

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN VENTURA COUNTY
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	1	56

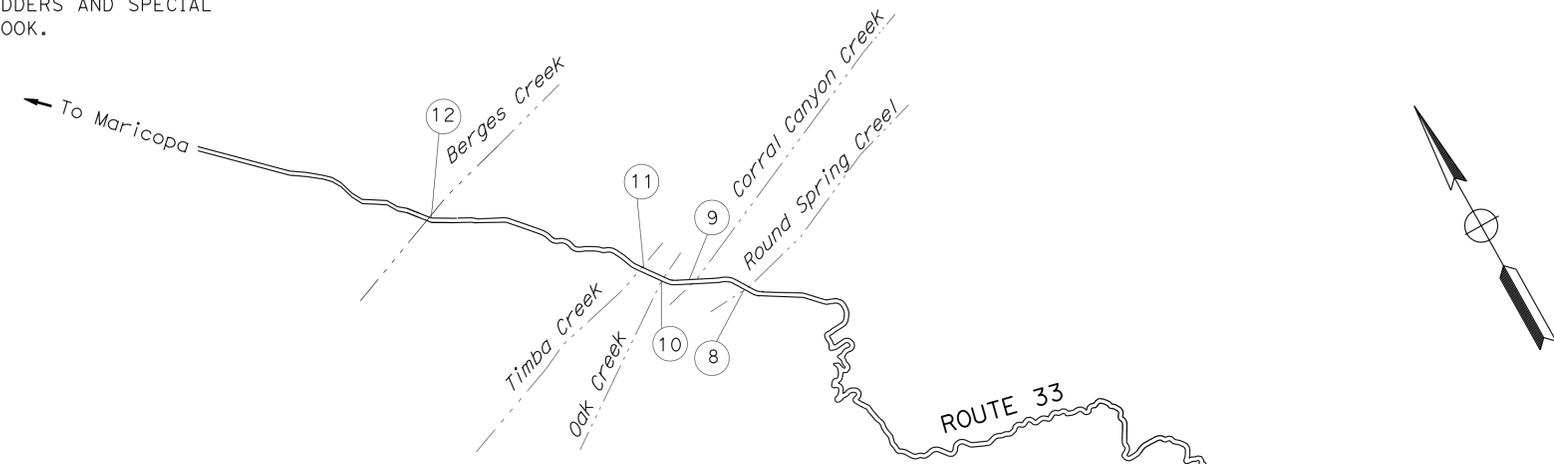


SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
4-6	CONSTRUCTION AREA SIGNS
7-12	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS
13-16	TRAFFIC HANDLING DETAILS
17	PAVEMENT DELINEATION QUANTITIES
18	SUMMARY OF QUANTITIES
19-30	ELECTRICAL PLANS
31-46	REVISED STANDARD PLANS

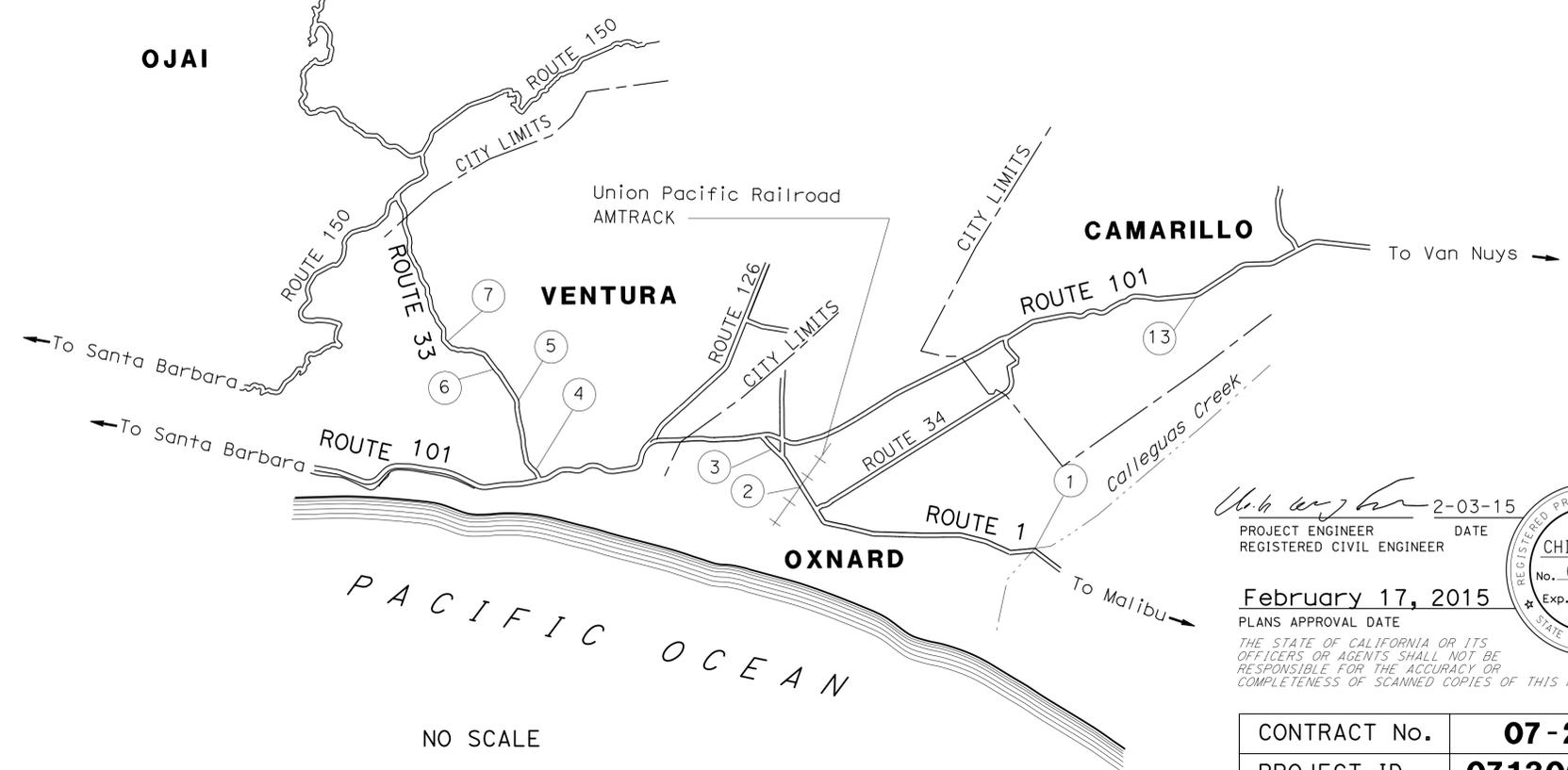
STRUCTURE PLANS

47-56	ROUTE 1, 33, 101 BRIDGES
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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.



LOCATIONS OF CONSTRUCTION				
Loc No. (X)	ROUTE	PM	BRIDGE No.	BRIDGE NAME
1	1	9.87	52-0010R	CALLEGUAS CREEK
2	1	18.36	52-0398	THIRD St OC
3	1	20.65	52-0189	FRONTAGE Rd OC
4	33	0.17	52-0239	MAIN St UC
5	33	R3.26	52-0294R	NORTH VENTURA UC
6	33	R4.05	52-0295L	VENTURA Ave UC
7	33	R5.63	52-0298S	CASITAS VISTA Rd UC
8	33	50.91	52-0087	ROUND SPRINGS CREEK
9	33	51.78	52-0088	CORRAL CANYON CREEK
10	33	52.09	52-0120	OAK CREEK
11	33	52.59	52-0121	TIMBA CREEK
12	33	57.31	52-0090	BERGES CREEK
13	101	7.02	52-0247	BORCHARD Rd OC



PROJECT ENGINEER: *Chih C. Lan* DATE: 2-03-15
REGISTERED CIVIL ENGINEER
February 17, 2015
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.	07-2W7104
PROJECT ID	0713000443

PROJECT MANAGER: CHRISTIAN SAM
DESIGN MANAGER: AYUBUR RAHMAN

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

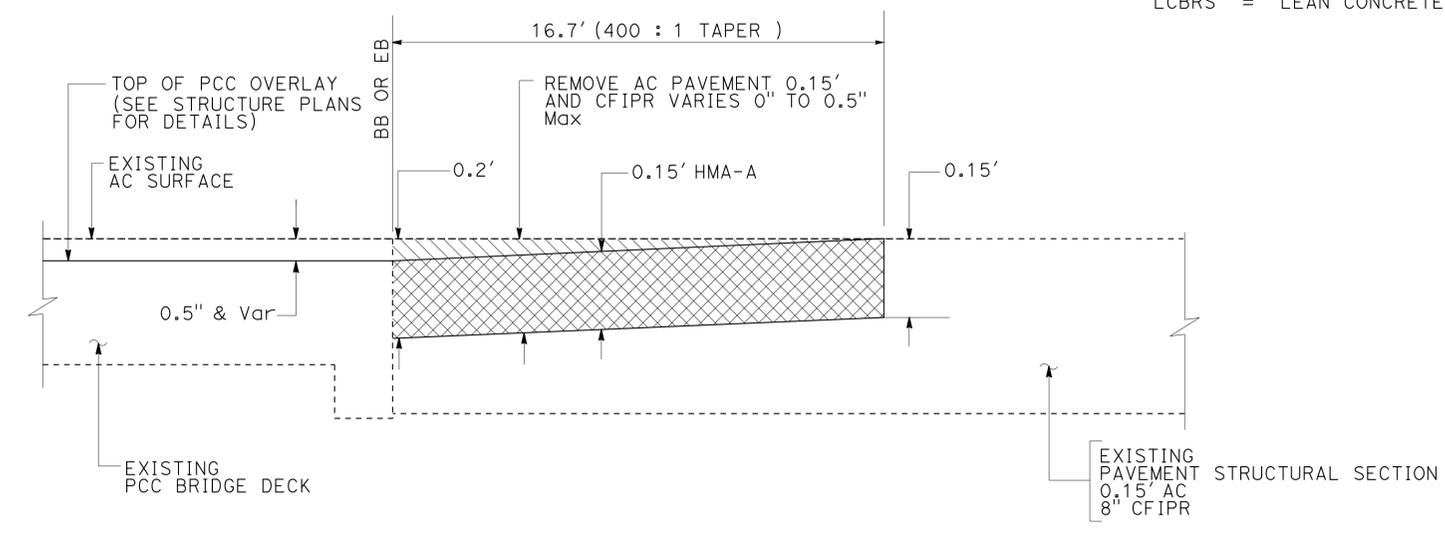
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	2	56
 REGISTERED CIVIL ENGINEER DATE 2-3-15					
2-17-15 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

ABBREVIATION:

HMA-A = HOT MIX ASPHALT (TYPE A)
 CFIPR = COLD FORM IN-PLACE RECYCLING (2.8% PAVING ASPHALT AND 2.0% FLY ASH)
 LCBRS = LEAN CONCRETE BASE RAPID SETTING

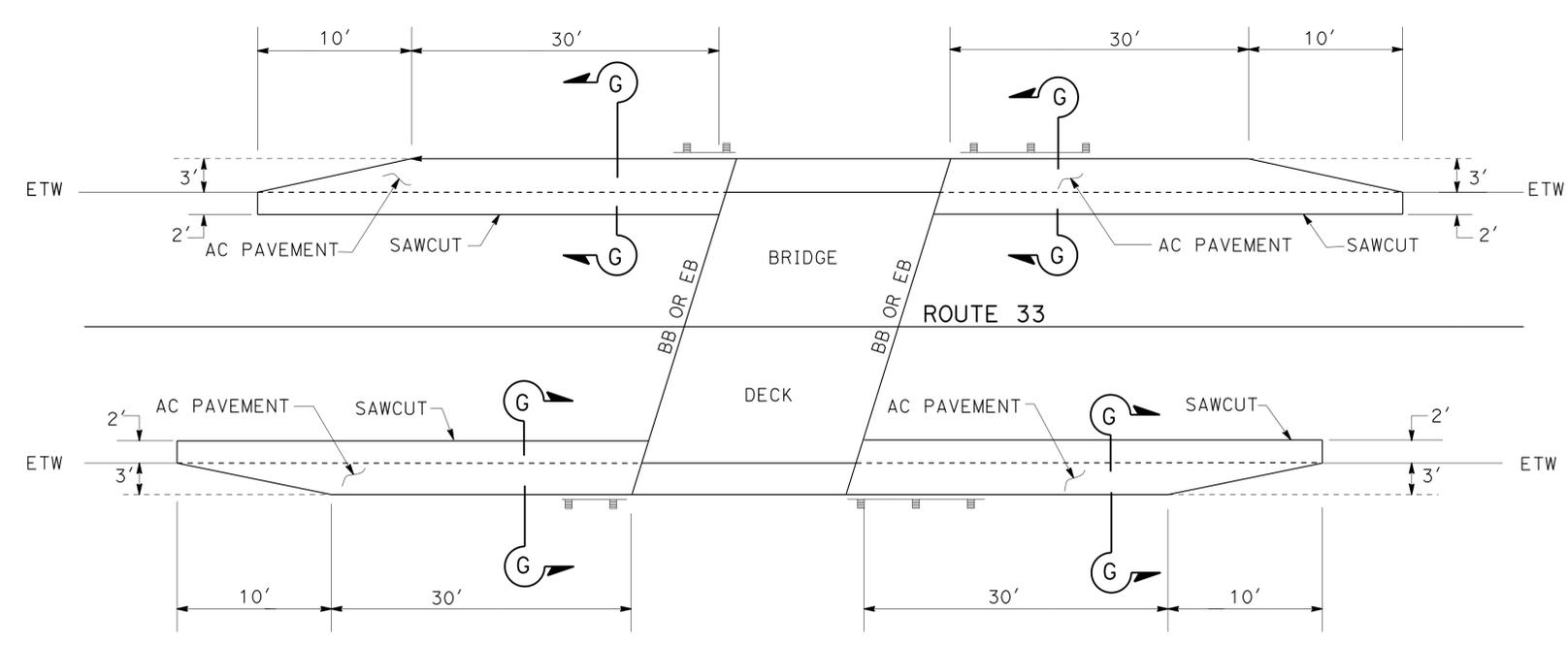


TYPICAL AC PAVEMENT (APPROACH ROADWAY TAPER)

CONFORM TO PCC BRIDGE DECK
 Br No. 52-0087 ROUND SPRING CREEK
 Br No. 52-0088 CORRAL CANYON CREEK
 Br No. 52-0120 OAK CREEK

AC PAVEMENT (APPROACH ROADWAY TAPER)

-  REMOVE AC AND CFIPR
-  REMOVE AC AND CFIPR / PLACE 0.15' HMA-A

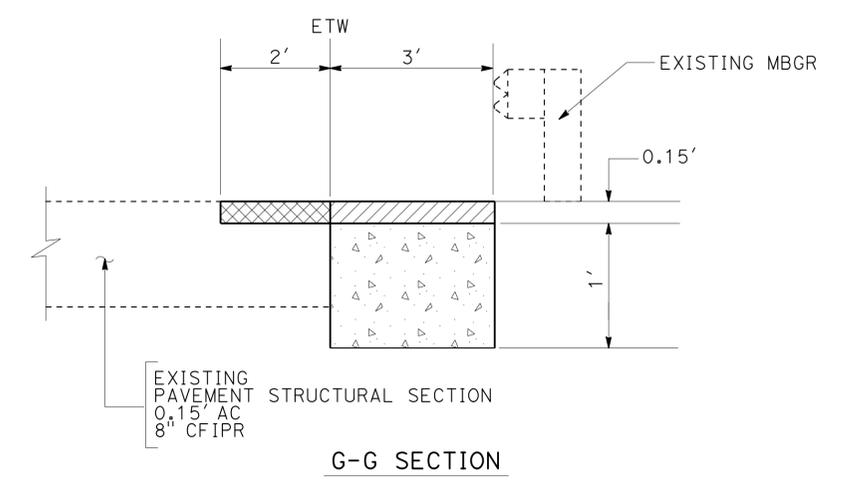


TYPICAL AC PAVEMENT (TRAFFIC HANDLING)

Br No. 52-0087 ROUND SPRING CREEK
 Br No. 52-0088 CORRAL CANYON CREEK
 Br No. 52-0120 OAK CREEK

AC PAVEMENT (TRAFFIC HANDLING)

-  REMOVE ASPHALT CONCRETE / PLACE 0.15' HMA-A
-  0.15' HMA-A
-  1.0' LCBRS

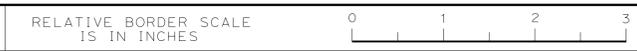


CONSTRUCTION DETAILS
NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: AYUBUR RAHMAN
 CHIH C LAN
 AYUBUR RAHMAN
 REVISOR: CHIH C LAN
 DATE: 2-3-15
 DESIGNED BY: CHIH C LAN
 CHECKED BY: AYUBUR RAHMAN

USERNAME => s122436
 DGN FILE => 72w710ga001.dgn

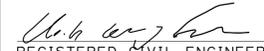


UNIT 1965

PROJECT NUMBER & PHASE

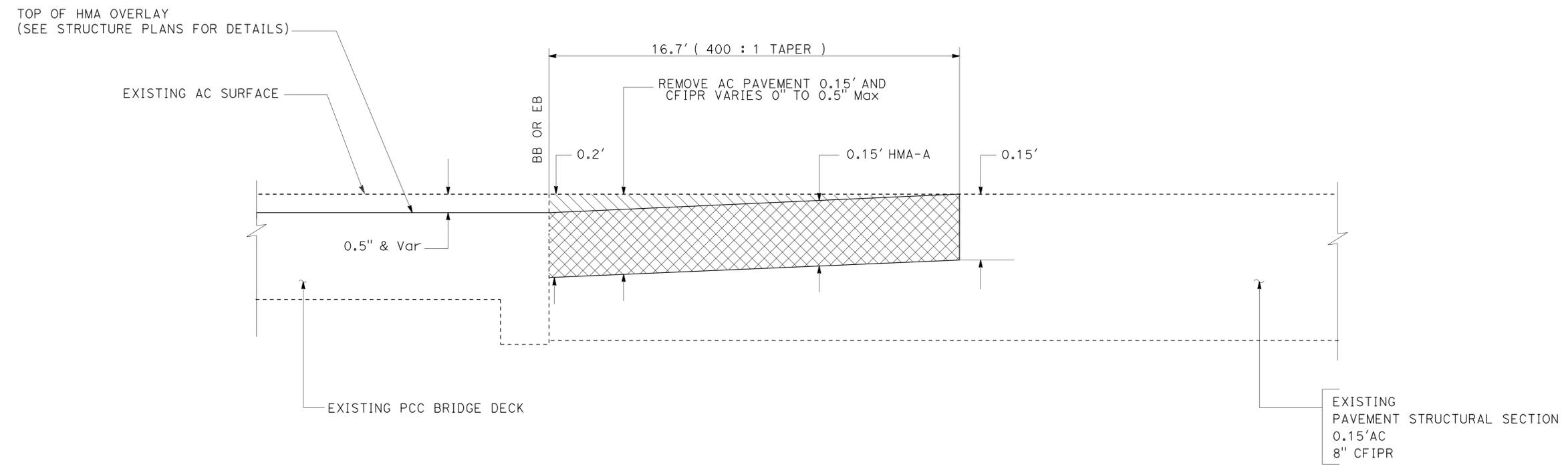
07130004431

LAST REVISION: DATE PLOTTED => 02-MAR-2015
 02-17-15 TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	3	56
			2-3-15	DATE	
REGISTERED CIVIL ENGINEER					
2-17-15			PLANS APPROVAL DATE		
<small>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.</small>					



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	CHIH C LAN	REVISED BY	
Caltrans MAINTENANCE ENGINEERING	AYUBUR RAHMAN	CHECKED BY	AYUBUR RAHMAN	DATE REVISED	



TYPICAL AC PAVEMENT (APPROACH ROADWAY TAPER)

CONFORM TO AC BRIDGE DECK
 Br No. 52-0121 TIMBA CREEK
 Br No. 52-0090 BERGES CREEK

CONSTRUCTION DETAILS
 NO SCALE

C-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	4	56

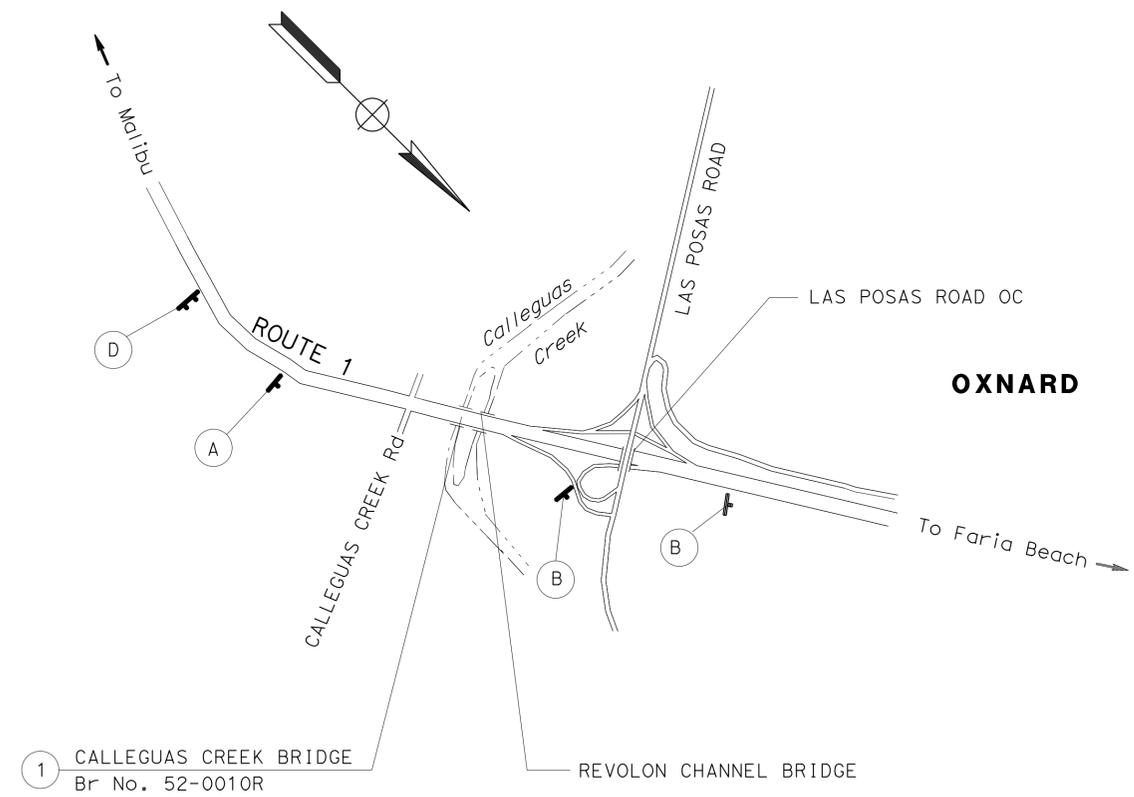
2-3-15
 REGISTERED CIVIL ENGINEER DATE
 CHIH C LAN
 No. C 69055
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

2-17-15
 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.

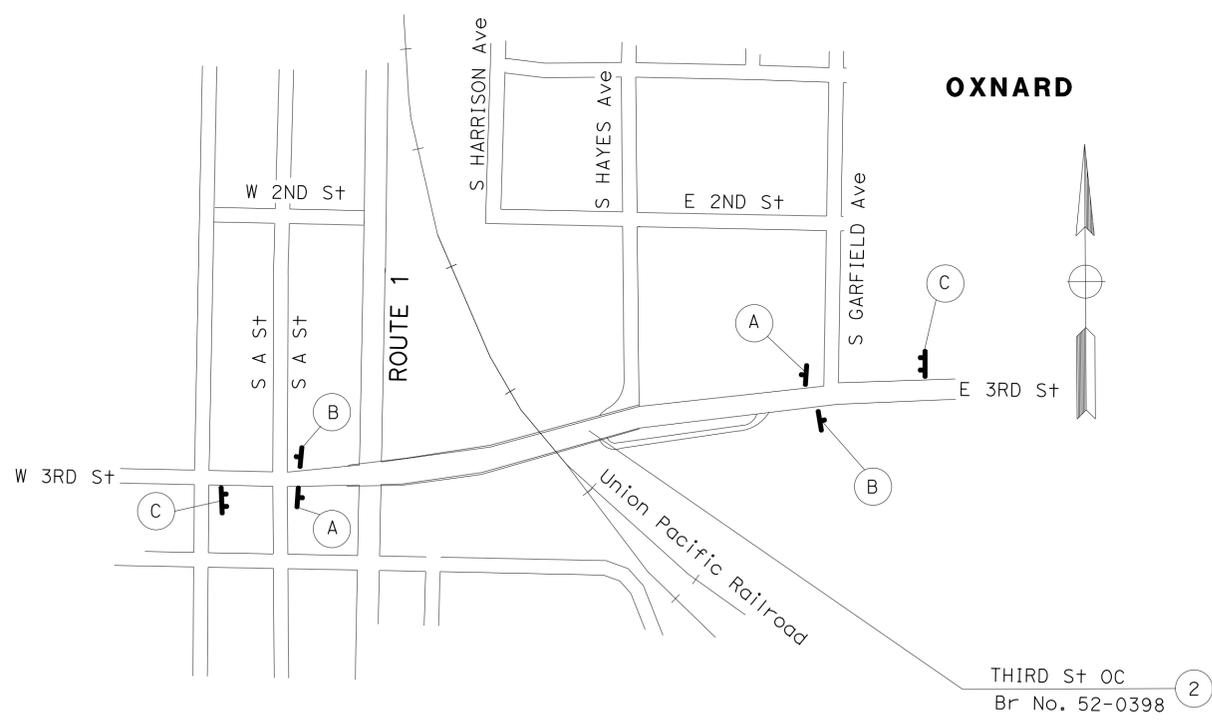
NOTES:

1. EXACT LOCATION AND POSITION OF SIGNS WILL BE DETERMINED BY THE ENGINEER.
2. FOR ADDITIONAL CONSTRUCTION AREA SIGNS, SEE STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS.

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	25
(B)	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	17
(C)		C40	108" x 42"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 4" x 6"	9
(D)		C40	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	6



LOCATION 1



LOCATION 2

CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 02-MAR-2015
 02-17-15 TIME PLOTTED => 10:41

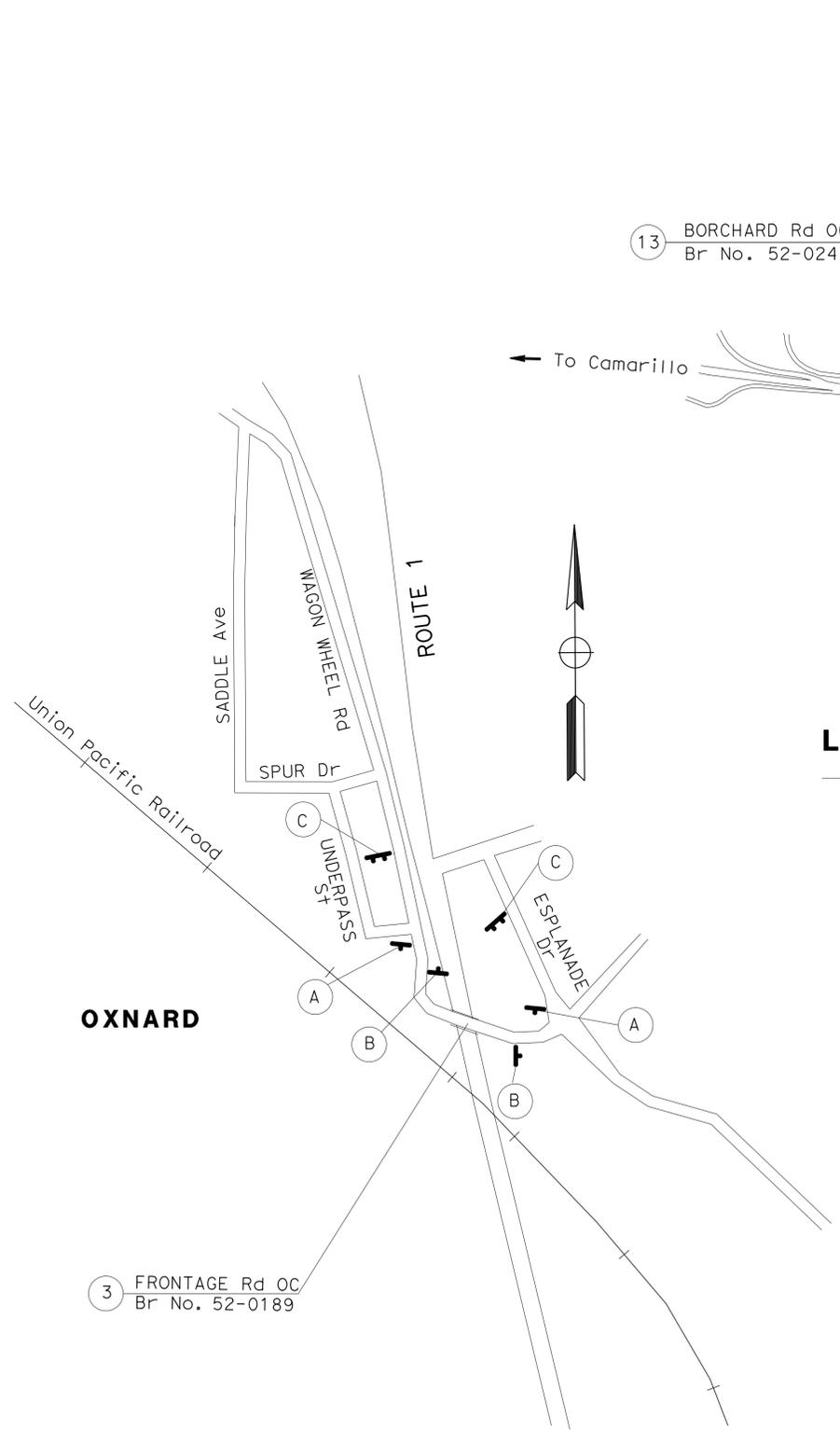
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07	Ven	1,33,101	Var	5	56

2-3-15
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHIH C LAN
 No. C 69055
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

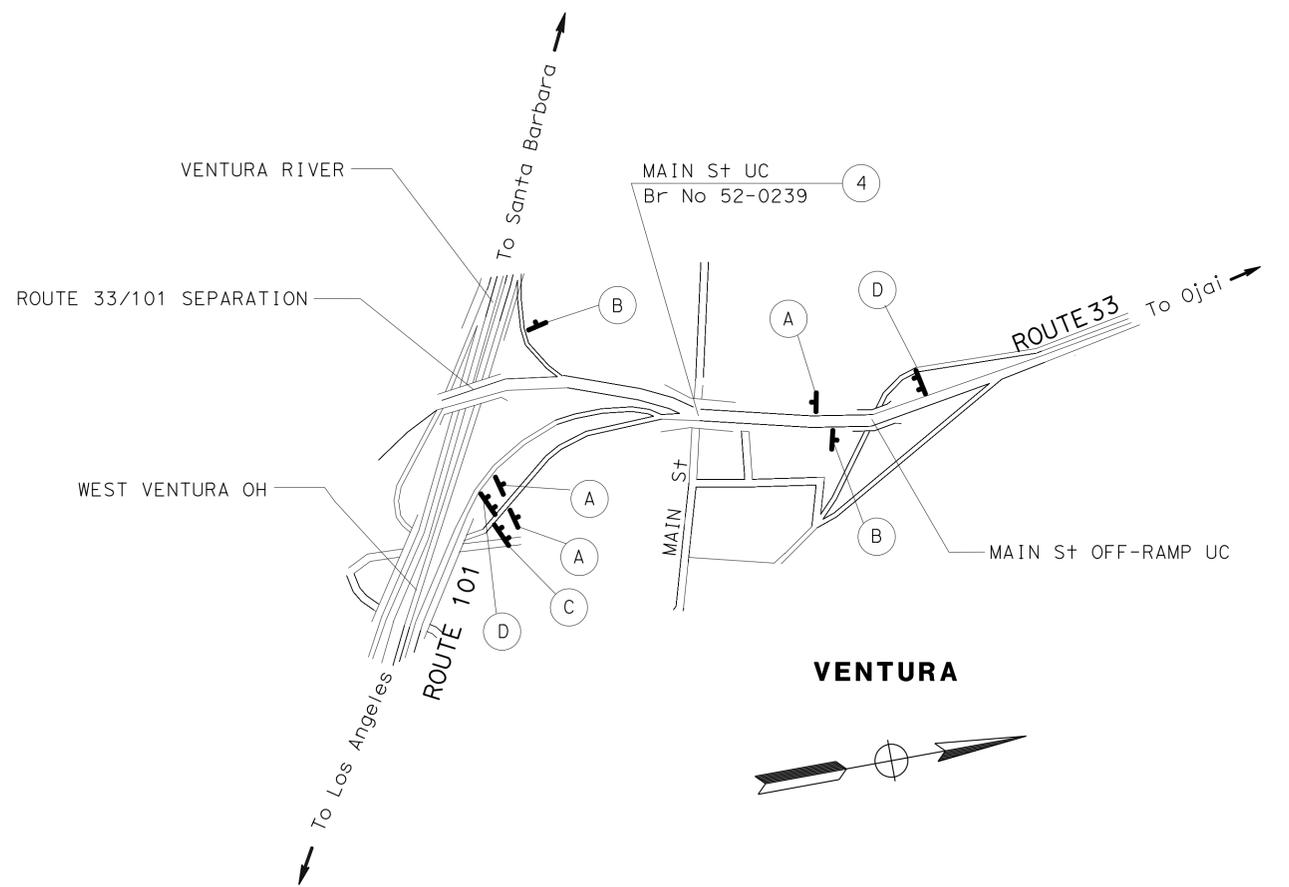
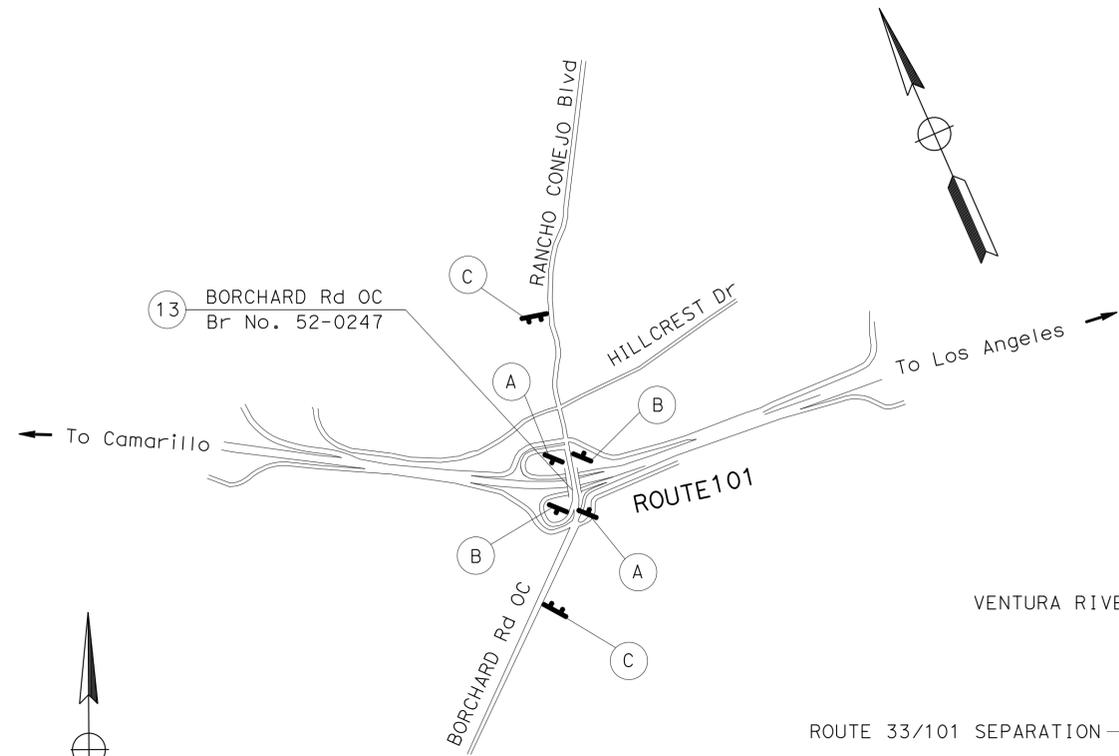
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	CHIH C LAN	REVISOR	DATE
MAINTENANCE ENGINEERING	AYUBUR RAHMAN	BY	DATE
FUNCTIONAL SUPERVISOR	AYUBUR RAHMAN	CHECKED BY	DATE
DESIGNED BY			
CALCULATED BY			



LOCATION 13

LOCATION 3



LOCATION 4

CONSTRUCTION AREA SIGNS
NO SCALE

CS-2

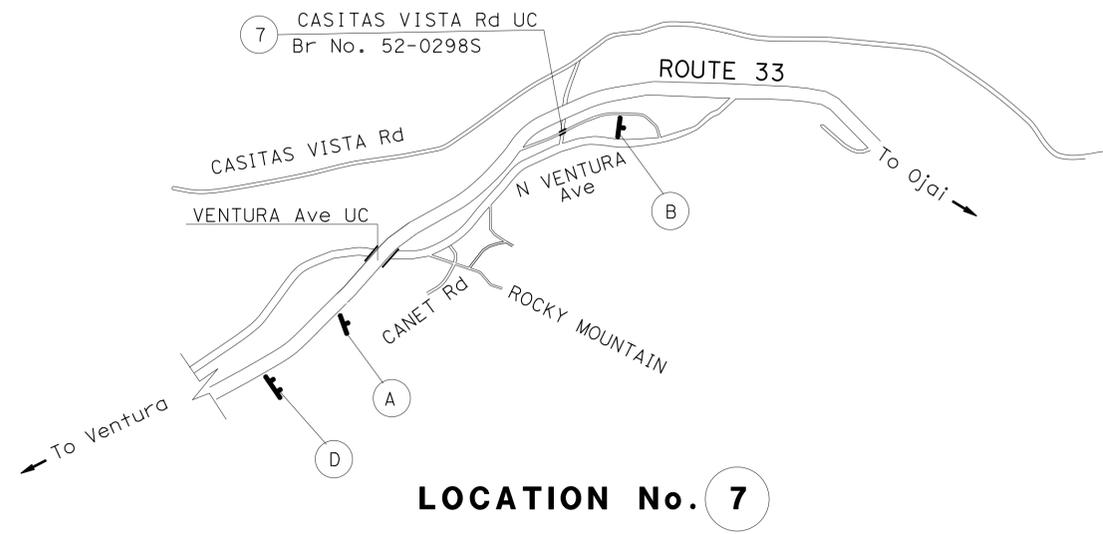
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	6	56

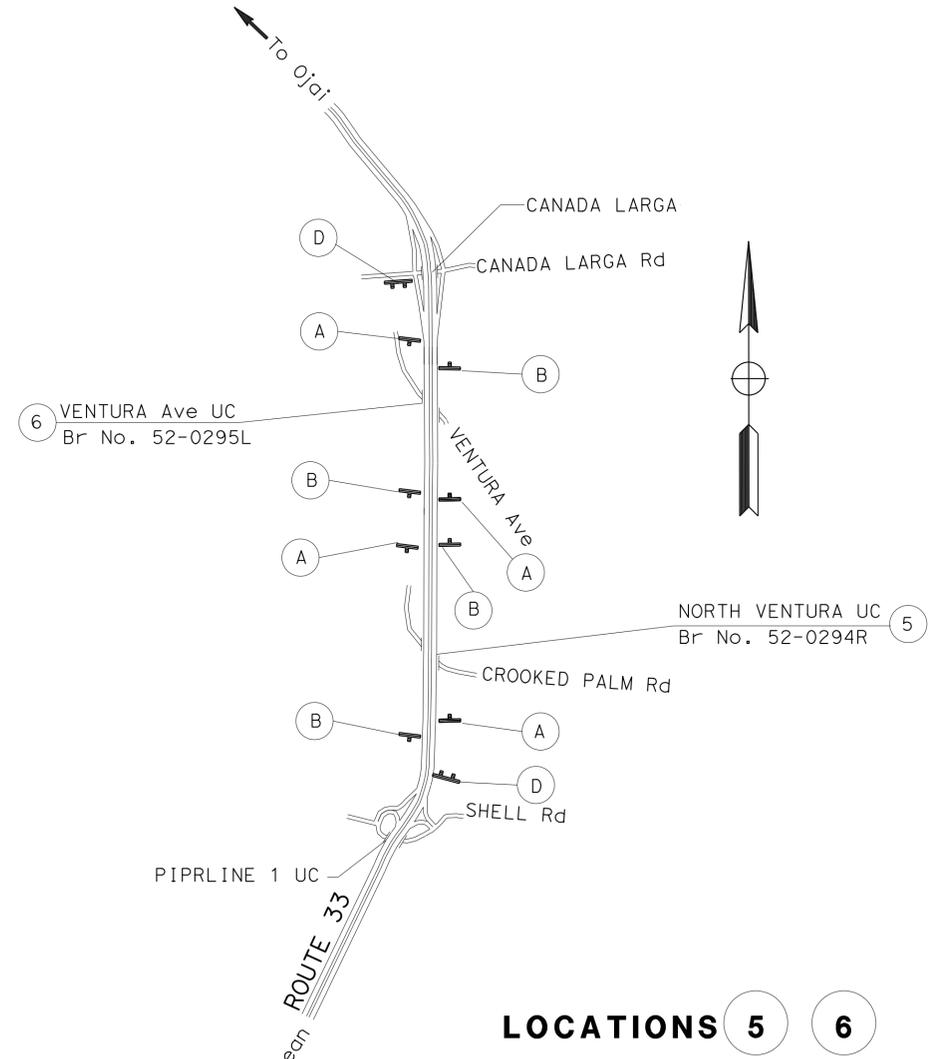
REGISTERED CIVIL ENGINEER DATE 2-3-15
 REGISTERED CIVIL ENGINEER CHIH C LAN
 No. C 69055
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

2-17-15
 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.



