

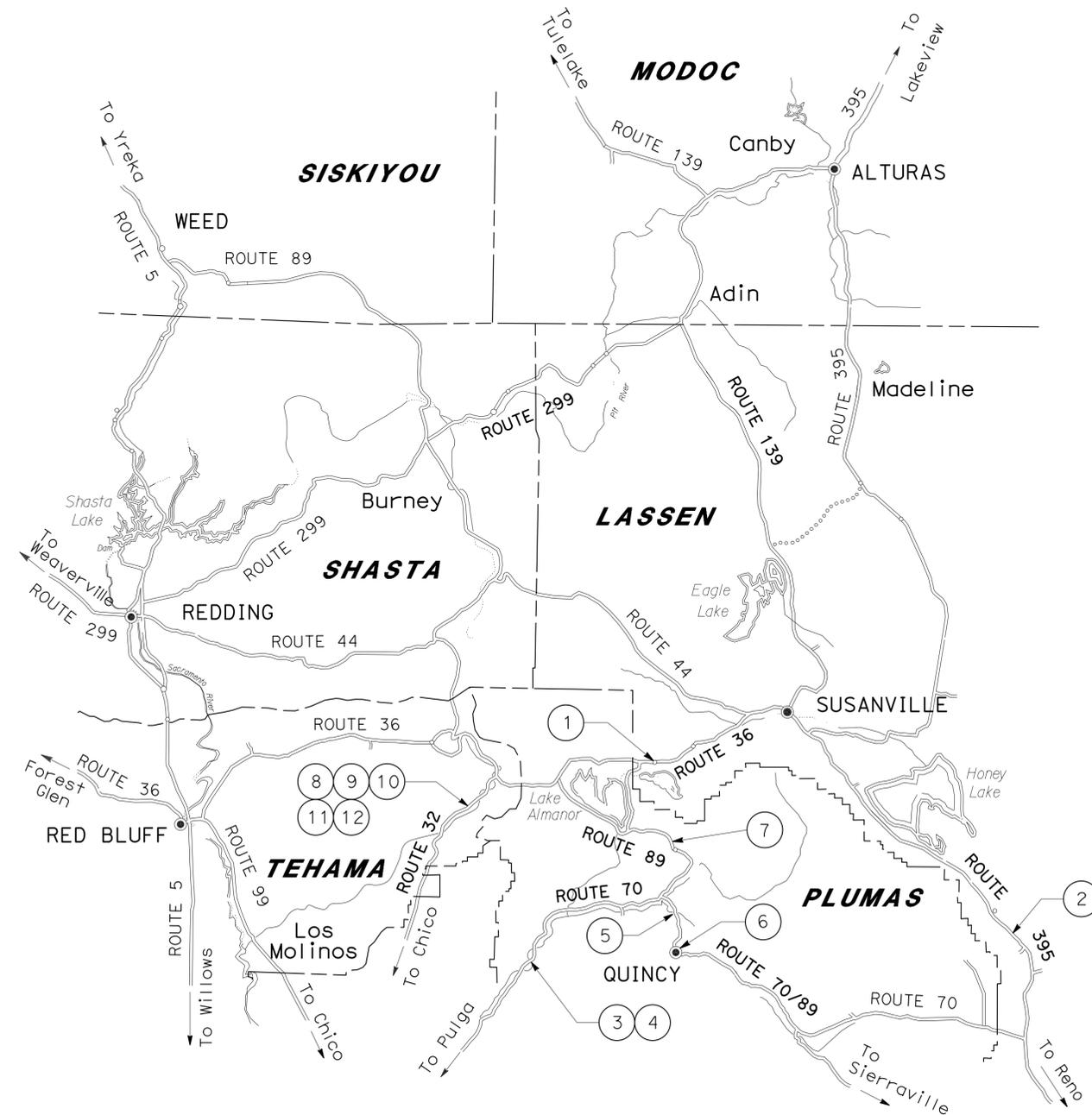
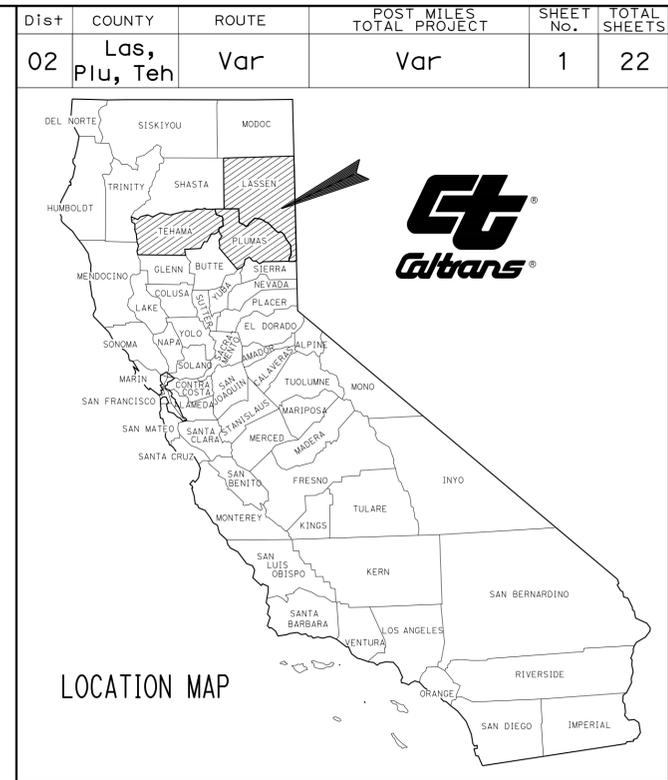
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-6	SUMMARY OF QUANTITIES
7-13	REVISED STANDARD PLANS
14-22	STRUCTURE PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LASSEN, PLUMAS AND TEHAMA COUNTIES
AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



LOCATIONS OF CONSTRUCTION

No.	Co	Rte	PM	Br No.	BRIDGE NAME
1	Las	36	3.15	07-0008	ROBBERS CREEK
2	Las	395	15.87	07-0023	LONG VALLEY CREEK
3	Plu	70	5.58	09-0003	NORTH FORK FEATHER RIVER
4	Plu	70	6.99	09-0004	NORTH FORK FEATHER RIVER
5	Plu	70	35.32	09-0077	SPANISH CREEK
6	Plu	70	42.45	09-0018	SPANISH CREEK
7	Plu	89	20.01	09-0040	WOLF CREEK
8	Teh	32	1.55	08-0067	CHICO CREEK
9	Teh	32	12.91	08-0068	DEER CREEK
10	Teh	32	16.85	08-0069	DEER CREEK
11	Teh	32	17.45	08-0070	DEER CREEK
12	Teh	32	21.45	08-0071	DEER CREEK

PROJECT MANAGER
LANCE BROWN
 DESIGN ENGINEER
LANCE BROWN

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

NO SCALE

Roy & Cahill 02-24-14
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER

February 24, 2014
 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.	02-4F7004
PROJECT ID	0213000096

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Plu, Teh	Var	Var	2	22

Roy & Cahill		02-24-14
REGISTERED CIVIL ENGINEER	DATE	
02-24-14		
PLANS APPROVAL DATE		

REGISTERED PROFESSIONAL ENGINEER	ROY S. CAHILL
No. C48876	
Exp. 9-30-14	
CIVIL	

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:

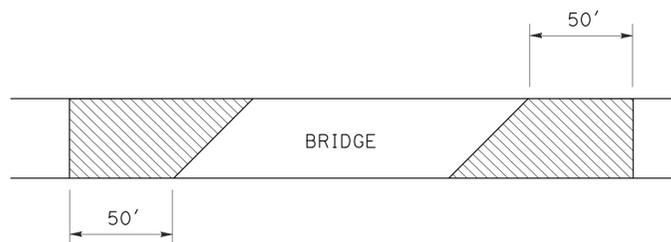
- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AND CROSS SLOPE TO MATCH EXISTING OR AS DIRECTED BY THE ENGINEER.
- COLD PLANE FULL WIDTH OF PAVED ROADWAY.
- SEE GENERAL PLANS FOR DETAILS NOT SHOWN.
- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- EXISTING BRIDGE JOINTS ARE NOT SHOWN ON THIS SHEET.

