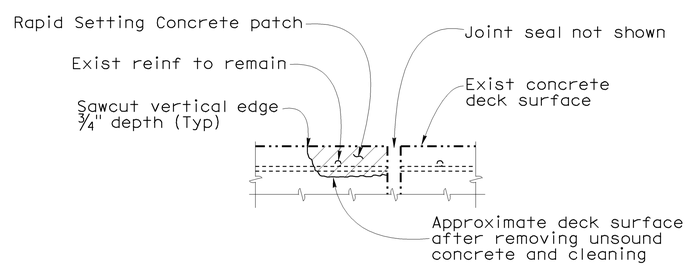
1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.

2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.

3) W1 shall be the smaller of the values determined as follows:
   A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
   B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.

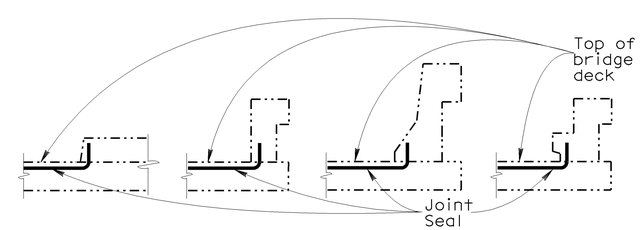
4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.

For details not shown see RSP B6-21 sheet.



JOINT SPALL REPAIR DETAIL

Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



BARRIER RAIL

JOINT SEAL AT LOW SIDE OF DECK

Note: Details shown for illustration purposes only.

For use only where deck joint matches the sidewalk, curb or barrier rail joint.

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	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
MISCELLANEOUS DETAILS NO. 1

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07
EA 3Y6601

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 08 OF 10

FILE => 08.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	24	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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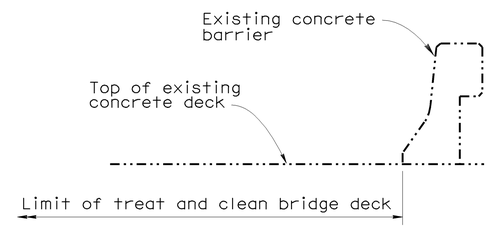
DECK REPAIR TABLE
REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)

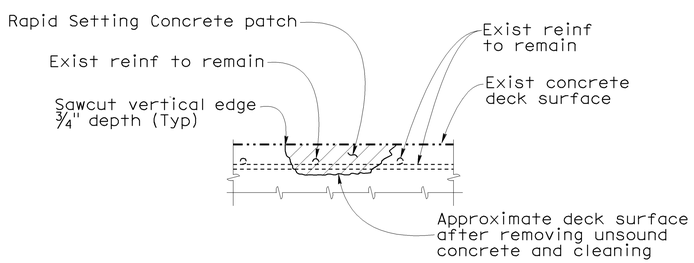
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
RIVERSIDE TUJUNGA UC	53-1344	1	3
MAGNOLIA BLVD UC	53-1503	1	3
CHANDLER BLVD OH	53-1644	1	3
COLFAX AVE UC	53-1683	1	3
BURBANK BLVD UC	53-1684	1	3
OXNARD ST UC	53-1685	1	3
LAUREL CANYON BLVD UC	53-1686	1	3
VICTORY BLVD RAMP SEPARATION	53-1700S	1	3
VICTORY BLVD UC	53-1687K	1	3
VICTORY BLVD UC	53-1687	1	3
VICTORY BLVD UC	53-1687S	1	3
VICTORY BLVD RAMP SEPARATION	53-1701K	1	3
VANOWEN ST UC	53-1672	1	3
SHERMAN WAY SEPARATION	53-1682S	1	3
STRATHERN ST UC	53-1676	1	3
ARLETA & SHELDON UC	53-1763	1	3
ROUTE 170/5 SEPARATION	53-1122G	1	3

DECK REPAIR NOTES:

1. Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
2. It is responsibility of the Contractor to repair any reinforcement that is accidently cut by saw cutting operations.
3. When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
4. The saw cut depth shall not exceed ¾ inch or the concrete cover over the top steel reinforcing bars, whichever is less.
5. Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