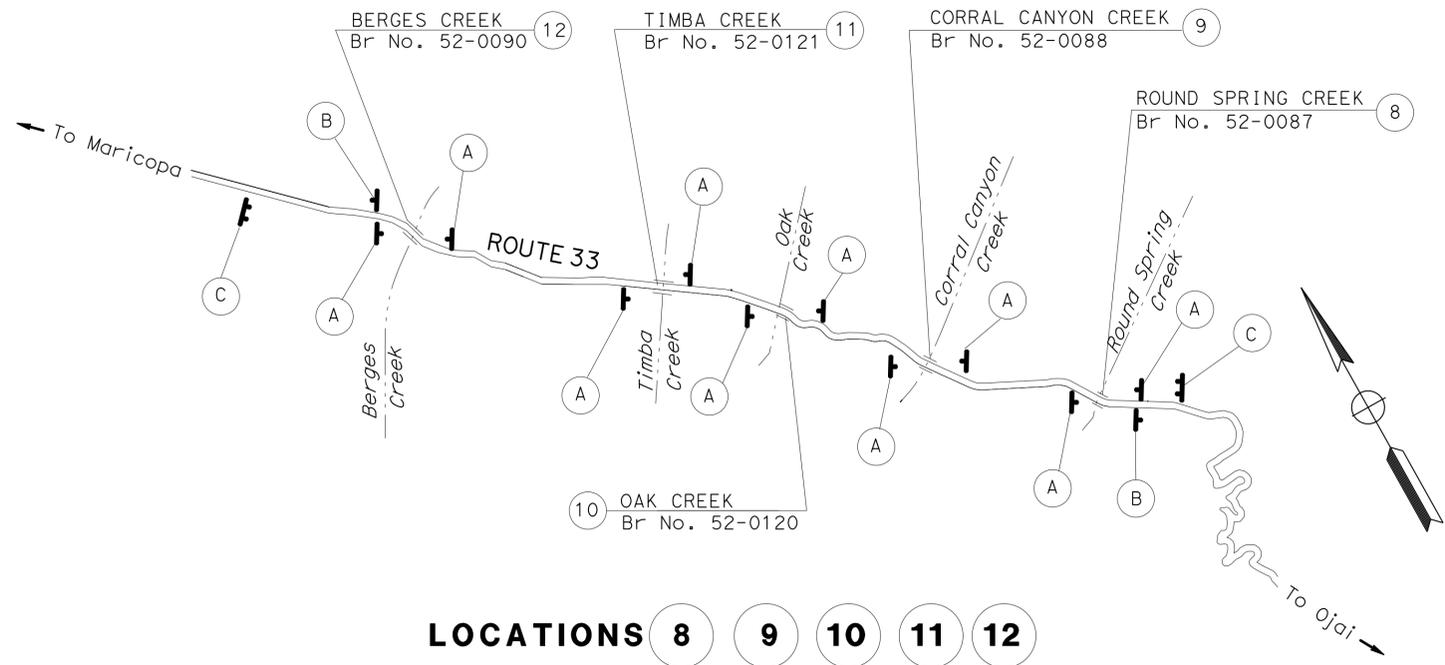
LOCATION No. 7



LOCATIONS 5 6

CONSTRUCTION AREA SIGNS
NO SCALE

CS-3



LOCATIONS 8 9 10 11 12

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 CHIH C LAN
 AYUBUR RAHMAN
 AYUBUR RAHMAN
 REVISIONS:

USERNAME => s122436
 DGN FILE => 72w7101a003.dgn

RELATIVE BORDER SCALE
 1" = 15' IN INCHES
 0 1 2 3

UNIT 1965

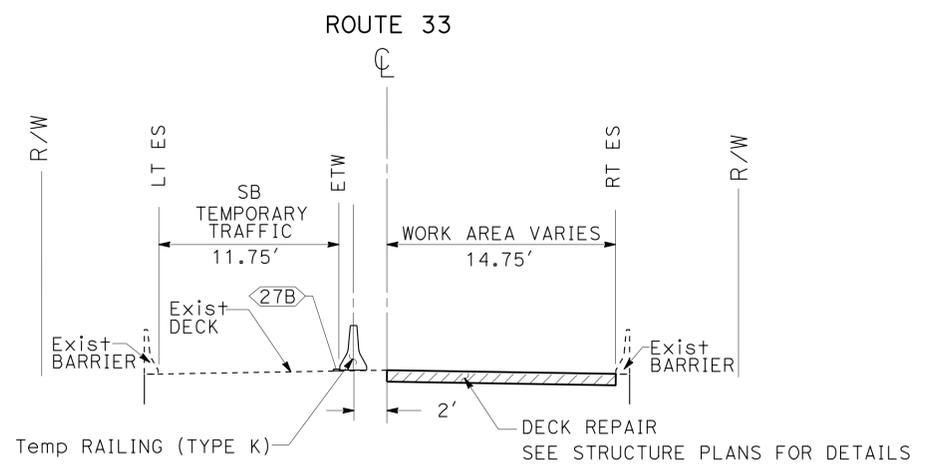
PROJECT NUMBER & PHASE

07130004431

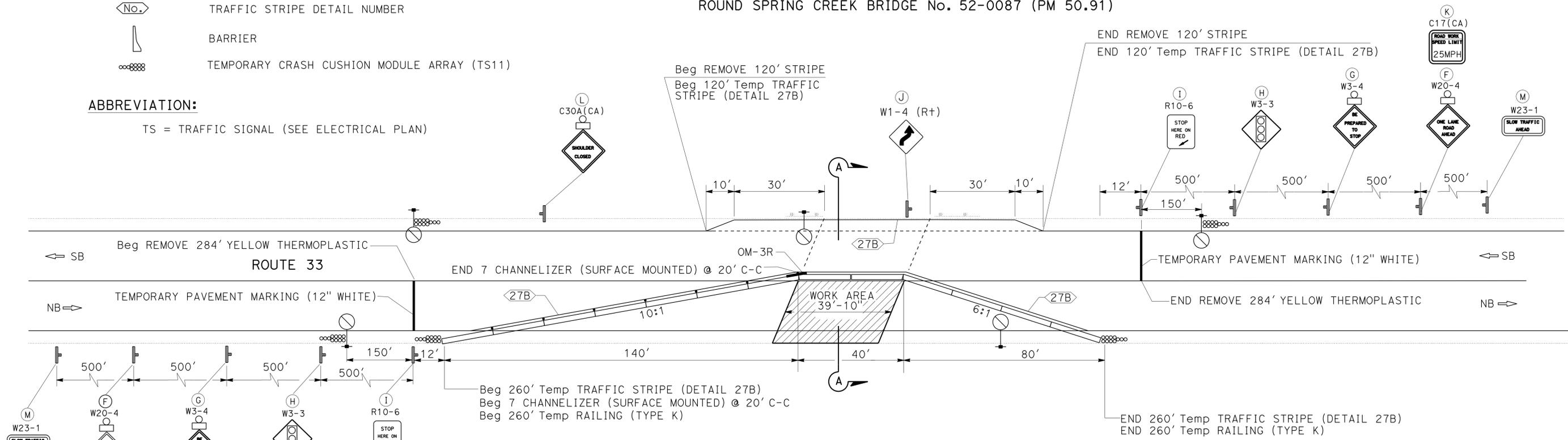
LAST REVISION | DATE PLOTTED => 02-MAR-2015
 02-17-15 | TIME PLOTTED => 10:41

- NOTES:**
- SIGN PANELS MUST BE 48" x 48" AND STATIONARY MOUNTED
 - PLACE WHITE REFLECTORS ON TOP OF TEMPORARY RAILING (TYPE K)
 - EXACT LOCATION AND POSITION OF THE SIGNS WILL BE DETERMINED BY THE ENGINEER
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS
 - SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING

- LEGEND:**
- WORK AREA
 - NB & SB NORTH/SOUTH BOUND
 - CHANNELIZER (SURFACE MOUNTED)
 - LIGHTING (SEE ELECTRICAL PLAN)
 - TRAFFIC STRIPE DETAIL NUMBER
 - BARRIER
 - TEMPORARY CRASH CUSHION MODULE ARRAY (TS11)
- ABBREVIATION:**
- TS = TRAFFIC SIGNAL (SEE ELECTRICAL PLAN)



SECTION A-A
 ROUND SPRING CREEK BRIDGE No. 52-0087 (PM 50.91)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" x 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" x 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" x 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" x 6"	2
J	W1-4(R+)	TURN AND CURVE SIGN	48" X 48"	1-6" x 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" x 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" x 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" x 6"	2

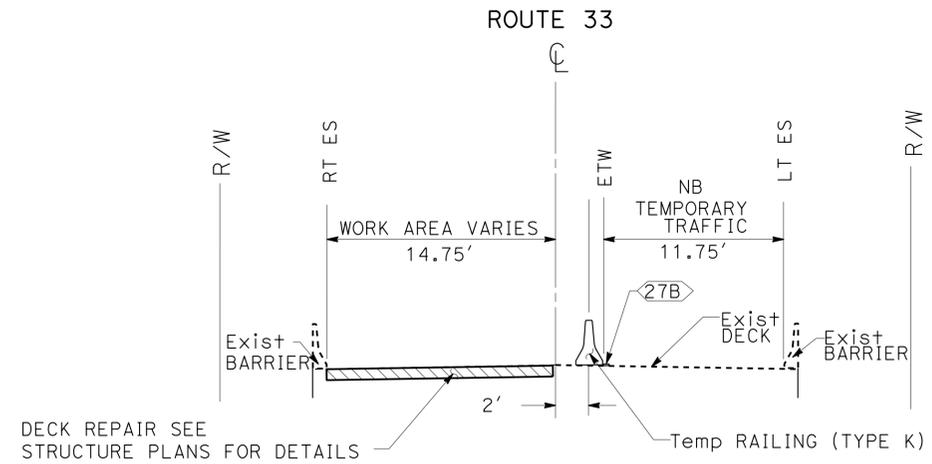
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
 NO SCALE

SC-1

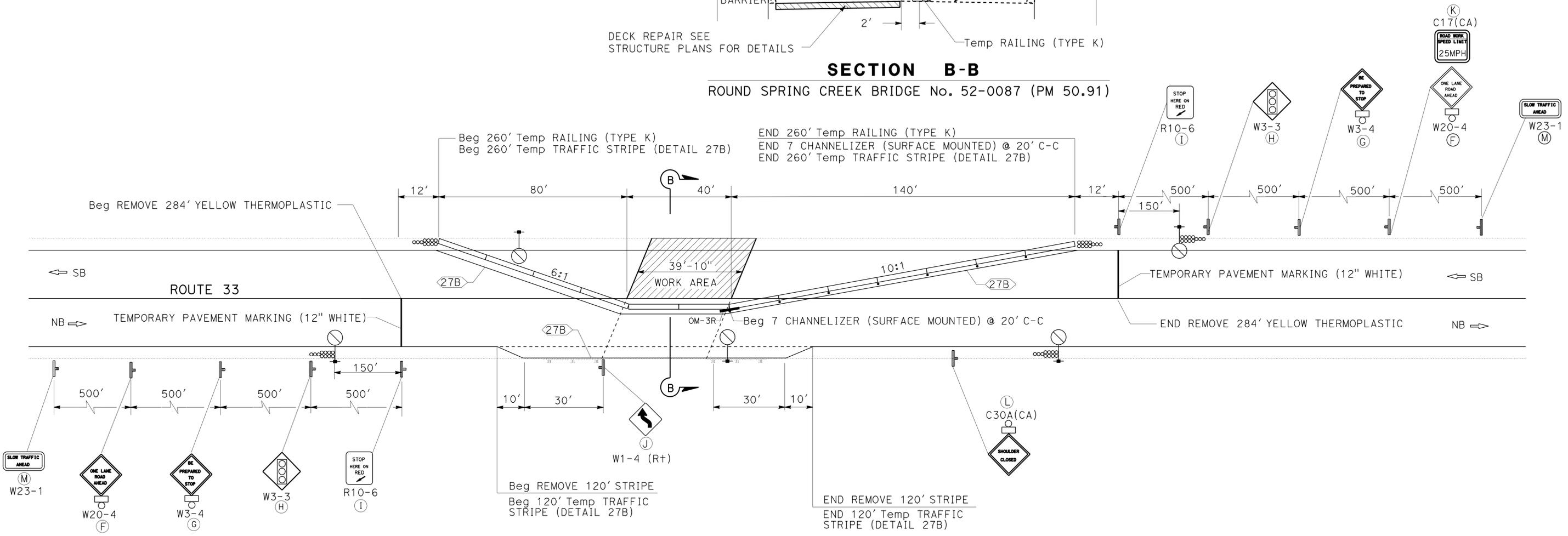
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING

NOTE:
SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING.



SECTION B-B
ROUND SPRING CREEK BRIDGE No. 52-0087 (PM 50.91)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" X 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" X 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" X 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" X 6"	2
J	W1-4(R+)	TURN AND CURVE SIGN	48" X 48"	1-6" X 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" X 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" X 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" X 6"	2

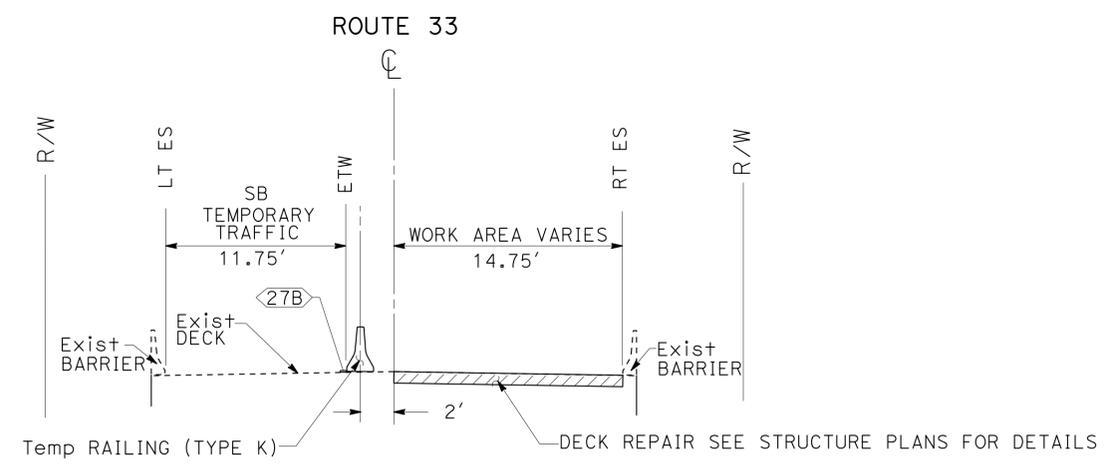
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
NO SCALE

SC-2

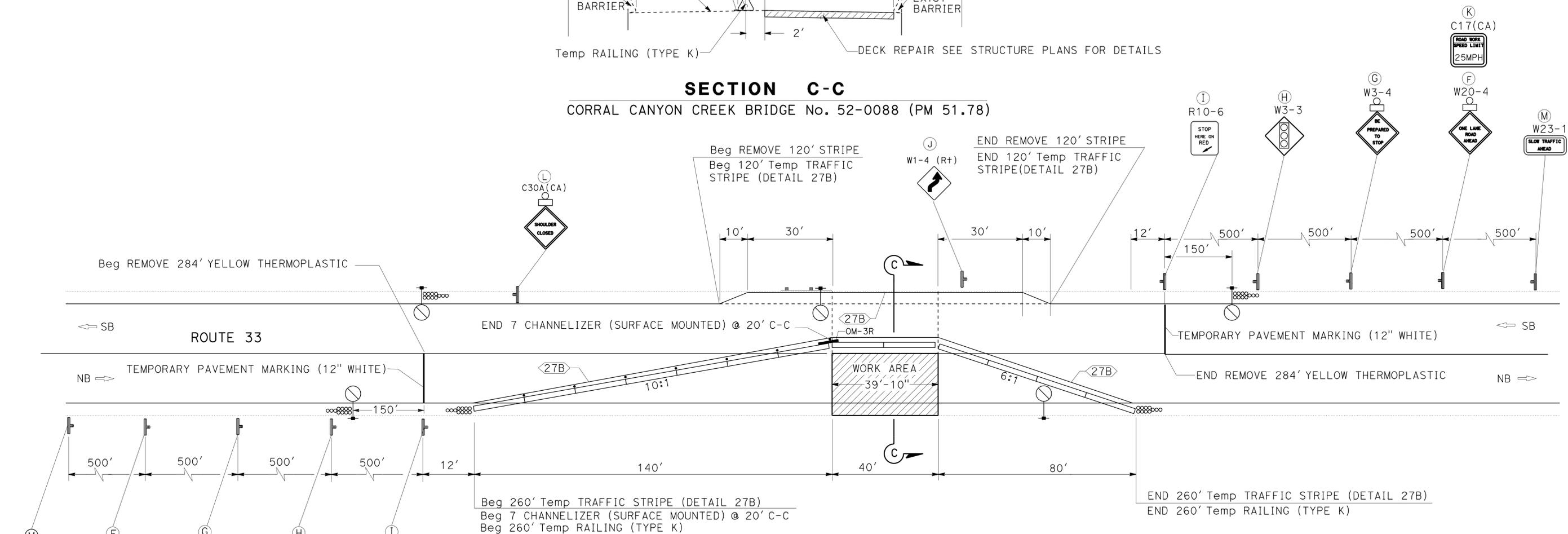
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING

NOTE:
SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING.



SECTION C-C
CORRAL CANYON CREEK BRIDGE No. 52-0088 (PM 51.78)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" x 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" x 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" x 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" x 6"	2
J	W1-4(R+)	TURN AND CURVE SIGN	48" X 48"	1-6" x 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" x 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" x 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" x 6"	2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
NO SCALE

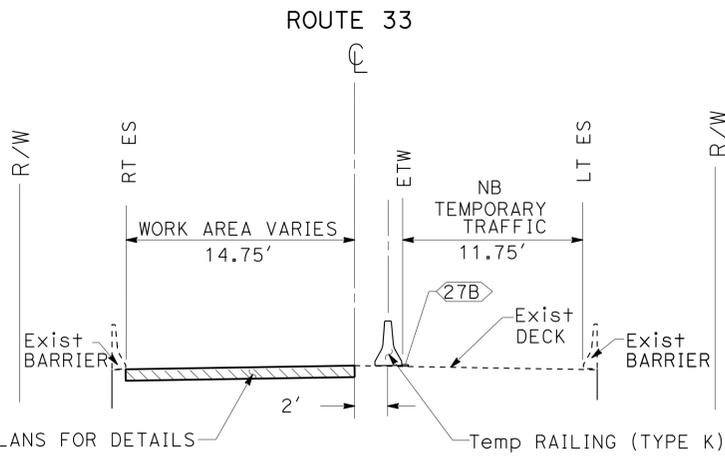
SC-3

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING

NOTE:

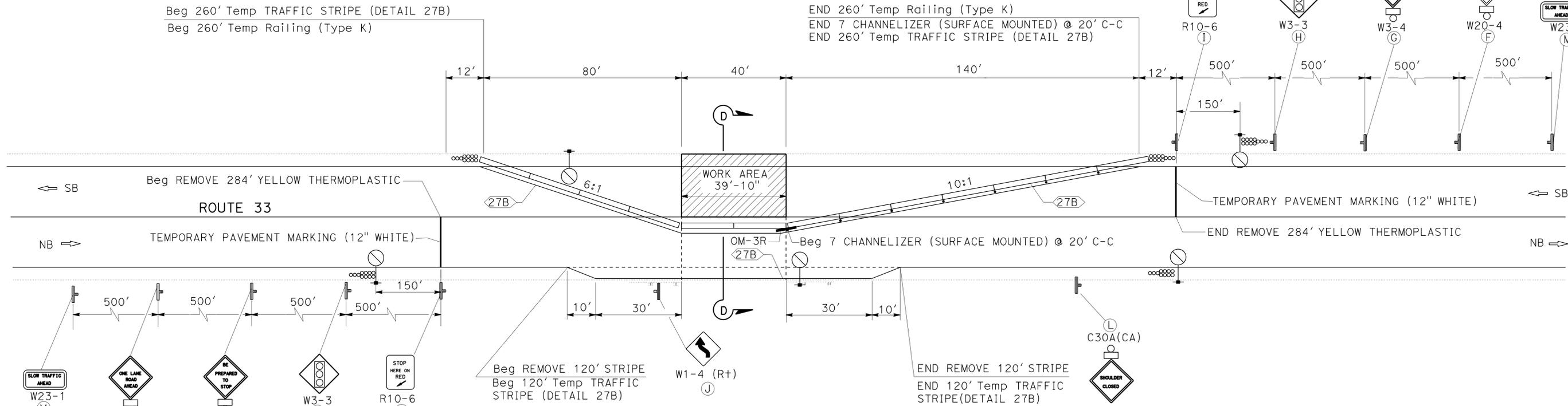
SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING.



DECK REPAIR SEE STRUCTURE PLANS FOR DETAILS

SECTION D-D

CORRAL CANYON CREEK BRIDGE No. 52-0088L (PM 51.78)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" X 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" X 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" X 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" X 6"	2
J	W1-4(R+)	TURN AND CURVE SIGN	48" X 48"	1-6" X 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" X 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" X 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" X 6"	2

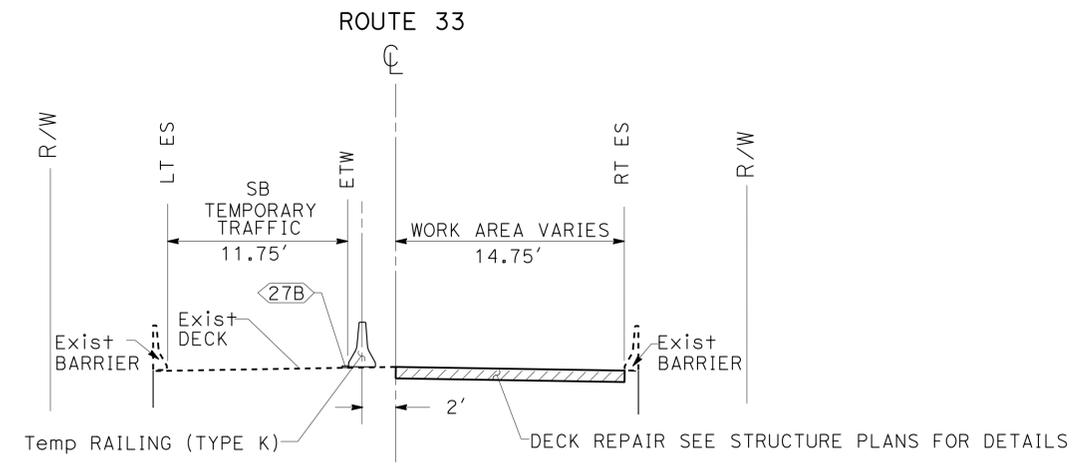
STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
 NO SCALE

SC-4

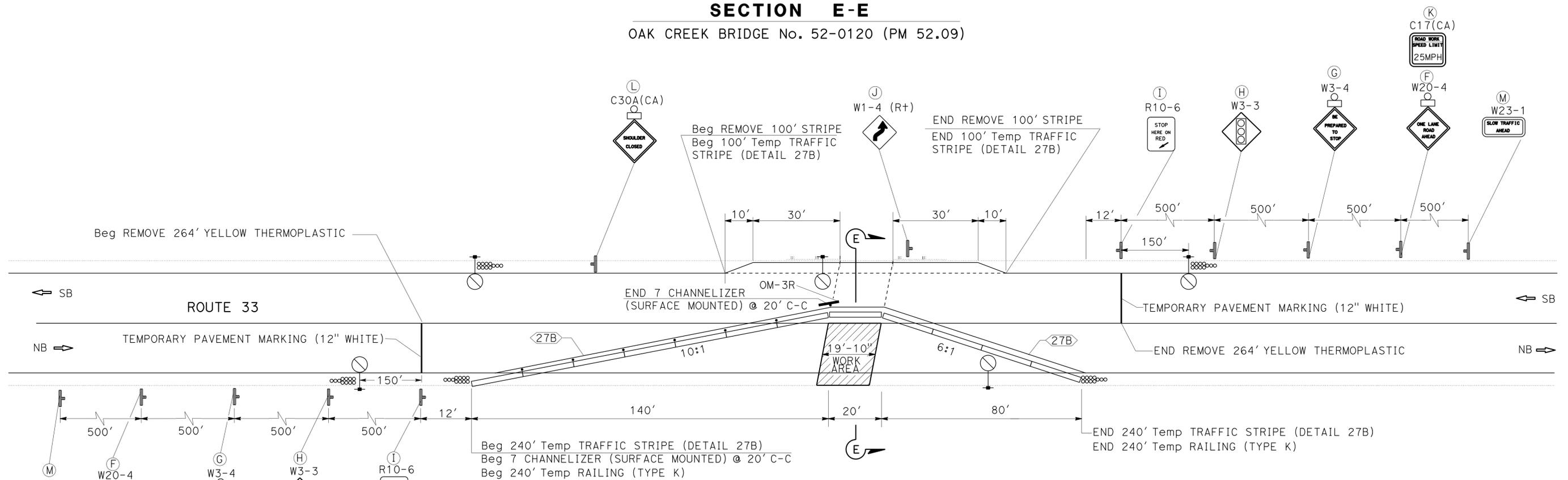
APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING

NOTE:
SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING



SECTION E-E
OAK CREEK BRIDGE No. 52-0120 (PM 52.09)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN NO. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" X 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" X 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" X 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" X 6"	2
J	W1-4(R+)	TURN AND CURVE SIGN	48" X 48"	1-6" X 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" X 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" X 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" X 6"	2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 1
NO SCALE

SC-5

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

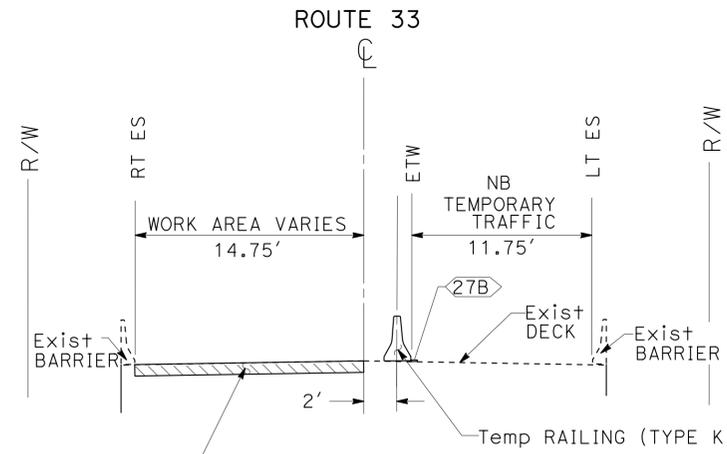
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: AYUBUR RAHMAN
 CALCULATED/DESIGNED BY: CHIH C LAN
 CHECKED BY: AYUBUR RAHMAN
 REVISIONS: CHIH C LAN, AYUBUR RAHMAN
 REVISOR: CHIH C LAN, AYUBUR RAHMAN
 DATE: 2-3-15, 2-17-15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	12	56

2-3-15
 REGISTERED CIVIL ENGINEER DATE
 CHIH C LAN
 No. C 69055
 Exp. 6-30-16
 CIVIL
 STATE OF CALIFORNIA

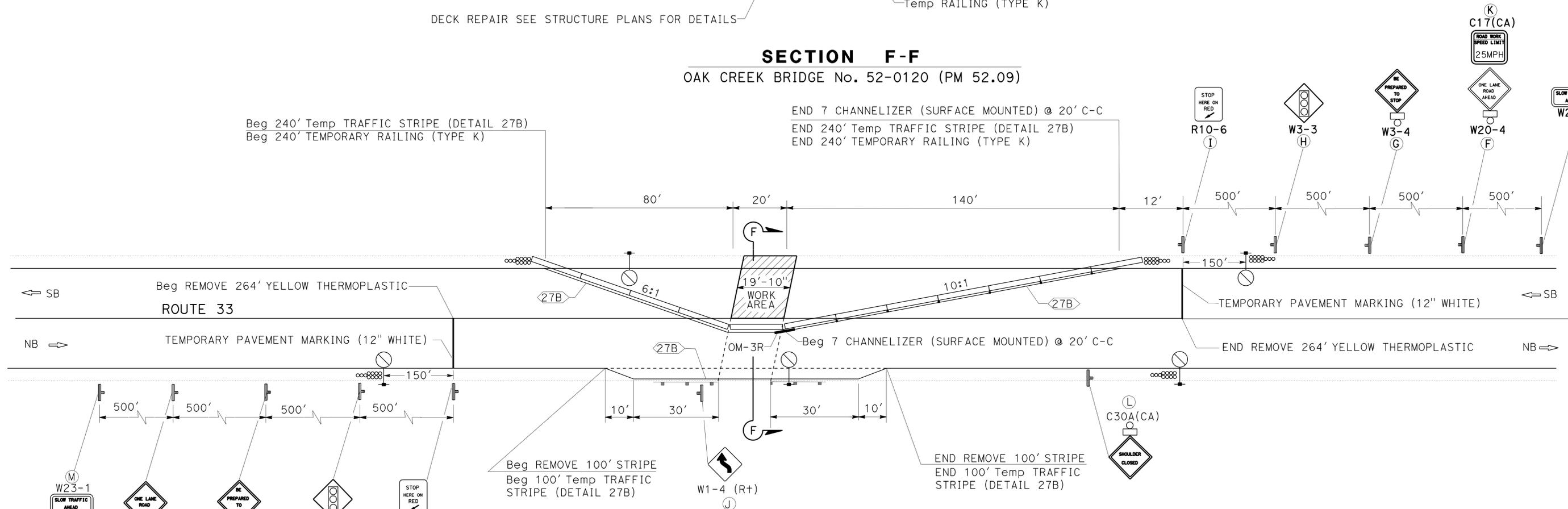
2-17-15
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
SEE ELECTRICAL PLANS FOR INSTALLING TEMPORARY SIGNAL AND LIGHTING



DECK REPAIR SEE STRUCTURE PLANS FOR DETAILS

SECTION F-F
OAK CREEK BRIDGE No. 52-0120 (PM 52.09)



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS					
SIGN No. (X)	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
F	W20-4	ONE LANE ROAD AHEAD	48" X 48"	1-6" x 6"	2
G	W3-4	BE PREPARED TO STOP	48" X 48"	1-6" x 6"	2
H	W3-3	SIGNAL AHEAD	48" X 48"	1-6" x 6"	2
I	R10-6	STOP HERE ON RED	48" X 48"	1-6" x 6"	2
J	W1-4(Rt)	TURN AND CURVE SIGN	48" X 48"	1-6" x 6"	1
K	C17(CA)	SPEED LIMIT 25 MPH	48" X 48"	1-6" x 6"	2
L	C30A(CA)	SHOULDER CLOSED	48" X 48"	1-6" x 6"	1
M	W23-1	SLOW TRAFFIC AHEAD	48" X 48"	1-6" x 6"	2

STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN
STAGE 2
NO SCALE

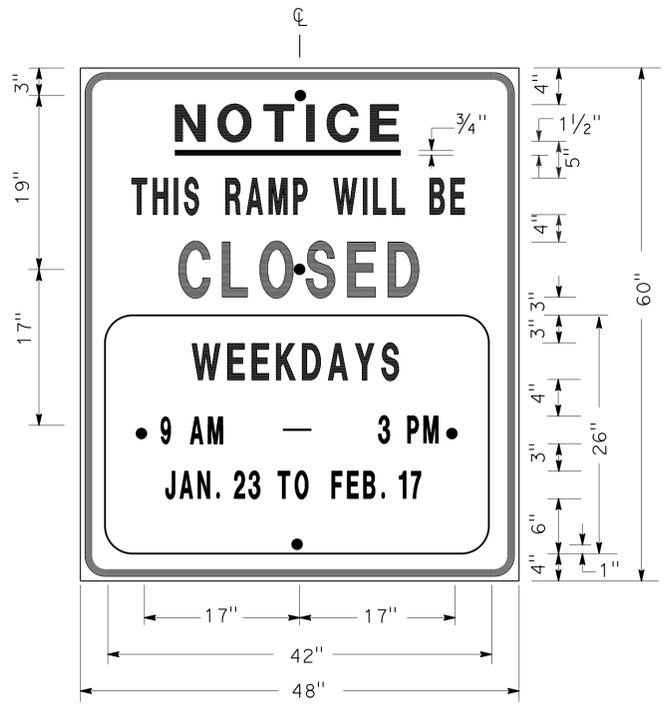
SC-6

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

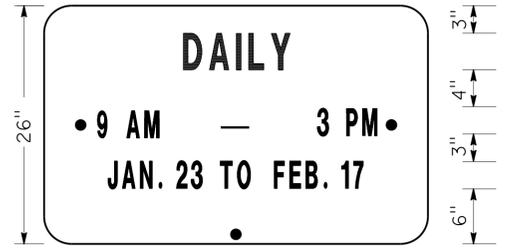
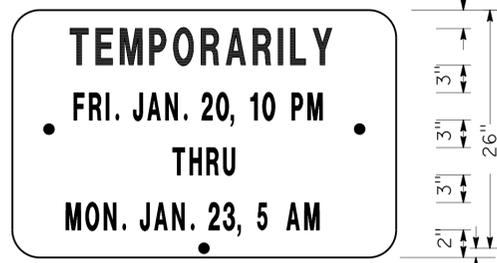
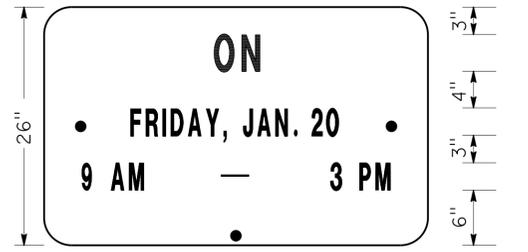
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 CHIH C LAN
 AYUBUR RAHMAN
 MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	13	56

2-9-15
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 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.



SIGN SP-1



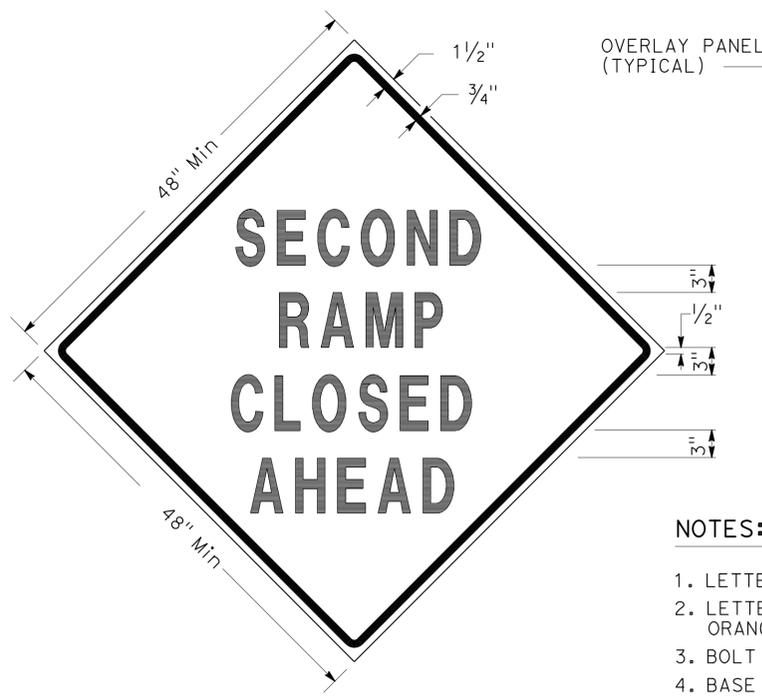
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES:** SIGN SP-1
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' 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

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

- NOTES:** SIGNS SP-3 & SP-5
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
 - SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

- NOTES:** SIGN SP-4
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

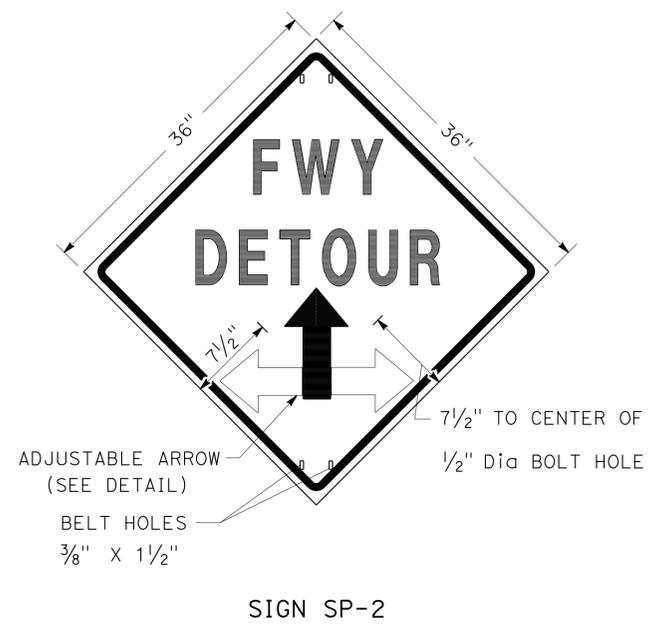
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS,
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

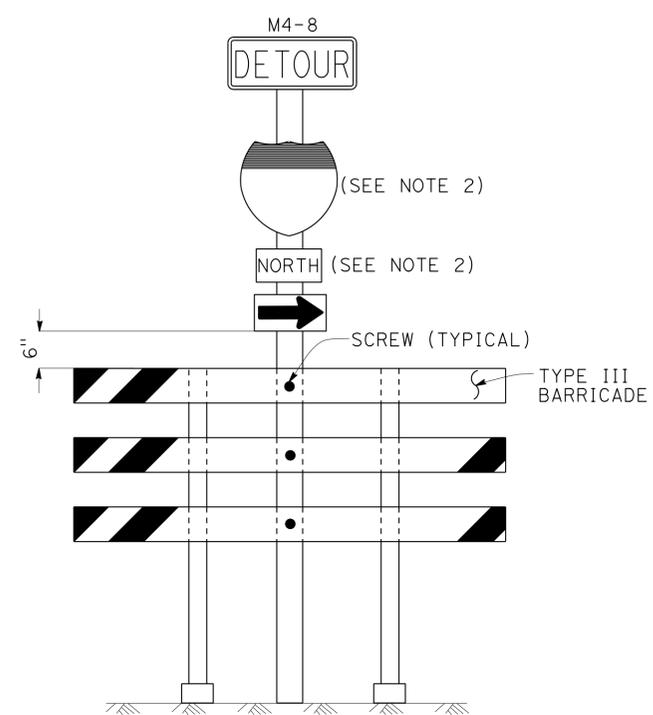
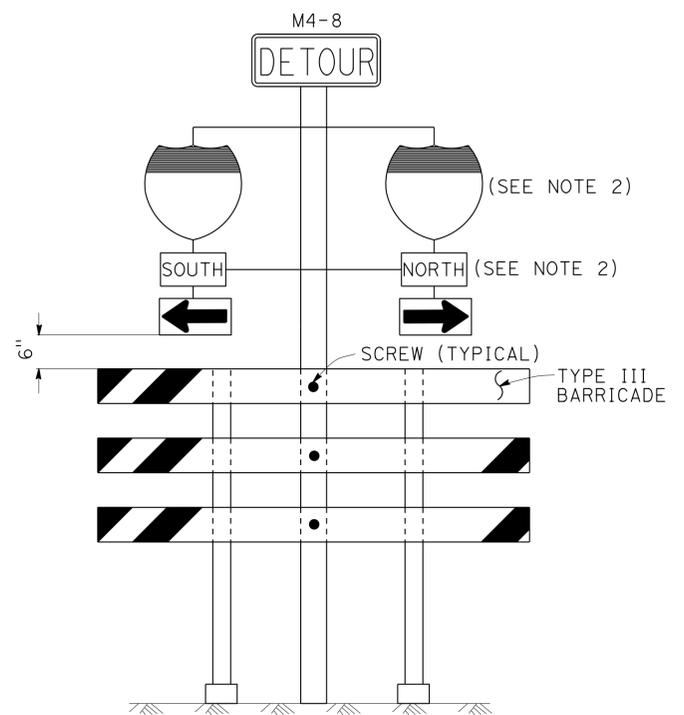
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans®
 DTM
 FUNCTIONAL SUPERVISOR
 SAM ESQUENAZI
 CHECKED BY
 ALBERT K YU
 JOCELYN C CHIANG
 REVISOR BY
 JC
 DATE
 2/14



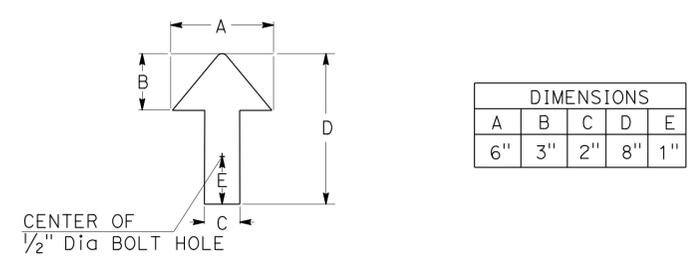
- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

ABBREVIATION
 (CA) CALIFORNIA CODE



- NOTES:** SIGNS SP-6 & SP-7
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
 - USE APPROPRIATE ROUTE MARKER [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

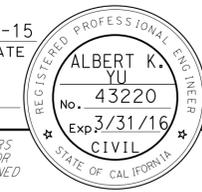


ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS,
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

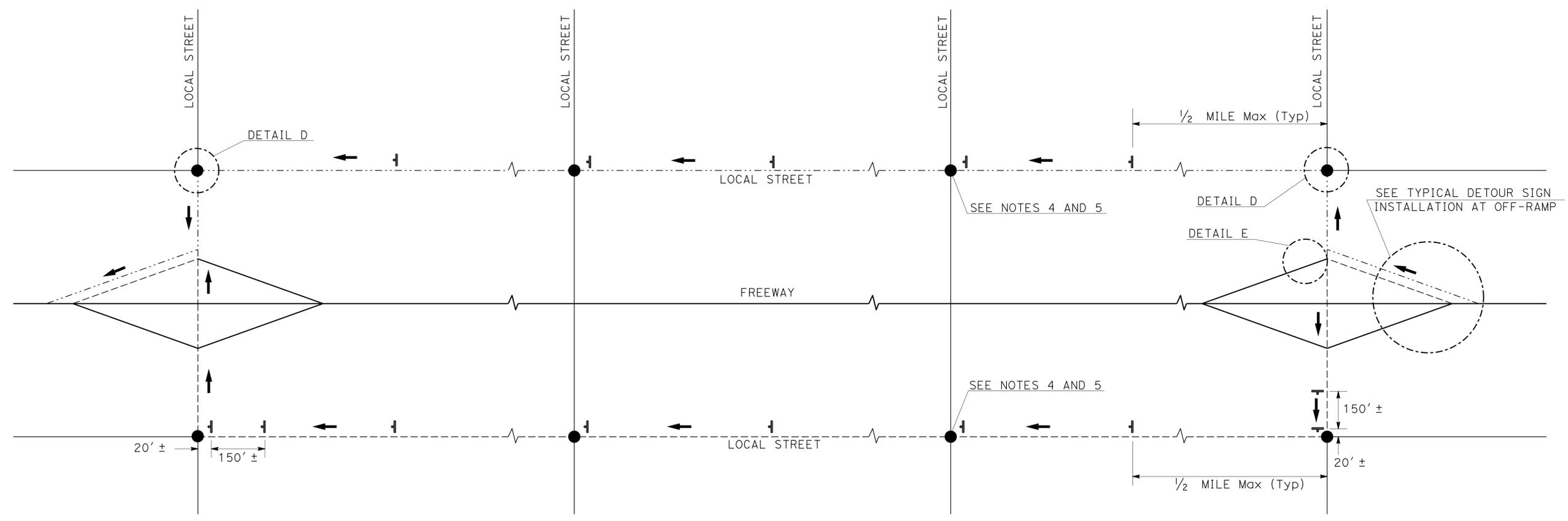
THD-2

LAST REVISION | DATE PLOTTED => 02-MAR-2015
 02-17-15 TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	15	56
			2-9-15		
REGISTERED CIVIL ENGINEER			DATE		
2-17-15			PLANS APPROVAL DATE		
					
<small>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.</small>					

- LEGEND**
-  SIGN SP-2
 -  AND/OR DESIGNATED DETOUR ROUTE
 -  DETOUR DIRECTION
 -  CONTROLLED INTERSECTION

- NOTES:**
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
 - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 - SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 - SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
 - UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
 - EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.