LEGEND:

 HOT MIX ASPHALT - SUPERPAVE (TYPE A)

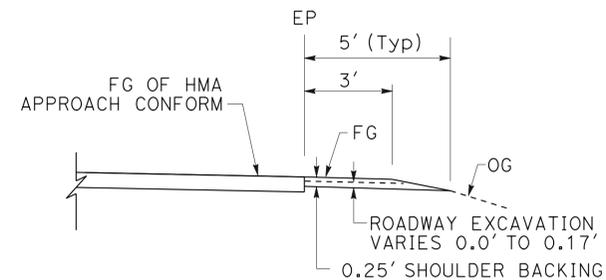
ABBREVIATIONS:

HMA-SP (TYPE A) HOT MIX ASPHALT, SUPERPAVE (TYPE A)



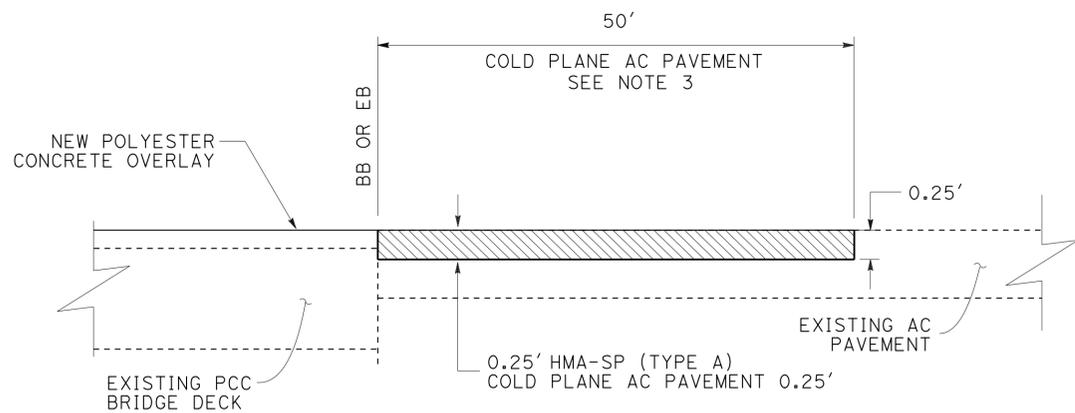
**PLAN VIEW
HMA CONFORM TYPICAL**

ROBBERS CREEK, Br No. 07-0008
SPANISH CREEK, Br No. 09-0018
WOLF CREEK, Br No. 09-0040
CHICO CREEK, Br No. 08-0067
DEER CREEK, Br No. 08-0068
DEER CREEK, Br No. 08-0069
DEER CREEK, Br No. 08-0070
DEER CREEK, Br No. 08-0071



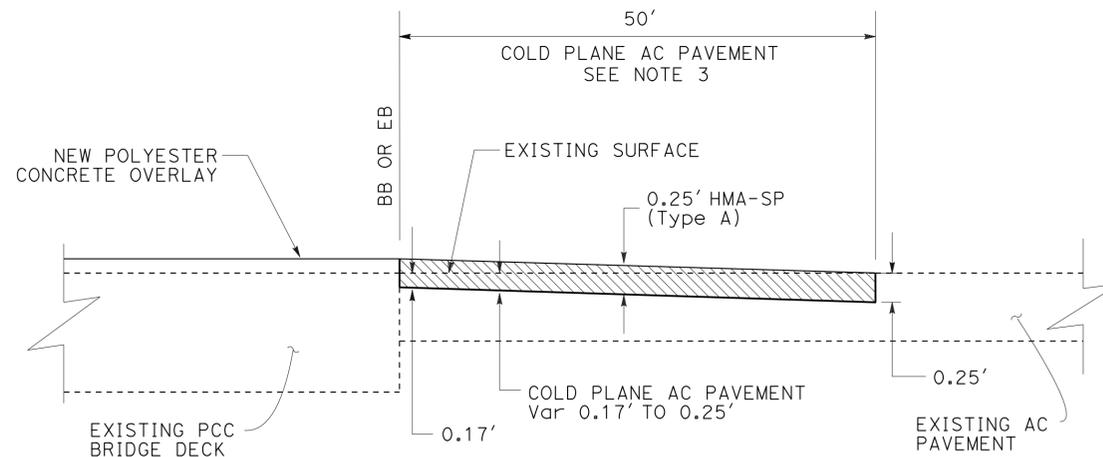
ROADWAY EXCAVATION DETAIL (Typ)

WOLF CREEK, Br No. 09-0040



**PROFILE
HMA CONFORM TYPICAL**

ROBBERS CREEK, Br No. 07-0008
SPANISH CREEK, Br No. 09-0018
CHICO CREEK, Br No. 08-0067
DEER CREEK, Br No. 08-0068
DEER CREEK, Br No. 08-0069
DEER CREEK, Br No. 08-0070
DEER CREEK, Br No. 08-0071



**PROFILE
HMA CONFORM TYPICAL**

WOLF CREEK, Br No. 09-0040

CONSTRUCTION DETAILS

NO SCALE

C-1

P:\proj\1\02\4F700\plans\pse\24f700ga001.dgn

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR
LANCE BROWN

CALCULATED/DESIGNED BY
CHECKED BY

ROY CAHILL
MIKE CONNER

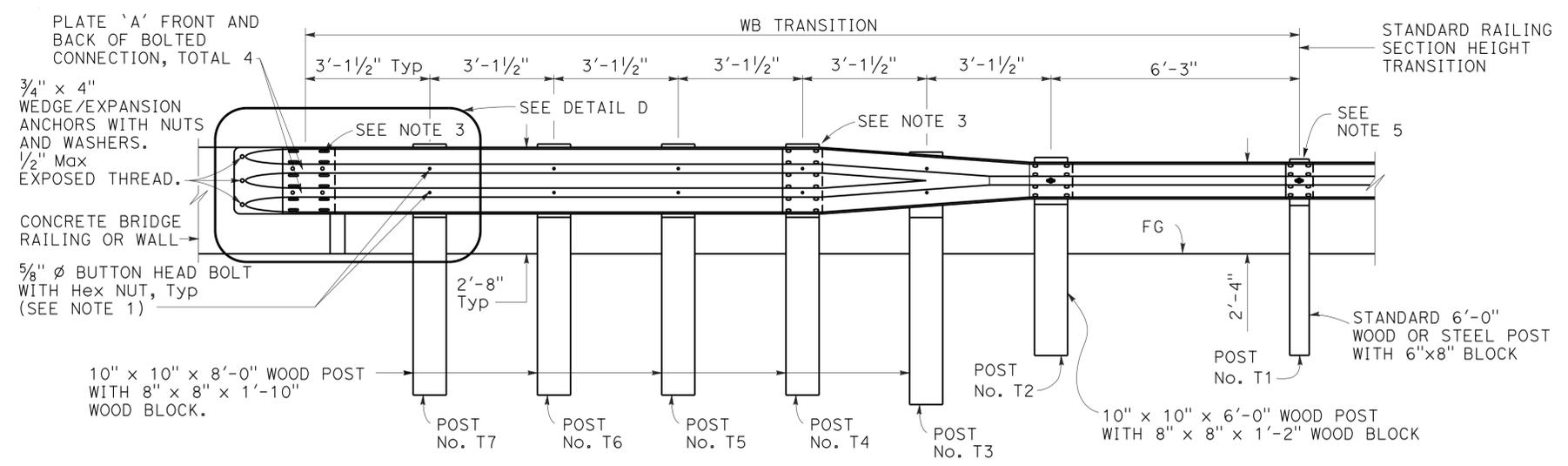
REVISOR BY
DATE REVISED



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Plu Teh	Var	Var	3	22

02-24-14
 REGISTERED CIVIL ENGINEER DATE
 DWIGHT WINTERLIN
 No. C68438
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