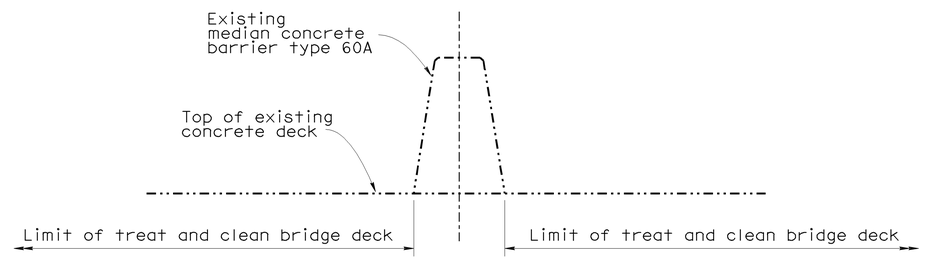


EOD BARRIER

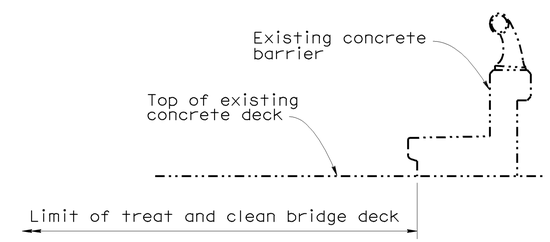


DECK DAMAGE REPAIR DETAIL

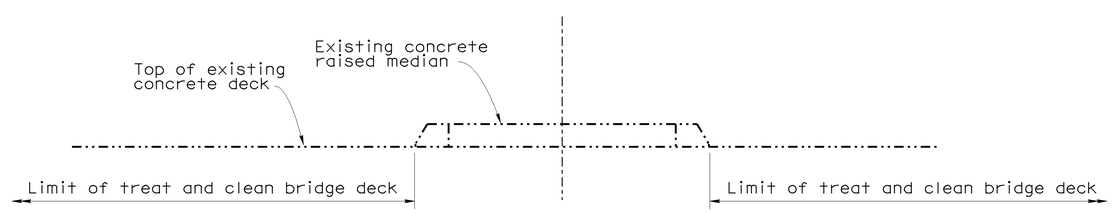
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



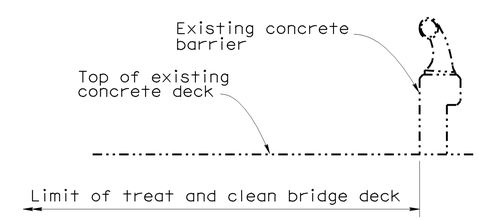
MEDIAN BARRIER



SIDEWALK BARRIER TYPE 2



RAISED MEDIAN



SIDEWALK BARRIER TYPE 1

TYPICAL LIMITS OF DECK WORK

NO SCALE

NOTE:
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	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

CU 07
EA 3Y6601

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
MISCELLANEOUS DETAILS NO. 2

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

DISREGARD PRINTS BEARING EARLIER REVISION DATES 3-11-10

REVISION DATES

SHEET 09 OF 10

FILE => 09.dgn

USERNAME => s129239 DATE PLOTTED => 16-JUL-2010 TIME PLOTTED => 10:43

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	170	R15.6/R20.5	25	25

REGISTERED CIVIL ENGINEER 07/16/10 DATE

12-20-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER GERALD D. JOO No. C65380 Exp. 09/30/11 CIVIL STATE OF CALIFORNIA

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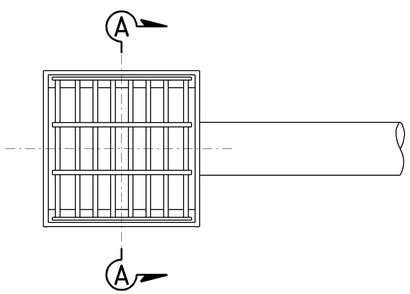
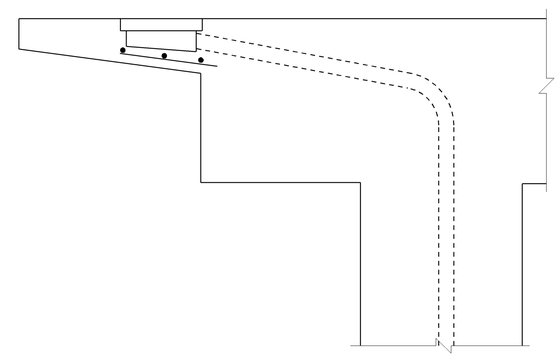
DECK DRAIN CLEANING