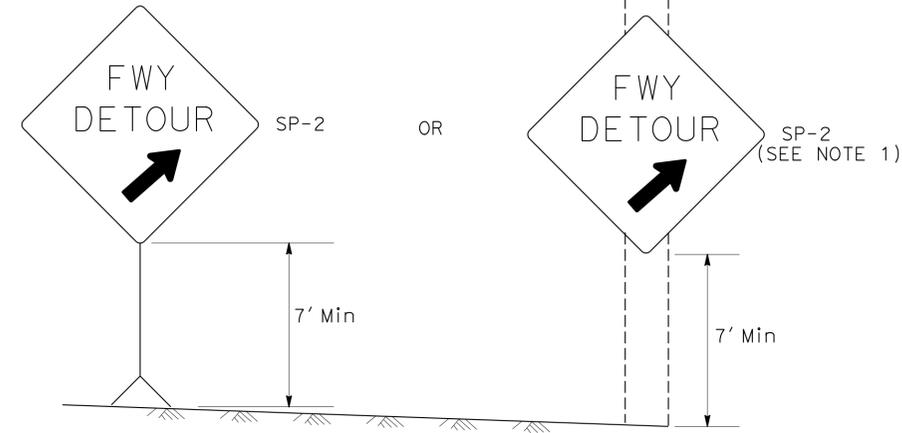


TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 1 OF 2
NO SCALE
THD-3**

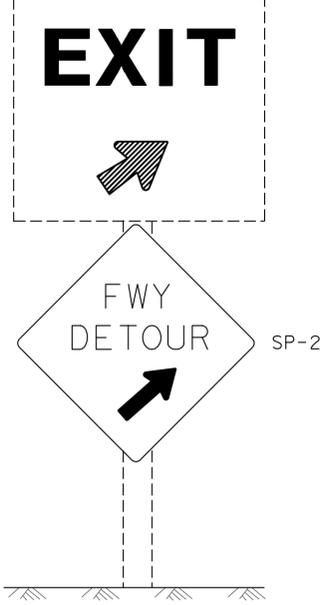
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: SAM ESQUENAZI
 CALCULATED/DESIGNED BY: ALBERT K YU
 CHECKED BY: JOCELYN C CHIANG
 REVISED BY: JC
 DATE REVISED: 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	16	56
2-9-15 REGISTERED CIVIL ENGINEER DATE					
2-17-15 PLANS APPROVAL DATE					
<small>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.</small>					



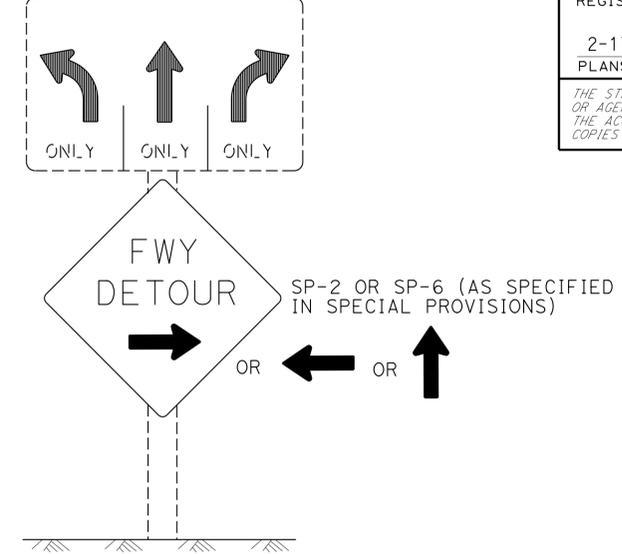
DETAIL A (SEE NOTE 3)

Exist E5-1, G84-2 (CA) OR G84-3 (CA)

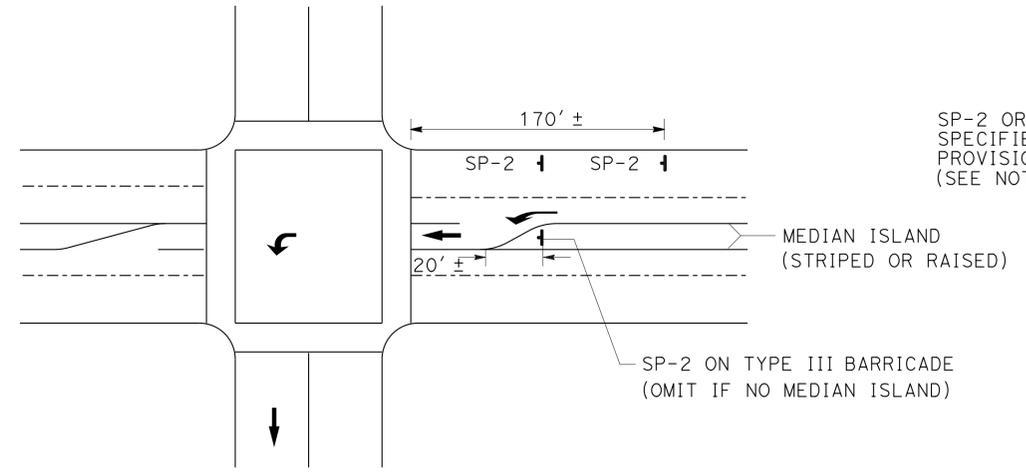


DETAIL B (SEE NOTE 3)

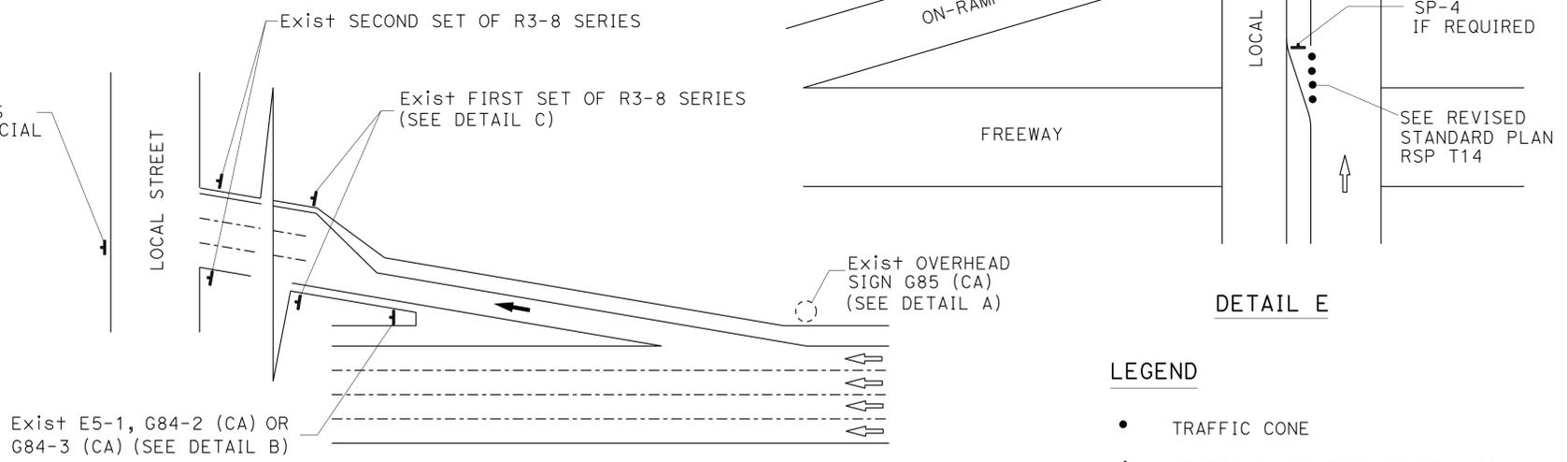
Exist R3-8 SERIES



DETAIL C (SEE NOTES 4, 5, AND 6)



DETAIL D



DETAIL E

- LEGEND**
- TRAFFIC CONE
 - † TEMPORARY TRAFFIC CONTROL SIGN
 - ➔ DETOUR DIRECTION
 - EXISTING OVERHEAD SIGN

TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

SIGN CODE LEGEND

XXYY-Y: FEDERAL SIGN CODE PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
 XXYY-Y (CA): CALIFORNIA SIGN CODE PER CALIFORNIA MUTCD

**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 2 OF 2**

NO SCALE **THD-4**

- NOTES:** SIGN SP-2
- SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
 - SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
 - OMIT DETAILS A AND B FOR FULL FREEWAY CLOSURES.
 - SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-6 SIGN DETAILS.
 - IF R3-8 SERIES SIGNS ARE NOT PRESENT AT THE OFF-RAMP, SP-2 OR SP-6 SIGNS MUST BE FASTENED ONTO EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
 - EXCEPT FOR DETAILS A & B, OMIT SP-2 SIGNS IF RAMP HAS MANDATORY SINGLE MOVE.

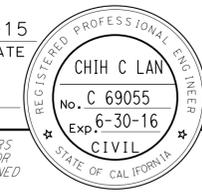
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DT M
 FUNCTIONAL SUPERVISOR: SAM ESOUENAZI
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISIONS: JC 2/14
 DATE: 2/14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	17	56

 2-3-15
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: AYUBUR RAHMAN
 CALCULATED/DESIGNED BY: CHIH C LAN
 CHECKED BY: AYUBUR RAHMAN
 REVISIONS: CHIH C LAN
 DATE: 2-3-15
 REVISIONS: AYUBUR RAHMAN
 DATE: 2-17-15

PAVEMENT DELINEATION QUANTITIES																												
LOCATION No. (X)	ROUTE	PM	BRIDGE NUMBER	BRIDGE NAME	THERMOPLASTIC TRAFFIC STRIPE										THERMOPLASTIC PAVEMENT MARKING			PAVEMENT MARKER RETROREFLECTIVE						REMOVE				
					4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID YELLOW	4" SOLID WHITE	8" SOLID WHITE	4" WHITE (BROKEN 36 - 12)	TEMPORARY TRAFFIC STRIPE (PAINT)	TYPE IV (L) ARROW	8" SOLID WHITE	TEMPORARY PAVEMENT MARKING (PAINT)	TYPE G	TYPE D	TYPE H	TYPE H	TYPE G	TYPE D	PAVEMENT MARKER	YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	THERMOPLASTIC TRAFFIC STRIPE	THERMOPLASTIC PAVEMENT MARKING	PAINTED TRAFFIC STRIPE	PAINTED PAVEMENT MARKING
					LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	SQFT	SQFT	SQFT	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
1	1	9.87	52-0010R	CALLEGUAS CREEK					482	241																		
2	1	18.36	52-0398	THIRD St OC	1,330					1,330																		
3	1	20.65	52-0189	FRONTAGE Rd OC	308																							
4	33	0.17	52-0239	MAIN St UC																								
5	33	R3.26	52-0294R	NORTH VENTURA UC																								
6	33	R4.05	52-0295L	VENTURA Ave UC																								
7	33	R5.63	52-0298S	CASITAS VISTA Rd UC																								
8	33	50.91	52-0087	ROUND SPRING CREEK																								
9	33	51.78	52-0088	CORRAL CANYON CREEK																								
10	33	52.09	52-0120	OAK CREEK																								
11	33	52.59	52-0121	TIMBA CREEK																								
12	33	57.31	52-0090	BERGES CREEK																								
13	101	7.02	52-0247	BORCHARD Rd OC																								
SUBTOTAL					1,638	2,514	164	841	482	3,653	1,116	2,219	2,200	30	40	126	109	50	22	12	96	176	465	5,639	6,440	70	2,200	126
TOTAL					9,292							1,116	2,219	2,200	70	126	289					176	465	5,639	6,440	70	2,200	126

PAVEMENT DELINEATION QUANTITIES

PDQ-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	18	56

 2-3-15
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TRAFFIC HANDLING QUANTITIES					
BRIDGE NAME		CHANNELIZER (SRUFACE MOUNTED)	REMOVE CHANNELIZERS	TEMPORARY RAILING (TYPE K)	TEMPORARY CRASH CUSHION MODULE
		EA	EA	LF	EA
ROUND SPRING CREEK	STAGE 1	14	14	260	55
	STAGE 2	14	14	260	55
CORRAL CANYON CREEK	STAGE 3	14	14	260	55
	STAGE 4	14	14	260	55
OAK CREEK	STAGE 5	14	14	240	55
	STAGE 6	14	14	240	55
TOTAL		42	42	1,520	330

ROADWAY QUANTITIES					
LOCATION	ROADWAY EXCAVATION CY	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DESPOSED LEAD) CY	HOT MIX ASPHALT (TYPE A) TON	LEAN CONCRETE BASE RAPID SETTING CY	TACK COAT TON
ROUND SPRING CREEK Br (BB&EB)	8.2	20.5	20.1	17.8	0.09
CORRAL CANYON CREEK Br (BB&EB)	8.2	20.5	20.1	17.8	0.09
OAK CREEK Br (BB&EB)	8.2	20.5	20.1	17.8	0.09
TIMBA CREEK Br (BB&EB)	6.4		11.1		0.05
BERGES CREEK Br (BB&EB)	6.4		11.1		0.05
SUBTOTAL	37.4	61.5	82.5	53.4	0.37
TOTAL	37.4	61.5	82.5	53.4	0.37

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING
 FUNCTIONAL SUPERVISOR: AYUBUR RAHMAN
 CALCULATED/DESIGNED BY: CHIH C LAN
 CHECKED BY: AYUBUR RAHMAN
 REVISED BY: CHIH C LAN
 DATE REVISED: AYUBUR RAHMAN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	19	56

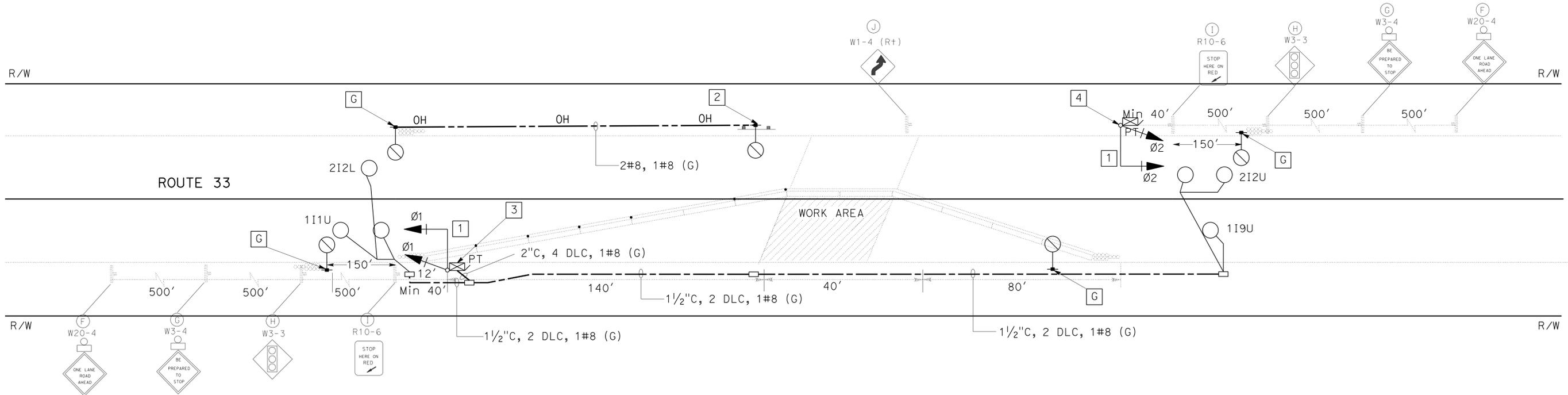
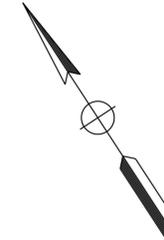
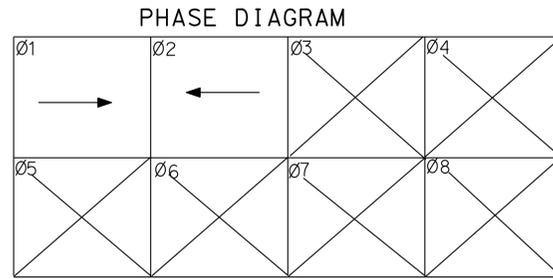
<i>ahs</i>	1/28/15
REGISTERED ELECTRICAL ENGINEER	DATE
JAMSHED A. HYDER No. E18656 Exp. 12/31/16 ELECTRICAL	
2-17-15	PLANS APPROVAL DATE
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>	

NOTE: (THIS SHEET ONLY)

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

LEGEND: (THIS SHEET ONLY)

- 1 PROVIDE 10 FEET MINIMUM BETWEEN LOWER SIGNAL MOUNTING LOCATION TO MAST ARM SIGNAL HEAD.
- 2 PROVIDE TEMPORARY K-RAIL IN FRONT OF TEMPORARY WOOD POLE.
- 3 PROVIDE MASTER SIGNAL CONTROLLER IN THIS TRAILER.
- 4 PROVIDE REMOTE SIGNAL CONTROL IN THIS TRAILER. USE A RADIO LINK TO COMMUNICATE WITH MASTER SIGNAL CONTROLLER.
- G PORTABLE GENERATOR. THE CAPACITY OF GENERATOR MUST BE SIZED TO PROVIDE POWER TO TEMPORARY LIGHTING.
- PT PORTABLE TEMPORARY SIGNAL SYSTEM TRAILER WITH BATTERIES WITH GENNERATOR BACKUP.



ROUND SPRING CREEK BRIDGE No. 52-0087 (PM 50.91)

**SIGNAL AND LIGHTING
(TEMPORARY)**
NO SCALE

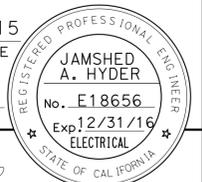
STAGE 1

E-1

APPROVED FOR ELECTRICAL WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: OSWALD ELIZONDO
 CALCULATED/DESIGNED BY: OSWALD ELIZONDO
 CHECKED BY:
 REVISOR: JAMSHED A. HYDER
 DATE REVISOR: OSWALD ELIZONDO

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	20	56
			1/28/15		
			REGISTERED ELECTRICAL ENGINEER	DATE	
			2-17-15	PLANS APPROVAL DATE	
<small>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.</small>					



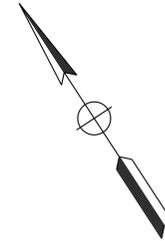
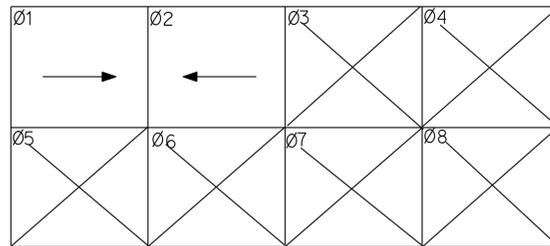
NOTE: (THIS SHEET ONLY)

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

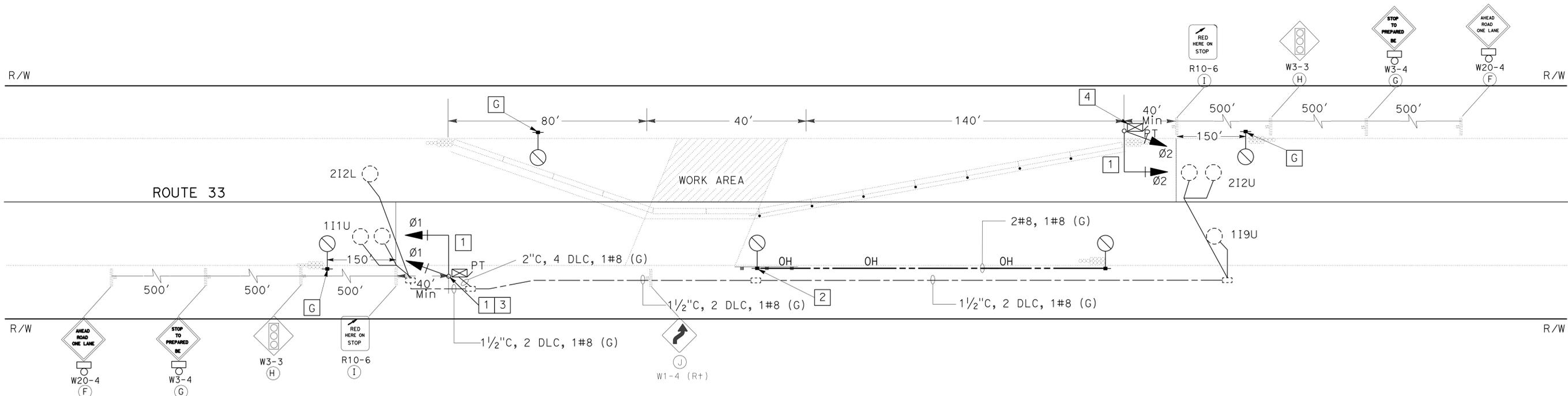
LEGEND: (THIS SHEET ONLY)

- 1 PROVIDE 10 FEET MINIMUM BETWEEN LOWER SIGNAL MOUNTING LOCATION TO MAST ARM SIGNAL HEAD.
- 2 PROVIDE TEMPORARY K-RAIL IN FRONT OF TEMPORARY WOOD POLE.
- 3 MASTER SIGNAL CONTROLLER IN THIS TRAILER.
- 4 REMOTE SIGNAL CONTROL IN THIS TRAILER. USE A RADIO LINK TO COMMUNICATE WITH MASTER SIGNAL CONTROLLER.
- G PORTABLE GENERATOR. THE CAPACITY OF GENERATOR MUST BE SIZED TO PROVIDE POWER TO TEMPORARY LIGHTING.
- ☒ PORTABLE TEMPORARY SIGNAL SYSTEM TRAILER WITH BATTERIES PT WITH GENNERATOR BACKUP.

PHASE DIAGRAM



REVISOR: JAMSHED A. HYDER
 CHECKED BY: OSWALD ELIZONDO
 SUPERVISOR: OSWALD ELIZONDO
 DESIGNER: OSWALD ELIZONDO
 DATE: 1/28/15
 PROJECT: UNIT 1878



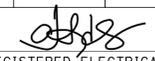
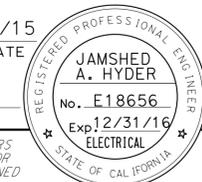
ROUND SPRING CREEK BRIDGE No. 52-0087 (PM 50.91)

STAGE 2

**SIGNAL AND LIGHTING
(TEMPORARY)
NO SCALE**

APPROVED FOR ELECTRICAL WORK ONLY

E-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	21	56
 REGISTERED ELECTRICAL ENGINEER DATE 1/28/15					
2-17-15			PLANS APPROVAL DATE		
<small>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.</small>					

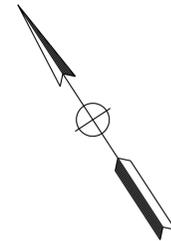
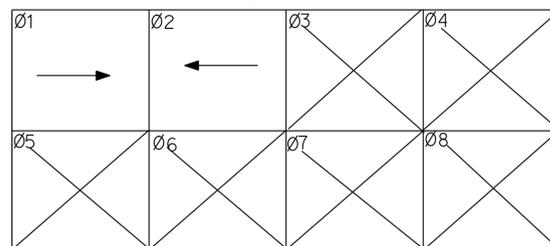
NOTE: (THIS SHEET ONLY)

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

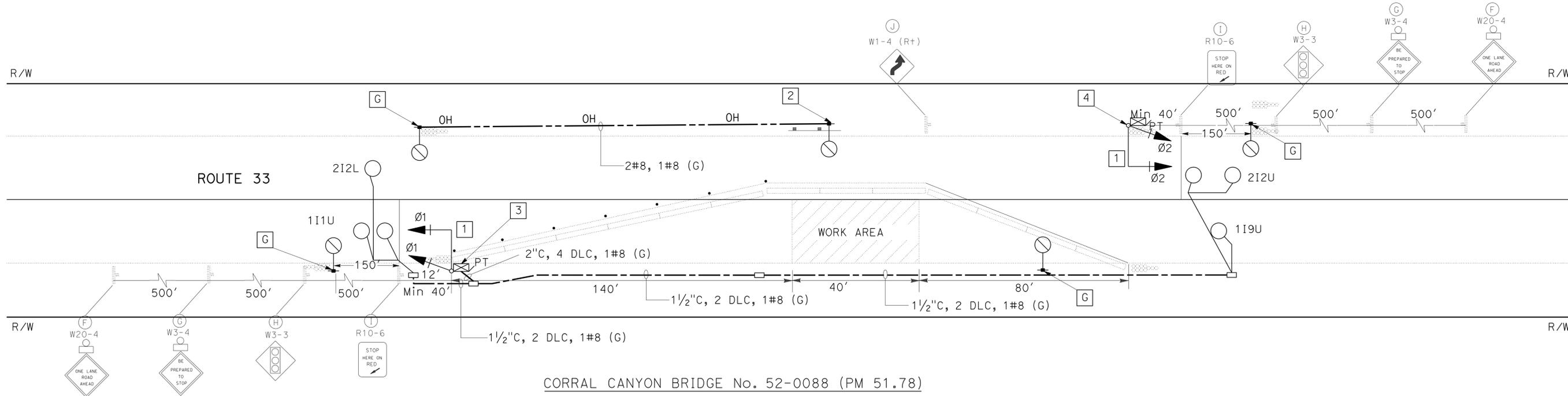
LEGEND: (THIS SHEET ONLY)

- 1 PROVIDE 10 FEET MINIMUM BETWEEN LOWER SIGNAL MOUNTING LOCATION TO MAST ARM SIGNAL HEAD.
- 2 PROVIDE TEMPORARY K-RAIL IN FRONT OF TEMPORARY WOOD POLE.
- 3 MASTER SIGNAL CONTROLLER IN THIS TRAILER.
- 4 REMOTE SIGNAL CONTROL IN THIS TRAILER. USE A RADIO LINK TO COMMUNICATE WITH MASTER SIGNAL CONTROLLER.
- G PORTABLE GENERATOR. THE CAPACITY OF GENERATOR MUST BE SIZED TO PROVIDE POWER TO TEMPORARY LIGHTING.
- ☒ PORTABLE TEMPORARY SIGNAL SYSTEM TRAILER WITH BATTERIES PT WITH GENNERATOR BACKUP.

PHASE DIAGRAM



REVISOR: JAMSHED A. HYDER, OSWALD ELIZONDO
 CHECKED BY: OSWALD ELIZONDO
 FUNCTIONAL SUPERVISOR: OSWALD ELIZONDO
 DEPARTMENT OF TRANSPORTATION - CALTRANS - TRAFFIC DESIGN



CORRAL CANYON BRIDGE No. 52-0088 (PM 51.78)

STAGE 3

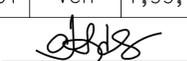
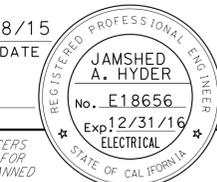
APPROVED FOR ELECTRICAL WORK ONLY

SIGNAL AND LIGHTING (TEMPORARY)

NO SCALE

E-3

LAST REVISION DATE PLOTTED => 02-MAR-2015 10:41
 02-17-15 TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	22	56
 REGISTERED ELECTRICAL ENGINEER DATE 1/28/15					
2-17-15			PLANS APPROVAL DATE		
<small>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.</small>					

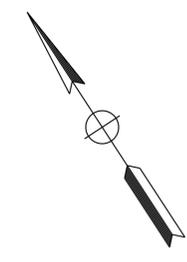
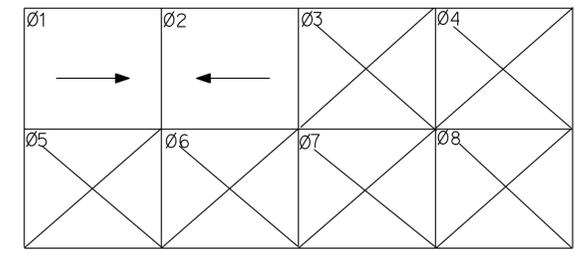
NOTE: (THIS SHEET ONLY)

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

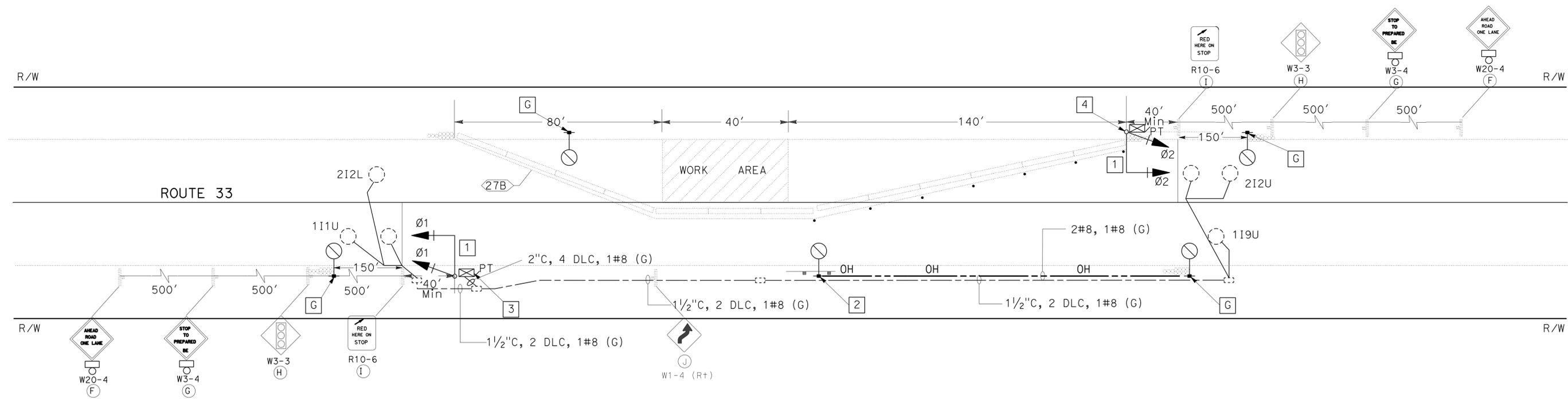
LEGEND: (THIS SHEET ONLY)

- 1 PROVIDE 10 FEET MINIMUM BETWEEN LOWER SIGNAL MOUNTING LOCATION TO MAST ARM SIGNAL HEAD.
- 2 PROVIDE TEMPORARY K-RAIL IN FRONT OF TEMPORARY WOOD POLE.
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-  PORTABLE TEMPORARY SIGNAL SYSTEM TRAILER WITH BATTERIES PT WITH GENNERATOR BACKUP.

PHASE DIAGRAM



REVISOR: JAMSHED A. HYDER
 DATE: 1/28/15
 DESIGNED BY: OSWALD ELIZONDO
 CHECKED BY:
 SUPERVISOR: OSWALD ELIZONDO
 DESIGN: TRAFFIC DESIGN



CORRAL CANYON CREEK BRIDGE No. 52-0088 (PM 51.78)

STAGE 4

SIGNAL AND LIGHTING (TEMPORARY)

APPROVED FOR ELECTRICAL WORK ONLY

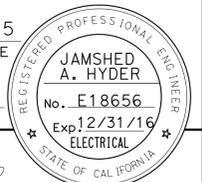
NO SCALE

E-4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	23	56

<i>J.A.H.</i>	1/28/15
REGISTERED ELECTRICAL ENGINEER	DATE
2-17-15	
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.



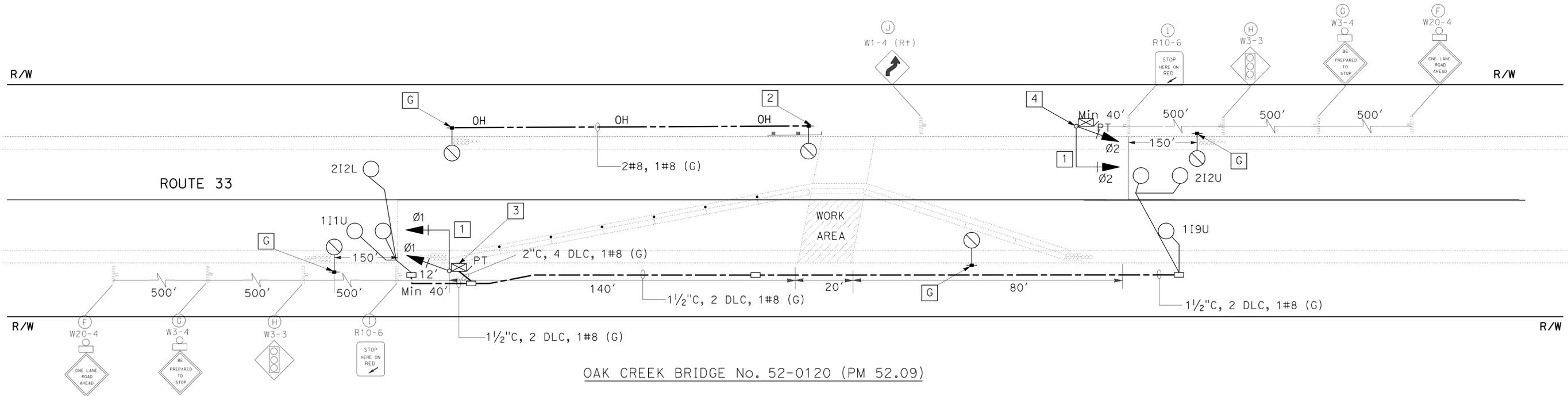
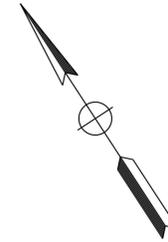
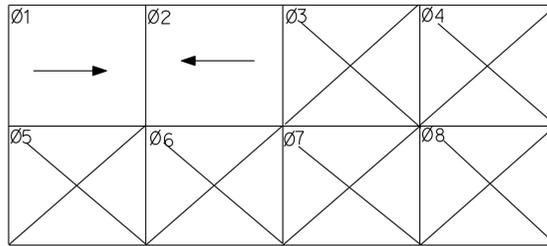
NOTE: (THIS SHEET ONLY)

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

LEGEND: (THIS SHEET ONLY)

- 1 PROVIDE 10 FEET MINIMUM BETWEEN LOWER SIGNAL MOUNTING LOCATION TO MAST ARM SIGNAL HEAD.
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- G PORTABLE GENERATOR. THE CAPACITY OF GENERATOR MUST BE SIZED TO PROVIDE POWER TO TEMPORARY LIGHTING.
- ⊠ PORTABLE TEMPORARY SIGNAL SYSTEM TRAILER WITH BATTERIES PT WITH GENNERATOR BACKUP.

PHASE DIAGRAM



STAGE 5

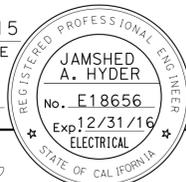
**SIGNAL AND LIGHTING
(TEMPORARY)
NO SCALE**

APPROVED FOR ELECTRICAL WORK ONLY

E-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	25	56

 1/28/15
 REGISTERED ELECTRICAL ENGINEER DATE
 2-17-15
 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.

NOTES: (THIS SHEET ONLY)

ITEMS SHOWN IN THIS TABLE ARE NOT SEPARATE PAY ITEM, FOR INFORMATION ONLY.

SIGNAL AND LIGHTING (TEMPORARY)

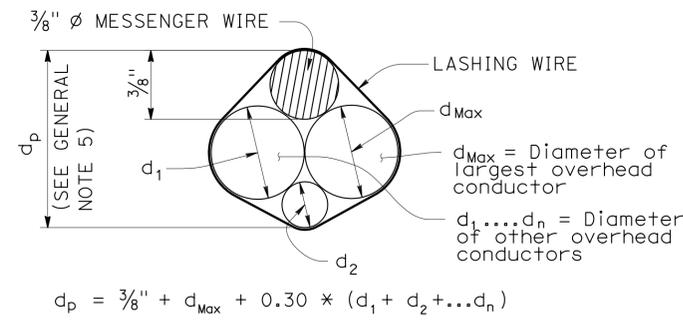
SHEET No.	Pull Box	2"C TYPE 1	PORTABLE TEMPORARY TRAFFIC SIGNAL	TMPORARY WOOD POLE	TEMPORARY LUMINAIRE ARM	165 W LED Lum	No. 8 (G) CONDUCTOR	No. 6 CONDUCTOR
	EA	LF	EA	EA	EA	EA	LF	LF
E-1	4	20	2	5	5	5	350	700
E-2	4	20	2	4	4	4	350	700
E-3	4	20	2	5	5	5	350	700
E-4	4	20	2	4	4	4	350	700
E-5	4	20	2	5	5	5	350	700
E-6	4	20	2	4	4	4	350	700

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR
 OSWALD ELIZONDO
 CALCULATED/DESIGNED BY
 CHECKED BY
 JAMSHED A HYDER
 OSWALD ELIZONDO
 REVISED BY
 DATE REVISED

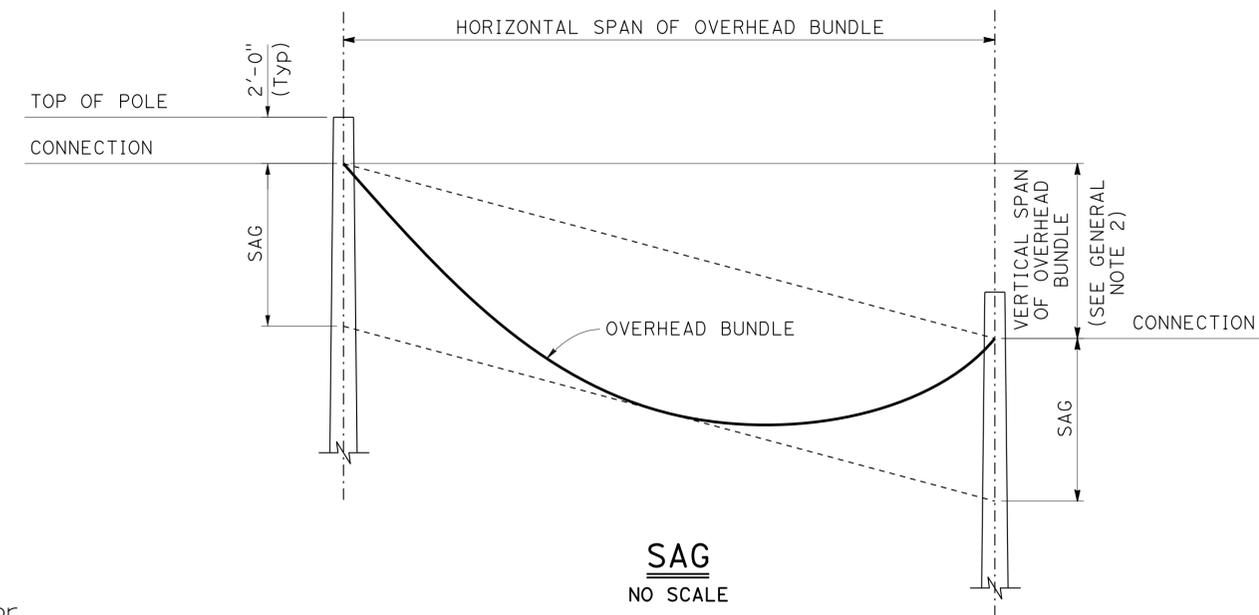
ELECTRICAL QUANTITIES

E-7





PROJECTED DEPTH OF OVERHEAD BUNDLE, (d_p)



Design: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, Fifth Edition (LTS-5).