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



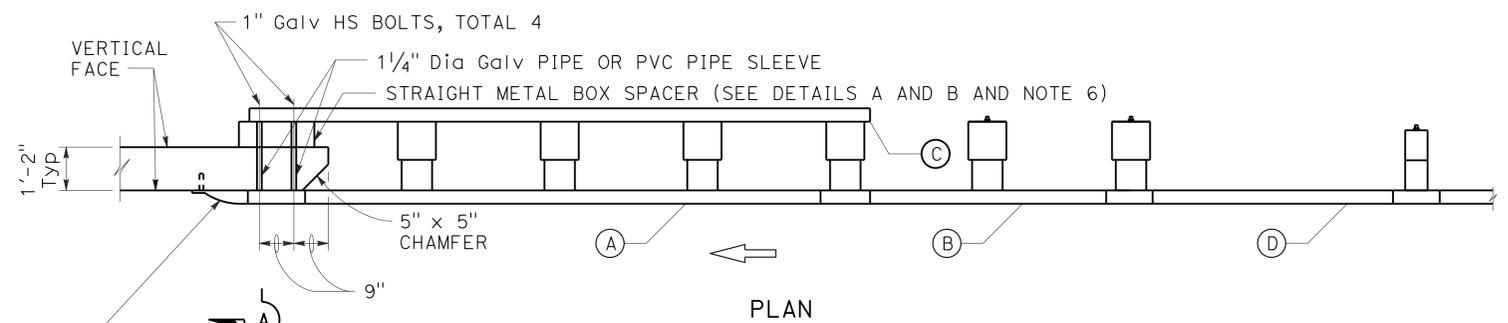
LEGEND:

- (A) NESTED THRIE BEAM ELEMENTS (ONE 12 GAUGE ELEMENT NESTED OVER ONE 10 GAUGE ELEMENT).
 - (B) ONE 10 GAUGE "W" BEAM TO THRIE BEAM ELEMENT.
 - (C) ONE 12 GAUGE THRIE BEAM ELEMENT.
 - (D) ONE 10 GAUGE "W" BEAM RAIL ELEMENT (7'-3 1/2" LENGTH)
- 10 GAUGE = 0.135" THICK
 12 GAUGE = 0.108" THICK

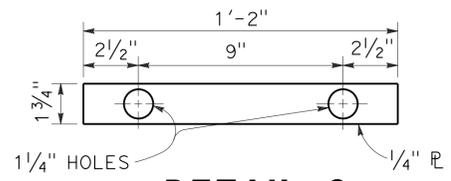
NOTES:

1. USE 5/8" Dia BUTTON HEAD BOLTS AND HEX NUTS FOR CONNECTIONS TO POSTS. NO WASHER ON RAIL FACE FOR BOLTED CONNECTIONS TO POST.
2. THE NESTED RAIL ELEMENTS, END CAP, AND 'W' BEAM TO THRIE BEAM ELEMENT MAY BE SPLICED TOGETHER PRIOR TO BOLTING THE ELEMENTS TO THE WOOD POST AND CONCRETE BARRIER OR RAILING.
3. EXTERIOR SPLICE BOLT HOLES FOR RAIL ELEMENT SPLICES AT POST NO. T4 AND THE CONNECTION TO THE CONCRETE BARRIER OR RAILING SHALL BE THE STANDARD 1 3/8" x 1 1/8" SLOT SIZE. INTERIOR SPLICE BOLT HOLES AT THESE LOCATIONS MAY BE INCREASED UP TO 1 1/4" Dia. ONLY THE TOP 2 AND THE BOTTOM 2 SPLICE BOLTS WITH WASHERS AND NUTS ARE REQUIRED FOR RAIL SPLICES AT POST NO. T4 AND THE CONNECTION TO THE CONCRETE BARRIER OR RAILING.
4. THE TOP ELEVATION OF POSTS NO. T2 THROUGH NO. T7 SHALL NOT PROJECT MORE THAN 1" ABOVE THE TOP ELEVATION OF THE RAIL ELEMENT.
5. THE GUARD RAILING CONNECTED TO TRANSITION RAILING (TYPE WB) WILL BE A STANDARD RAILING SECTION OF METAL BEAM GUARD RAILING WITH HEIGHT TRANSITION RATIO OF 120:1
6. THE DEPTH OF THE METAL BOX SPACER VARIES FROM THE 5 1/8" TO 1 1/2" AND IS DEPENDENT ON THE WIDTH OF THE CONCRETE RAILING OR WALL. THE COMBINED DIMENSION FOR THE DEPTH OF THE METAL BOX SPACER PLUS THE WIDTH OF RAILING OR WALL SHOULD BE 17 1/8".
7. END CAP MAY BE INSTALLED OVER 12 GAUGE AND 10 GAUGE THRIE BEAM ELEMENTS WHERE TRANSITION RAILING IS INSTALLED ON THE DEPARTURE END OF BRIDGE RAILING. SEE STANDARD PLAN A78C1 FOR TYPE TC END CAP.
8. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS

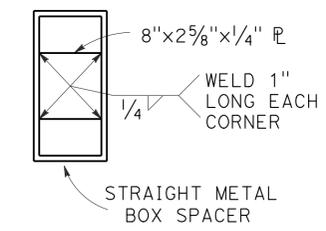
ELEVATION



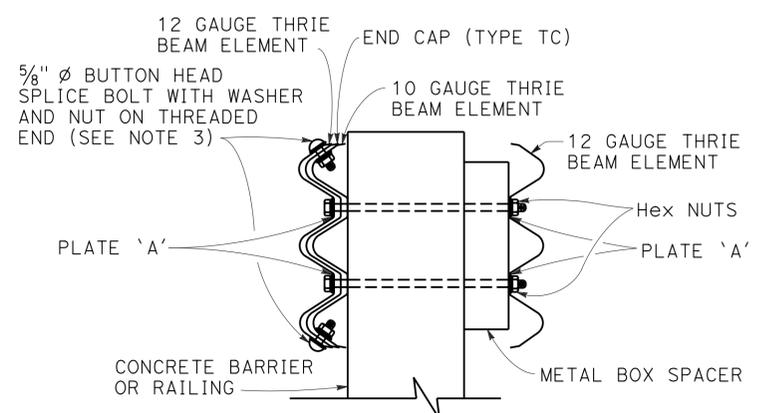
TRANSITION RAILING (TYPE WB-SPECIAL)



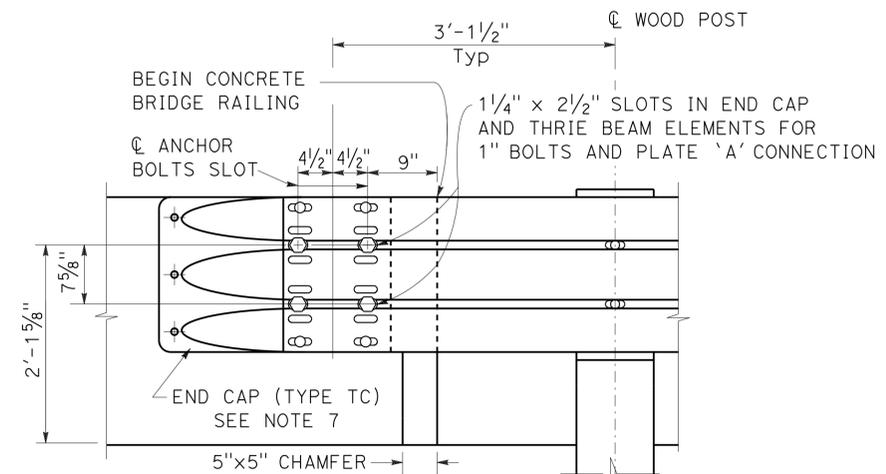
**DETAIL C
PLATE 'A'**



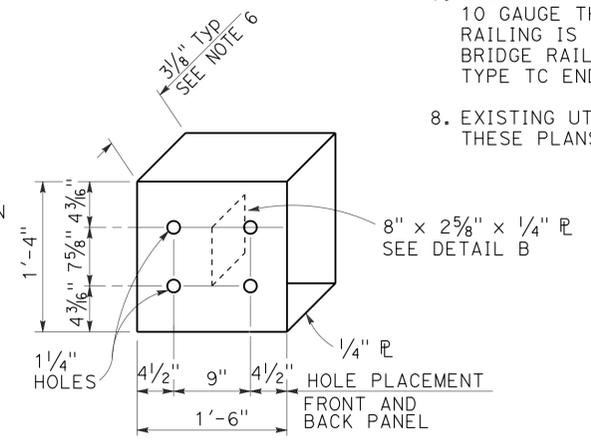
DETAIL B



SECTION A-A



DETAIL D



**DETAIL A
STRAIGHT METAL BOX SPACER**

**CONSTRUCTION DETAILS
TRANSITION RAILING
(TYPE WB-SPECIAL)**

NO SCALE

C-2

P:\proj\1\02\44700\plans\pse\24f700ga002.dgn

DESIGNED BY	ROY CAHILL
CHECKED BY	KRISTI WESTOBY
FUNCTIONAL SUPERVISOR	
DESIGNED BY	DWIGHT WINTERLIN
CHECKED BY	
REVISIONS	
REVISOR	
DATE	
REVISION	
DATE	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Piu, Teh	Var	Var	4	22