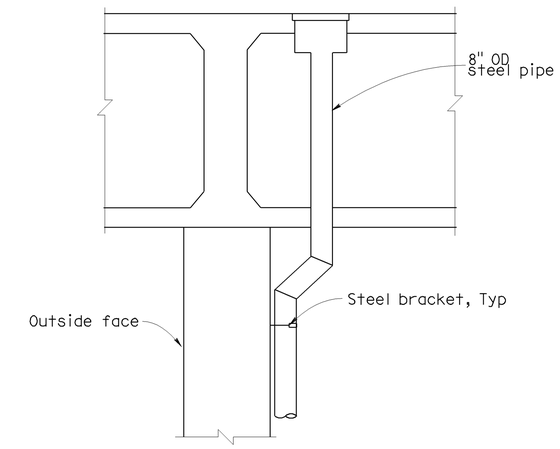
BRIDGE NUMBER	INLET ID	EXISTING DRAINAGE INLET TYPE	APPROX LENGTH OF CLEAN OUT (FT)
53-1686	WB-1	D-1	42′
53-1763	WB-2	D-1	35′
	WB-3	D-1	35′
	WB-4	D-1	35′
	WB-5	D-1	35′
	WB-6	D-1	35′



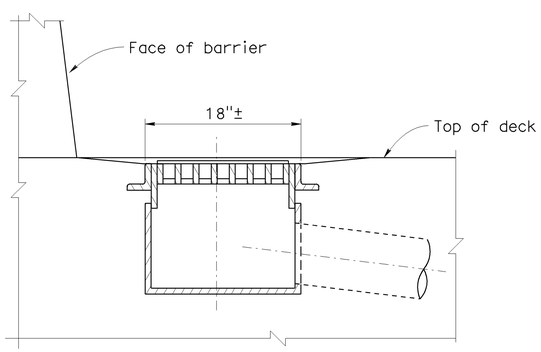
PLAN



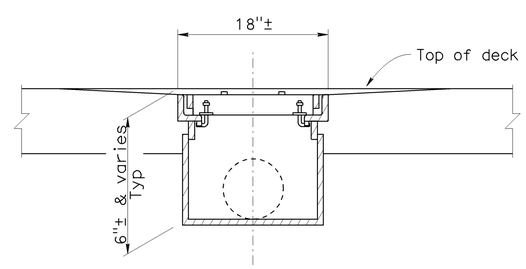
DETAILS AT OVERHANG



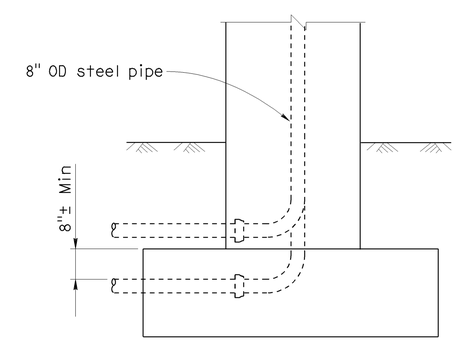
DETAILS AT PIER



DETAIL IN BOX OR CAP



SECTION A-A



DETAILS AT DOWNDRAIN OUTLET

TYPICAL DRAIN DETAILS

NO SCALE

NOTE:
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	BY	CHECKED
DESIGN	Gerald Joo	Edward Li
DETAILS	Tom Dang	Gerald Joo
QUANTITIES	Gerald Joo	Edward Li

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various
POST MILE Varies

ROUTE 170 BRIDGES
MISCELLANEOUS DETAILS NO. 3

STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 07
EA 3Y6601

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SHEET 10 OF 10

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