GROUP LOAD COMBINATIONS:

- I Dead Load
- II Dead Load + Wind Load
- III Dead Load + 0.5 (Wind Load) + Ice Load
- IV Fatigue: Not used

LOADING:

Wind Loading: 100 mph (3-second gust)
 Wind Recurrence Interval: 10 years
 Combined height, exposure, and elevated terrain factor = 1.05
 (Exposure C, structure is not located on or over the top half of a ridge, hill, or escarpment)

Ice Loading: 3.0 psf on surfaces, 0.60 in radial thickness of ice at a unit weight of 60 pcf on overhead bundles

BASIC DESIGN VALUES:

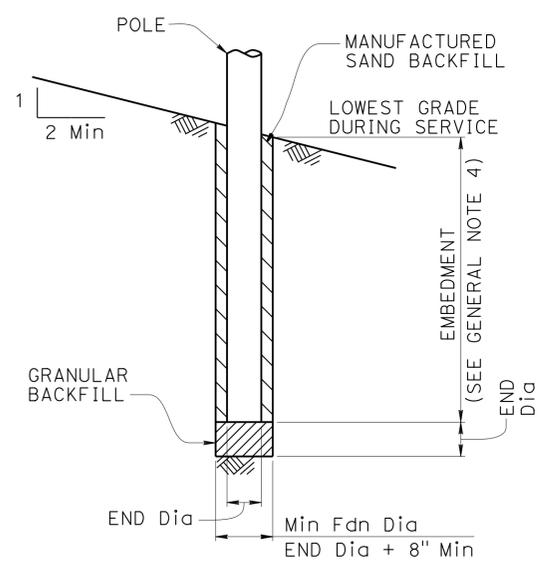
Timber Poles: $F_b = 1850$ psi
 $F_v = 110$ psi
 $F_{cp} = 230$ psi
 $F_c = 950$ psi
 $E = 1500 \times 10^3$ psi

DESIGN WIRE BREAKING STRENGTHS:

ASTM A475, Utilities Grade, 7 strand modified by termination efficiency factor of 0.8

FOUNDATION DESIGN NOTES:

- Pole embedment depth design is based on Broms' approximate procedure as described in Article 13.6 of AASHTO LTS-5.
- Embedment depth is calculated based on following soil parameters:
 Cohesive Soil:
 Shear strength of soil $c = 1500$ psf.
 Cohesionless Soil:
 $\phi = 30$ deg, $\gamma = 120$ pcf.
 Soil assumed to be unsaturated.
- An overload factor of 2.0 and an undercapacity factor of 0.7 were used for safety factor of 2.86.
- Allowable vertical bearing pressure at the end bearing of poles is 3000 psf at 6 feet or more embedment.
- Guy wire anchor minimum allowable tension capacity, "Qa" = 8,900 lbs.



POLE FOUNDATION

GENERAL NOTES:

- The messenger wire and any combination of overhead conductors must not exceed either a self weight of 3.0 lb/ft or the maximum d in the pole selection tables.
- The maximum vertical span is 10% of the horizontal span.
- For poles with adjacent unbalanced horizontal spans, the shortest horizontal span must be at least 50% of the largest horizontal span.
- Add 2'-0" for slopes above 1V:4H.
- For a pole supporting multiple spans, calculate d_p for each span and use the largest value.
- Do not exceed the attachments shown.

DIAMETERS AND SELF WEIGHT OF OVERHEAD CONDUCTORS

CONDUCTOR OR CABLE TYPE	DIAMETER d (in)	WEIGHT w (plf)
3 CONDUCTOR SIGNAL CABLE (3CSC)	0.400	0.0980
5 CONDUCTOR SIGNAL CABLE (5CSC)	0.500	0.1560
9 CONDUCTOR SIGNAL CABLE (9CSC)	0.650	0.2760
12 CONDUCTOR SIGNAL CABLE (12CSC)	0.800	0.3970
28 CONDUCTOR SIGNAL CABLE (28CSC)	0.900	0.6490
1-#14	0.166	0.0235
1-#12	0.185	0.0330
1-#10	0.210	0.0476
1-#8	0.271	0.0774
1-#6	0.310	0.1130
1-#4	0.359	0.1690
1-#3	0.388	0.2080
1-#2	0.420	0.2560
1-#1	0.498	0.3340
6-CONDUCTOR SIGNAL INTERCONNECT CABLE (SIC)	0.350	0.0860
12-CONDUCTOR SIGNAL INTERCONNECT CABLE (SIC)	0.500	0.1440
DETECTOR LEAD-IN CABLE (DLC)	0.310	0.0440
12 to 48-STRAND FIBER OPTIC CABLE (48FOC)	0.424	0.0600
72-STRAND FIBER OPTIC CABLE (72FOC)	0.484	0.0770
96-STRAND FIBER OPTIC CABLE (96FOC)	0.535	0.1050
144-STRAND FIBER OPTIC CABLE (144FOC)	0.670	0.1890
$\frac{3}{8}$ " ϕ MESSENGER WIRE	0.375	0.2730

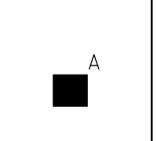
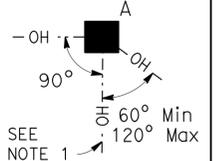
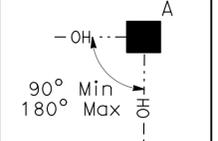
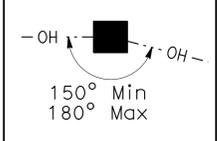
NO SCALE

POLE SELECTION TABLE

LEGEND

- Wood Pole No Attachments
- ^A Wood Pole with Attachments
- OH- Overhead Bundle

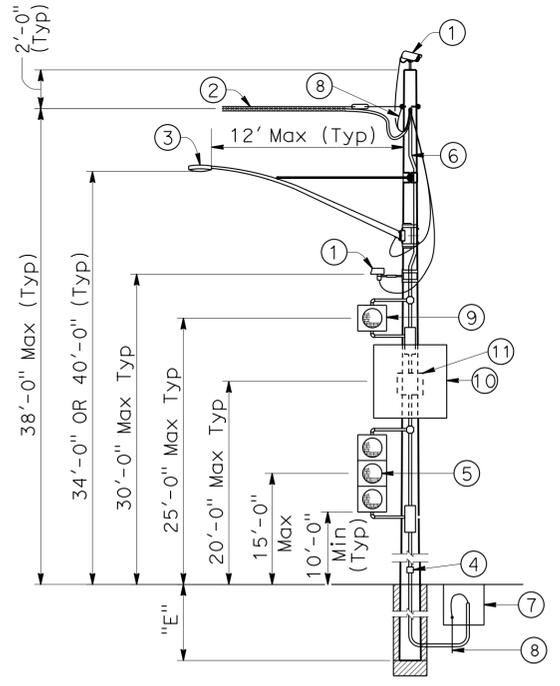
OVERHEAD BUNDLE HORIZONTAL SPAN (Max)	MAXIMUM d _p	CASE 1N				CASE 2N				CASE 3N				CASE 4N				CASE 5N
		1"	1.5"	2.0"	2.5"	1"	1.5"	2.0"	2.5"	1.0"	1.5"	2.0"	2.5"	1"	1.5"	2.0"	2.5"	N/A
50'	MINIMUM POLE CLASS	H-1	H-2	H-2	H-2	4	3	2	1	H-2	H-2	H-3	H-3	H-4	H-4	H-4	H-5	CLASS 1 E = 10'
	POLE EMBEDMENT (E)	11'				10'				11'				12'				
100'	MINIMUM POLE CLASS	H-2	H-3	H-4	H-5	1	H-1	H-2	H-3	H-4	H-5	H-5	H-6	H-5	H-5	H-6		
	POLE EMBEDMENT (E)	12'				11'				12'				12'				
150'	MINIMUM POLE CLASS	H-4	H-5	H-6		H-1	H-2	H-3	H-5	H-6				H-6				
	POLE EMBEDMENT (E)	12'				12'				12'				12'				
200'	MINIMUM POLE CLASS	H-5	H-6			H-2	H-3	H-5										
	POLE EMBEDMENT (E)	12'				12'												



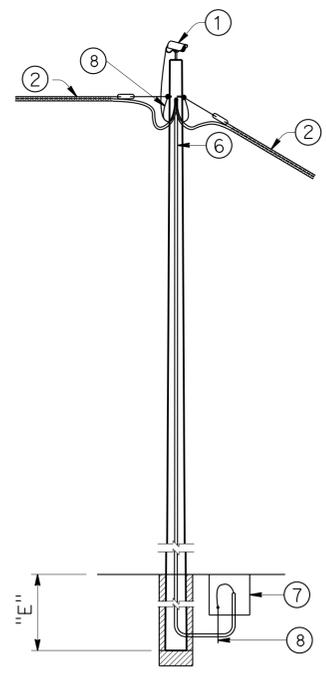
- ① CCTV camera assembly or vehicle detection system
- ② Overhead bundle consisting of a 3/8" ø messenger wire, overhead conductors, and lashing wire
- ③ Luminaire with mast arm
- ④ Pedestrian push button assembly or accessible push button assembly
- ⑤ Signal face with 3 indications or single sheet sign panel (10 SQFT Max)
- ⑥ Riser with weather head as required
- ⑦ Pull box as required
- ⑧ Grounding as required
- ⑨ Single flashing beacon or single sheet sign panel (4 SQFT Max)
- ⑩ Single sheet sign panel (4' x 4' Max) or signal face with 3 indications
- ⑪ Flashing beacon control assembly
- ⑫ NEMA 3R enclosure, 26"(W) x 56"(H) x 12"(D) Max dimensions. Max weight including batteries, 450 lbs
- ⑬ 25' SQFT Max total photovoltaic panels mounted as shown as required
- ⑭ 2-12" flashing beacons

NOTES:

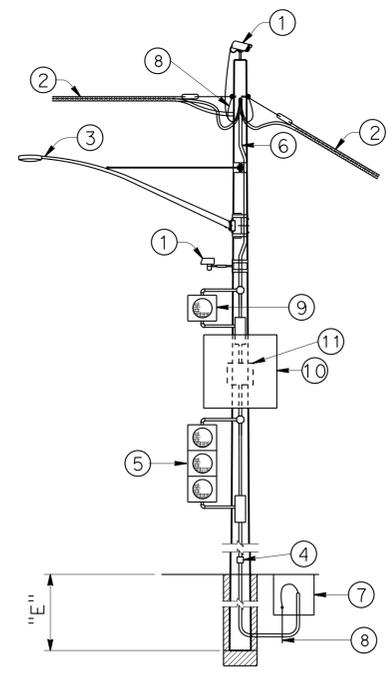
1. In addition to other restrictions on maximum horizontal span, this horizontal span must not exceed 100'.
2. Cases 1N, 3N and 4N may substitute the attachments shown in Case 5N if the photovoltaic panel is not included.
3. For Case 1N without an overhead bundle (item ②) use minimum pole class H-1 with E=11'.



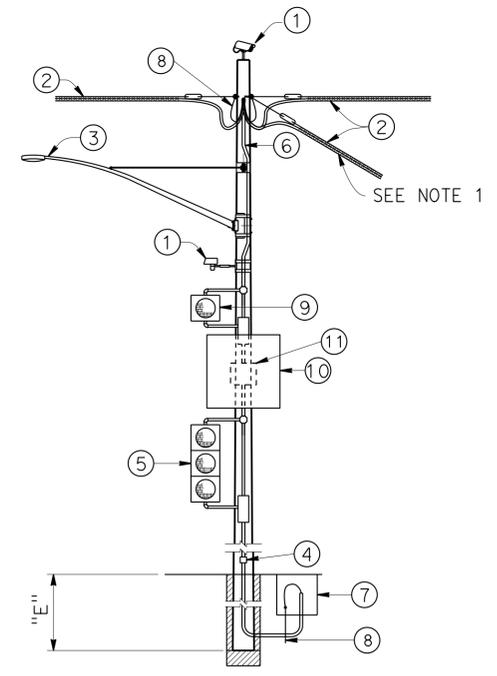
**CASE 1N
POLE AT DEAD END
WITH ATTACHMENTS**
SEE NOTE 2



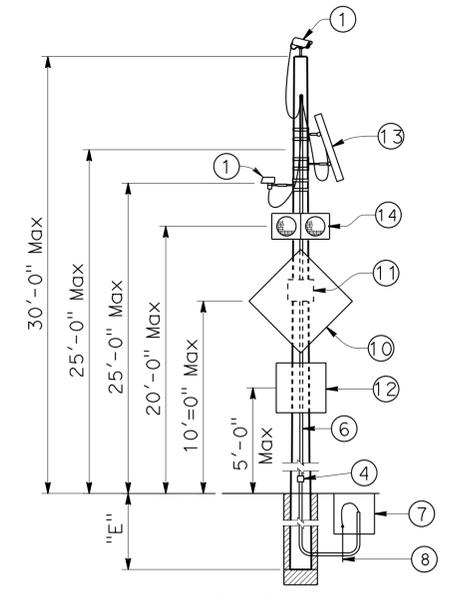
**CASE 2N
POLE AT TANGENT
WITHOUT ATTACHMENTS**



**CASE 3N
POLE AT TANGENT OR CORNER
WITH ATTACHMENTS**
SEE NOTE 2



**CASE 4N
POLE AT JUNCTION
WITH ATTACHMENTS**
SEE NOTE 2



**CASE 5N
POLE WITHOUT OVERHEAD BUNDLE
WITH ATTACHMENTS**

STANDARD DRAWING
FILE NO. **xs18-020**
APPROVAL DATE July 2014

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

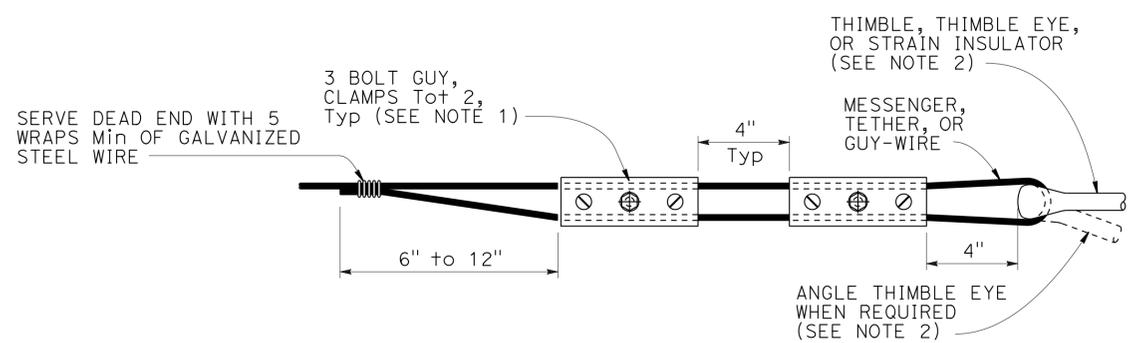
DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **B**

BRIDGE NO. N/A
POST MILE 6.3/12.8

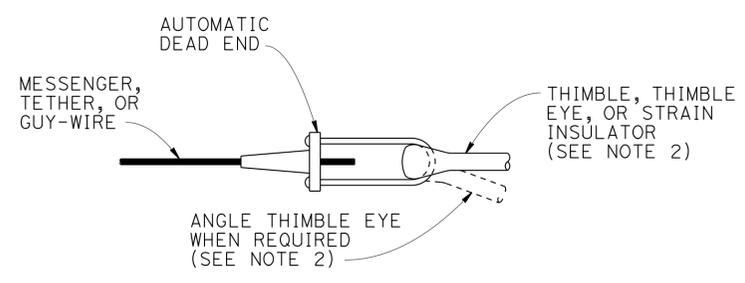
TEMPORARY WOOD POLES
NON-GUYED - NO SIGNALS ON SPANS

SES-2

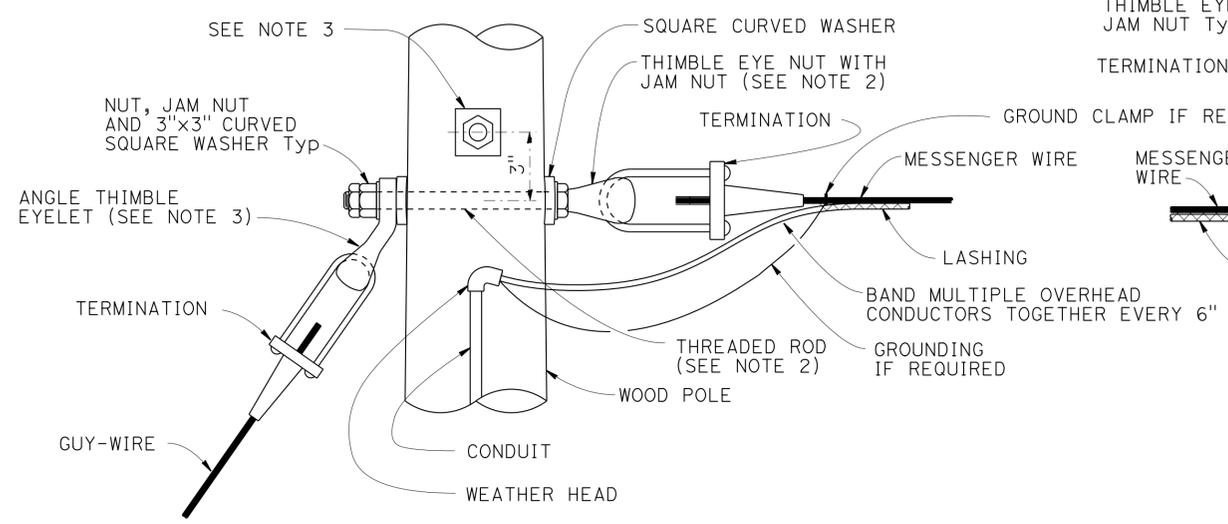
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	28	56
			9-16-14	DATE	
			2-17-15	DATE	
REGISTERED CIVIL ENGINEER No. C52639 Exp. 12/31/2014 CIVIL STATE OF CALIFORNIA					
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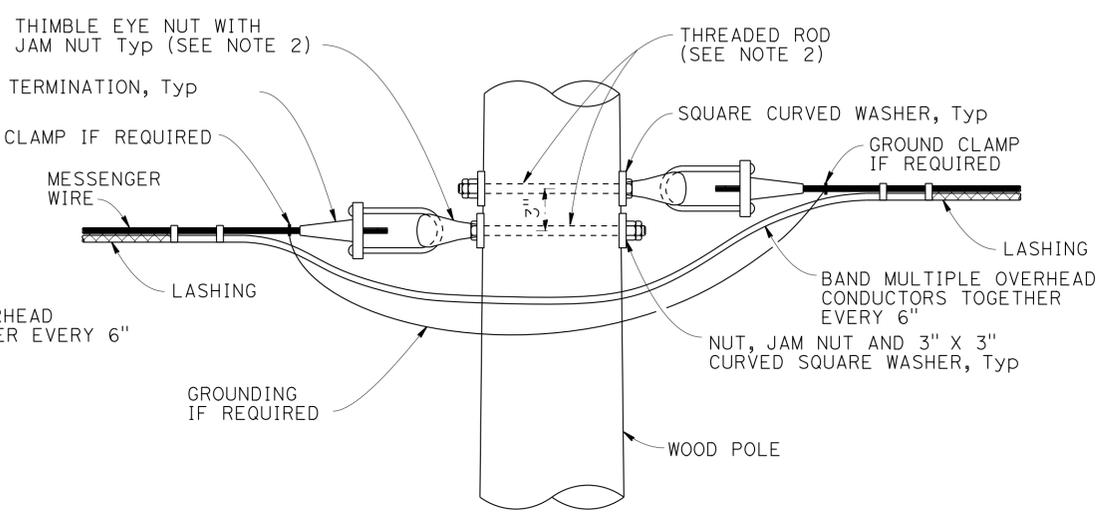
ALTERNATIVE TERMINATION OF MESSENGER WIRES USING GUY CLAMPS



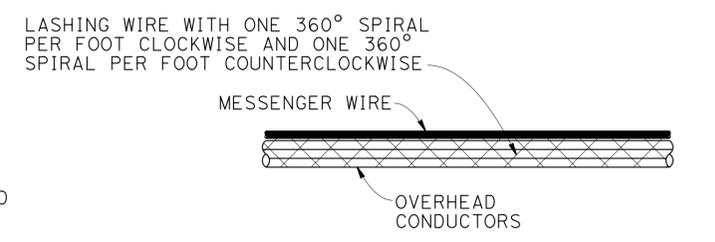
TERMINATION OF WIRES USING AUTOMATIC DEAD END



POLE AT DEAD END WITH GUY-WIRE CONNECTION

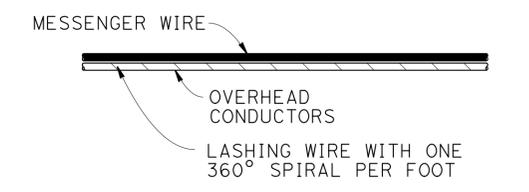


POLE AT TANGENT OR CORNER CONNECTION



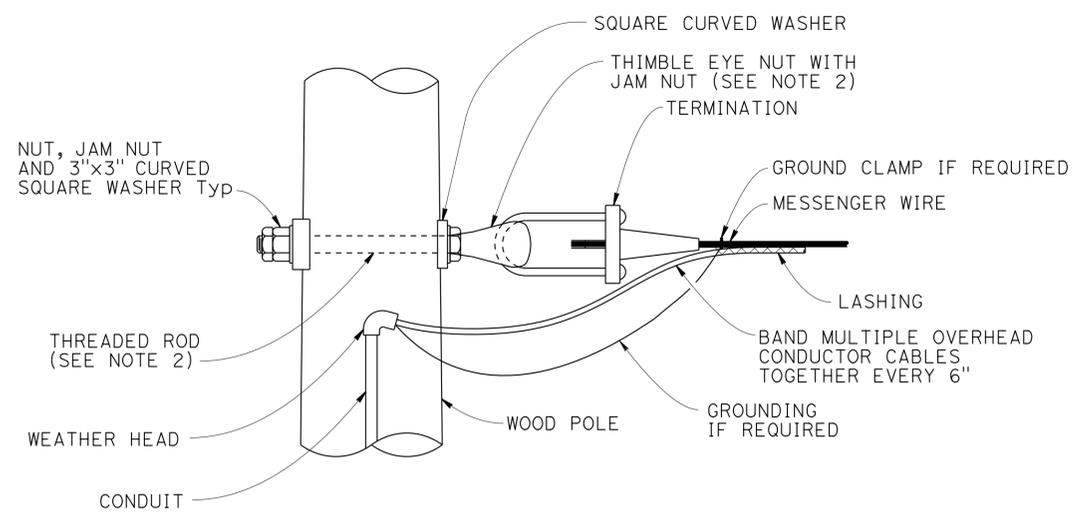
DOUBLE LASHING DETAIL

USE IF d_p IS GREATER THAN 1/2"

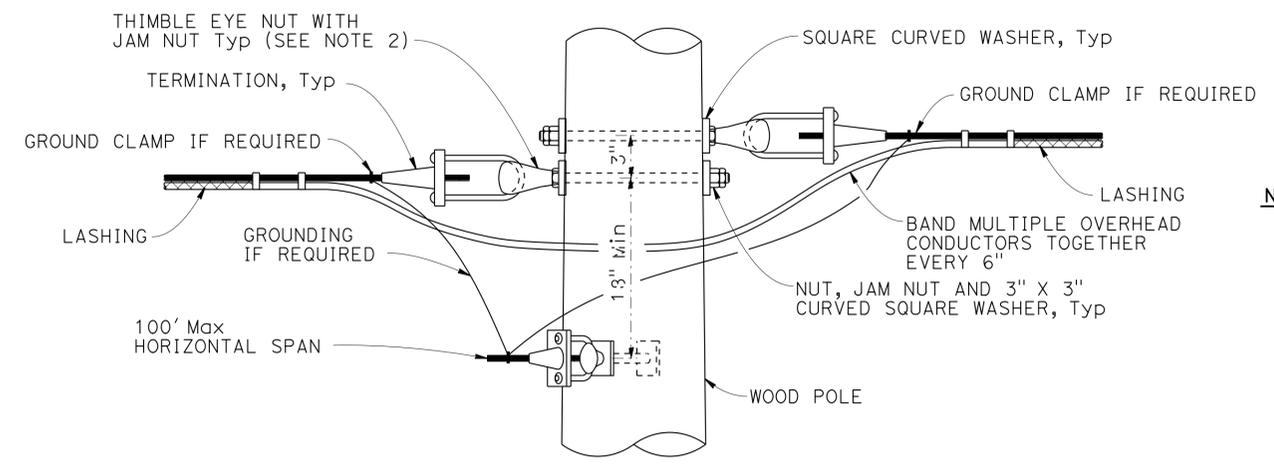


TYPICAL LASHING DETAIL

USE IF d_p IS 1/2" OR LESS



POLE AT DEAD END CONNECTION



POLE AT JUNCTION CONNECTION

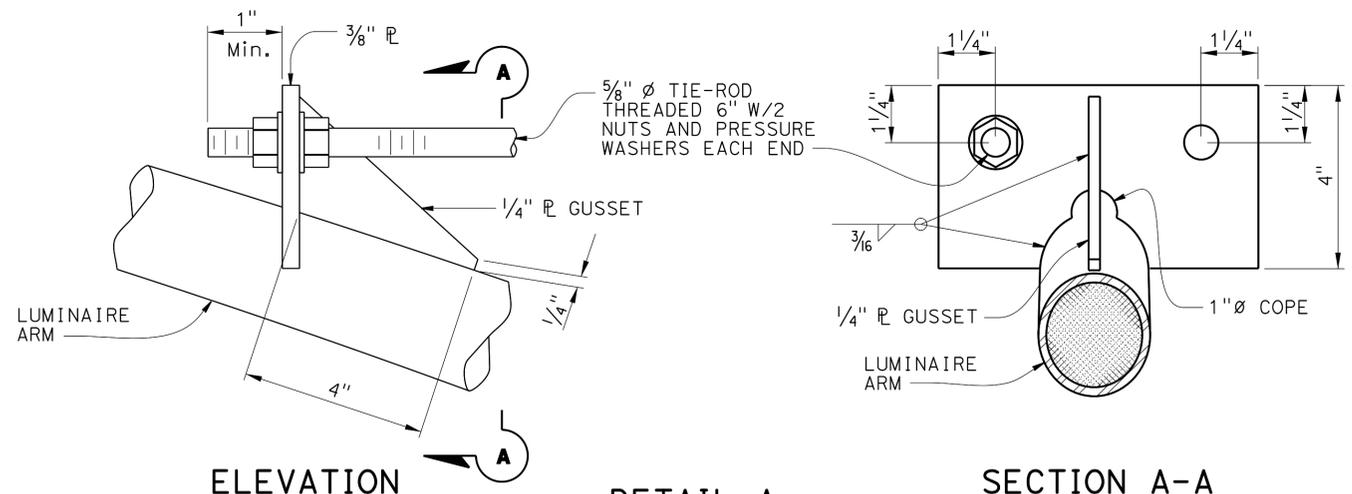
NOTES:

1. For guy wires use 3 clamps.
2. Use 5/8" ϕ except 3/4" ϕ at guyed wires
3. Install additional angle thimble eyelet at poles with two guy wires.

NO SCALE

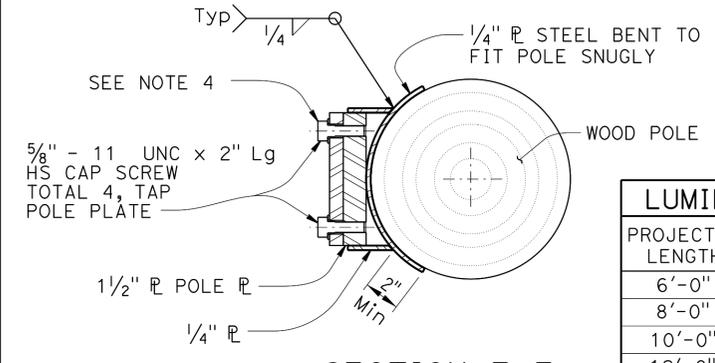
STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B	BRIDGE NO. N/A	TEMPORARY WOOD POLES DETAILS No. 1	SES-3
FILE NO. xs18-080-1	APPROVAL DATE July 2014			POST MILE 6.3/12.8		
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: 3619 PROJECT NUMBER & PHASE: 07130004431	CONTRACT NO.: 2W7104	REVISION DATES 9-10-14
				DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 3 OF 5

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 10:42



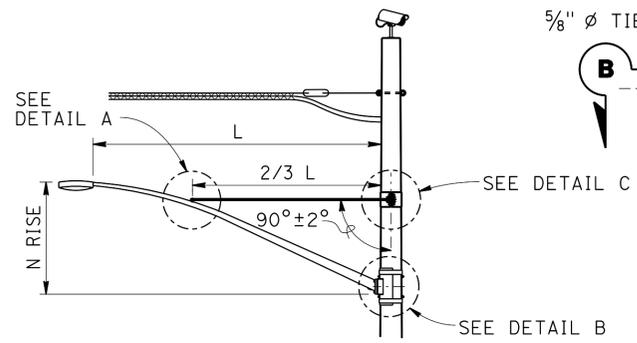
ELEVATION
SECTION A-A
DETAIL A
TIE-ROD AT LUMINAIRE ARM
NO SCALE

- NOTES:**
- Luminaire mast arms must be in compliance with Standard Plan ES-6D with noted modifications.
 - Verify pole dimensions at tie-rod attachment height. Fabricate 8" flat bar with "L" Dimension to maintain an open gap between flanges in finished installation.
 - Not all screw heads and bolt heads are shown for clarity.
 - Mast arm not shown for clarity.

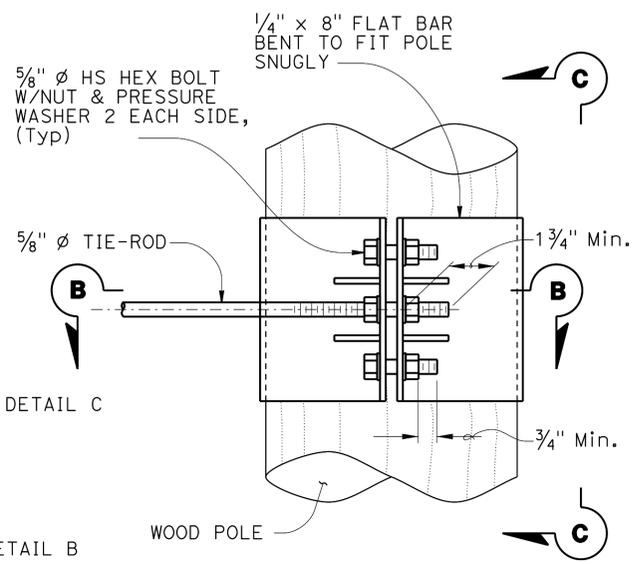


PROJECTED LENGTH	N RISE	Min OD AT POLE	NOMINAL THICKNESS
6'-0"	2'-0"±	3/4"	0.1196"
8'-0"	2'-6"±	3/2"	
10'-0"	3'-3"±	3 3/8"	
12'-0"	4'-3"±	3 7/8"	

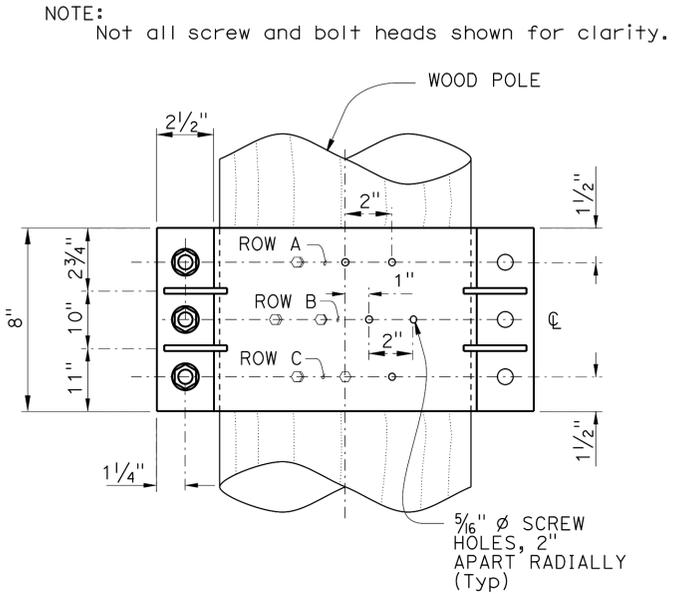
SECTION E-E



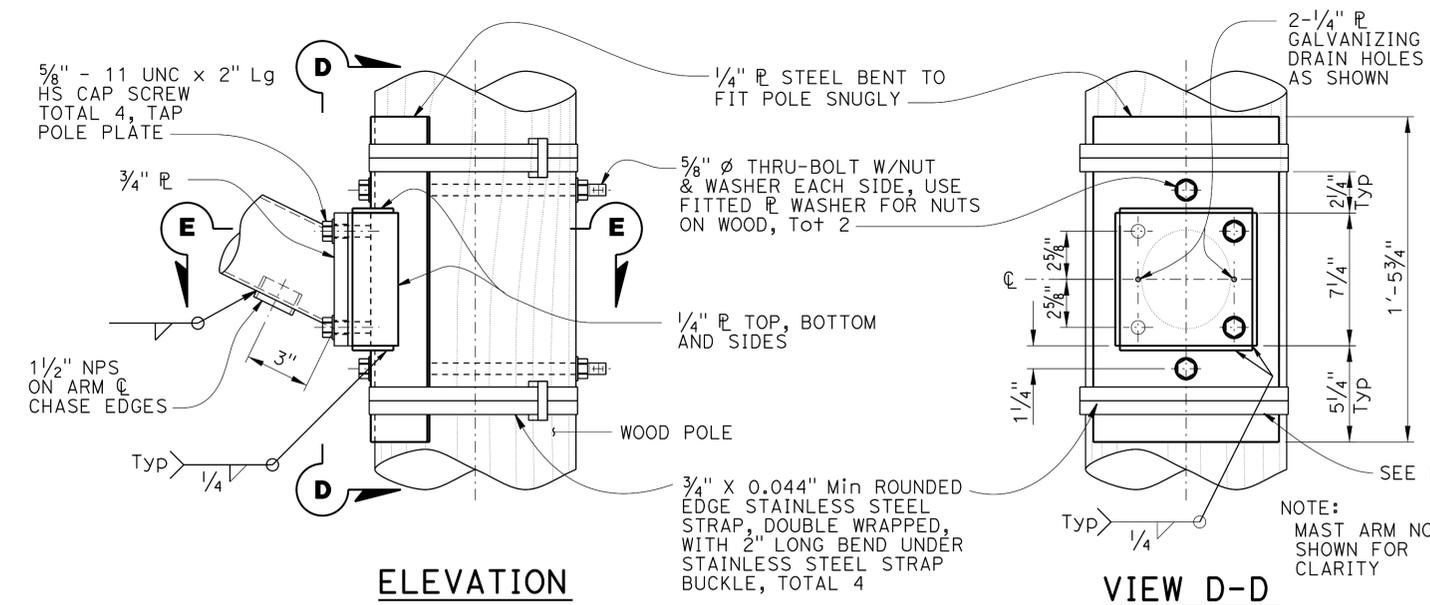
LUMINAIRE MAST ARM



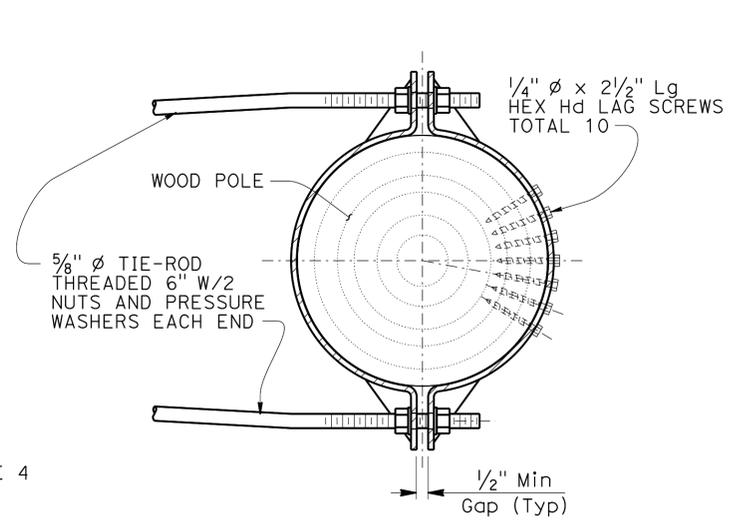
ELEVATION



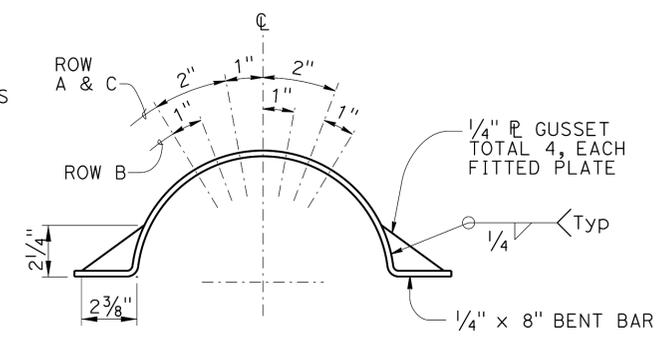
VIEW C-C



ELEVATION
VIEW D-D
DETAIL B
ARM CONNECTION DETAILS
NO SCALE



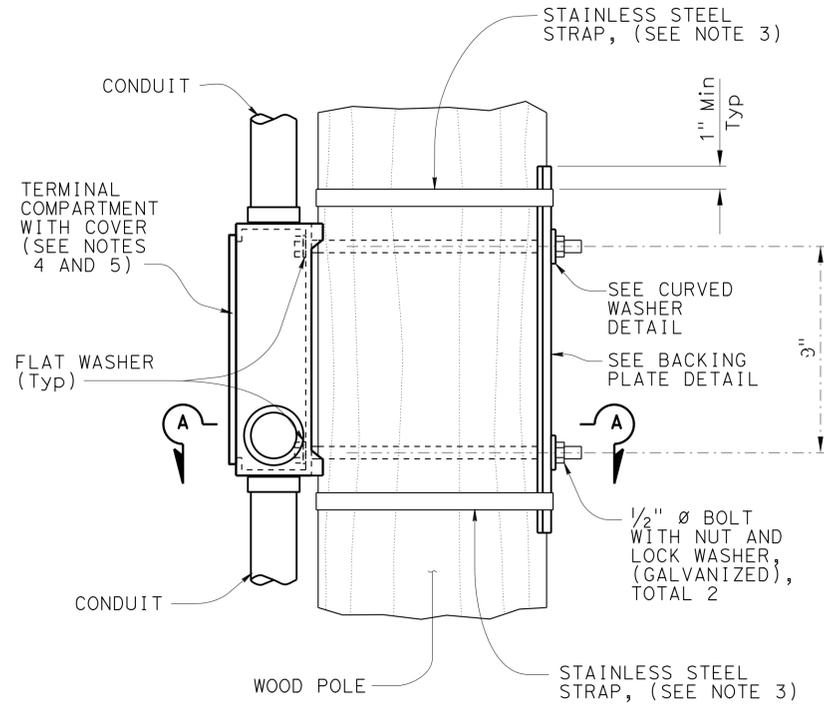
SECTION B-B



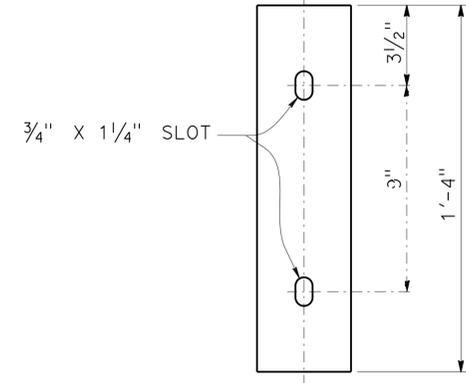
DETAIL C
TIE-ROD AT POLE
NO SCALE

LAG SCREW AND GUSSET PLATE LAYOUT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	30	56
				9-16-14	
REGISTERED CIVIL ENGINEER				DATE	
2-17-15				PLANS APPROVAL DATE	
<small>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.</small>					



ELEVATION

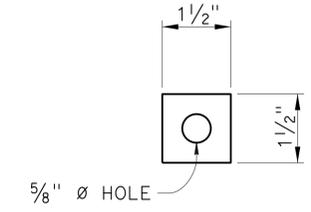


ELEVATION

BACKING PLATE
DETAIL

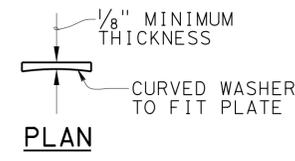


PLAN



ELEVATION

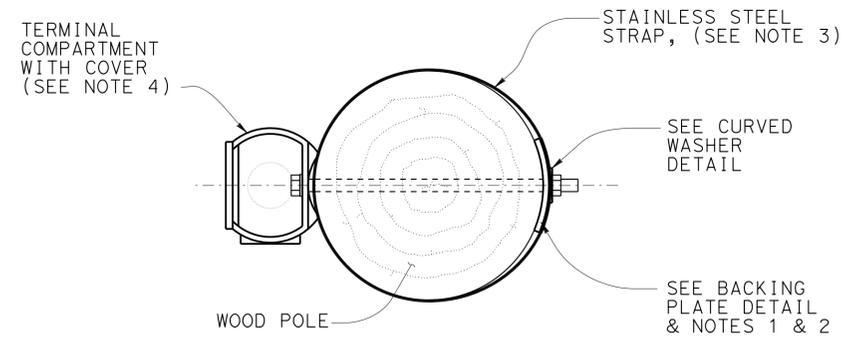
CURVED WASHER
DETAIL



PLAN

NOTES:

1. Verify pole dimensions at terminal compartment for fabrication of backing plate and curved washer.
2. Backing plate to be galvanized after fabrication.
3. 3/4" x 0.044" minimum, rounded edge stainless steel straps, double wrapped with 2" long bend under stainless steel strap buckle.
4. For miscellaneous details for signal mounting not shown see Standard Plan ES-4D.
5. If the terminal compartment has a cable entry guide on the rear face, remove the cable entry guide to a level that will not interfere with the wood post. Close any unused cable entry locations with raintight cap.