Roy & Cahill 02-24-14
REGISTERED CIVIL ENGINEER DATE

02-24-14
PLANS APPROVAL DATE

ROY S. CAHILL
No. C48876
Exp. 9-30-14
CIVIL

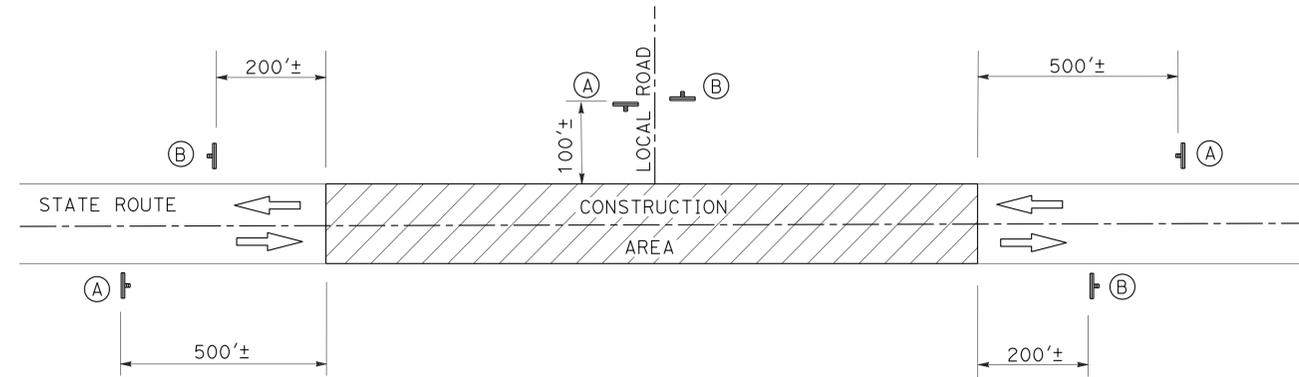
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION OF ALL SIGNS TO BE DETERMINED BY THE ENGINEER.
2. CALIFORNIA CODES ARE DESIGNATED BY (CA), OTHERWISE FEDERAL CODES ARE SHOWN.
3. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
4. NO CONSTRUCTION AREA SIGNS ARE REQUIRED FOR LOCATIONS 2 AND 3.

**CONSTRUCTION AREA SIGNS
(STATIONARY MOUNTED)**

SIGN No.	TYPE	PANEL SIZE INCHES	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
Ⓐ	W20-1 C23B(CA)	48" x 48" 36" x 18"	ROAD WORK AHEAD BRIDGE MAINTENANCE	1 - 4" x 6"	34
Ⓑ	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	34

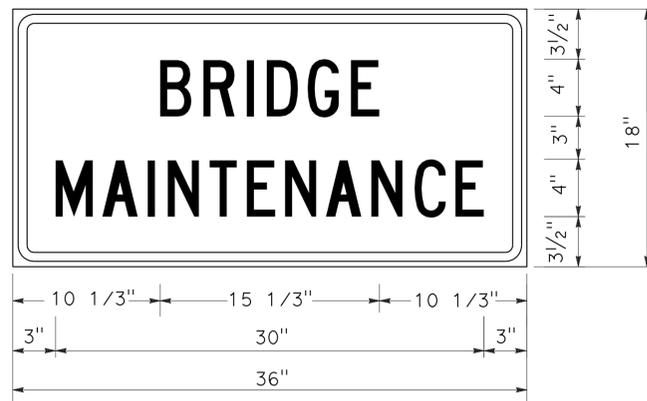


CONSTRUCTION AREA SIGNS

- ROBBERS CREEK, Br No. 07-0008
- NORTH FORK FEATHER RIVER, Br No. 09-0004
- SPANISH CREEK, Br No. 09-0077
- SPANISH CREEK, Br No. 09-0018
- WOLF CREEK, Br No. 09-0040
- CHICO CREEK, Br No. 08-0067
- DEER CREEK, Br No. 08-0068
- DEER CREEK, Br No. 08-0069
- DEER CREEK, Br No. 08-0070
- DEER CREEK, Br No. 08-0071

LOCAL ROAD CONNECTIONS

LOCATION	Co-Rte-PM	CONNECTION NAME
1	Las-36-3.10 Las-36-3.25 Las-36-3.34	DELWOOD St (R+) BIRCH St (R+) HEMLOCK St (R+)
4	Piu-70-6.82	TOBIN RESORT Rd (R+)
5	Piu-70-35.27	SPANISH Cr CAMPGROUND (R+)
6	Piu-70-42.39 Piu-70-42.40 Piu-70-42.59 Piu-70-42.59	GANSER PARK/BASKEEN (L+) TRAILER PARK ENTRANCE (R+) GANSER AIRPORT ENTRANCE/SPANISH Cr Rd (L+) DRIVEWAY (R+)
7	Piu-89-19.79 Piu-89-20.06	HIDEAWAY Rd (L+) HOT SPRINGS Rd (R+)
11	Teh-32-17.47	ALDER Cr CAMPGROUND (L+)
12	Teh-32-21.48 Teh-32-21.52	ELAM Cr CAMPGROUND (L+) REST AREA (L+)



C23B(CA) SIGN PANEL DETAIL

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 M A I N T E N A N C E
 ROY CAHILL
 MIKE CONNER
 LANCE BROWN
 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
02	Las, Plu Teh	Var	Var	6	22

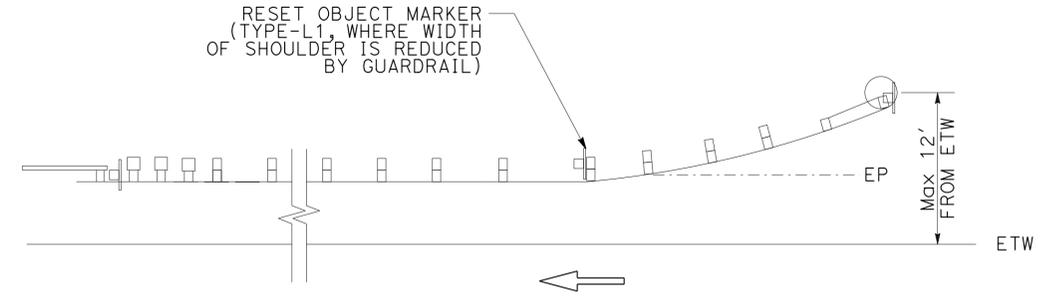
DWIGHT WINTERLIN 02-24-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DWIGHT WINTERLIN
 No. C68438
 Exp. 9-30-15
 CIVIL
 STATE OF CALIFORNIA

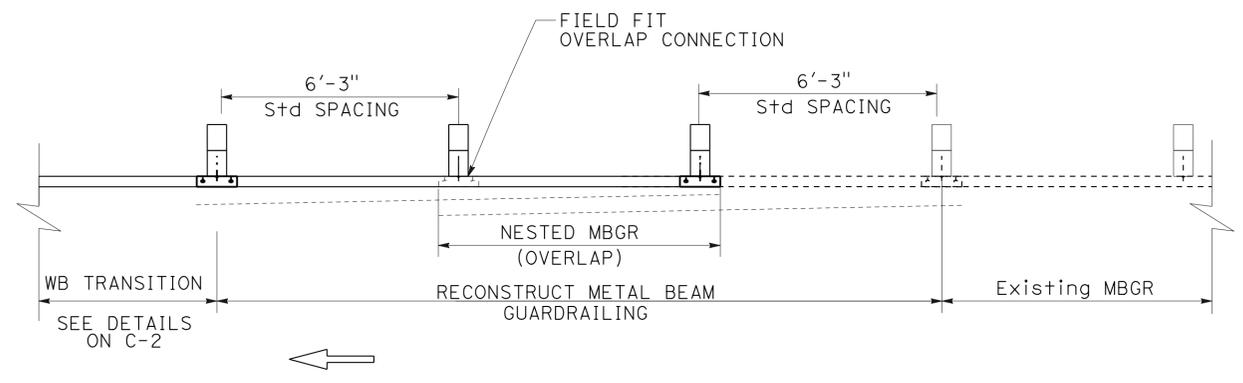
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. NESTED MBGR OVERLAP TO BE WITHIN RECONSTRUCT MBGR AREA.
2. EXACT LOCATIONS OF MBGR WORK TO BE DETERMINED BY THE ENGINEER.



TYPICAL OBJECT MARKER LOCATIONS



MBGR RAIL OVERLAP DETAIL

GUARDRAIL QUANTITIES

Loc	Co	Rte	PM	BRIDGE No.	BRIDGE NAME	BRIDGE QUADRANT	TRANSITION RAILING (TYPE WB-SPECIAL)*	RECONSTRUCT GUARDRAIL (WOOD POST)	REMOVE GUARDRAIL	Air-FLARED TERMINAL SYSTEM	RESET OBJECT MARKER	RESET ROADSIDE SIGN	TREATED WOOD WASTE	
							EA	LF	LF	EA	EA	EA	LB	
7	Plu	89	20.01	09-0040	WOLF CREEK	BB	L+	1	20	25				2810
							R+	1	20	25		1		
						EB	L+	1		63	1	1		
							R+	1	20	12				
TOTAL							4	60	125	1	1	1	2810	

* SEE DETAILS ON C-2.

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC
 DWIGHT WINTERLIN
 ROY CAHILL
 KRISTI WESTOBY
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED
 DISTRICT 02
 COUNTY Las, Plu Teh
 ROUTE Var
 POST MILES TOTAL PROJECT Var
 SHEET No. 6
 TOTAL SHEETS 22
 DWIGHT WINTERLIN 02-24-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 REGISTERED PROFESSIONAL ENGINEER
 DWIGHT WINTERLIN
 No. C68438
 Exp. 9-30-15
 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.

	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	
±	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	W
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	
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
02	Las, Plu, Teh	Var	Var	7	22

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
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July 19, 2013
PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 02-24-14

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.

REVISED STANDARD PLAN RSP A10B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Plu, Teh	Var	Var	8	22

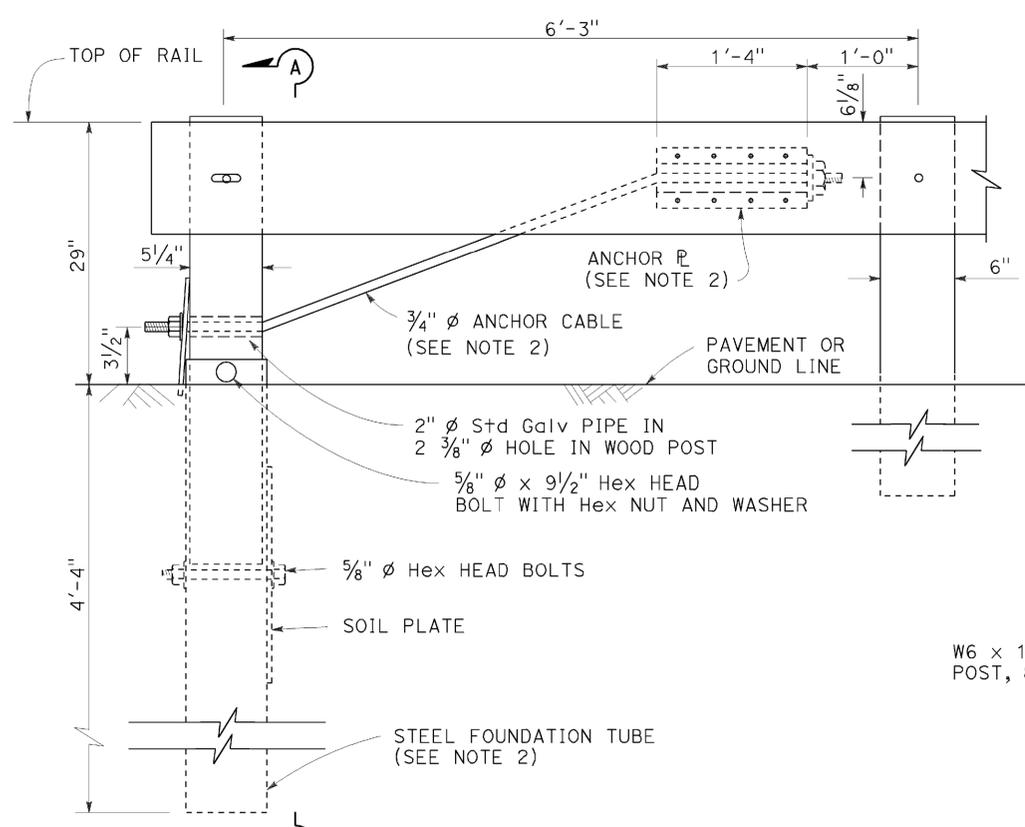
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

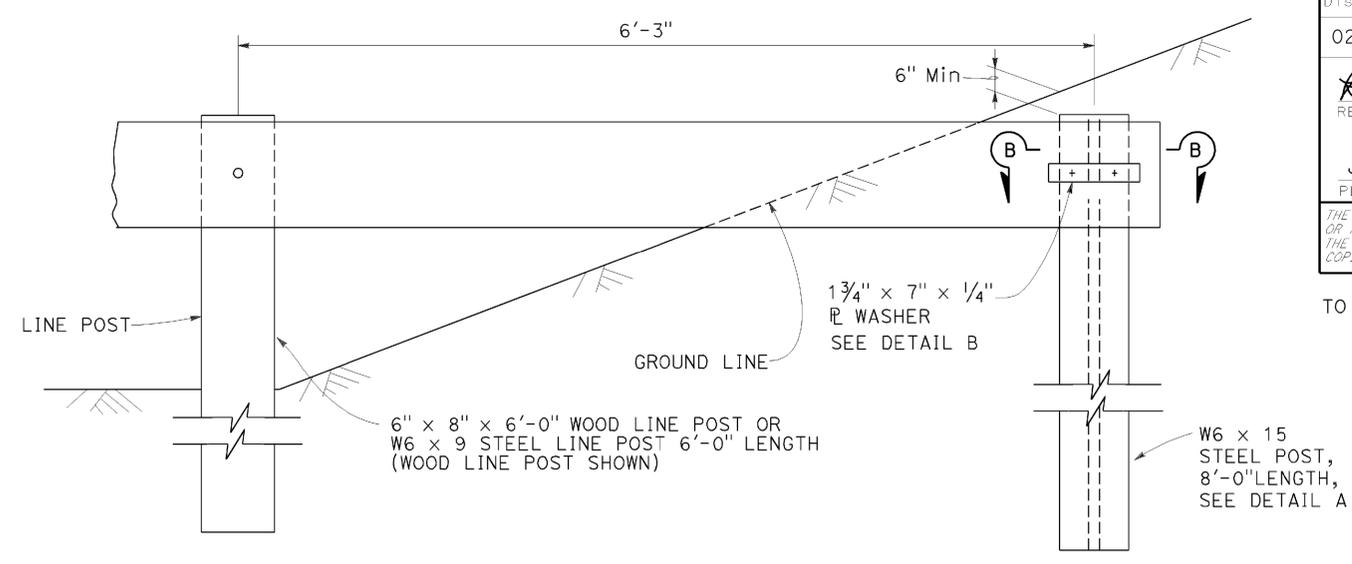
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TO ACCOMPANY PLANS DATED 02-24-14