SECTION A-A

SIDE MOUNTING
TERMINAL COMPARTMENT

STANDARD DRAWING		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES DESIGN AND TECHNICAL SERVICES SPECIAL DESIGNS BRANCH B	BRIDGE NO. N/A	TEMPORARY WOOD POLES DETAILS No. 3	SES-5
FILE NO. xs18-080-4	APPROVAL DATE July 2014			POST MILE 6.3/12.8		
<small>DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11))</small>			<small>ORIGINAL SCALE IN INCHES FOR REDUCED PLANS</small>	<small>UNIT: 3619</small> <small>PROJECT NUMBER & PHASE: 07130004431</small>	<small>CONTRACT NO.: 2W7104</small>	<small>DISREGARD PRINTS BEARING EARLIER REVISION DATES</small>
				<small>REVISION DATES</small>	<small>SHEET</small>	<small>OF</small>
				9-10-14	5	5

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 10:42

	M	
Maint	MAINTENANCE	
Max	MAXIMUM	
MB	METAL BEAM	
MBB	METAL BEAM BARRIER	
MBGR	METAL BEAM GUARD RAILING	
Med	MEDIAN	
MGS	MIDWEST GUARDRAIL SYSTEM	
MH	MANHOLE	
Min	MINIMUM	
Misc	MISCELLANEOUS	
Misc I & S	MISCELLANEOUS IRON AND STEEL	
Mkr	MARKER	
Mod	MODIFIED, MODIFY	
Mon	MONUMENT	
MP	METAL PLATE	
MPGR	METAL PLATE GUARD RAILING	
MR	MOVEMENT RATING	
MSE	MECHANICALLY STABILIZED EMBANKMENT	
Mt	MOUNTAIN, MOUNT	
MtI	MATERIAL	
MVP	MAINTENANCE VEHICLE PULLOUT	
	N	
N	NORTH	
NB	NORTHBOUND	
No.	NUMBER (MUST HAVE PERIOD)	
Nos.	NUMBERS (MUST HAVE PERIOD)	
NPS	NOMINAL PIPE SIZE	
NS	NEAR SIDE	
NSP	NEW STANDARD PLAN	
NTS	NOT TO SCALE	
	O	
Obir	OBLITERATE	
OC	OVERCROSSING	
OD	OUTSIDE DIAMETER	
OF	OUTSIDE FACE	
OG	ORIGINAL GROUND	
OGAC	OPEN GRADED ASPHALT CONCRETE	
OGFC	OPEN GRADED FRICTION COURSE	
OH	OVERHEAD	
OHWM	ORDINARY HIGH WATER MARK	
O-O	OUT TO OUT	
Opp	OPPOSITE	
OSD	OVERSIDE DRAIN	
	P	
p	PAGE	
PAP	PERFORATED ALUMINUM PIPE	
PB	PULL BOX	
PC	POINT OF CURVATURE, PRECAST	
PCC	POINT OF COMPOUND CURVE, PORTLAND CEMENT CONCRETE	
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN	
PCP	PERFORATED CONCRETE PIPE, PRESTRESSED CONCRETE PIPE	
PCVC	POINT OF COMPOUND VERTICAL CURVE	
PEC	PERMIT TO ENTER AND CONSTRUCT	
Ped	PEDESTRIAN	
Ped OC	PEDESTRIAN OVERCROSSING	
Ped UC	PEDESTRIAN UNDERCROSSING	
Perm MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, PL	PLATE	
P/L	PROPERTY LINE	
PM	POST MILE, TIME FROM NOON TO MIDNIGHT	
PN	PAVING NOTCH	
POC	POINT OF HORIZONTAL CURVE	
POT	POINT OF TANGENT	
POVC	POINT OF VERTICAL CURVE	
PP	PIPE PILE, PLASTIC PIPE, POWER POLE	
PPL	PREFORMED PERMEABLE LINER	
PPP	PERFORATED PLASTIC PIPE	
PRC	POINT OF REVERSE CURVE	
PRF	PAVEMENT REINFORCING FABRIC	
PRVC	POINT OF REVERSE VERTICAL CURVE	
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES	
PS, P/S	PRESTRESSED	
PSP	PERFORATED STEEL PIPE	
PT	POINT OF TANGENCY	
PVC	POLYVINYL CHLORIDE	
Pvmt	PAVEMENT	
	Q	
Qty	QUANTITY	
	R	
R	RADIUS	
R & D	REMOVE AND DISPOSE	
R & S	REMOVE AND SALVAGE	
R/C	RATE OF CHANGE	
RCA	REINFORCED CONCRETE ARCH	
RCB	REINFORCED CONCRETE BOX	
RCP	REINFORCED CONCRETE PIPE	
RCPA	REINFORCED CONCRETE PIPE ARCH	
Rd	ROAD	
Reinf	REINFORCED, REINFORCEMENT, REINFORCING	
Rel	RELOCATE	
Repl	REPLACEMENT	
Ret	RETAINING	
Rev	REVISED, REVISION	
Rdwy	ROADWAY	
RHMA	RUBBERIZED HOT MIX ASPHALT	
Riv	RIVER	
RM	ROAD-MIXED	
RP	RADIUS POINT, REFERENCE POINT	
RR	RAILROAD	
RSP	ROCK SLOPE PROTECTION, REVISED STANDARD PLAN	
Rt	RIGHT	
Rte	ROUTE	
RW	REDWOOD, RETAINING WALL	
R/W	RIGHT OF WAY	
Rwy	RAILWAY	

	S	
S	SOUTH, SUPPLEMENT	
SAE	STRUCTURE APPROACH EMBANKMENT	
Salv	SALVAGE	
SAPP	STRUCTURAL ALUMINUM PLATE PIPE	
SB	SOUTHBOUND	
SC	SAND CUSHION	
SCSP	SLOTTED CORRUGATED STEEL PIPE	
SD	STORM DRAIN	
Sec	SECOND, SECTION	
Sep	SEPARATION	
SG	SUBGRADE	
Shld	SHOULDER	
Sht	SHEET	
Sim	SIMILAR	
ℒ	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLOL	WINGWALL LAYOUT LINE	X
X Sec	CROSS SECTION	
Xing	CROSSING	Y
Yr	YEAR	
Yrs	YEARS	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	31	56

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Grace M. Tsushima
 No. C49814
 Exp. 9-30-14
 CIVIL
 STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 2-17-15

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft ³ , pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
∅	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

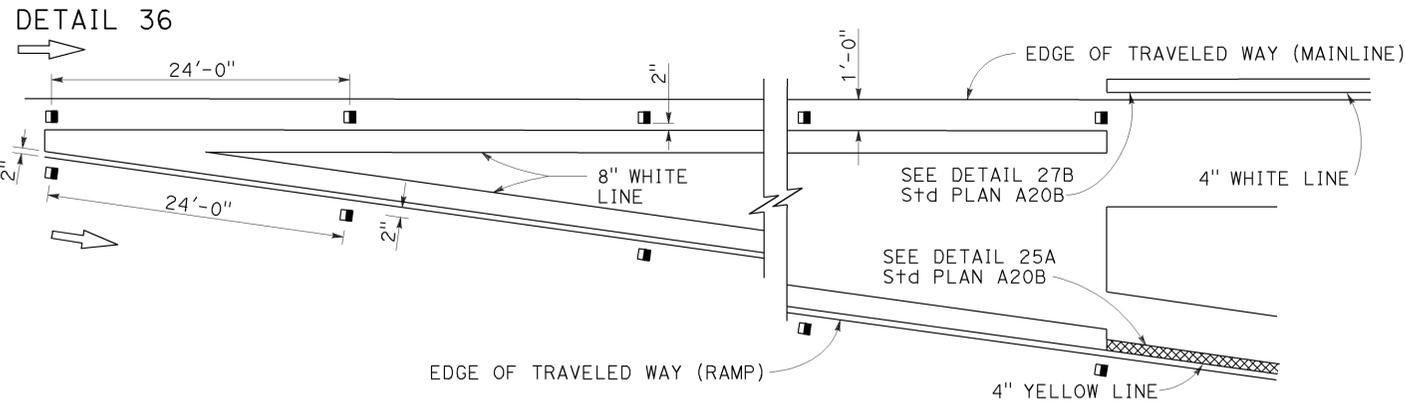
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

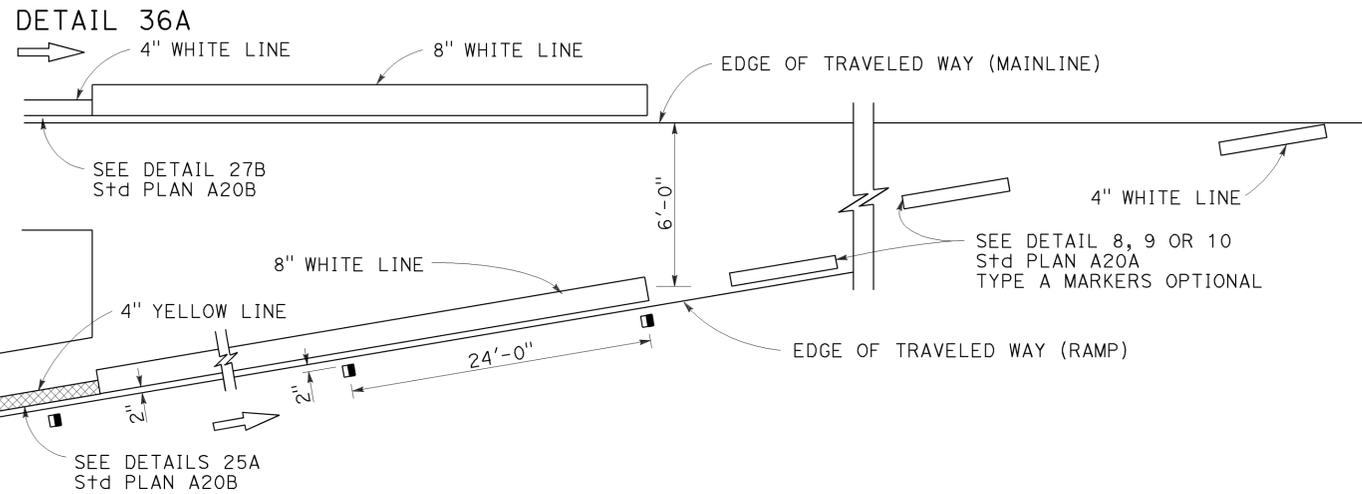
NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

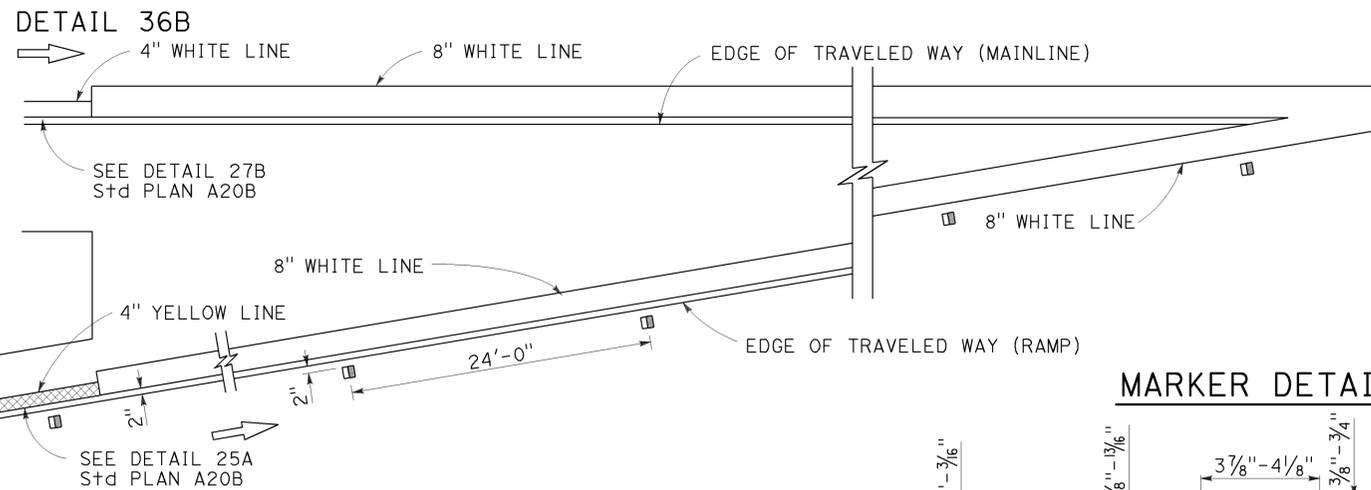
EXIT RAMP NEUTRAL AREA (GORE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (MERGE) TREATMENT



ENTRANCE RAMP NEUTRAL AREA (ACCELERATION LANE) TREATMENT

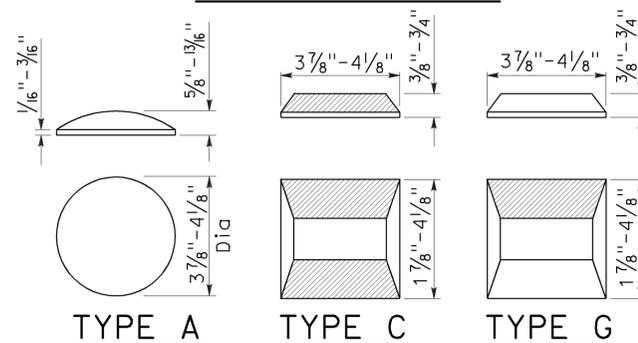


MARKER DETAILS

LEGEND:

MARKERS

- TYPE A WHITE NON-REFLECTIVE
- ◻ TYPE C RED-CLEAR RETROREFLECTIVE
- TYPE G ONE-WAY CLEAR RETROREFLECTIVE



RETROREFLECTIVE FACE

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	32	56

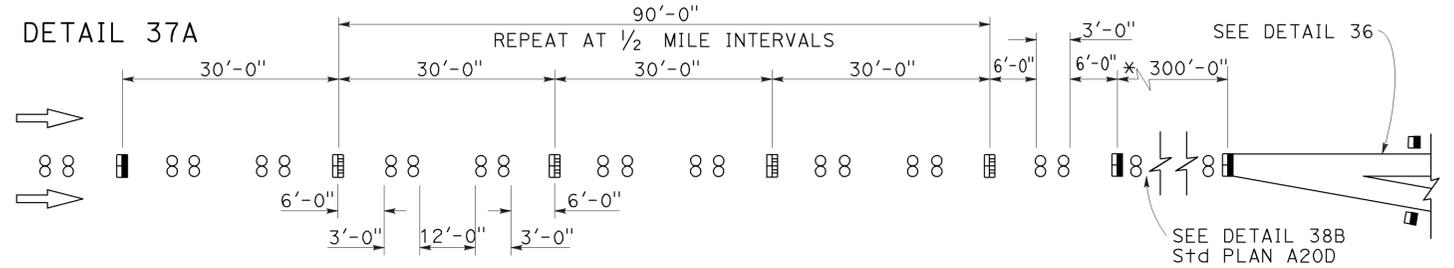
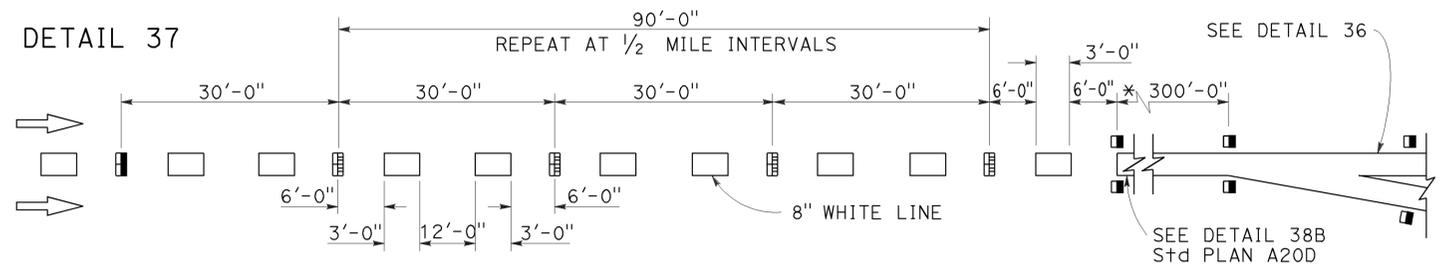
Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 Roberta L. McLaughlin
 No. C40375
 Exp. 3-31-15
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 STATE OF CALIFORNIA

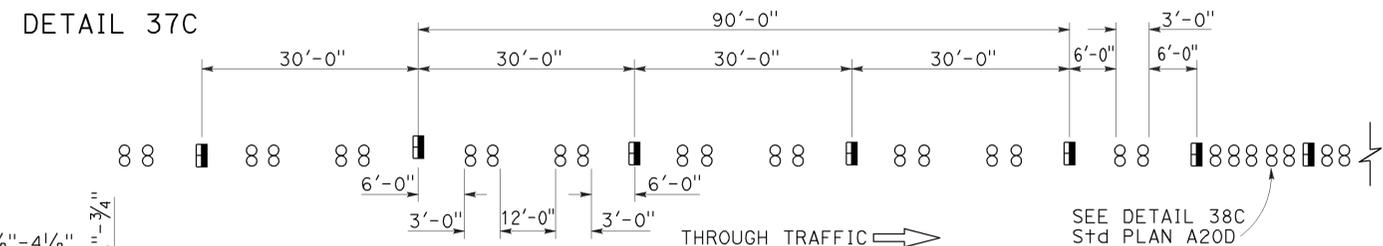
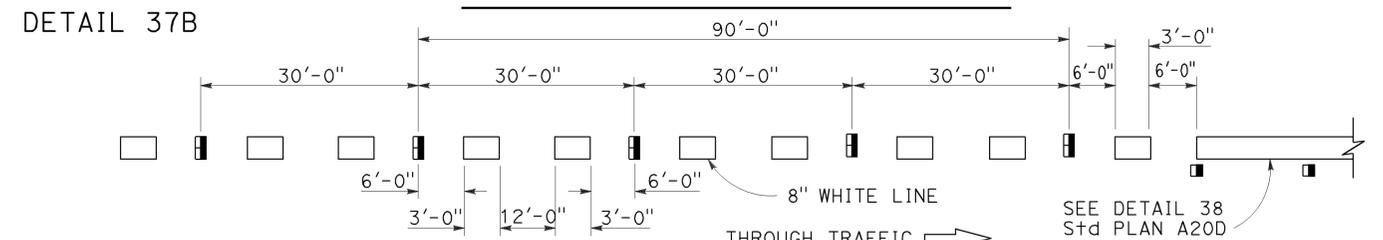
TO ACCOMPANY PLANS DATED 2-17-15

LANE DROP AT EXIT RAMPS



* The solid channelizing line shown may be omitted on short auxiliary lanes where weaving length is critical.

LANE DROP AT INTERSECTIONS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKERS AND TRAFFIC LINE TYPICAL DETAILS

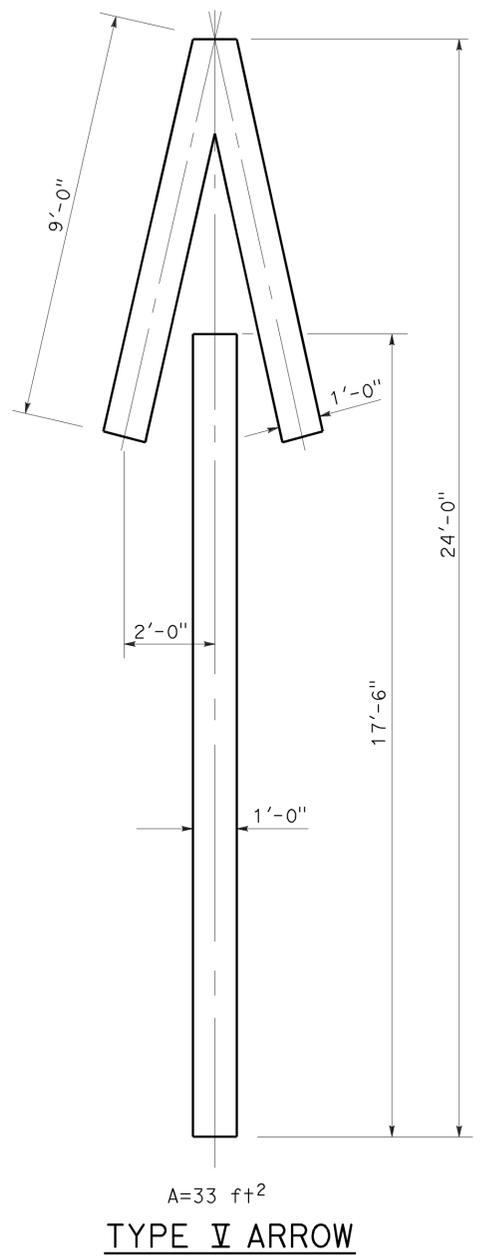
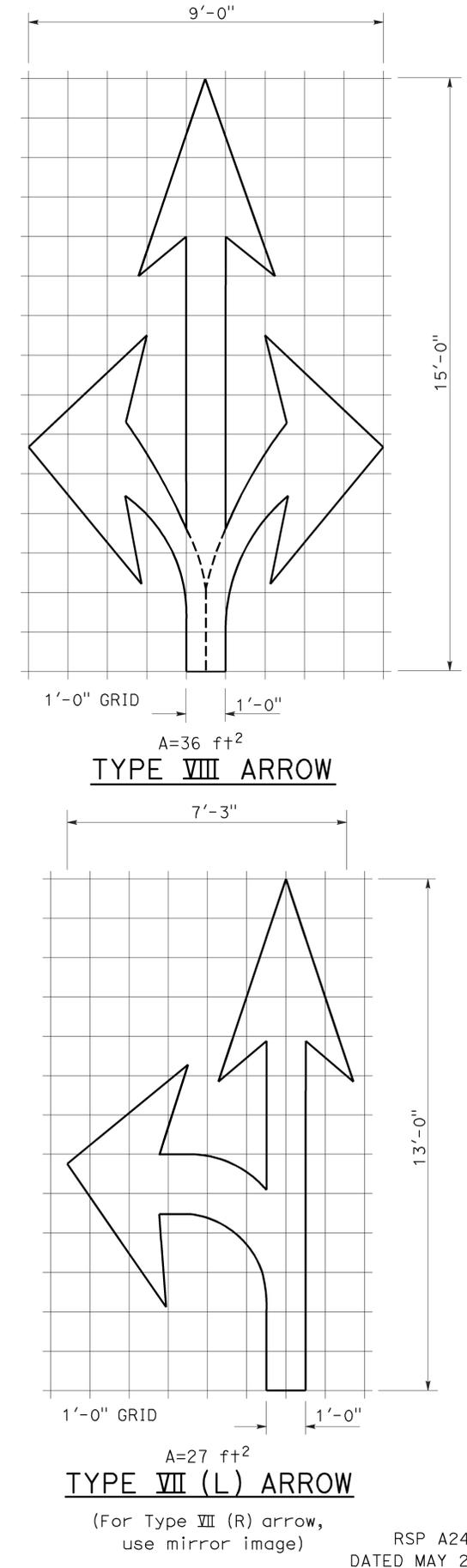
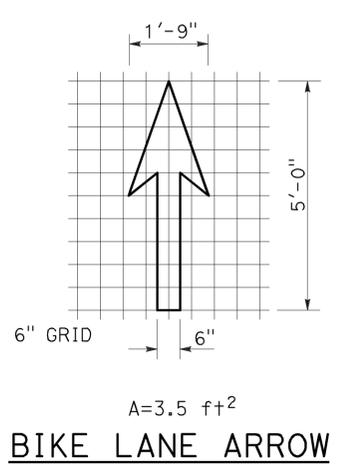
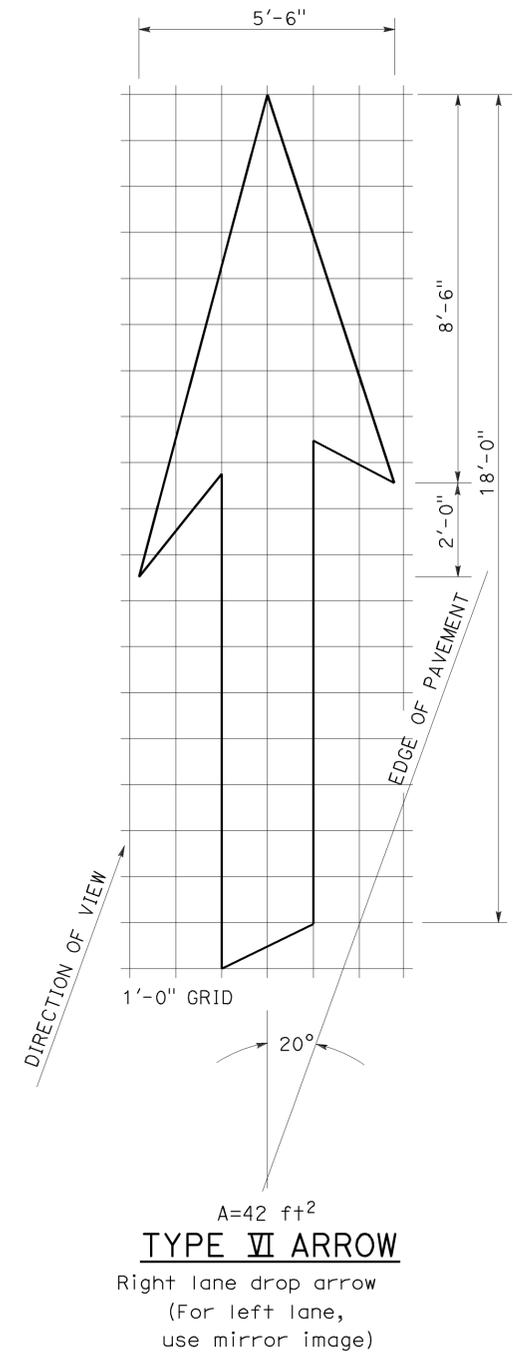
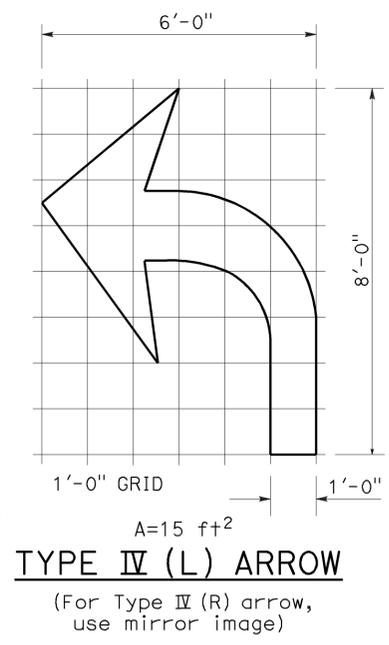
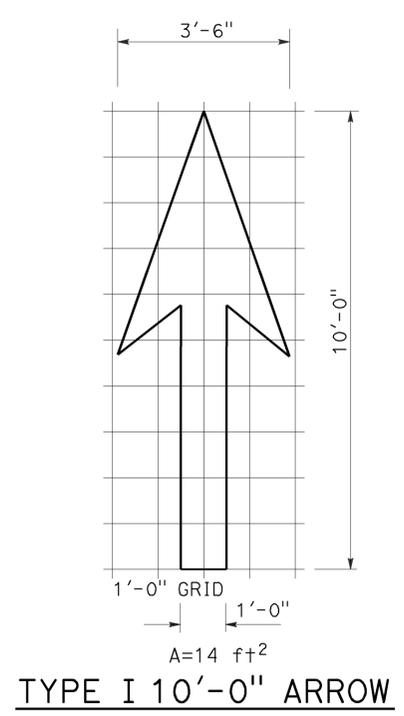
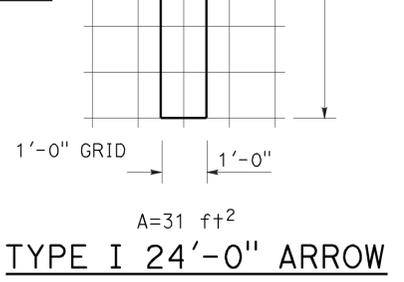
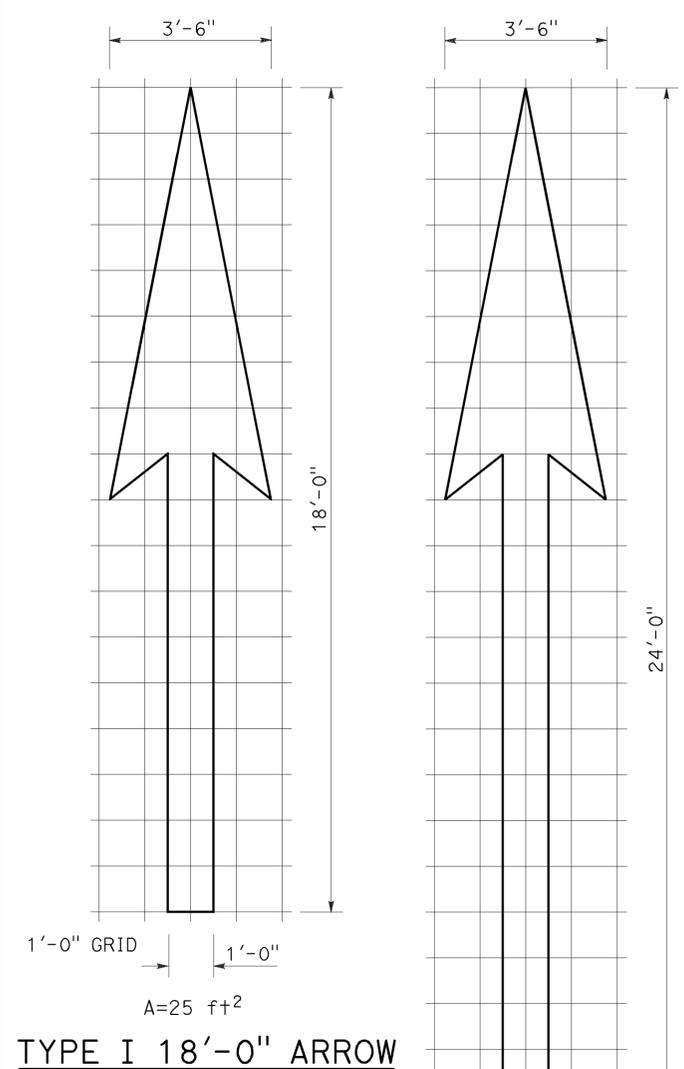
NO SCALE

RSP A20C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A20C DATED MAY 20, 2011 - PAGE 11 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A20C

2010 REVISED STANDARD PLAN RSP A20C

TO ACCOMPANY PLANS DATED 2-17-15



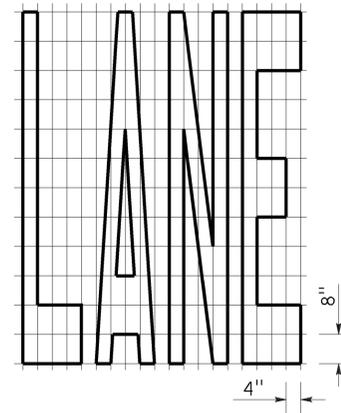
NOTE:
 Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 ARROWS**
 NO SCALE

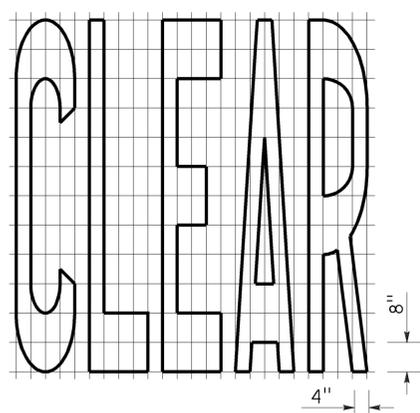
RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.



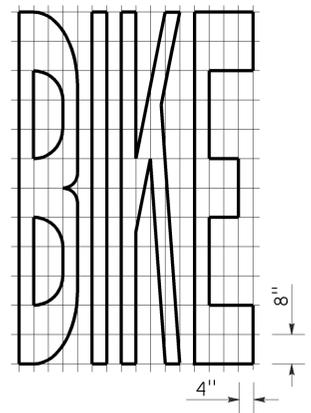
TO ACCOMPANY PLANS DATED 2-17-15



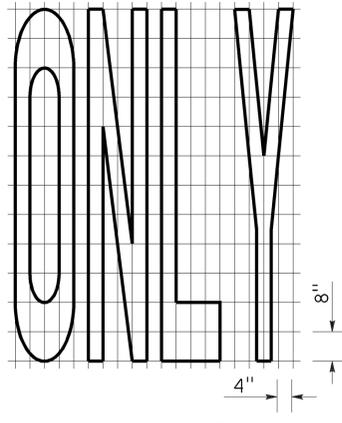
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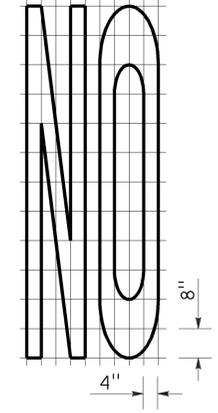
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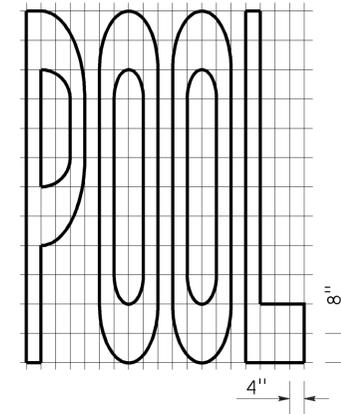
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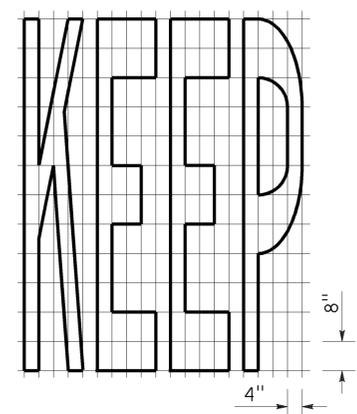
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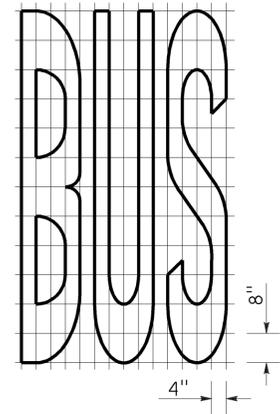
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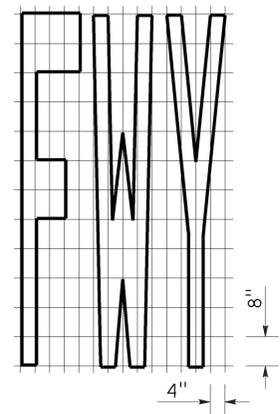
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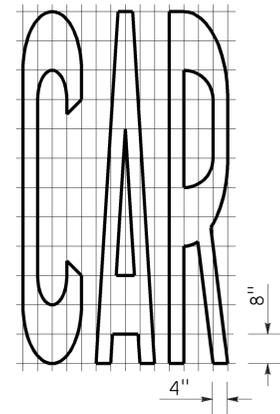
A=24 ft²



A=20 ft²

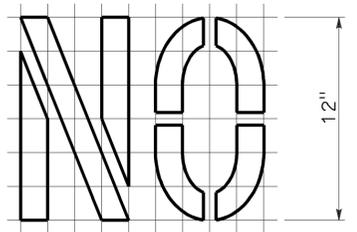


A=16 ft²



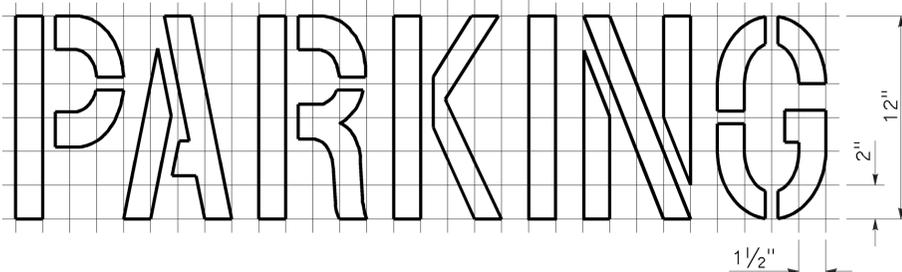
A=17 ft²

WORD MARKINGS			
ITEM	ft ²	ITEM	ft ²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



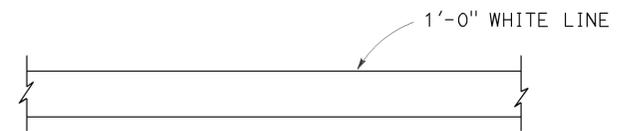
A=2 ft²

See Notes 6 and 7

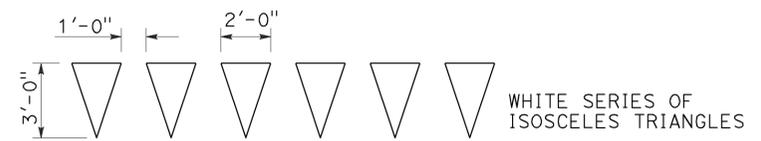


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
 WORDS, LIMIT AND YIELD LINES**

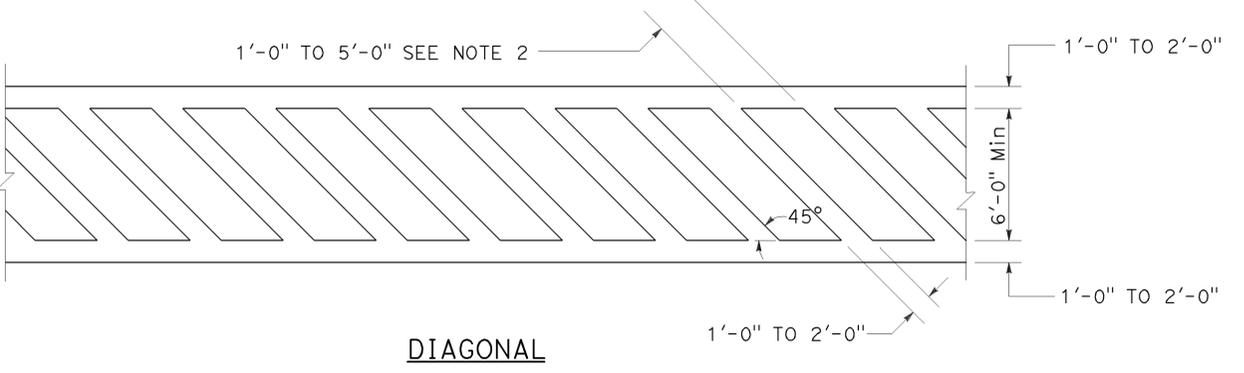
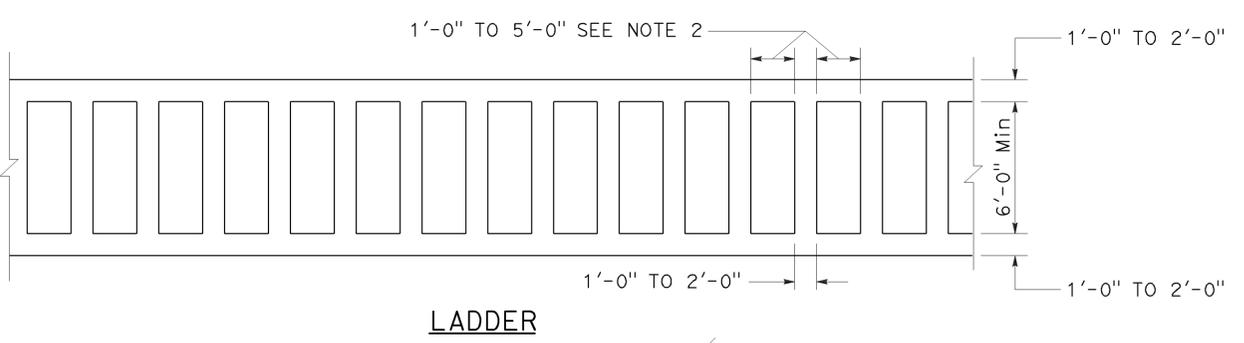
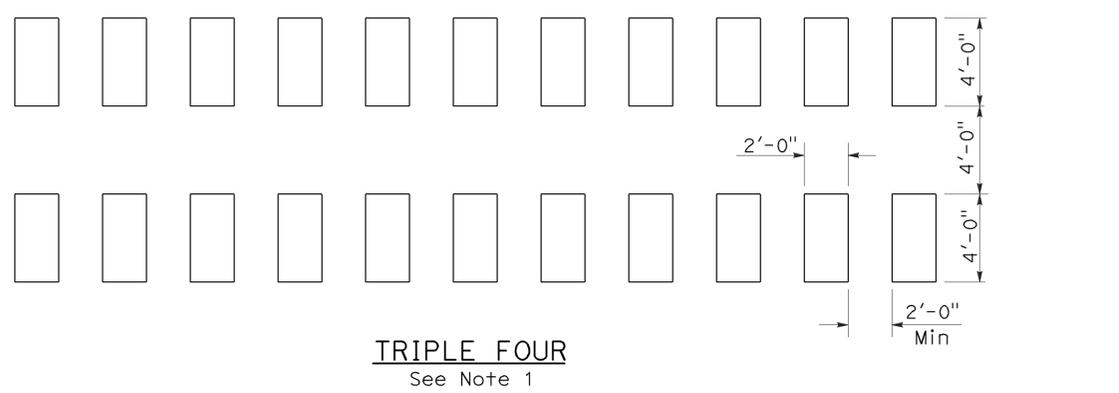
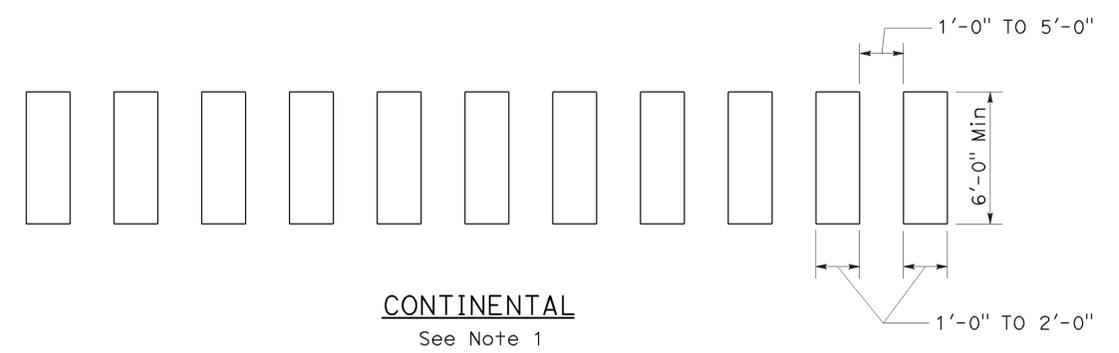
NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
 DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	36	56

Roberta L. McLaughlin
 REGISTERED CIVIL ENGINEER
 July 20, 2012
 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.