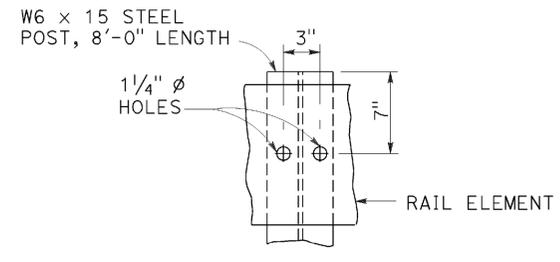
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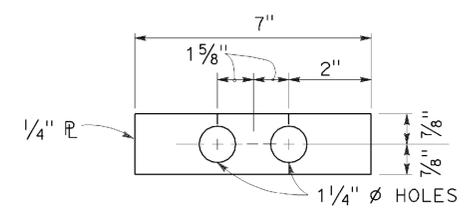
**ELEVATION
END ANCHOR
ASSEMBLY (TYPE SFT)**



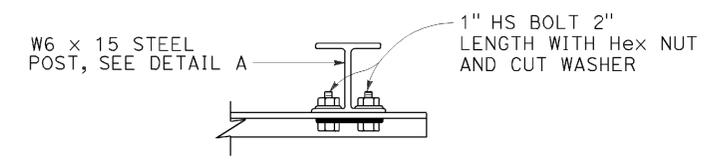
BURIED POST END ANCHOR



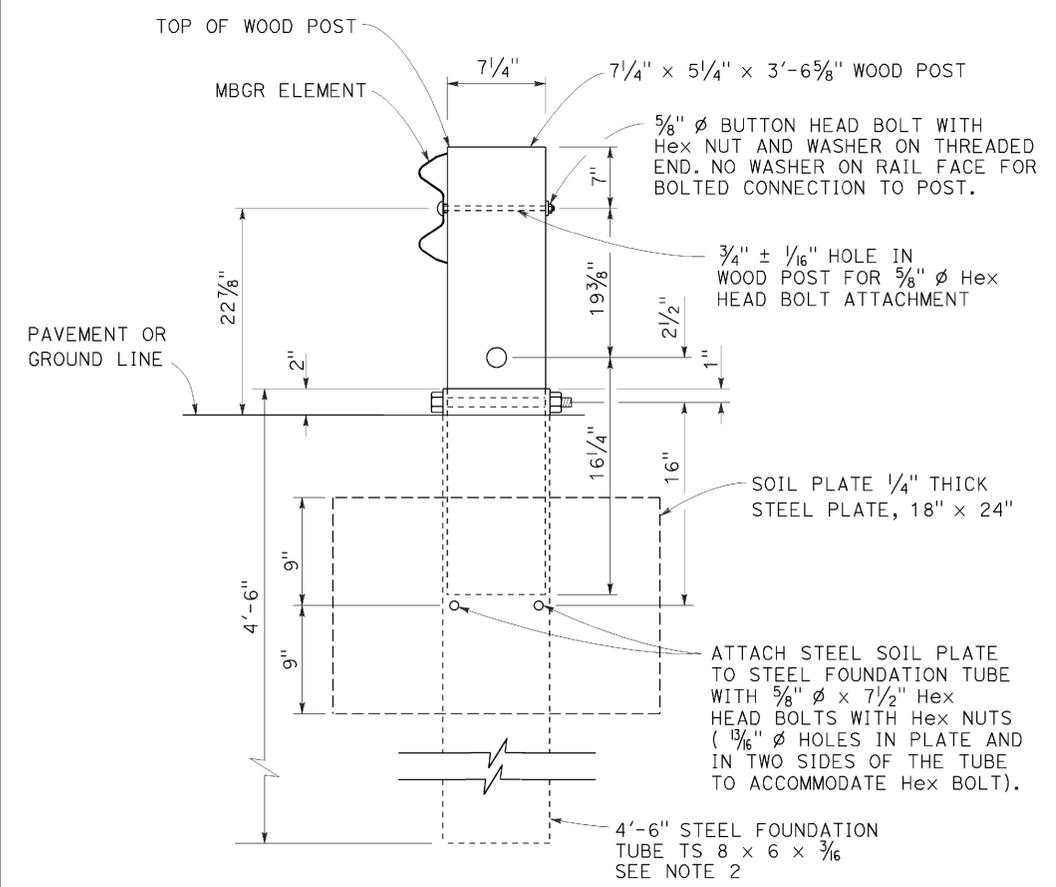
DETAIL A



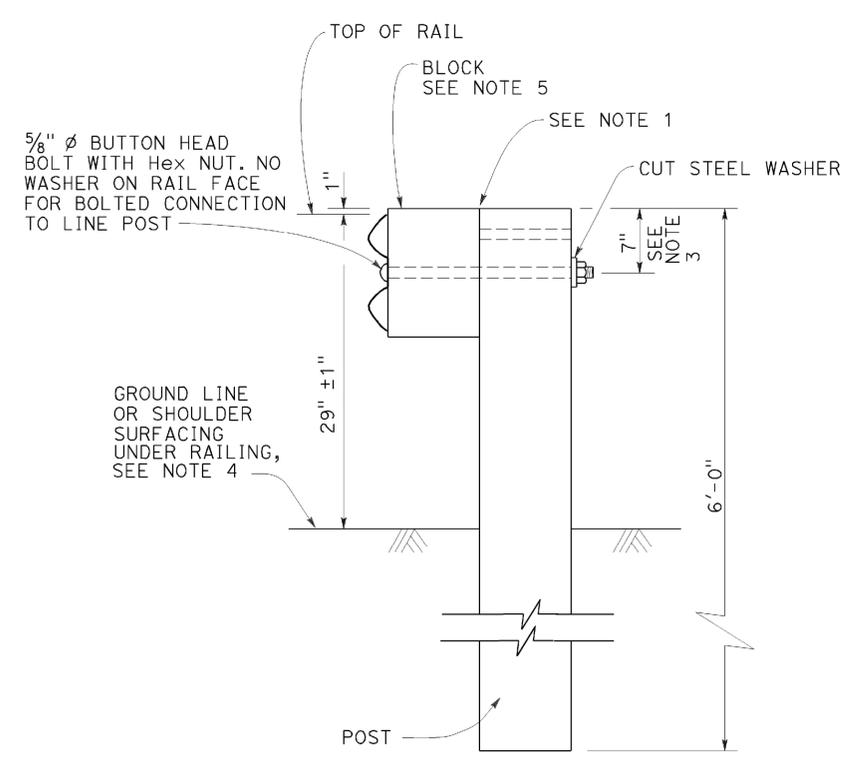
DETAIL B



SECTION B-B



SECTION A-A



**TYPICAL LINE
POST INSTALLATION**

NOTES:

1. For wood post and wood block, toenail with 2-16d Galv nails in top of block. For steel post and notched wood or plastic block, notched face of block faces steel post.
2. A 6'-0" Length steel foundation tube, TS 8 x 6 x 3/16, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" Hex head bolt and nut shall be installed in the hole in the 6'-0" length tube to keep the wood post from dropping into the tube.
3. To connect railing to 27" terminal system end treatment, transition the top of railing height at a ratio of 120:1 to terminal system end treatment height plus one 12'-6" standard railing section at the transitioned height for a horizontal connection to the end treatment.
4. Install posts in soil.
5. See Revised Standard Plans RSP A77N1 and RSP A77N2 for details.
6. Holes excavation in the slope to construct the buried post end anchor shall be backfilled with selected earth, placed in layers approximately 1'-0" thick. Each layer shall be moistened and thoroughly compacted.