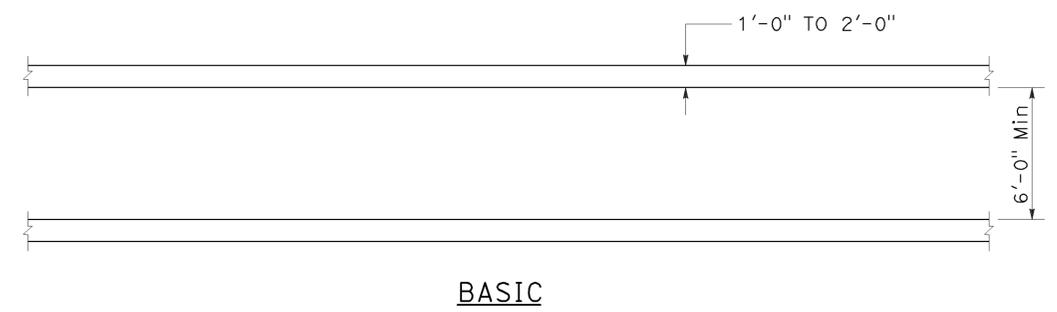
TO ACCOMPANY PLANS DATED 2-17-15



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



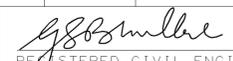
BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKINGS
CROSSWALKS**

NO SCALE
RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP A24F

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	37	56


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-17-15

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM TABLES
 FOR LANE AND RAMP CLOSURES**
 NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

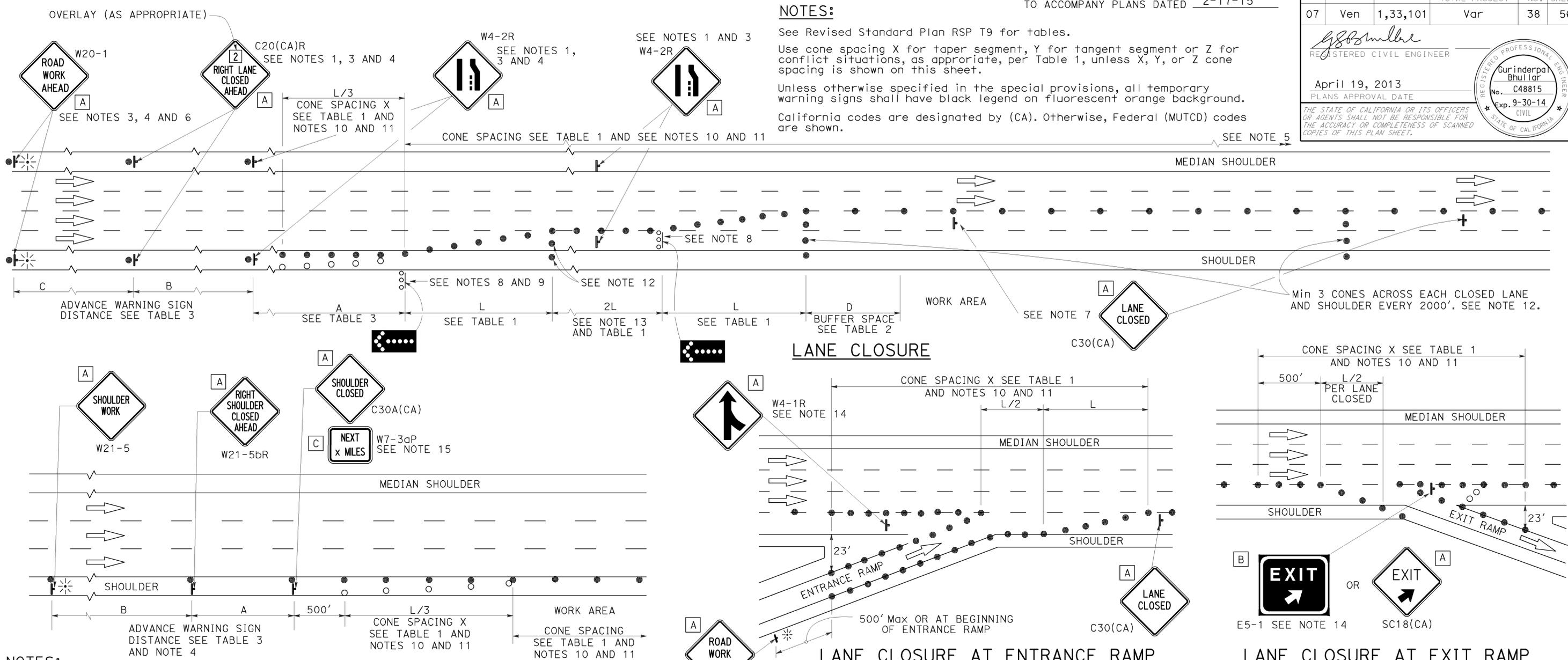
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	38	56

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L 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 G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 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.

- LANE CLOSURE AT ENTRANCE RAMP**
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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	39	56

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

April 19, 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.

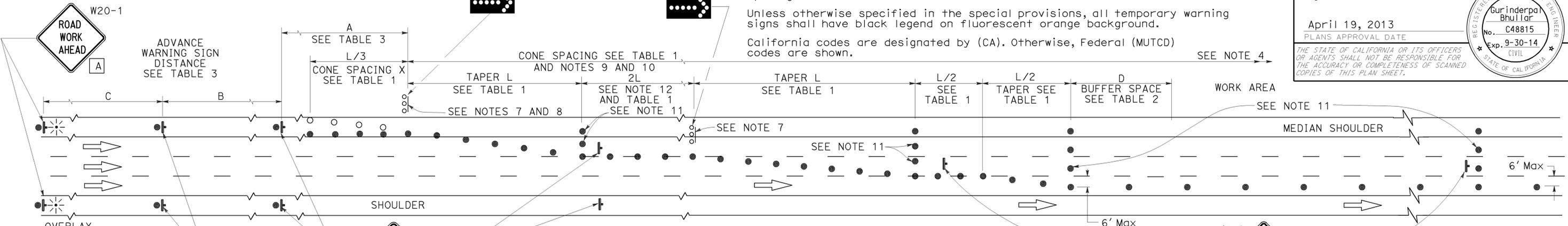
NOTES: See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

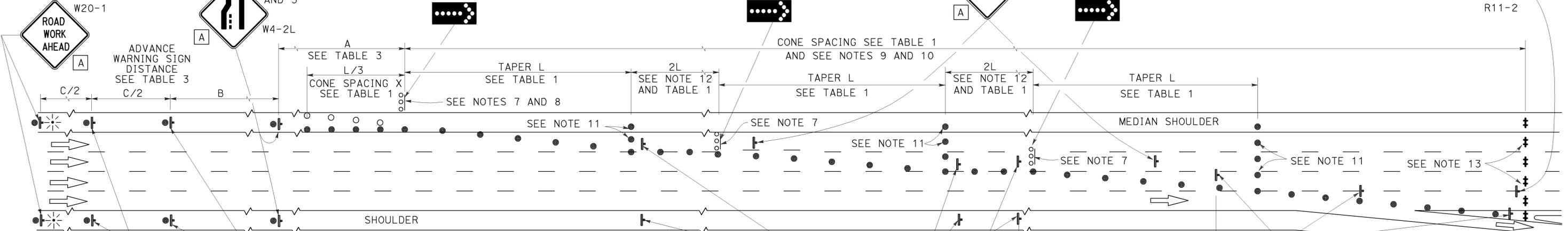
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

SEE NOTES 3 AND 5



LANE CLOSURE WITH PARTIAL SHOULDER USE

SEE NOTES 3 AND 5



COMPLETE CLOSURE

NOTES:

- Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- 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.
- A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
- 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 the top of crest vertical curve or on a horizontal curve.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
- 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 With Partial Shoulder Use" 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.

- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 18"
- C 48" x 30"

LEGEND

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURES ON
 FREEWAYS AND EXPRESSWAYS**

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

NOTES:

See Revised Standard Plan RSP T9 for tables.

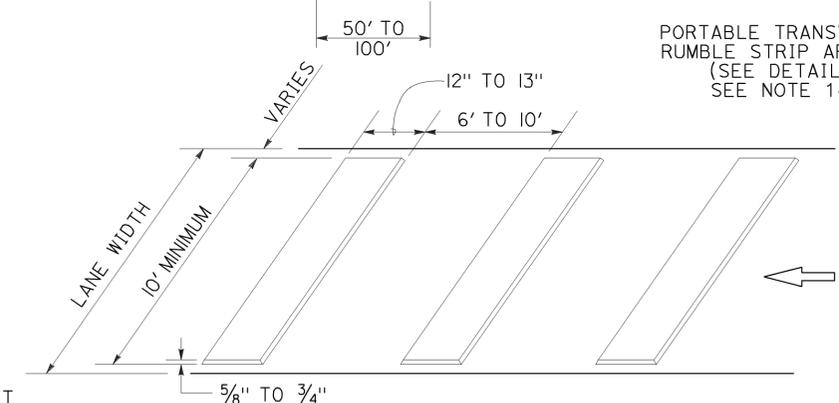
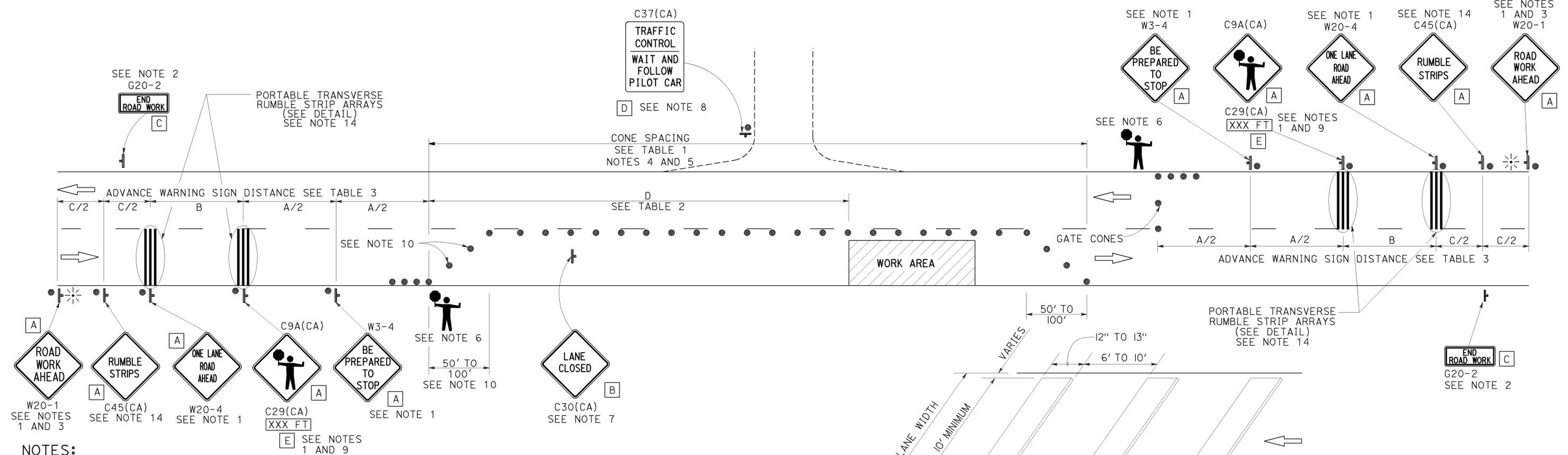
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL

TO ACCOMPANY PLANS DATED 2-17-15



LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ⚡ PORTABLE FLASHING BEACON
- 🚧 FLAGGER

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 30" x 30"
- C 36" x 18"
- D 36" x 42"
- E 20" x 7"

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED OCTOBER 17, 2014 SUPERSEDES RSP T13 DATED JULY 18, 2014 AND RSP T13 DATED APRIL 19, 2013 AND STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T13

- NOTES:**
- Each advance warning sign in each direction of travel 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.
 - A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
 - If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
 - Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
 - Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
 - When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
 - An optional C29(CA) sign may be placed below the C9A(CA) sign.
 - Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.
 - The color of the portable transverse rumble strips shall be black or orange. Use 2 arrays, each array shall consist of 3 rumble strips.
 - Portable transverse rumble strips shall not be placed on sharp horizontal or vertical curves nor shall they be placed through pedestrian crossings.
 - If the portable transverse rumble strips become out of alignment (skewed) by more than 6 inches, measured from one end to the other, they shall be readjusted to bring the placement back to the original location.
 - Portable transverse rumble strips are not required if any one of the following conditions is satisfied:
 - Work duration occupies a location for four hours or less
 - Posted speed limit is below 45 MPH
 - Work is of emergency nature
 - Work zone is in snow or icy weather conditions

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	41	56

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

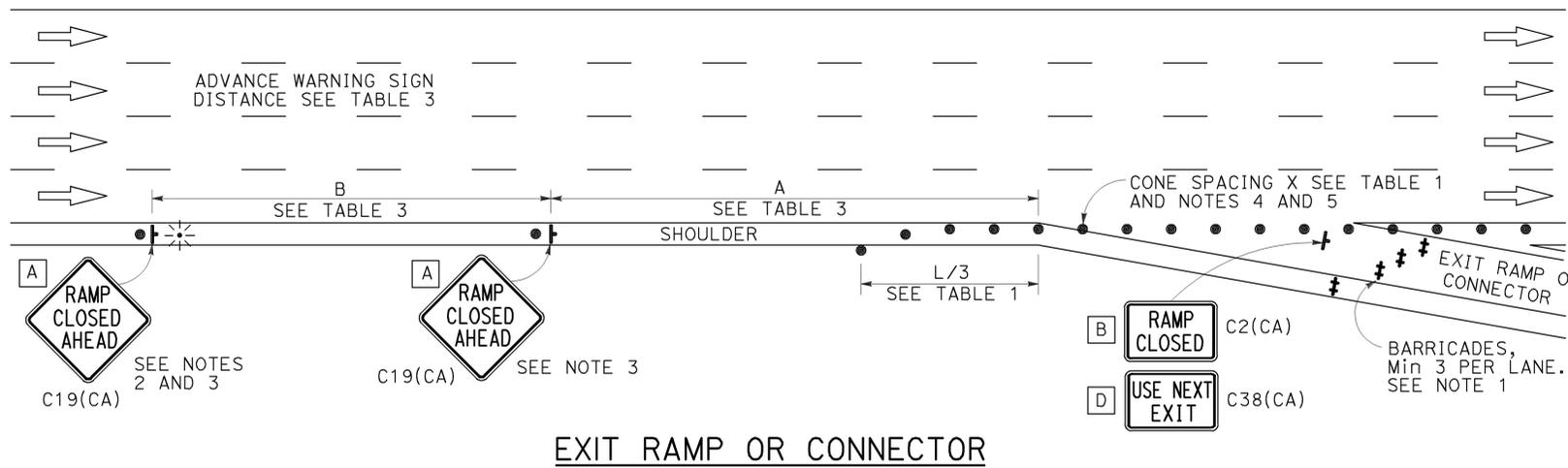
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

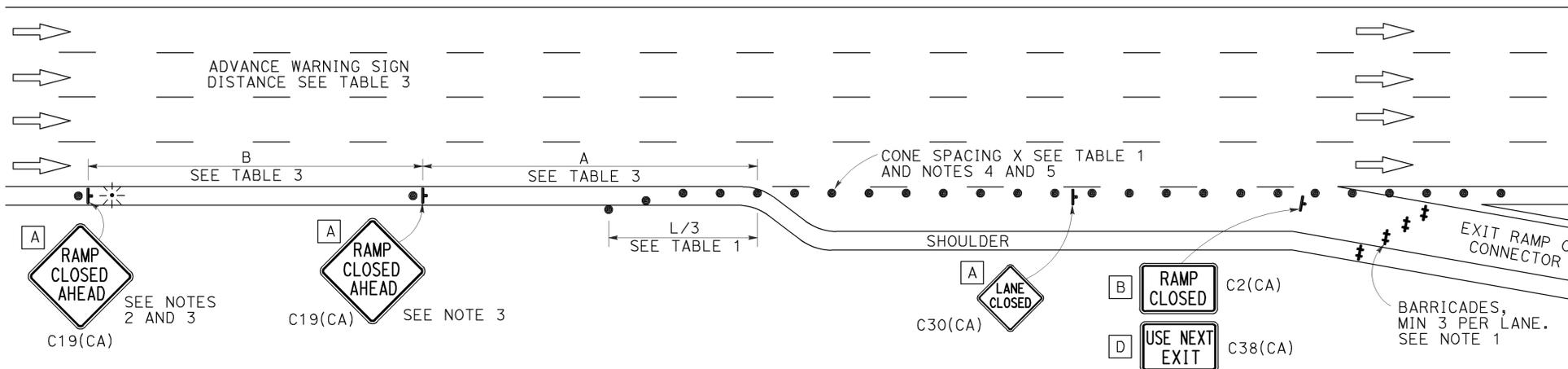
TO ACCOMPANY PLANS DATED 2-17-15

NOTES:

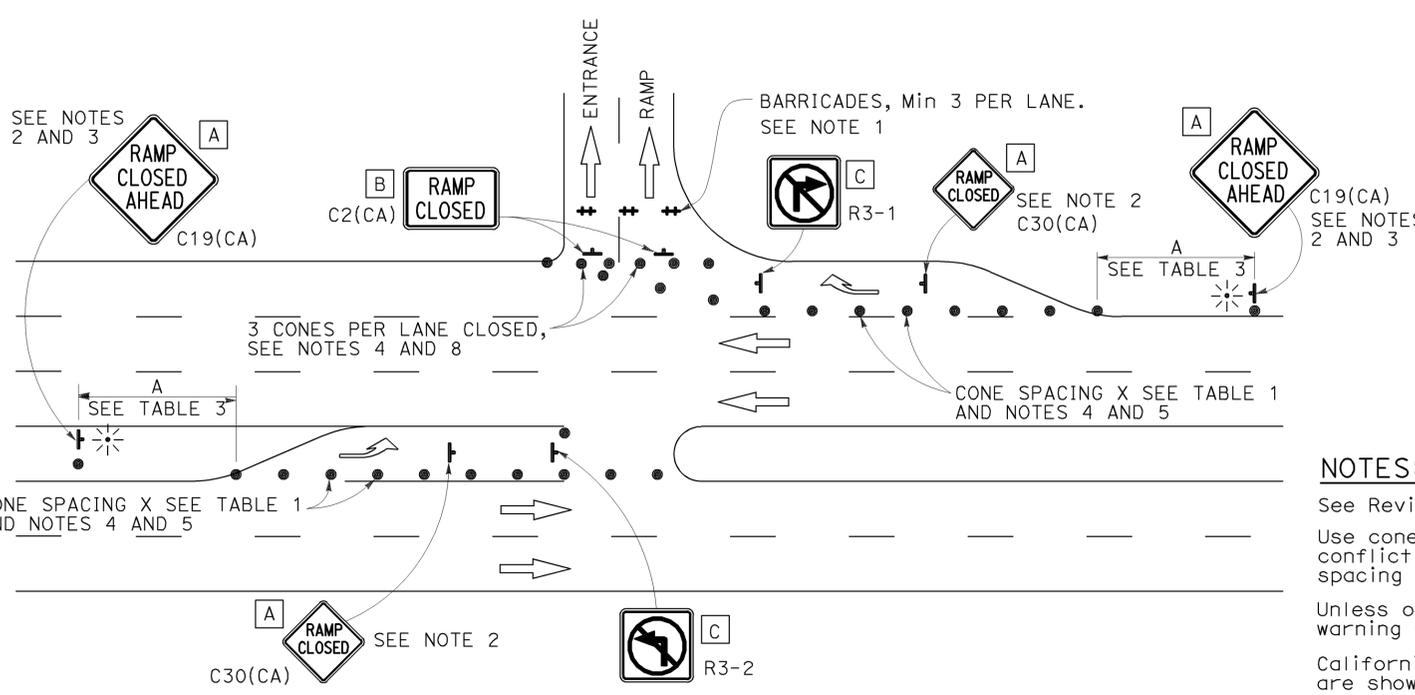
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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.
- 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



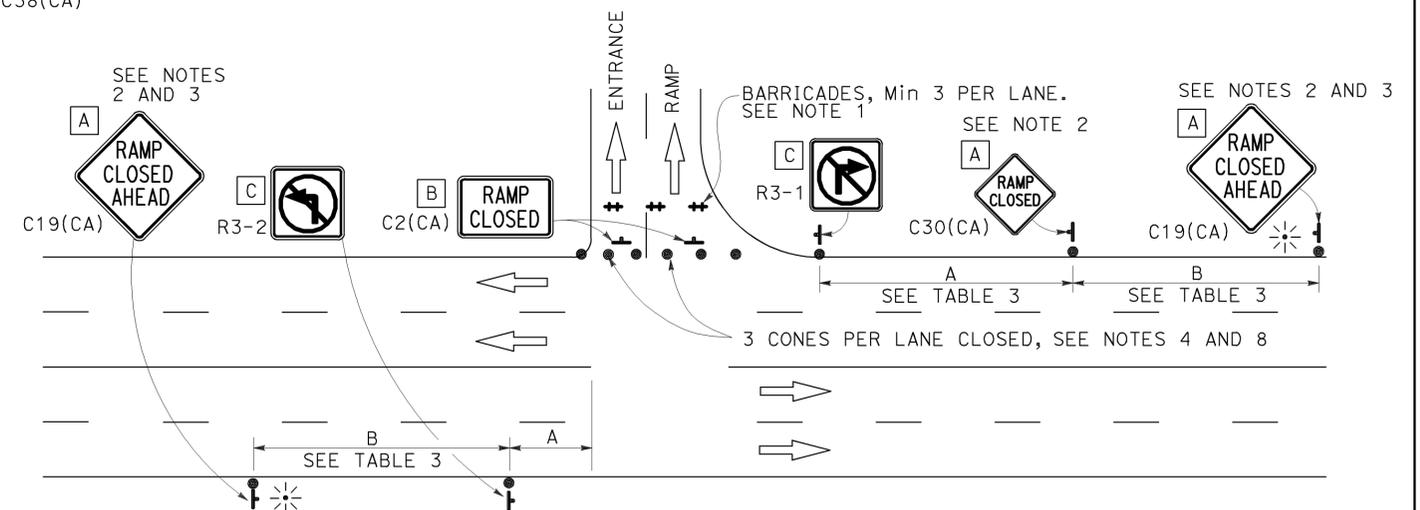
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- See Revised Standard Plan RSP T9 for tables.
- Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.
- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on fluorescent orange background.
- California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

APS	ACCESSIBLE PEDESTRIAN SIGNAL	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BBS	BATTERY BACKUP SYSTEM	Mtg	MOUNTING
BC	BOLT CIRCLE	MV	MERCURY VAPOR LIGHTING FIXTURE
BPB	BICYCLE PUSH BUTTON	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
C	CONDUIT	N	NEUTRAL (GROUNDED CONDUCTOR)
CB	CIRCUIT BREAKER	NB	NEUTRAL BUS
CCTV	CLOSED CIRCUIT TELEVISION	NC	NORMALLY CLOSE
Ck+	CIRCUIT	NO	NORMALLY OPEN
CMS	CHANGEABLE MESSAGE SIGN	P	CIRCUIT BREAKER'S POLE
C+id	CALTRANS IDENTIFICATION	PB	PULL BOX
Comm	COMMUNICATION	PBA	PUSH BUTTON ASSEMBLY
DLC	LOOP DETECTOR LEAD-IN CABLE	PEC	PHOTOELECTRIC CONTROL
EMS	EXTINGUISHABLE MESSAGE SIGN	Ped	PEDESTRIAN
EVUC	EMERGENCY VEHICLE UNIT CABLE	PEU	PHOTOELECTRIC UNIT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	PT	CONDUIT WITH PULL TAPE
FB	FLASHING BEACON	RE	RELOCATED EQUIPMENT
FBCA	FLASHING BEACON CONTROL ASSEMBLY	RM	RAMP METERING
FBS	FLASHING BEACON WITH SLIP BASE	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FO	FIBER OPTIC	SB	SLIP BASE
G	EQUIPMENT GROUNDING CONDUCTOR	SIC	SIGNAL INTERCONNECT CABLE
GB	GROUND BUS	Sig	SIGNAL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SMA	SIGNAL MAST ARM
HAR	HIGHWAY ADVISORY RADIO	SNS	STREET NAME SIGN
Hex	HEXAGONAL	SP	SERVICE POINT
HPS	HIGH PRESSURE SODIUM	TDC	TELEPHONE DEMARCATION CABINET
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TMS	TRAFFIC MONITORING STATION
ISL	INDUCTION SIGN LIGHTING	TOS	TRAFFIC OPERATIONS SYSTEM
LED	LIGHT EMITTING DIODE	Veh	VEHICLE
LMA	LUMINAIRE MAST ARM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
LPS	LOW PRESSURE SODIUM	WIM	WEIGH-IN-MOTION
Ltg	LIGHTING	Xfmr	TRANSFORMER
Lum	LUMINAIRE		
M	METERED		
MAT	MAST ARM MOUNTING TOP ATTACHMENT		
MAS	MAST ARM MOUNTING SIDE ATTACHMENT		

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	42	56

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 2-17-15

SOFFIT AND WALL MOUNTED LUMINAIRES

- PENDANT, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL SURFACE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL USED	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
HZ	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT NOTES OR PROJECT PLANS)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- HPS luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. HPS luminaires shall be 200 W when installed on other type standards or poles, unless otherwise specified.
 - LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

RSP ES-1A DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	43	56

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 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.

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD "C" INDICATES COUNTDOWN PEDESTRIAN HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

SERVICE EQUIPMENT

NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

POLE-MOUNTED SERVICE DESIGNATION

	TYPE H SERVICE, 28'-10"	TYPE OF INSTALLATION AND POLE HEIGHT ABOVE GRADE
--	-------------------------	--

FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION SYSTEM

NOTES:

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

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE
RSP ES-1B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

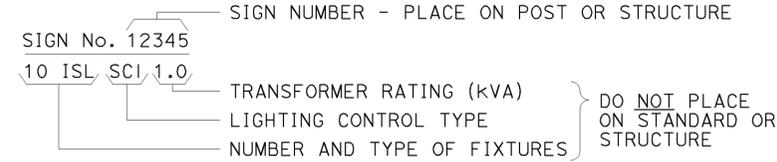
2010 REVISED STANDARD PLAN RSP ES-1B



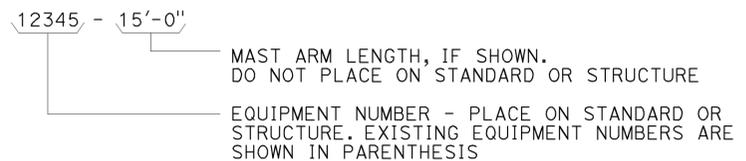
TO ACCOMPANY PLANS DATED 2-17-15

EQUIPMENT IDENTIFICATION

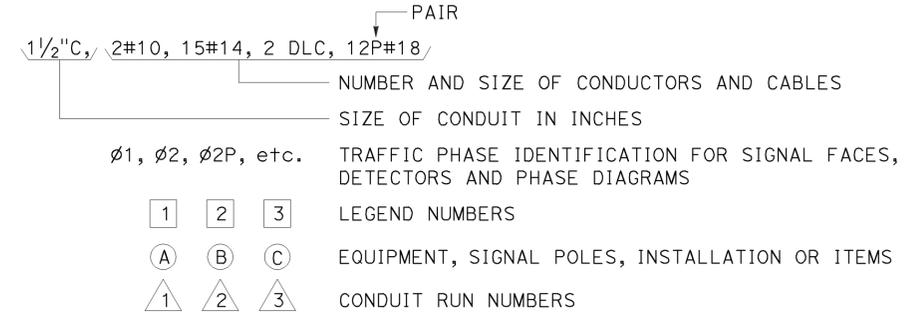
ILLUMINATED SIGN IDENTIFICATION NUMBER:



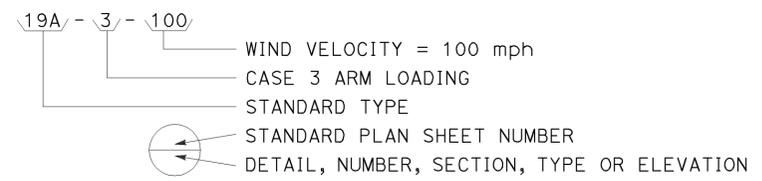
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



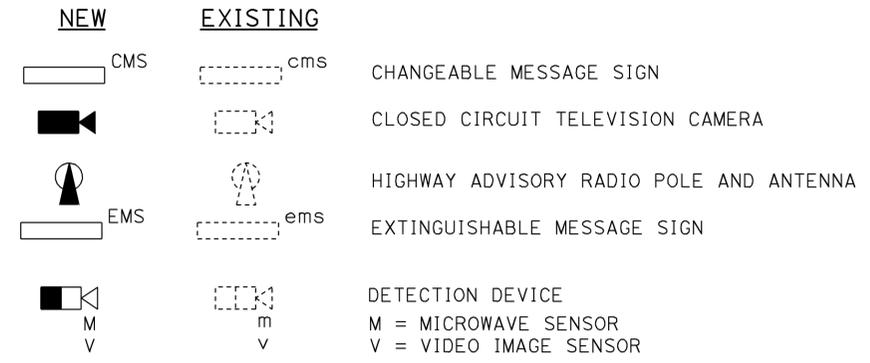
CONDUIT AND CONDUCTOR IDENTIFICATION:



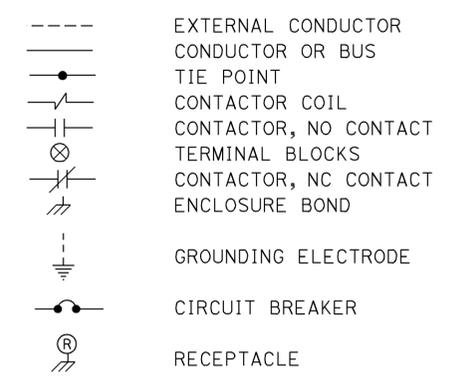
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



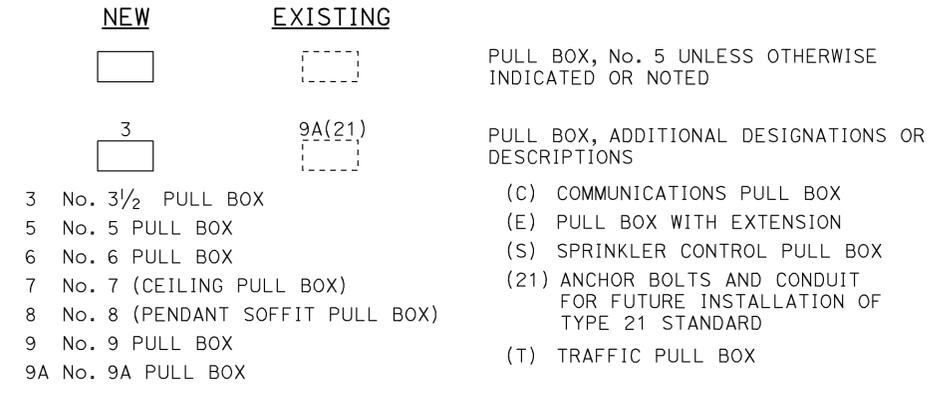
MISCELLANEOUS EQUIPMENT



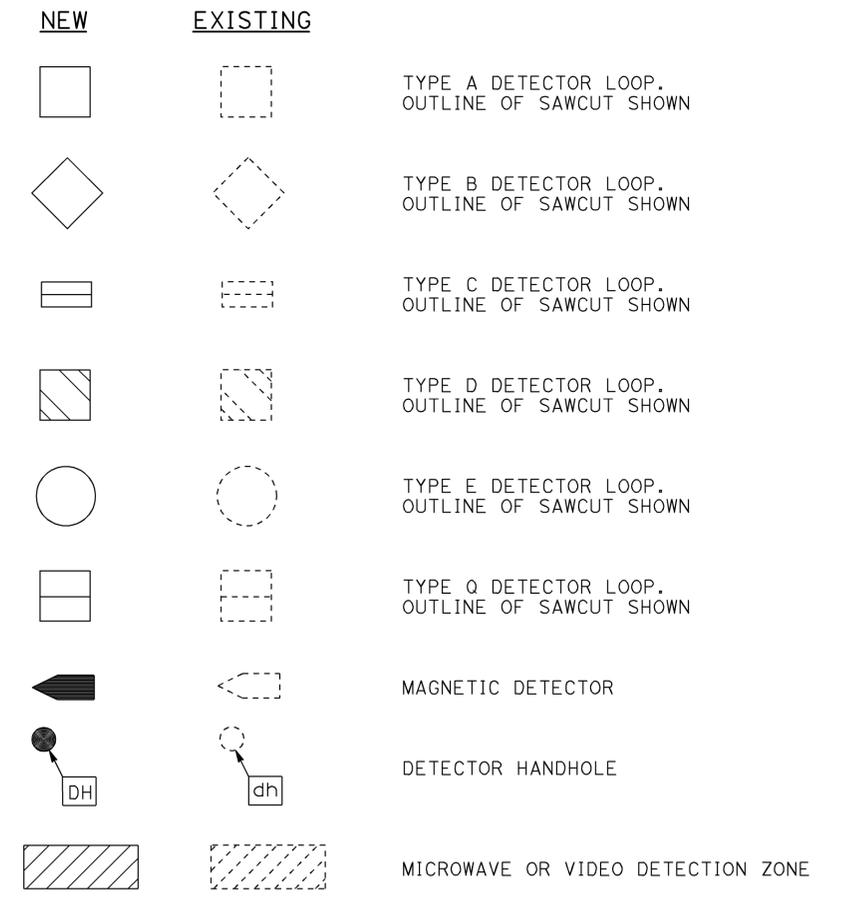
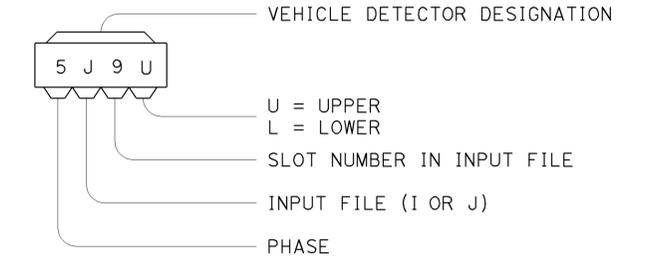
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	Ven	1,33,101	Var	45	56

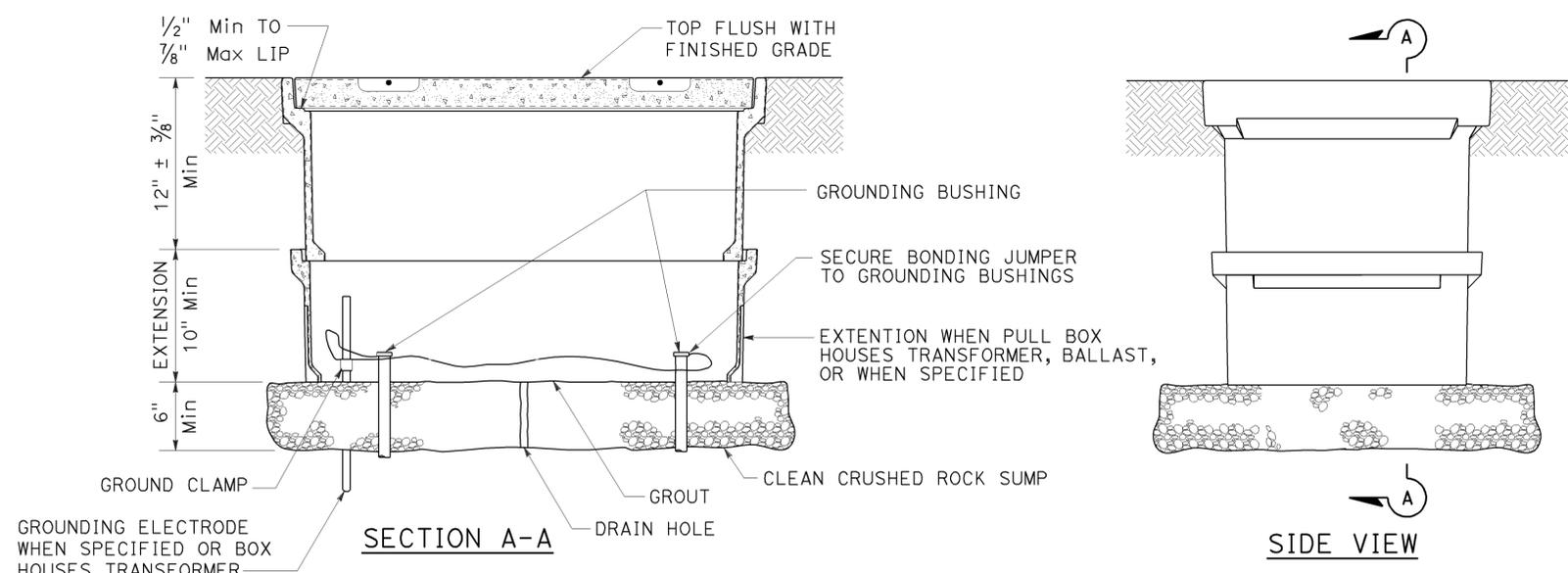
Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

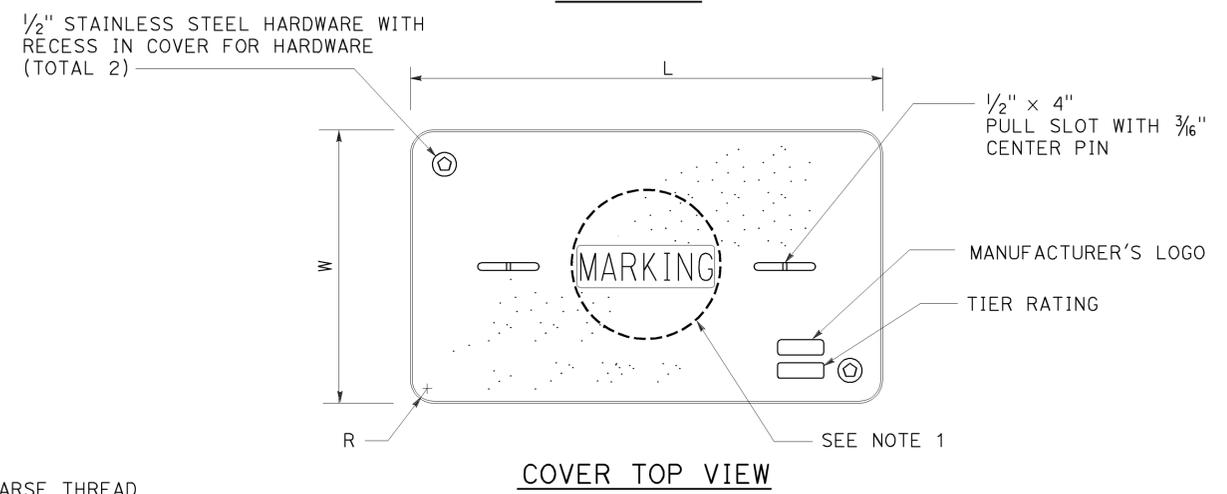
Theresa Aziz Gabriel
No. E15129
Exp. 6-30-14
ELECTRICAL
STATE OF CALIFORNIA

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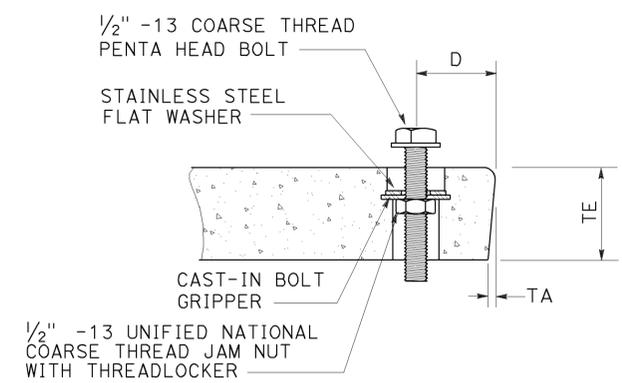
TO ACCOMPANY PLANS DATED 2-17-15



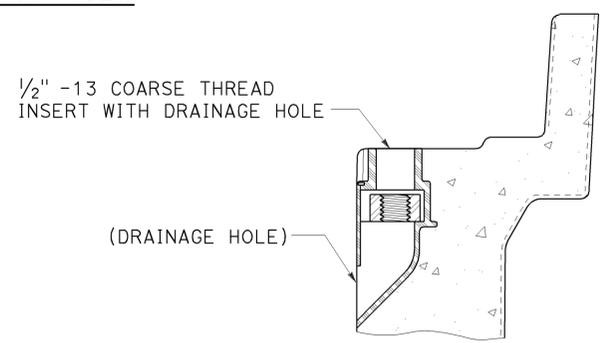
INSTALLATION DETAILS
DETAIL A



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

NOTES:

- Pull box covers shall be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" sprinkler control circuits, 50 V or less; "CALTRANS" on all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service;
 - No. 3 1/2 pull box.
 - "SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - No. 5, 6, 9 or 9A pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without lighting or sign lighting circuits.
 - "LIGHTING" - Lighting or sign lighting circuits where voltage is under 600 V.
 - "LIGHTING-HIGH VOLTAGE" - Lighting or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATIONS" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communication line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
 - "BOOSTER PUMP" - Booster pump circuit.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
- Pull box extension may be another pull box as long as the bottom edge of the pull box can fit into the cover opening.
- All dimensions for the cover for non-traffic pull box are nominal values.