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**METAL BEAM GUARD RAILING
RECONSTRUCT INSTALLATION**

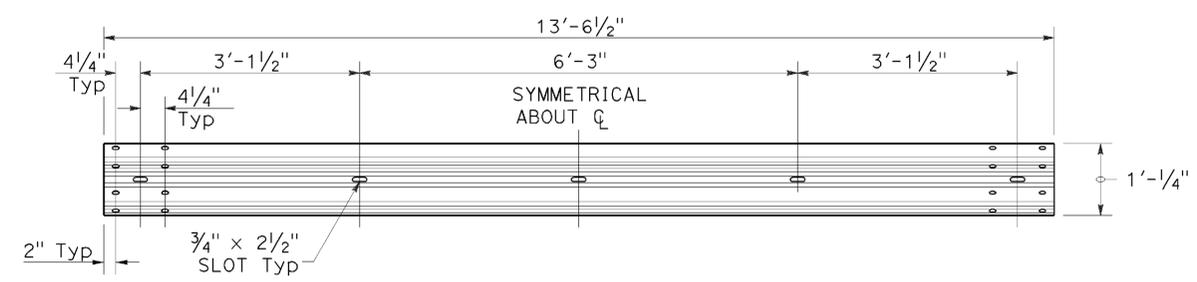
NO SCALE

RSP A77L3 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77L3



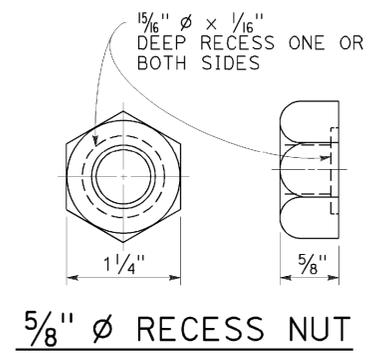
TO ACCOMPANY PLANS DATED 02-24-14



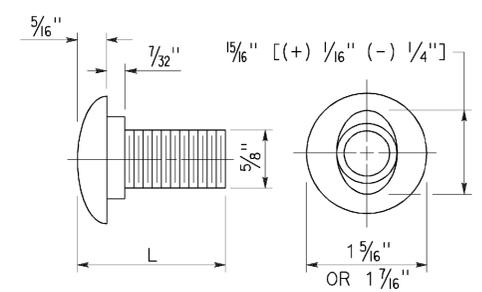
TYPICAL RAIL ELEMENT

NOTE:

1. Slotted holes for splice bolts to overlap ends of rail element.



5/8" Ø RECESS NUT

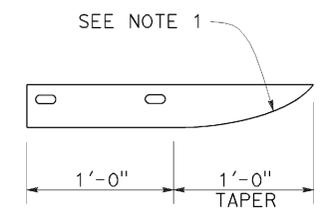


5/8" Ø BUTTON HEAD BOLT

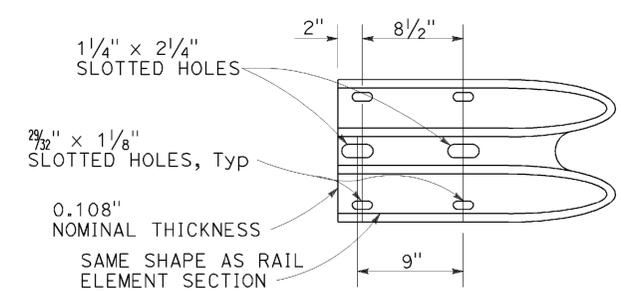
BUTTON HEAD BOLT

L	THREAD LENGTH
1 3/8"	FULL THREAD LENGTH
2"	FULL THREAD LENGTH
10"	4" Min THREAD LENGTH
18"	4" Min THREAD LENGTH
20"	4" Min THREAD LENGTH
22"	4" Min THREAD LENGTH
26"	4" Min THREAD LENGTH
36"	4" Min THREAD LENGTH
** 2 3/4"	2" Min THREAD LENGTH
** 19"	4" Min THREAD LENGTH

** For nested rail applications.



PLAN



**ELEVATION
END CAP
(TYPE A)**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**MIDWEST GUARDRAIL SYSTEM
STANDARD HARDWARE**

NO SCALE

RSP A77M1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77M1

2010 REVISED STANDARD PLAN RSP A77M1

DATE PLOTTED => 26-FEB-2014
TIME PLOTTED => 10:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Plu, Teh	Var	Var	10	22

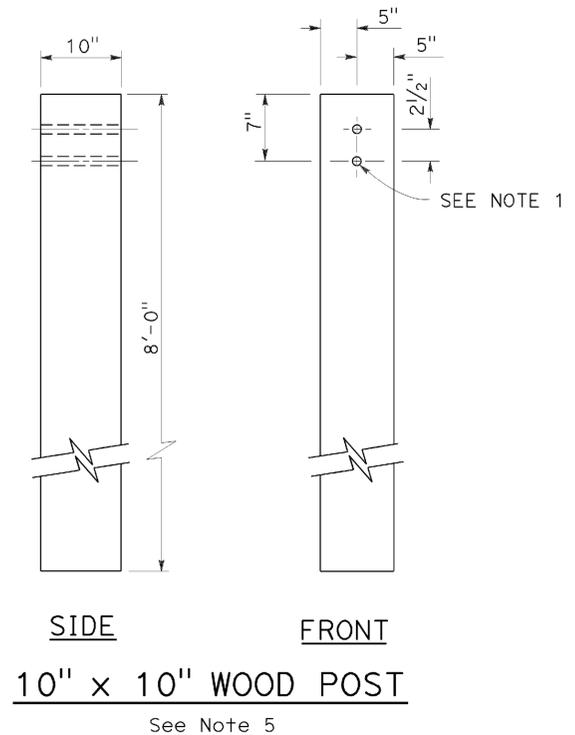
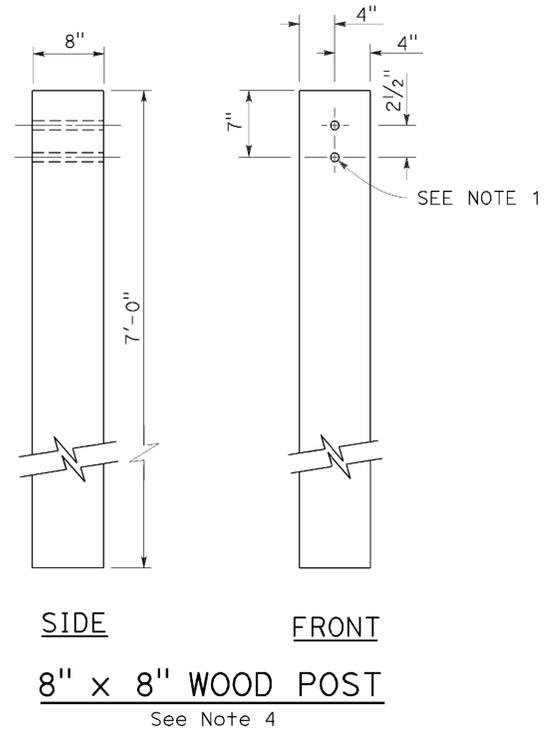
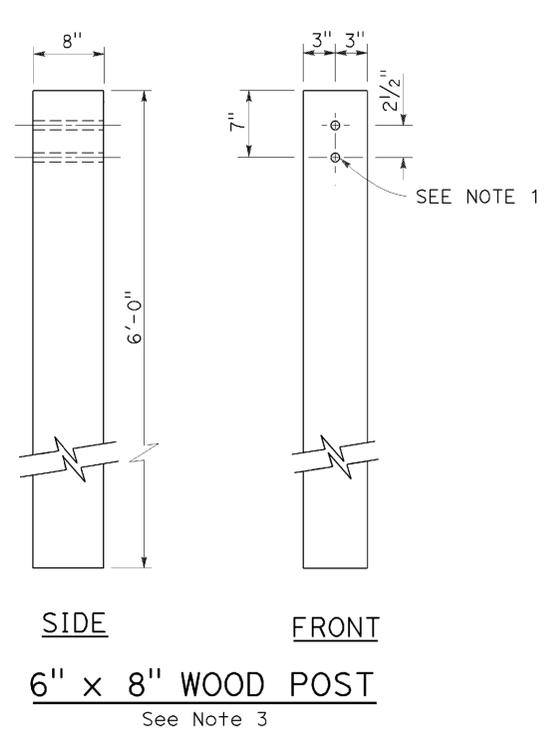
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