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MAXIMUM WEIGHT	L	W	R	TE	TA	D	MAXIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3 3/8"	10 1/8"	1 3/8"	2"	1/8"	1 3/4"	30 lb
No. 5	12"	10"	55 lb	1' - 11 1/4"	1' - 1 3/4"	1 3/8"	2"	1/8"	1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 6 1/2"	1' - 5 1/2"	1 3/8"	2"	1/8"	2"	85 lb

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(NON-TRAFFIC PULL BOX)
NO SCALE

RSP ES-8A DATED JULY 19, 2013 SUPERSEDES RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8A

2010 REVISED STANDARD PLAN RSP ES-8A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1,33,101	Var	46	56

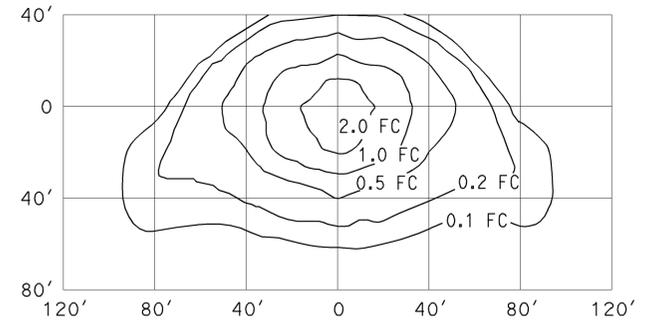
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 No. E15129
 Exp. 6-30-14
 ELECTRICAL
 STATE OF CALIFORNIA

July 19, 2013
 PLANS APPROVAL DATE

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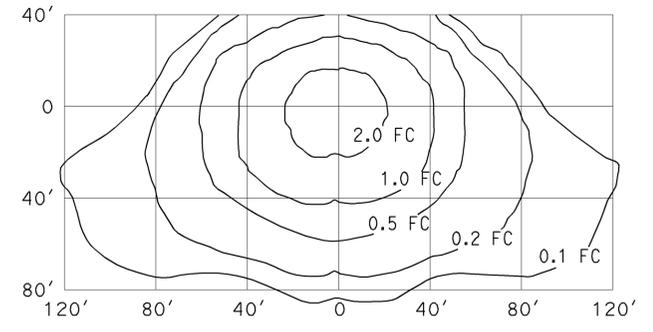
TO ACCOMPANY PLANS DATED 2-17-15

ISOFOOTCANDLE CURVE - MINIMUM



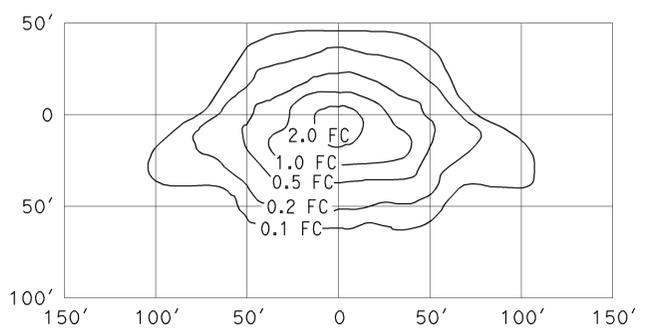
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 34' Mounting Height
 Lamp operated at 22,000 lm
 200-W high pressure sodium lamp
 ANSI Designation S66

ISOFOOTCANDLE CURVE - MINIMUM



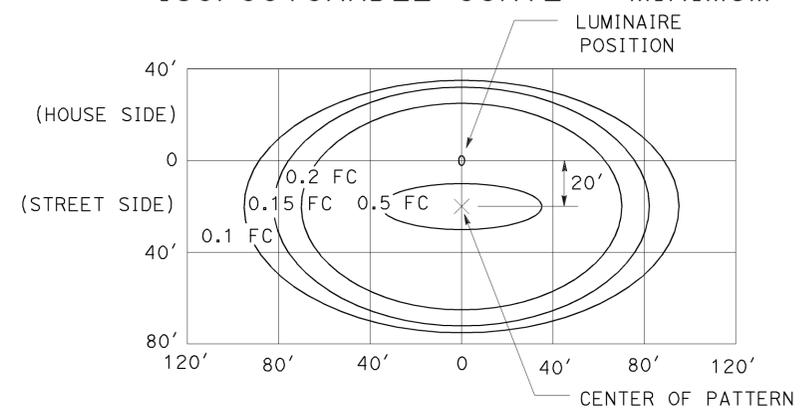
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 40' Mounting Height
 Lamp operated at 37,000 lm
 310-W high pressure sodium lamp
 ANSI Designation S67

ISOFOOTCANDLE CURVE - MINIMUM



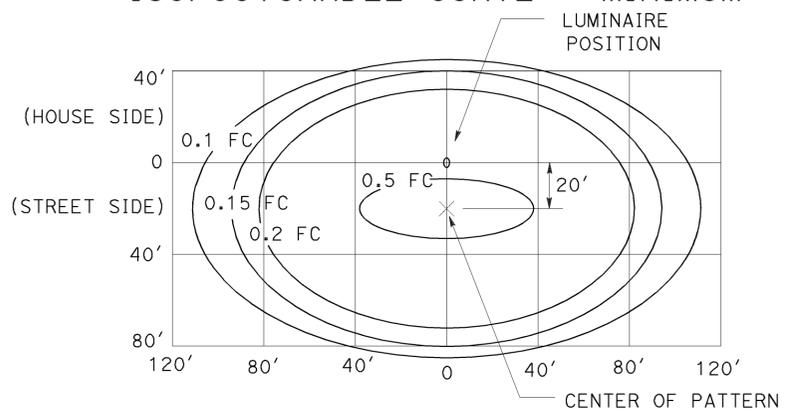
TYPE III MEDIUM CUTOFF
 Cutoff Luminaire
 30' Mounting Height
 Lamp operated at 16,000 lm
 150-W high pressure sodium lamp
 ANSI Designation S55

ISOFOOTCANDLE CURVE - MINIMUM



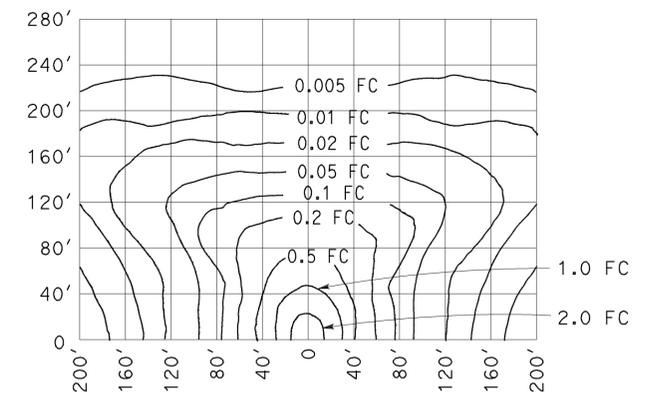
LED LUMINAIRE ROADWAY 1
 165-W at 34' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



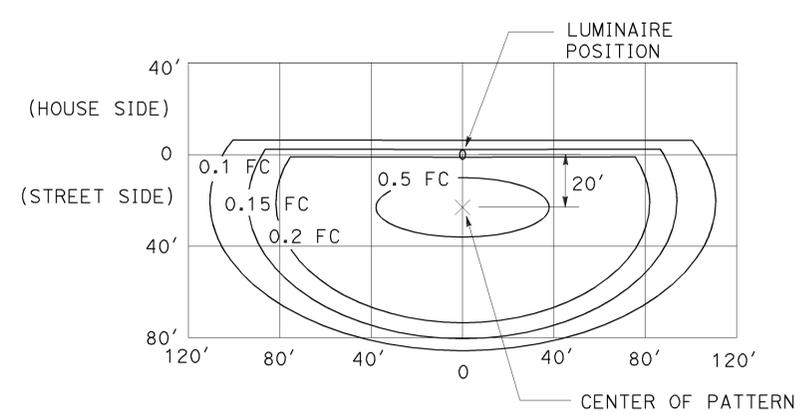
LED LUMINAIRE ROADWAY 2
 235-W at 40' Mounting Height

ISOFOOTCANDLE CURVE - MINIMUM



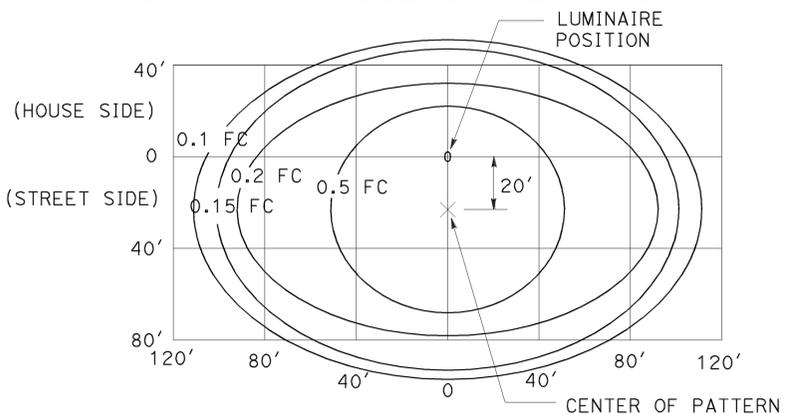
LOW PRESSURE SODIUM LUMINAIRE
 40' Mounting Height
 Lamp operated at 33,000 lm
 180-W low pressure sodium lamp

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 3
 235-W at 40' Mounting Height
 with back side control

ISOFOOTCANDLE CURVE - MINIMUM



LED LUMINAIRE ROADWAY 4
 300-W at 40' Mounting Height

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (ISOFOOTCANDLE DIAGRAMS)**

NO SCALE
 RSP ES-10A DATED JULY 19, 2013 SUPERSEDES RSP ES-10A DATED JULY 20, 2012
 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-10A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	47	56

REGISTERED CIVIL ENGINEER
 Tim Campbell 10-21-14
 DATE
 2-17-15
 PLANS APPROVAL DATE
 No. 63268
 Exp. 06-30-16
 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: (APPLY TO THIS SHEET ONLY)



Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.



Indicates limits of repair spalled surface area. For spall repair details see "CONCRETE SPALL REPAIR DETAIL" on "DECK REPAIR DETAILS NO.1" sheet.

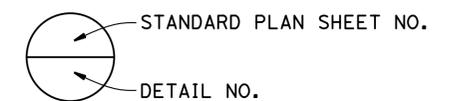
NOTES: (APPLY TO ALL SHEETS)

----- Indicates existing.

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

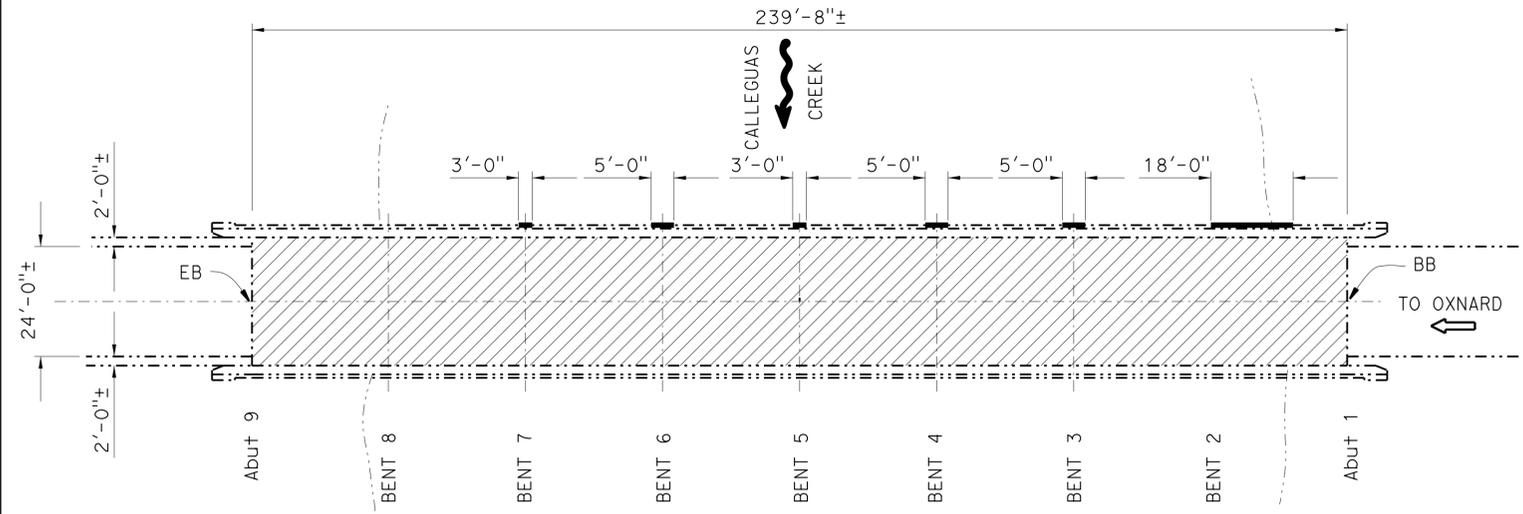
STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)
B0-5	BRIDGE DETAILS
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



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	JOINT SEAL DETAILS
8	DECK REPAIR DETAILS NO. 1
9	DECK REPAIR DETAILS NO. 2
10	DECK REPAIR DETAILS NO. 3

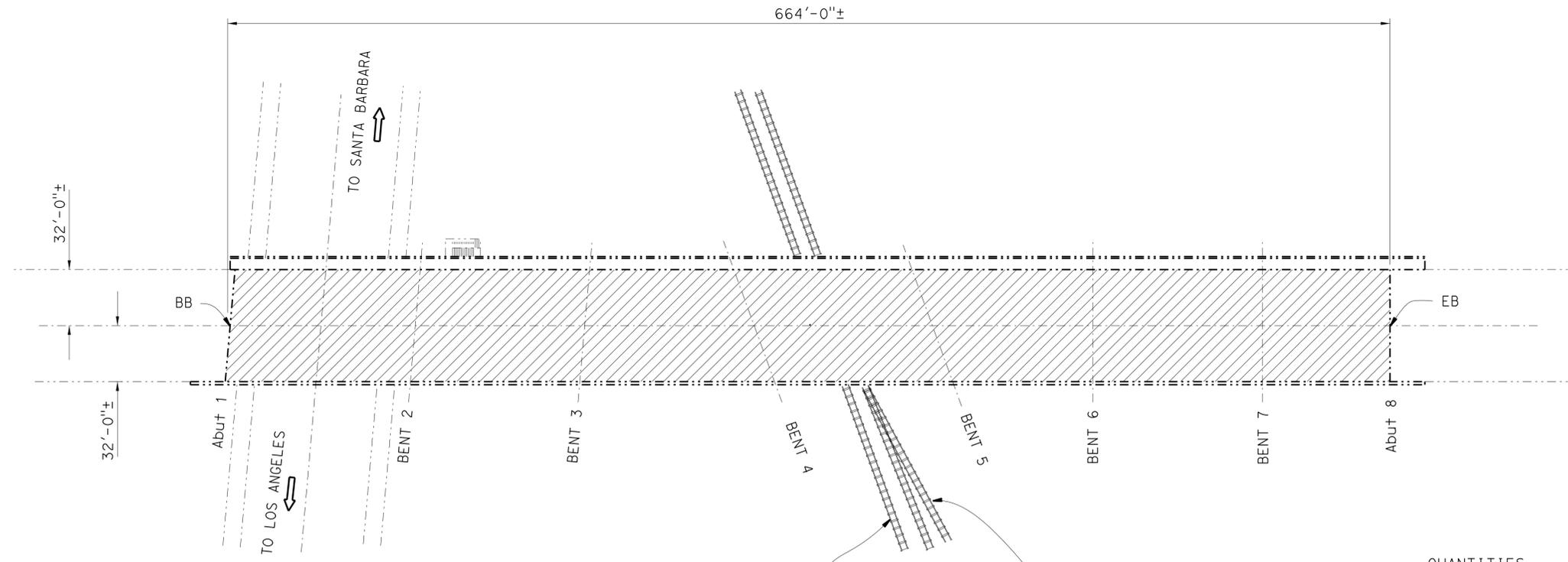


CALLEGUAS CREEK

Br No. 52-0010R, Ven, ROUTE 1, PM 9.87
1"=20'

QUANTITIES

DESCRIPTION	QUANTITY	UNIT
REPAIR SPALLED SURFACE AREA	32	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	6,711	SQFT
TREAT BRIDGE DECK	6,711	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	74	GAL



THIRD STREET OVERCROSSING

Br No. 52-0398, Ven, ROUTE 1, PM 18.36
1"=40'

QUANTITIES

DESCRIPTION	QUANTITY	UNIT
PUBLIC SAFETY PLAN	LUMP	SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	42,496	SQFT
TREAT BRIDGE DECK	42,496	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	468	GAL



DESIGN ENGINEER
 Matthew C. Lee 10-21-14

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON
				CHECKED TIM CAMPBELL
				PLANS AND SPECS COMPARED KEVIN ELLINGSON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIES
ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	48	56

10-21-14
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 TIM CAMPBELL
 No. 63268
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)



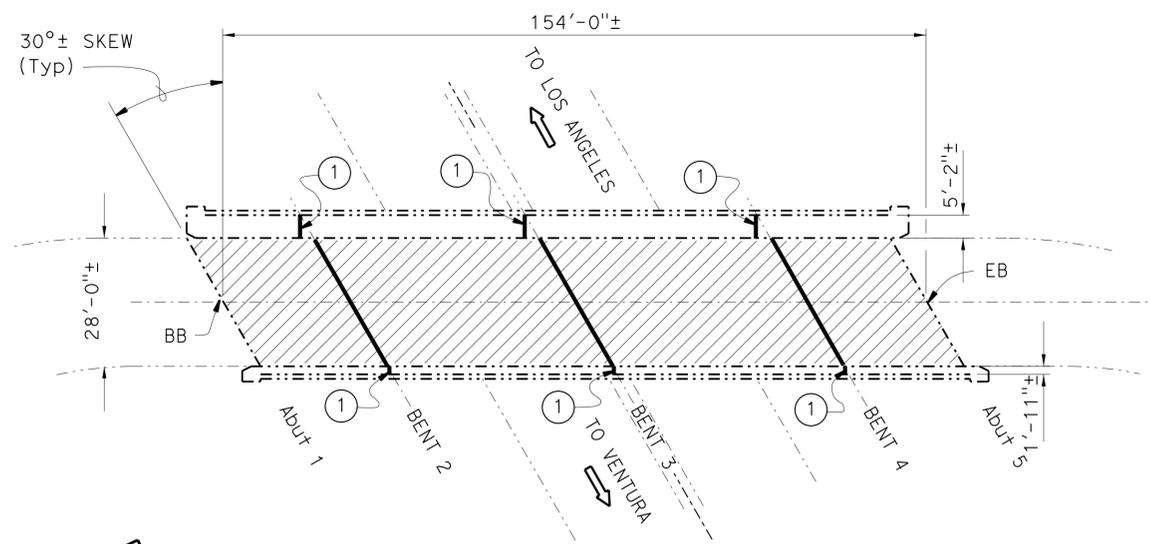
Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.



For joint seal details see "JOINT SEAL AT SIDE WALK DETAILS" on "JOINT SEAL DETAILS" sheet.



Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet



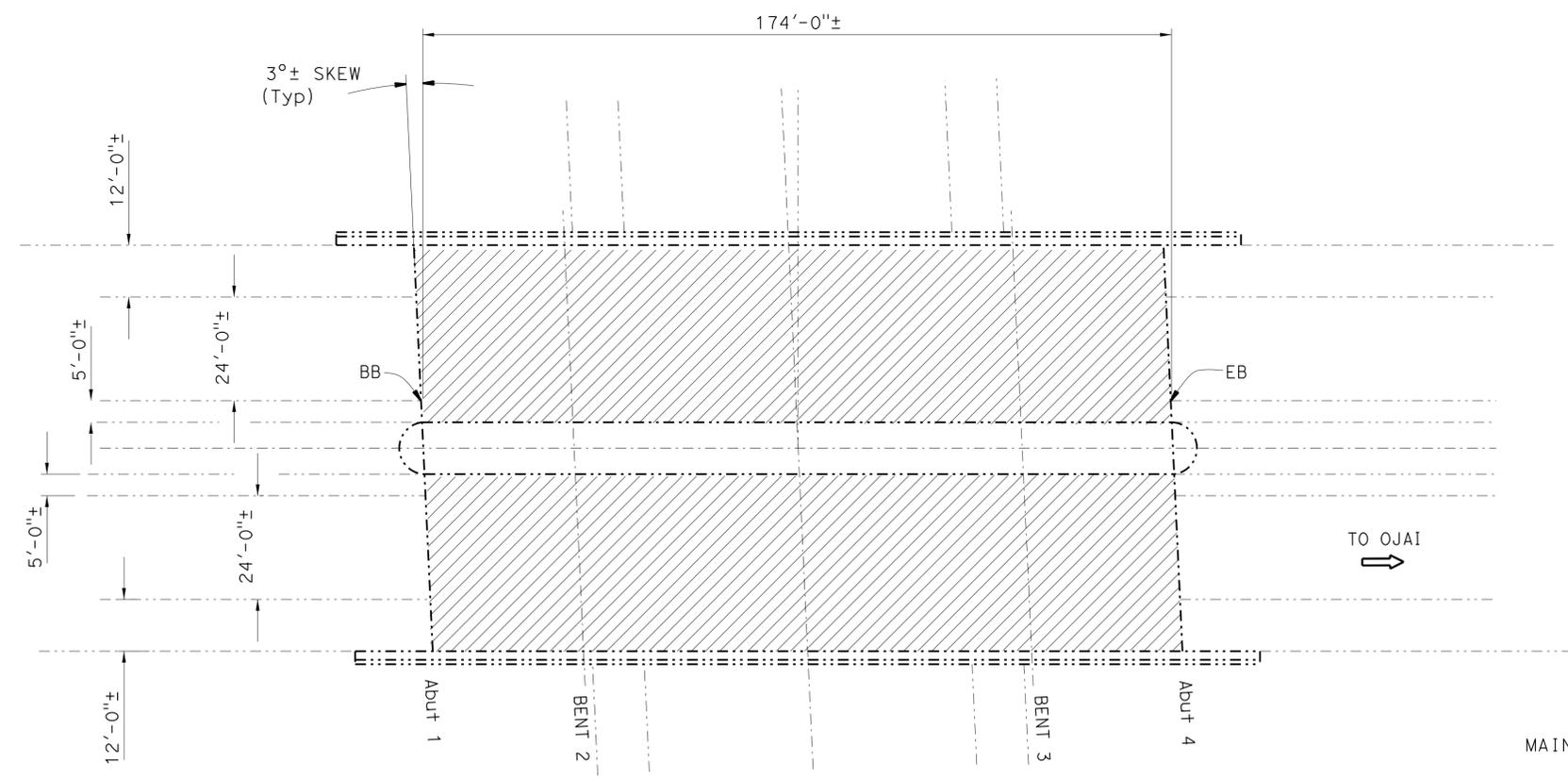
FRONTAGE ROAD OVERCROSSING

Br No. 52-0189, Ven, ROUTE 1, PM 20.65
1"=20'



QUANTITIES

FRONTAGE ROAD OVERCROSSING	BRIDGE NO. 52-0189
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	4,312 SQFT
TREAT BRIDGE DECK	4,312 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	47 GAL
CLEAN EXPANSION JOINT	123 LF
JOINT SEAL (MR 1/2")	123 LF



MAIN STREET UNDERCROSSING

Br No. 52-0239, Ven, ROUTE 33, PM 0.17
1"=20'



QUANTITIES

MAIN STREET UNDERCROSSING	BRIDGE NO. 52-0239
PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	14,268 SQFT
TREAT BRIDGE DECK	14,268 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	157 GAL

10-21-14
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON
				CHECKED TIM CAMPBELL
				PLANS AND SPECS COMPARED KEVIN ELLINGSON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

**ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 2**

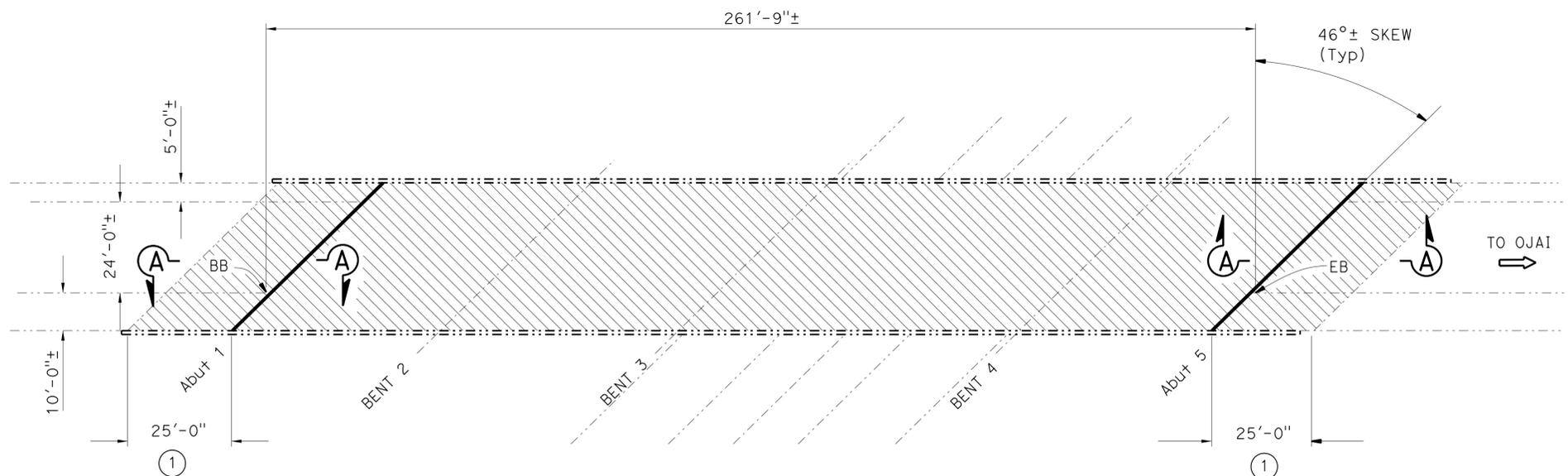
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	49	56

Tim Campbell 10-21-14
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
 TIM CAMPBELL
 No. 63268
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA



NORTH VENTURA UNDERCROSSING

Br No. 52-0294R, Ven, ROUTE 33, PM R3.26
1"=20'

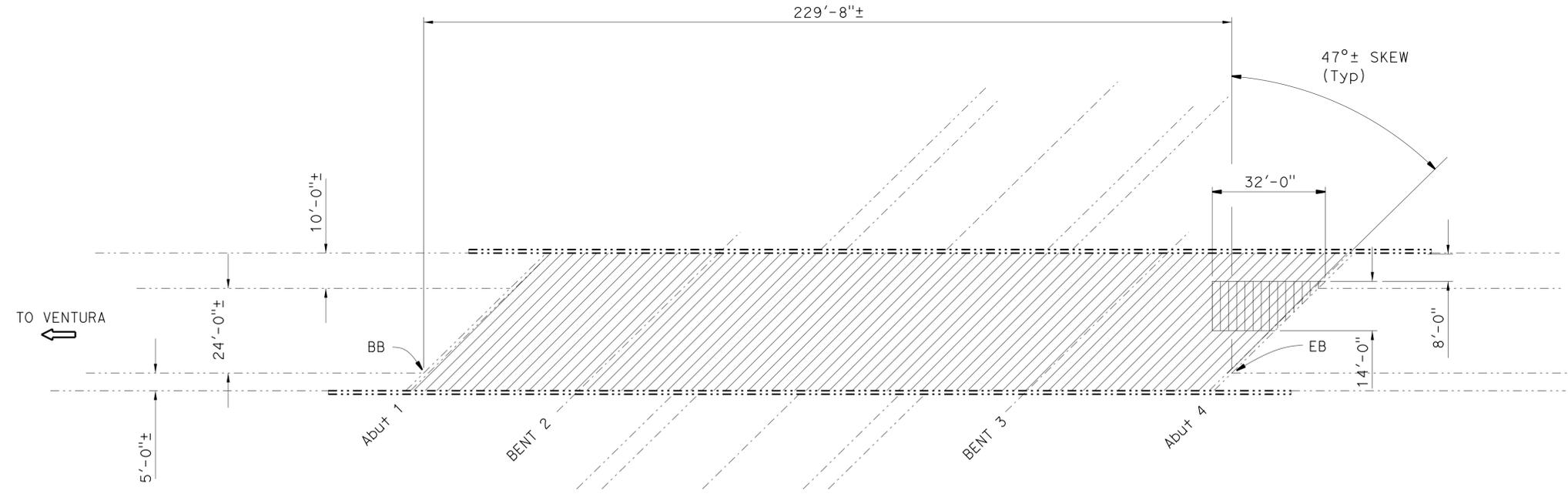


QUANTITIES
NORTH VENTURA UNDERCROSSING BRIDGE NO. 52-0294R

	LUMP SUM
PUBLIC SAFETY PLAN	30 CF
RAPID SETTING CONCRETE (PATCH)	30 CF
REMOVE UNSOUND CONCRETE	12,158 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	912 CF
FURNISH POLYESTER CONCRETE OVERLAY	12,158 SQFT
PLACE POLYESTER CONCRETE OVERLAY	1,950 SQFT
GRIND EXISTING BRIDGE DECK	114 LF
CLEAN EXPANSION JOINT	114 LF
JOINT SEAL (MR 1")	

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete as shown on "JOINT AND DECK REPAIR DETAIL" on "DECK REPAIR DETAILS NO. 1" sheet.
- Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.
- Indicates limits of clean expansion joint and install new joint seal. For details, see "JOINT SEAL DETAILS" sheet.
- Indicates limits of remove existing 3/4"± depth chip seal.
- Limits of grind concrete approach to conform to existing pavement, for details, see "SECTION A-A" on "DECK REPAIR DETAILS NO. 1" sheet.



VENTURA AVENUE UNDERCROSSING

Br No. 52-0295L, Ven, ROUTE 33, PM R4.05
1"=20'



QUANTITIES
VENTURA AVENUE UNDERCROSSING BRIDGE NO. 52-0295L

	LUMP SUM
PUBLIC SAFETY PLAN	8,958 SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	8,958 SQFT
TREAT BRIDGE DECK	99 GAL
FURNISH BRIDGE DECK TREATMENT MATERIAL	357 SQFT
REMOVE CHIP SEAL	

DESIGN ENGINEER 10-21-14

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON
				CHECKED TIM CAMPBELL
				PLANS AND SPECS COMPARED KEVIN ELLINGSON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS
ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 3

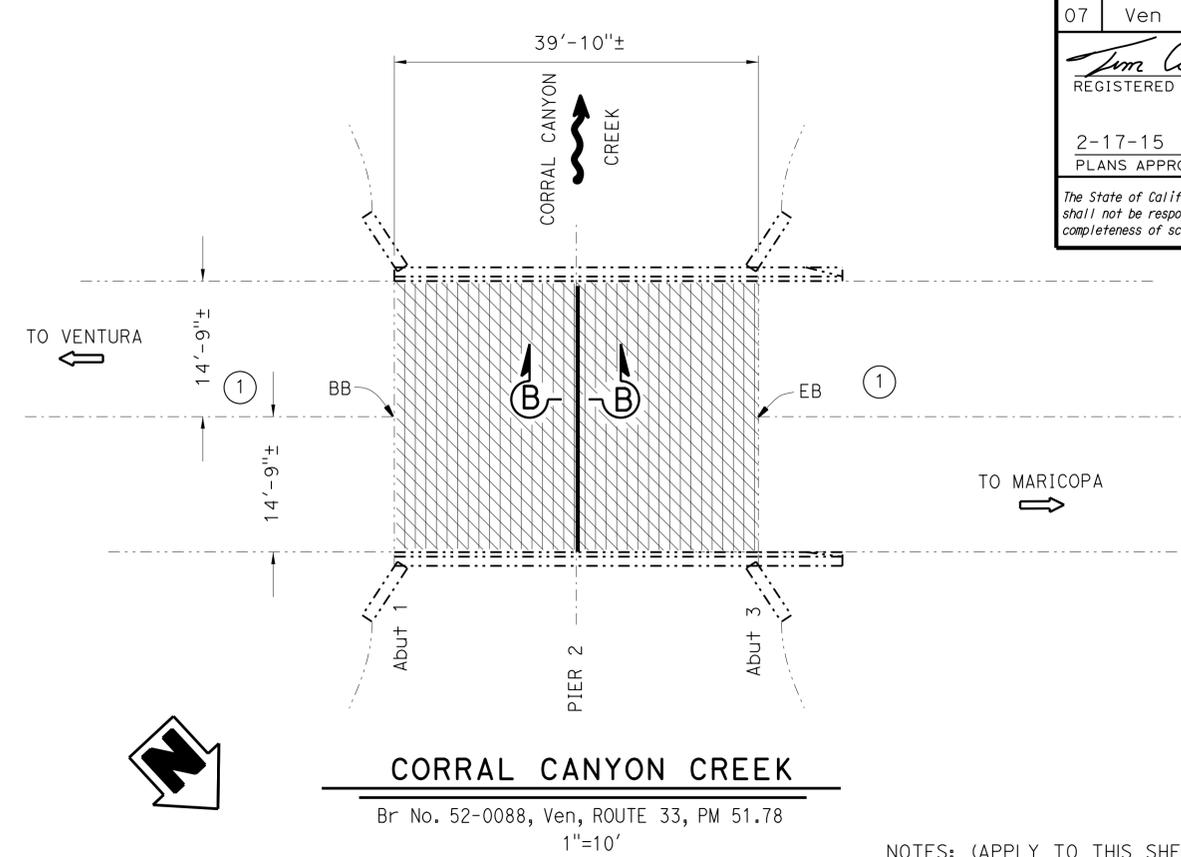
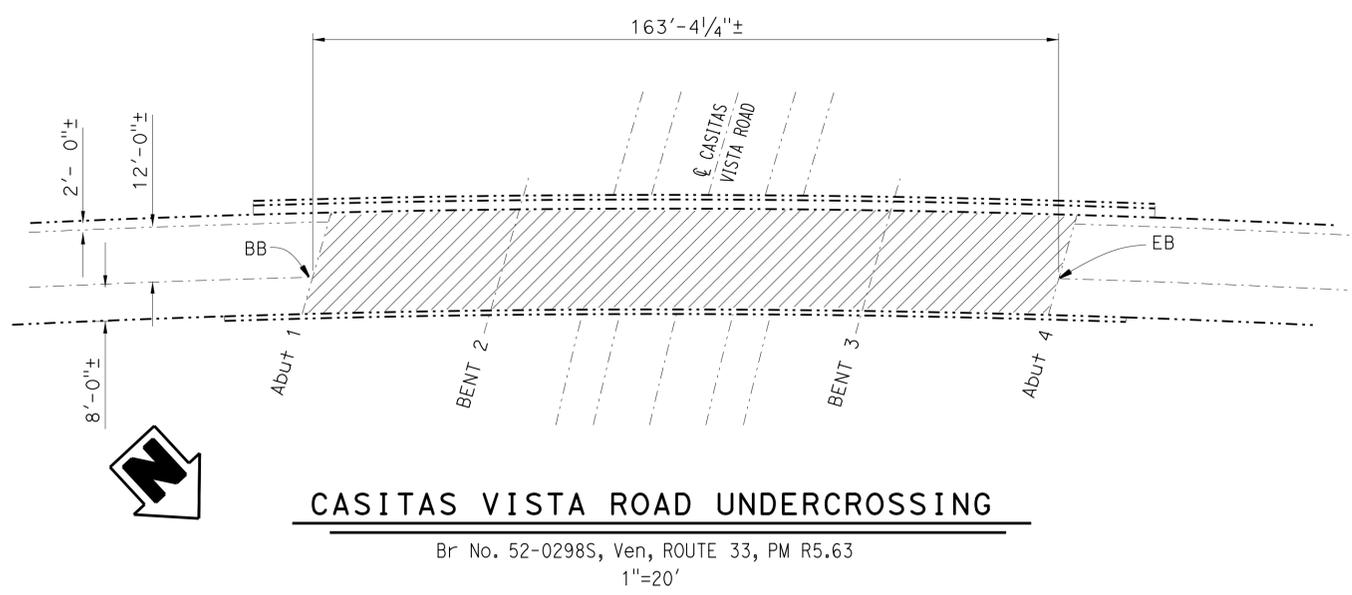
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	50	56

Tim Campbell 10-21-14
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
TIM CAMPBELL
 No. 63268
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA



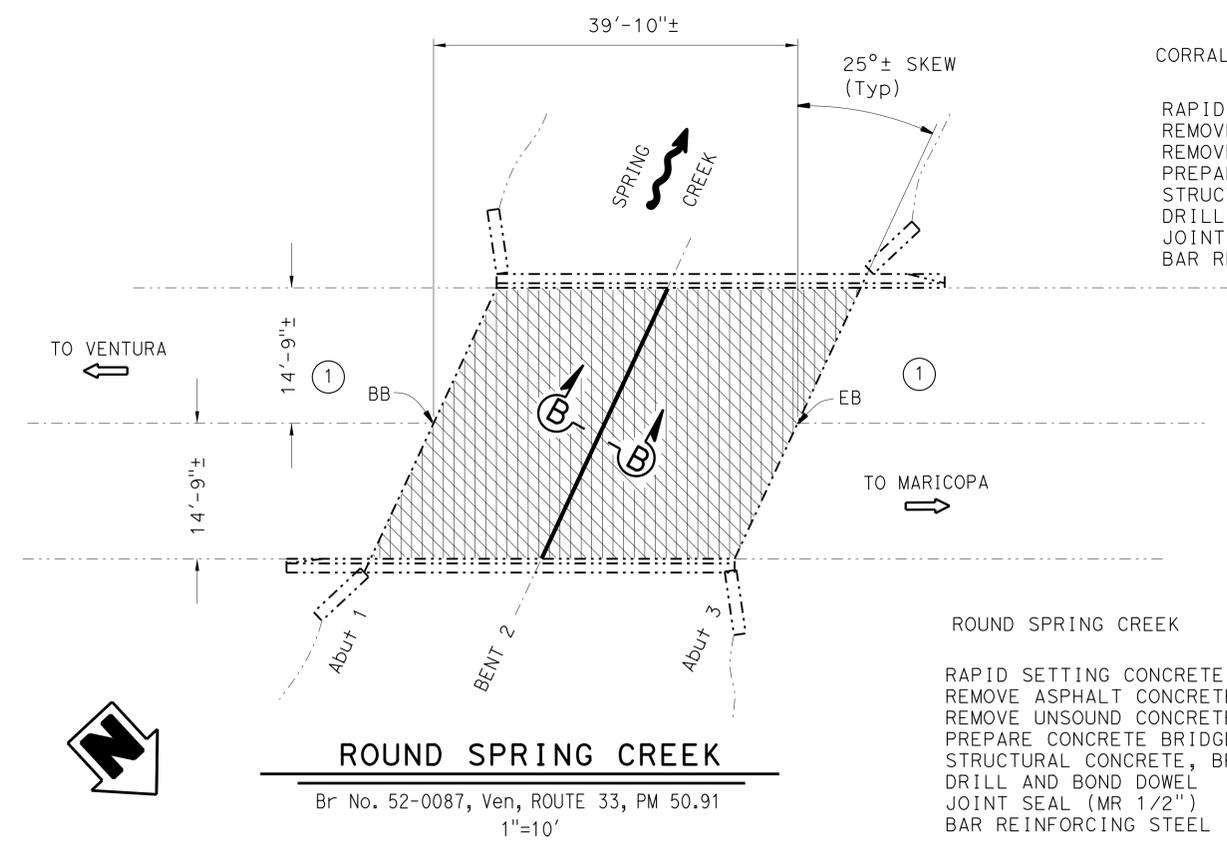
QUANTITIES

CASITAS VISTA RD UNDERCROSSING	BRIDGE NO. 52-0298S
PREPARE CONCRETE BRIDGE DECK SURFACE	3,594 SQFT
TREAT BRIDGE DECK	3,594 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	40 GAL

QUANTITIES

CORRAL CANYON CREEK	BRIDGE NO. 52-0088
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE ASPHALT CONCRETE SURFACING	1,175 SQFT
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,175 SQFT
STRUCTURAL CONCRETE, BRIDGE	21 CY
DRILL AND BOND DOWEL	167 LF
JOINT SEAL (MR 1/2")	30 LF
BAR REINFORCING STEEL (BRIDGE)	2,933 LB

- NOTES: (APPLY TO THIS SHEET ONLY)**
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 8 1/2" maximum depth PCC overlay. For details see "DECK REPAIR DETAILS NO. 2" sheet. Prior to placing new PCC overlay, remove unsound concrete and patch with rapid setting concrete as shown on "JOINT AND DECK REPAIR DETAIL" on "DECK REPAIR DETAILS NO. 1" sheet.
 - Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.
 - Indicates limits of install new joint seal. For details, see "JOINT SEAL DETAILS" and "DECK REPAIR DETAILS NO. 3" sheets.
 - Indicates limits of remove existing 9"± depth AC overlay.



QUANTITIES

ROUND SPRING CREEK	BRIDGE NO. 52-0087
RAPID SETTING CONCRETE (PATCH)	15 CF
REMOVE ASPHALT CONCRETE SURFACING	1,175 SQFT
REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,175 SQFT
STRUCTURAL CONCRETE, BRIDGE	21 CY
DRILL AND BOND DOWEL	167 LF
JOINT SEAL (MR 1/2")	33 LF
BAR REINFORCING STEEL (BRIDGE)	3,032 LB

- ① For Approach Roadway Taper, see "ROAD PLANS"
- For "SECTION B-B" see "DECK REPAIR DETAILS NO. 3" sheet
- For bridge numbers 52-0087 and 52-0088 see "DECK REPAIR DETAILS NO.3" sheet for staging.

10-21-14
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS
ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 4

USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 10:34

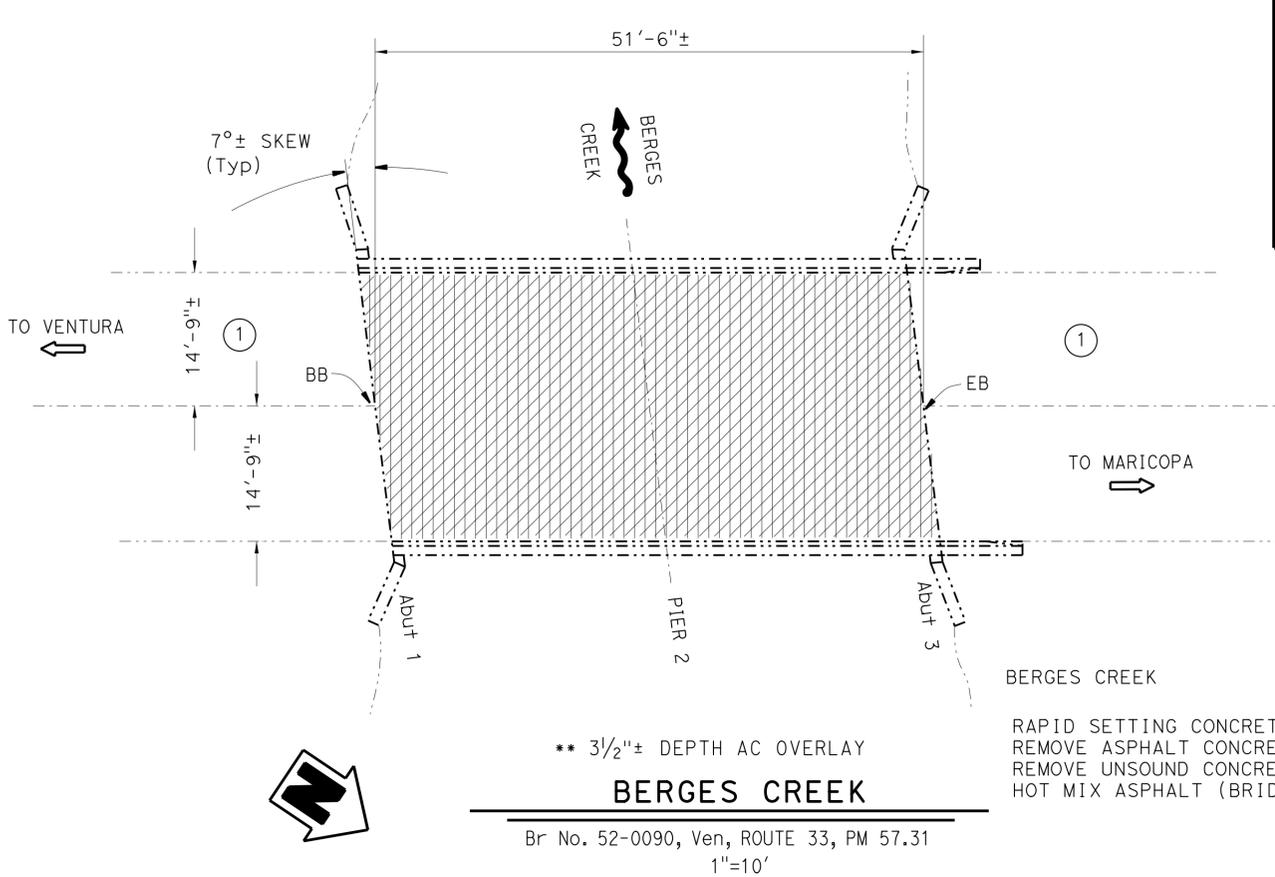
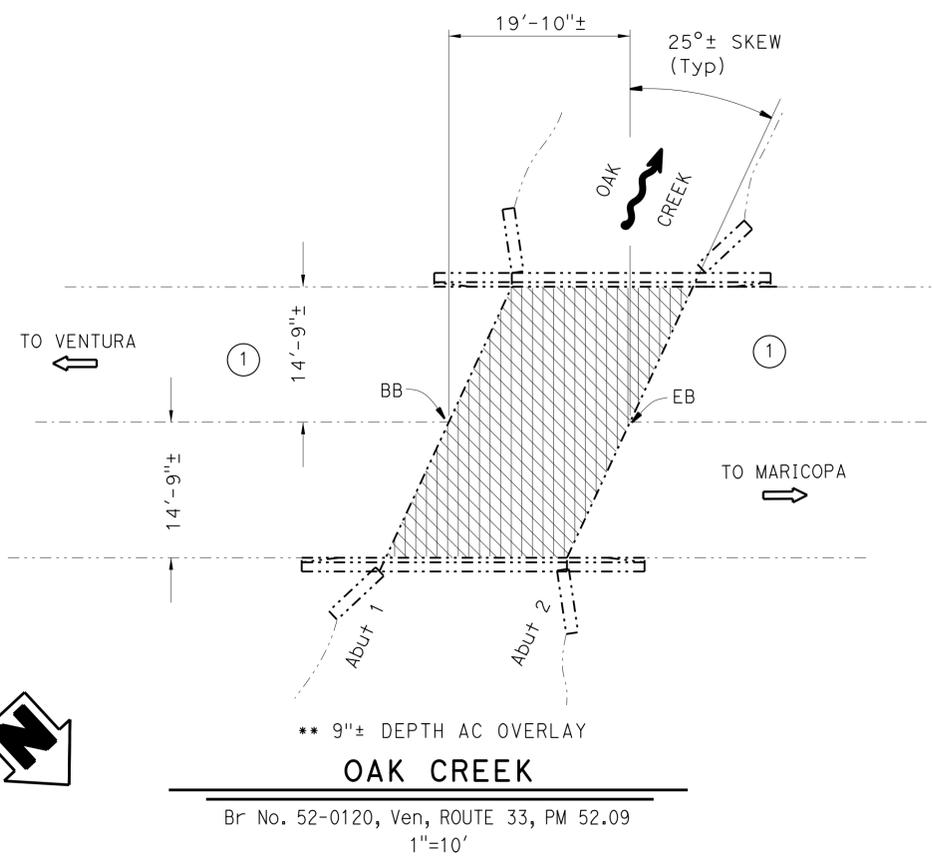
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	51	56

Tim Campbell 10-21-14
 REGISTERED CIVIL ENGINEER DATE

2-17-15
 PLANS APPROVAL DATE

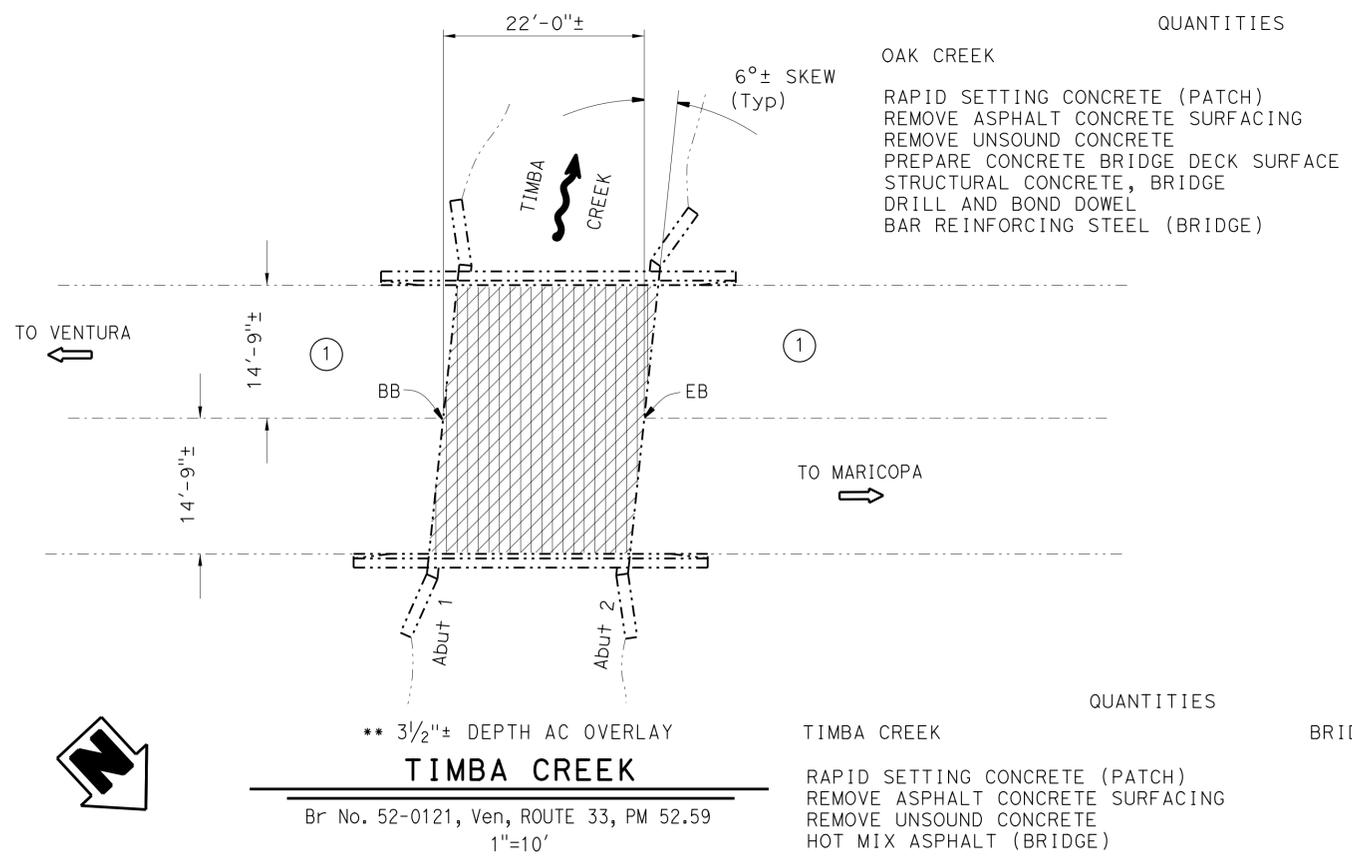
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REGISTERED PROFESSIONAL ENGINEER
TIM CAMPBELL
 No. 63268
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA



QUANTITIES

BERGES CREEK	BRIDGE NO. 52-0090
RAPID SETTING CONCRETE (PATCH)	19 CF
REMOVE ASPHALT CONCRETE SURFACING	1,519 SQFT
REMOVE UNSOUND CONCRETE	19 CF
HOT MIX ASPHALT (BRIDGE)	29 TON



QUANTITIES

OAK CREEK	BRIDGE NO. 52-0120
RAPID SETTING CONCRETE (PATCH)	7 CF
REMOVE ASPHALT CONCRETE SURFACING	585 SQFT
REMOVE UNSOUND CONCRETE	7 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	585 SQFT
STRUCTURAL CONCRETE, BRIDGE	10 CY
DRILL AND BOND DOWEL	83 LF
BAR REINFORCING STEEL (BRIDGE)	1,679 LB

QUANTITIES

TIMBA CREEK	BRIDGE NO. 52-0121
RAPID SETTING CONCRETE (PATCH)	8 CF
REMOVE ASPHALT CONCRETE SURFACING	649 SQFT
REMOVE UNSOUND CONCRETE	8 CF
HOT MIX ASPHALT (BRIDGE)	12 TON

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of prepare concrete bridge deck surface, furnish and place new 8 1/2" maximum depth PCC overlay. For details see "DECK REPAIR DETAILS NO. 2" sheet. Prior to placing new PCC overlay, remove unsound concrete and patch with rapid setting concrete as shown on "JOINT AND DECK REPAIR DETAIL" on "DECK REPAIR DETAILS NO. 1" sheet.
 - Indicates limits of place new 3" depth HMA (Type A) overlay. Prior to placing new HMA (Type A) overlay, remove unsound concrete and patch with rapid setting concrete as shown on "JOINT AND DECK REPAIR DETAIL" on "DECK REPAIR DETAILS NO. 1" sheet.
 - Indicates limits of remove existing (***) depth AC overlay.
 - ① For Approach Roadway Taper, see "ROAD PLANS"
- For bridge no. 52-0120 see "DECK REPAIR DETAILS NO.3" sheet for staging.

10-21-14
 DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED X QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
 POST MILE VARIOUS

ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 5

UNIT: 3488
 PROJECT NUMBER & PHASE: 07130004431
 CONTRACT NO.: 07-2W7104

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
5-12-14 5-25-14 8-01-14	5	10

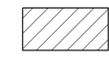
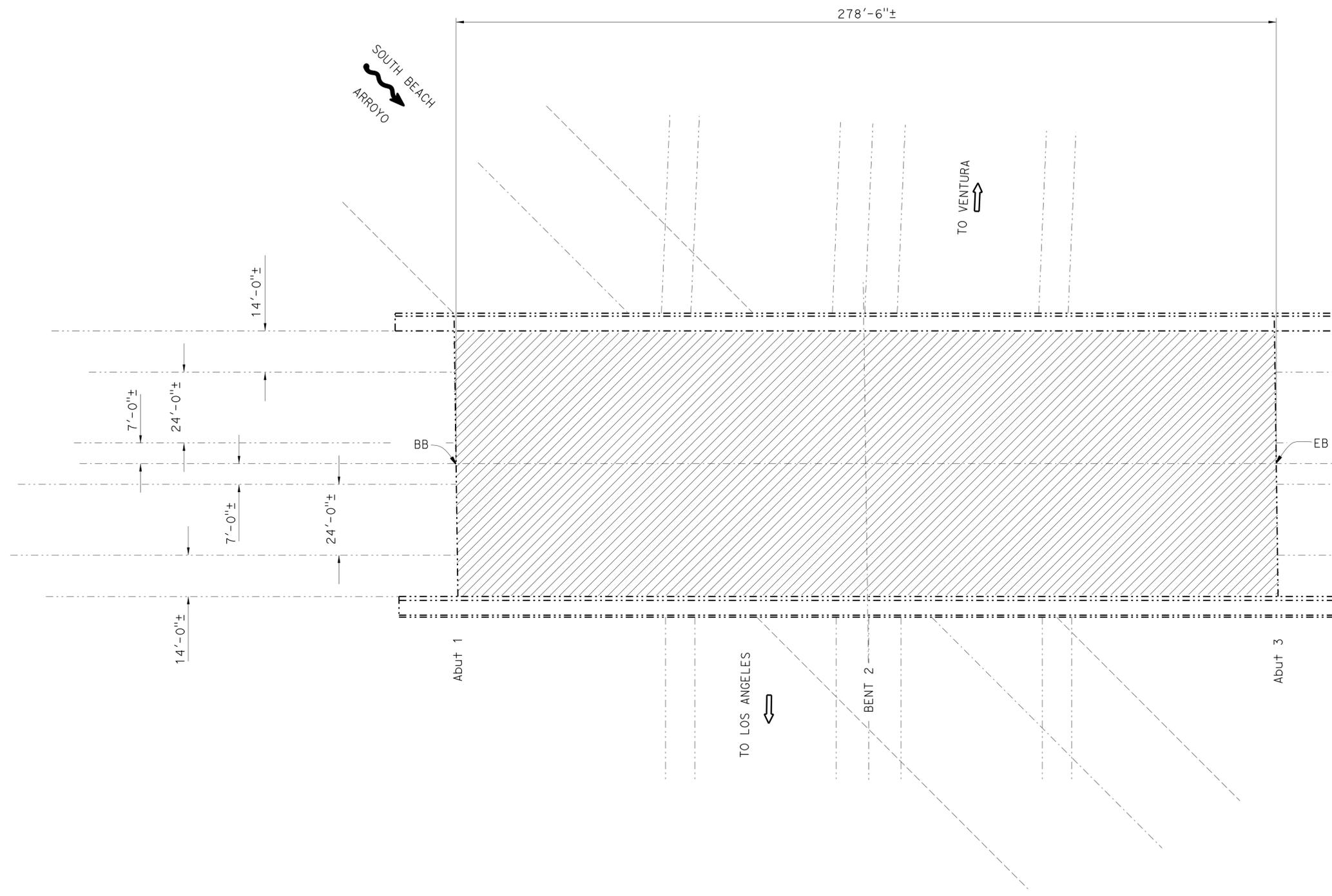
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	52	56

Tim Campbell 10-21-14
REGISTERED CIVIL ENGINEER DATE

2-17-15
PLANS APPROVAL DATE

Tim Campbell
REGISTERED PROFESSIONAL ENGINEER
No. 63268
Exp. 06-30-16
CIVIL
STATE OF CALIFORNIA

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NOTES: (APPLY TO THIS SHEET ONLY)

Indicates limits of prepare concrete bridge deck surface and treat bridge deck with Methacrylate.



BORCHARD ROAD OVERCROSSING

Br No. 52-0247, Ven, ROUTE 101, PM 7.02
1"=20'

QUANTITIES
BORCHARD RD OVERCROSSING BRIDGE NO. 52-0247

PUBLIC SAFETY PLAN	LUMP SUM
PREPARE CONCRETE BRIDGE DECK SURFACE	25,065 SQFT
TREAT BRIDGE DECK	25,065 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	276 GAL

Matthew Cole 10-21-14
DESIGN ENGINEER

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
DETAILS	BY DAVID KISH	CHECKED QUANG VO	LAYOUT	BY DAVID KISH
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO	SPECIFICATIONS	BY KEVIN ELLINGSON
				PLANS AND SPECS COMPARED KEVIN ELLINGSON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	
VARIES	

**ROUTE 1, 33 & 101 BRIDGES
GENERAL PLAN NO. 6**



USERNAME => s122436 DATE PLOTTED => 02-MAR-2015 TIME PLOTTED => 10:35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	53	56

<i>Tim Campbell</i>	10-21-14
REGISTERED CIVIL ENGINEER	DATE
PLANS APPROVAL DATE	
2-17-15	

TIM CAMPBELL
No. 63268
Exp. 06-30-16
CIVIL

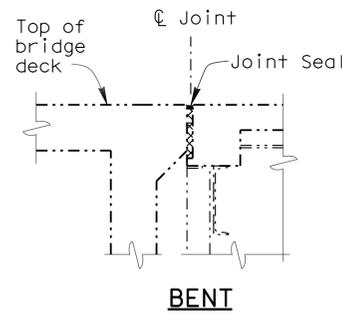
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JOINT SEAL TABLE

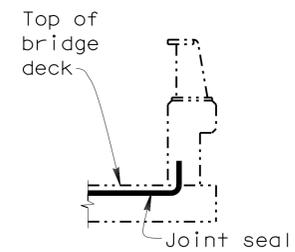
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROXIMATE LENGTH (FEET)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	
FRONTAGE ROAD OVERCROSSING	52-0189	Bent 2	EJ	1/2	41	NO	9
		Bent 3	EJ	1/2	41	NO	24
		Bent 4	EJ	1/2	41	NO	9
NORTH VENTURA UNDERCROSSING	52-0294R	Abut 1	BB	1	57	NO	12
		Abut 5	EB	1	57	NO	12
ROUND SPRING CREEK	52-0087	Bent 2	EJ	1/2	33	-	-
CORRAL CANYON CREEK	52-0088	Bent 2	EJ	1/2	30	-	-

LEGEND:
 BW - Abutment backwall joint
 BB - Paving Notch at beginning of bridge
 EB - Paving Notch at end of bridge
 EJ - Expansion Joint

- The following notes apply to JOINT SEAL TYPE B
- Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - 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 calculated by the Engineer.
 - W1 shall be the smaller of the values determined as follows:
 - 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - Bend Type B joint seal 6" 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 

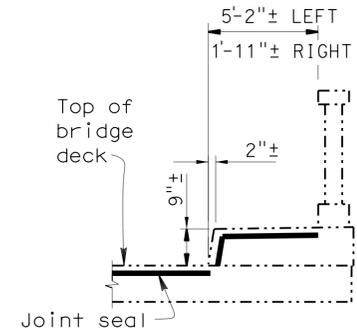


BENT



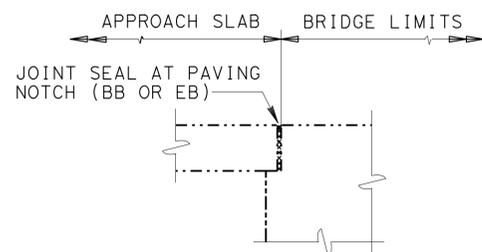
BARRIER RAIL JOINT SEAL AT LOW SIDE OF DECK

Notes: Details shown for illustration purposes only.
 For use only where deck joint matches the barrier rail joint.

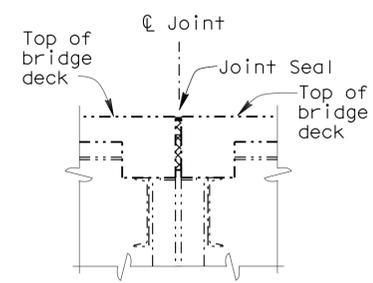


JOINT SEAL AT SIDEWALK DETAIL

BRIDGE NO. 52-0189



DIAPHRAGM ABUTMENT



BENT

JOINT SEAL LOCATION

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO
DETAILS	BY DAVID KISH	CHECKED QUANG VO
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO

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BRIDGE NO.	VARIOUS
POST MILE	VARIES

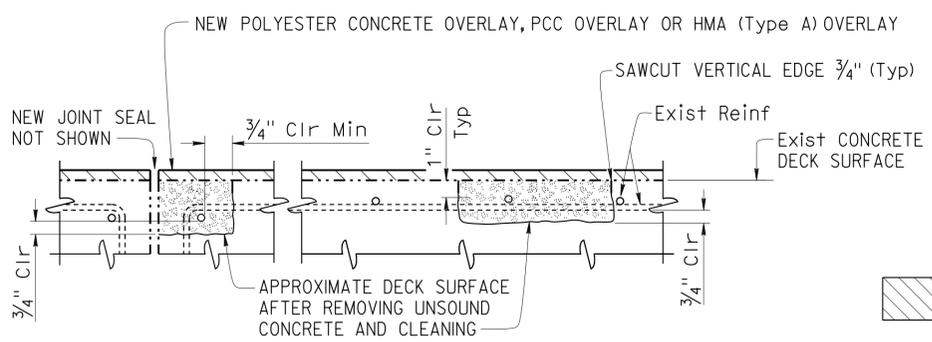
ROUTE 1, 33 & 101 BRIDGES JOINT SEAL DETAILS

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	54	56

10-21-14
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
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DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (PERCENT)	APPROXIMATE DEPTH (INCHES)
NORTH VENTURA UNDERCROSSING	52-0294R	1	3
ROUND SPRING CREEK	52-0087	5	3
CORRAL CANYON CREEK	52-0088	5	3
OAK CREEK	52-0120	5	3
TIMBA CREEK	52-0121	5	3
BERGES CREEK	52-0090	5	3

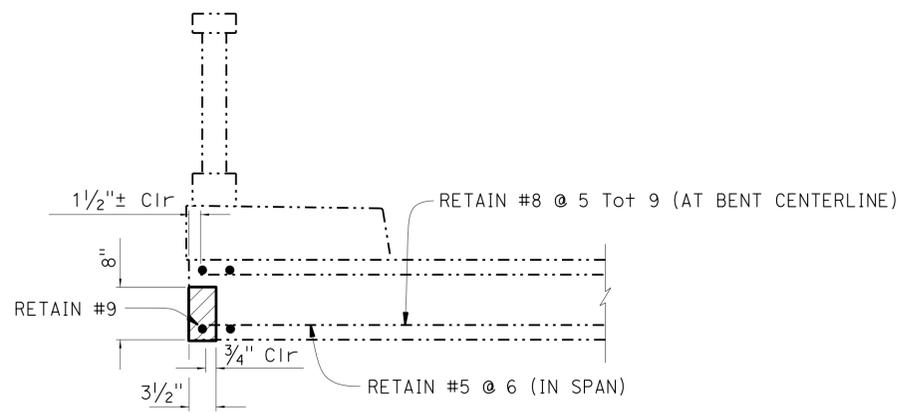
Locations to be determined by the Engineer.
For details see "Joint And Deck Repair Detail".



JOINT AND DECK REPAIR DETAIL

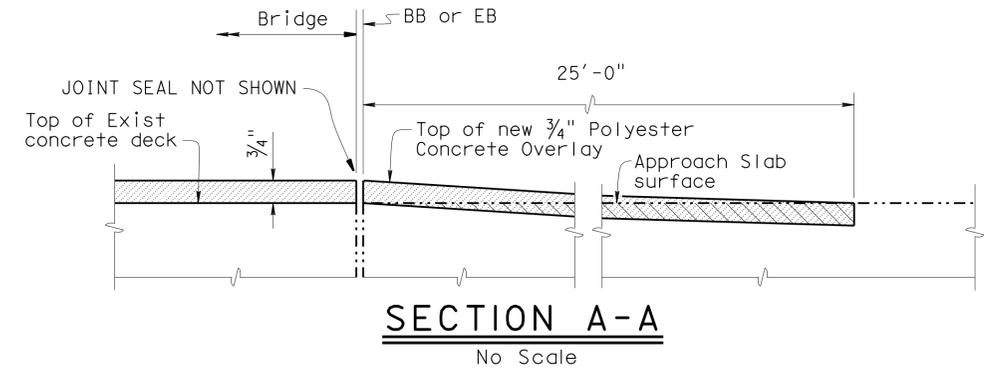
Note: Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates limits of grind concrete surfacing.
 - Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" minimum depth polyester concrete overlay.
 - Indicates limits of repair spalled surface area.



CONCRETE SPALL REPAIR DETAIL

BRIDGE NO. 52-0010R
3/4" = 1'-0"



DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO
DETAILS	BY DAVID KISH	CHECKED QUANG VO
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO

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BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 1, 33 & 101 BRIDGES
DECK REPAIR DETAILS NO. 1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	55	56

10-21-14
 REGISTERED CIVIL ENGINEER DATE
 2-17-15
 PLANS APPROVAL DATE
 No. 63268
 Exp. 06-30-16
 CIVIL
 STATE OF CALIFORNIA

NOTES: (APPLY TO THIS SHEET ONLY)

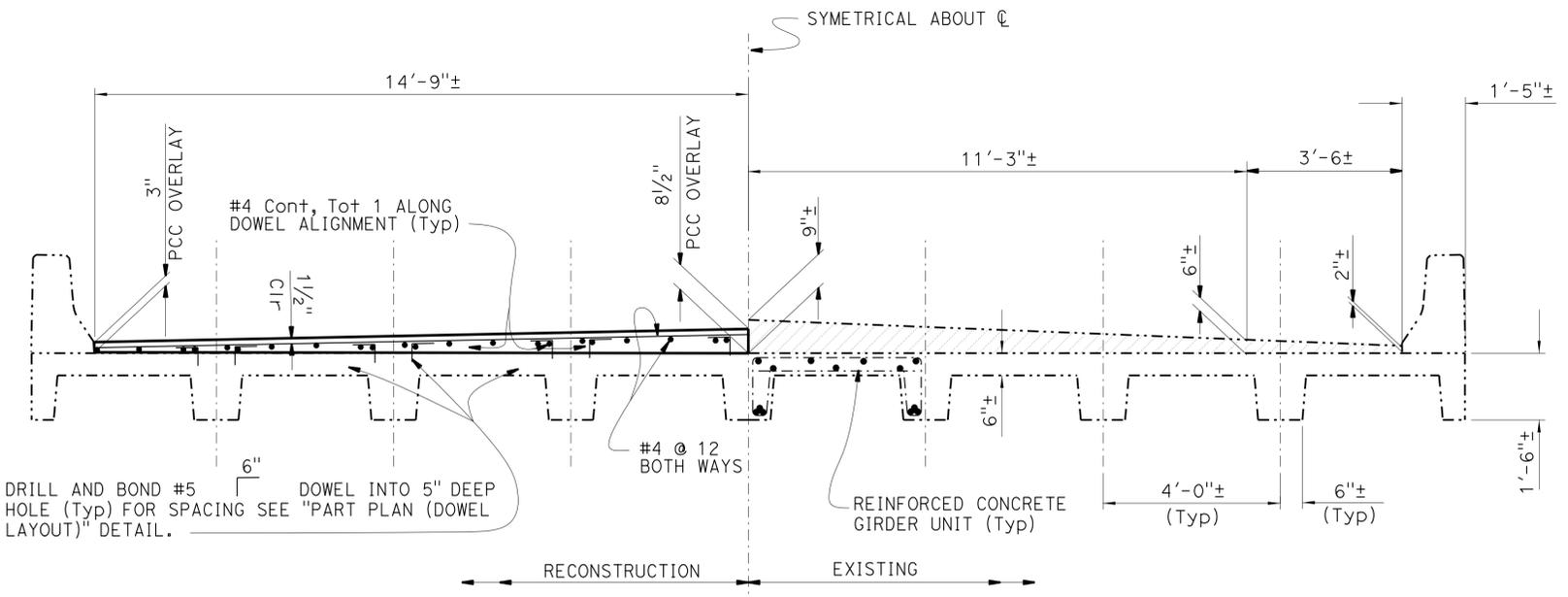
Remove existing AC Overlay

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN:
Bridge Design Specifications
('96 AASHTO w/Revisions by Caltrans)

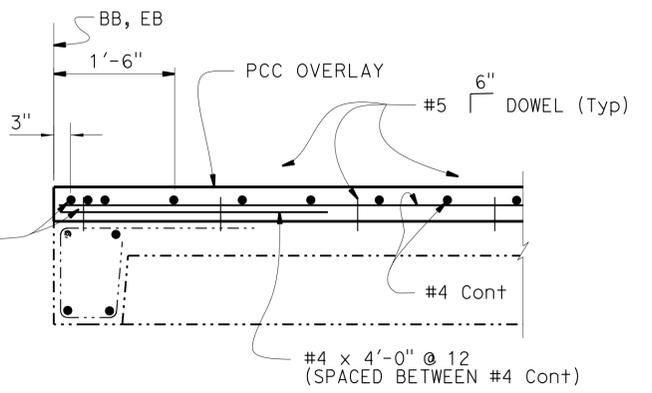
LIVE LOADING:
HS 20-44 and permit design load.

CONCRETE:
f_y = 60 ksi
f'c = 3.6 ksi
n = 8



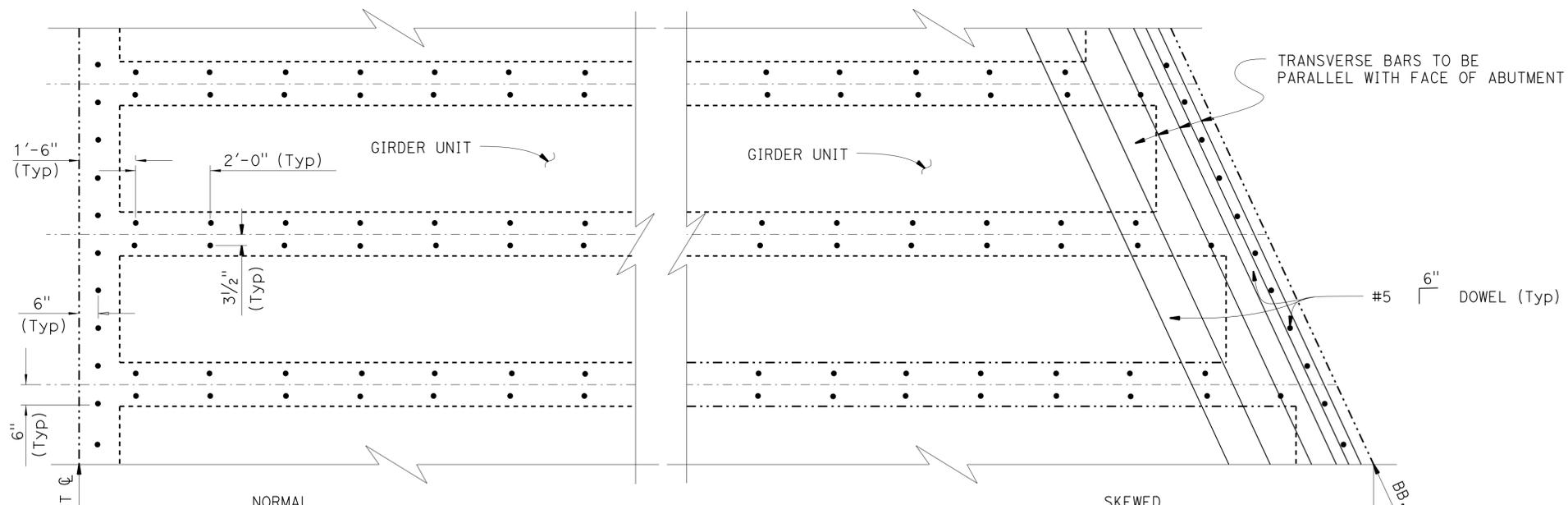
TYPICAL SECTION

1/2"=1'-0"



TYPICAL SECTION AT BB OR EB

3/4"=1'-0"

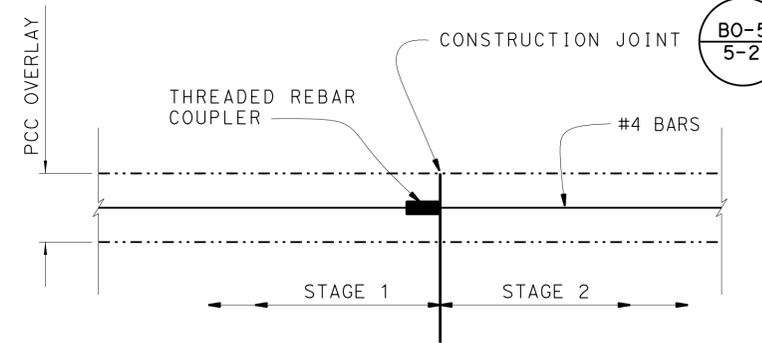


PART PLAN (DOWEL LAYOUT)

1/2"=1'-0"

PCC OVERLAY DETAILS

BRIDGE NUMBERS 52-0087, 52-0088 AND 52-0120



LONGITUDINAL CONSTRUCTION JOINT

3/4"=1'-0"

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DETAILS	BY DAVID KISH	CHECKED QUANG VO
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO

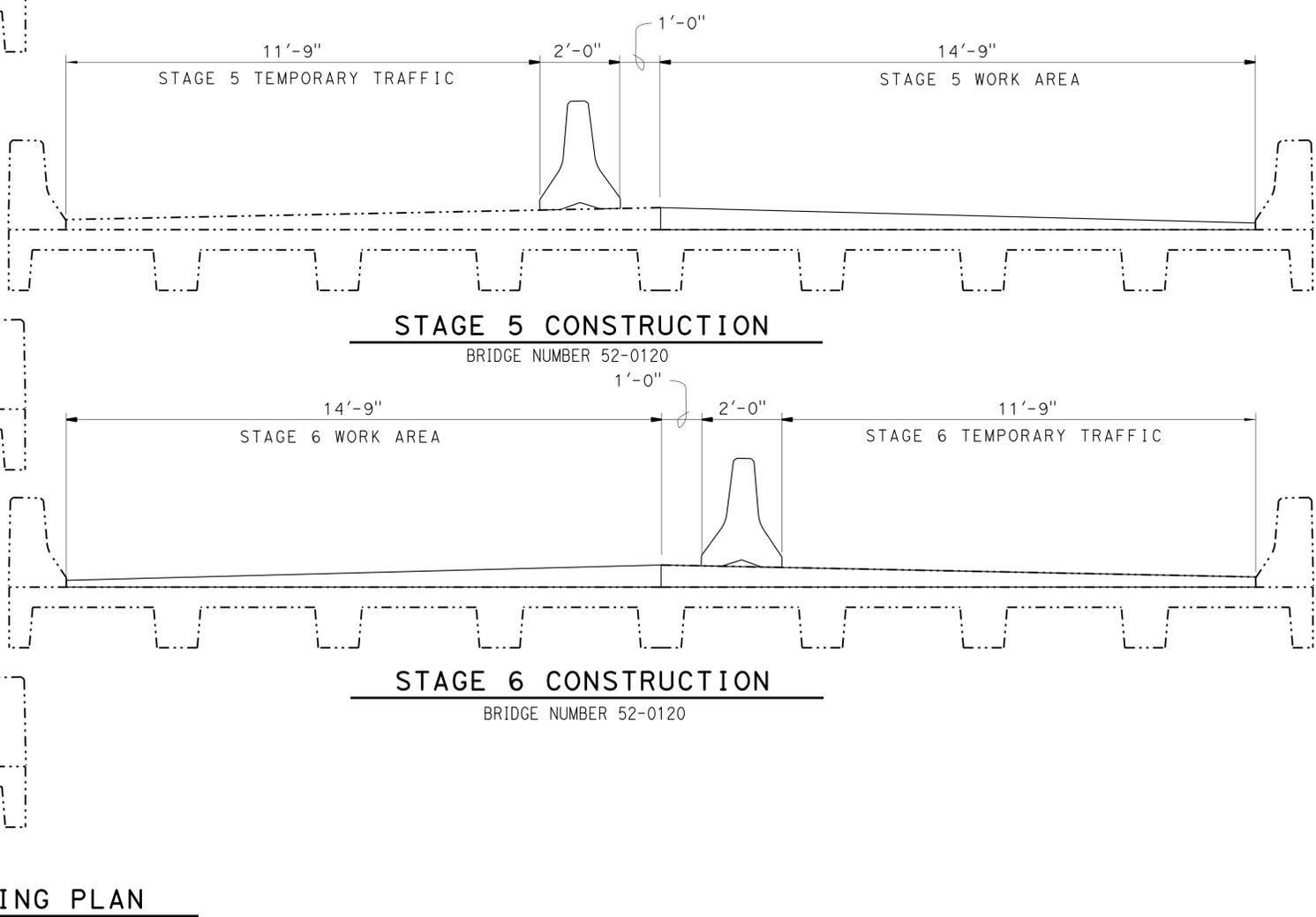
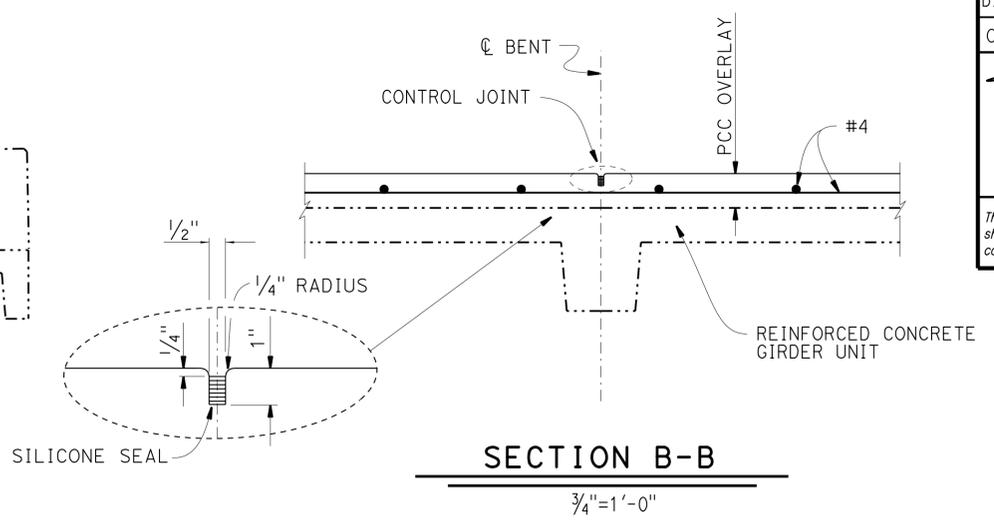
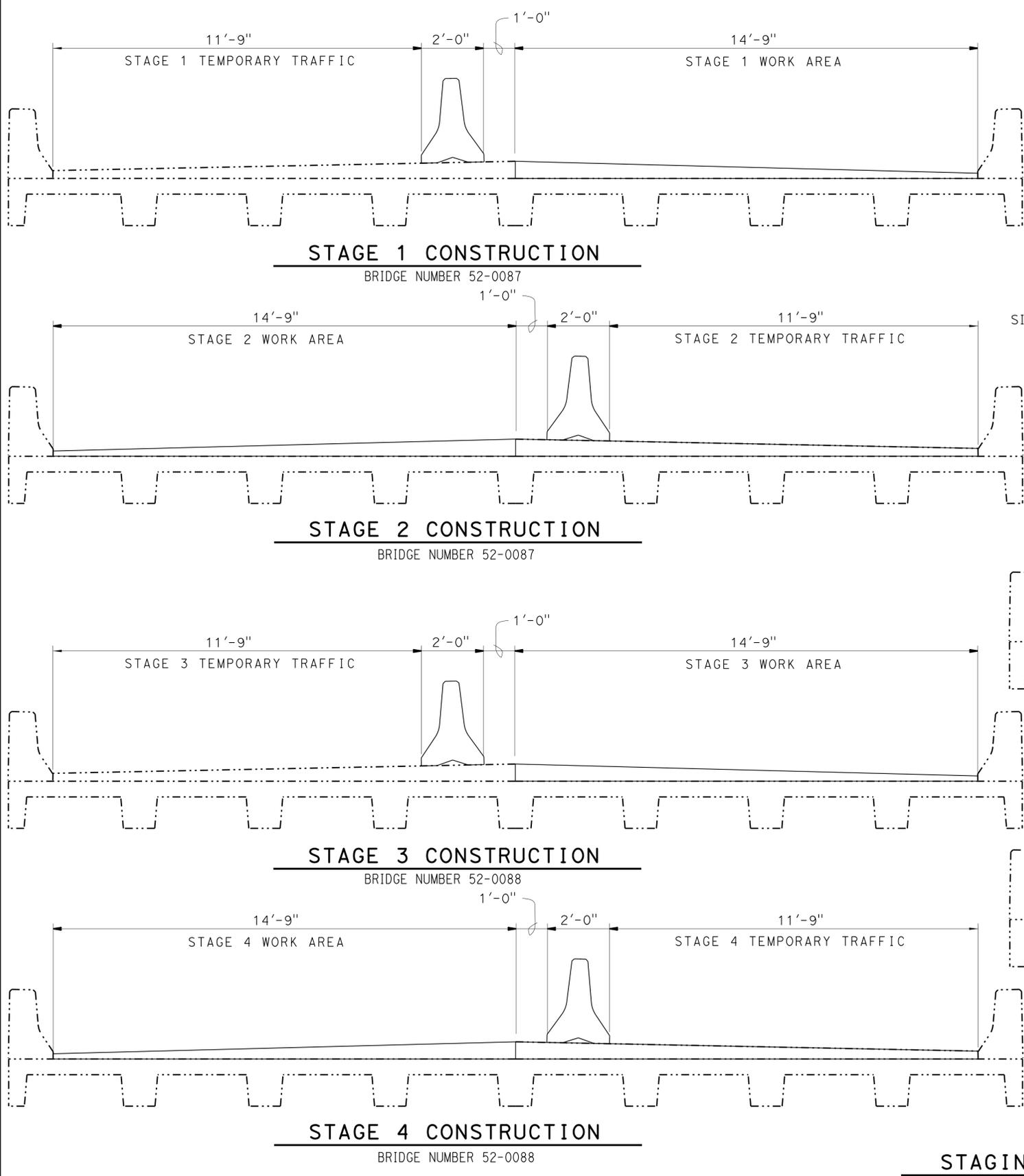
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 1, 33 & 101 BRIDGES
DECK REPAIR DETAILS NO. 2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	Ven	1, 33, 101	Var	56	56
 REGISTERED CIVIL ENGINEER			DATE		
2-17-15 PLANS APPROVAL DATE					
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STAGING PLAN
1/2"=1'-0"

DESIGN	BY TIM CAMPBELL	CHECKED QUANG VO
DETAILS	BY DAVID KISH	CHECKED QUANG VO
QUANTITIES	BY TIM CAMPBELL	CHECKED QUANG VO

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 1, 33 & 101 BRIDGES
DECK REPAIR DETAILS NO. 3