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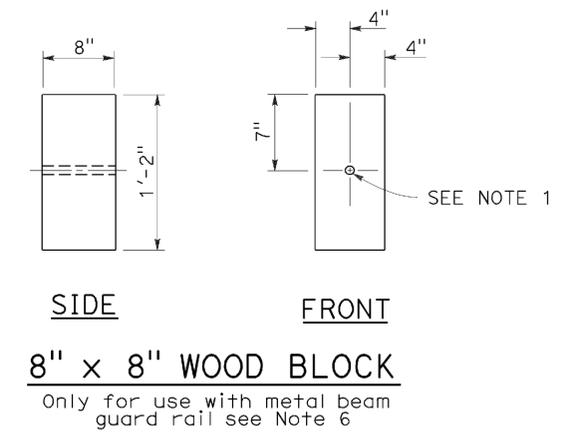
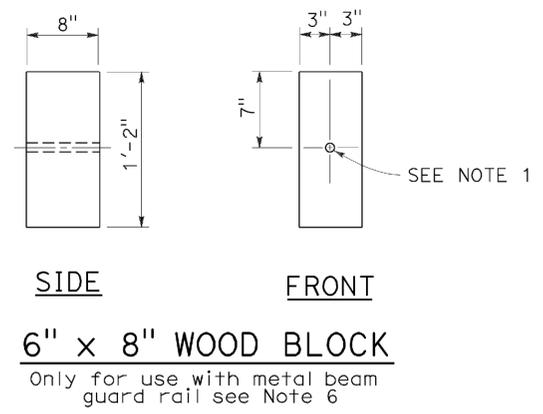
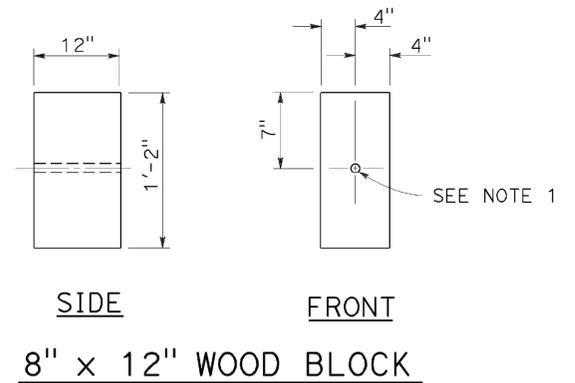
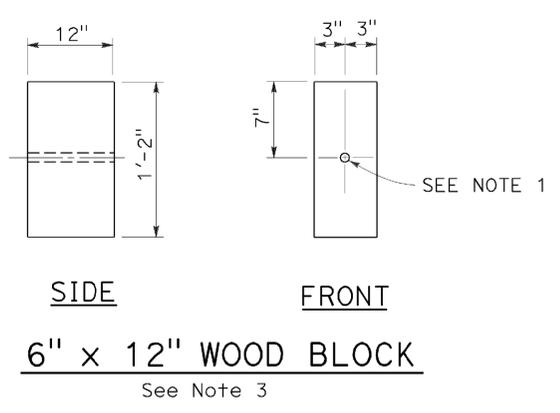
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 02-24-14



NOTES:

1. All holes in wood posts and blocks shall be 3/4" Dia ± 1/16".
2. Dimensions shown for wood post are nominal.
3. This post and block combination used for standard line post sections of MGS.
4. This post and 8" x 12" block combination used for line post sections of MGS on narrow roadways.
5. This post and 8" x 12" block combination is typically used where strengthened line post sections of MGS are warranted to shield fixed objects.
6. See Revised Standard Plan RSP A77L3 for use of 6" x 8" and 8" x 8" wood blocks.



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**MIDWEST GUARDRAIL SYSTEM
WOOD POST AND
WOOD BLOCK DETAILS**

NO SCALE

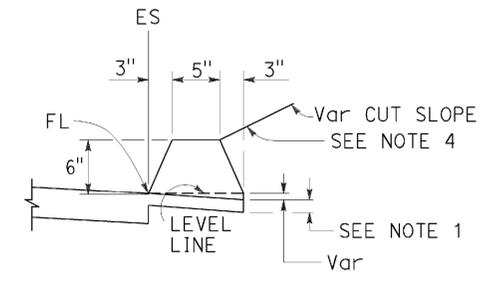
RSP A77N1 DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77N1

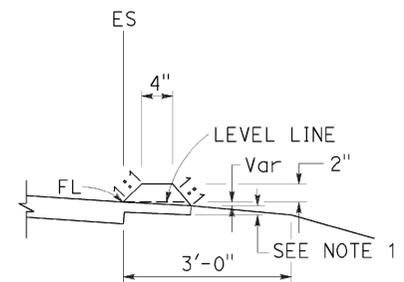
2010 REVISED STANDARD PLAN RSP A77N1

DATE PLOTTED => 28-FEB-2014
TIME PLOTTED => 10:45

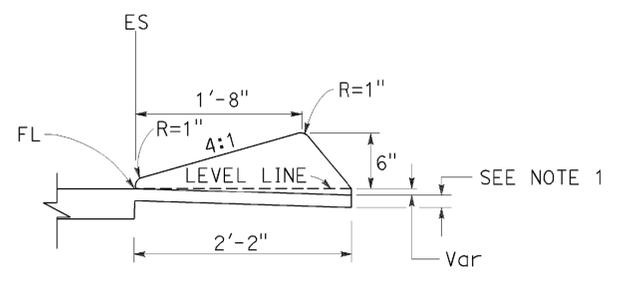
TO ACCOMPANY PLANS DATED 02-24-14



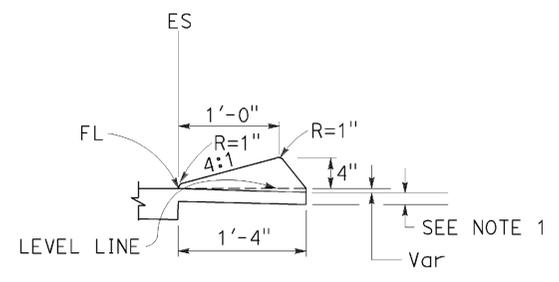
TYPE A
See Note 3



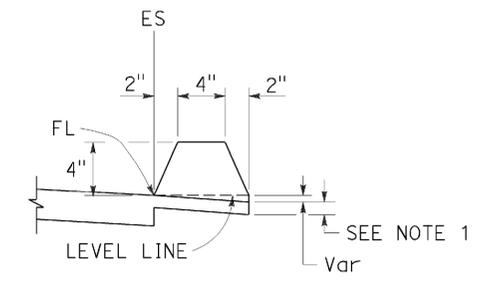
TYPE C



TYPE D

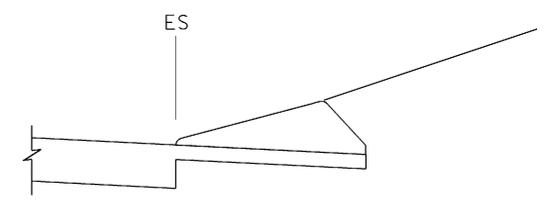


TYPE E

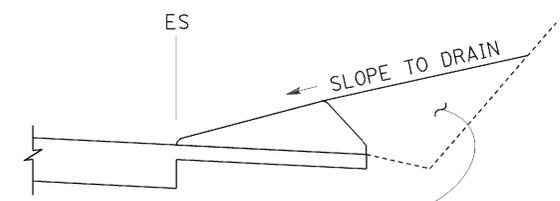


TYPE F
See Note 5

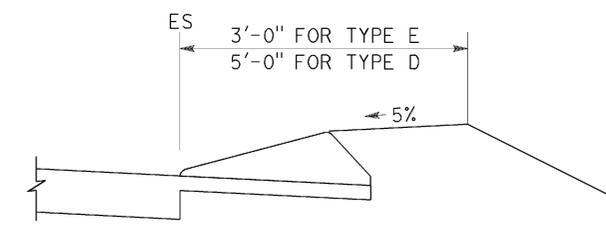
DIKES



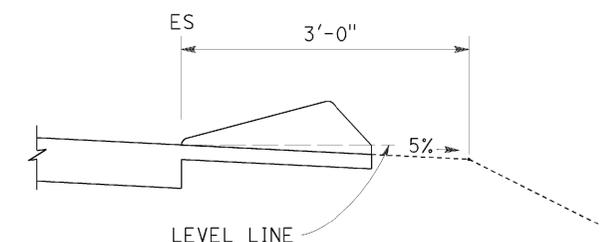
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

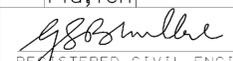
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES
NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	Las, Plu, Teh	Var	Var	12	22


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 02-24-14

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
mph	ft	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

NOTES:

See Revised Standard Plan RSP T9 for tables.

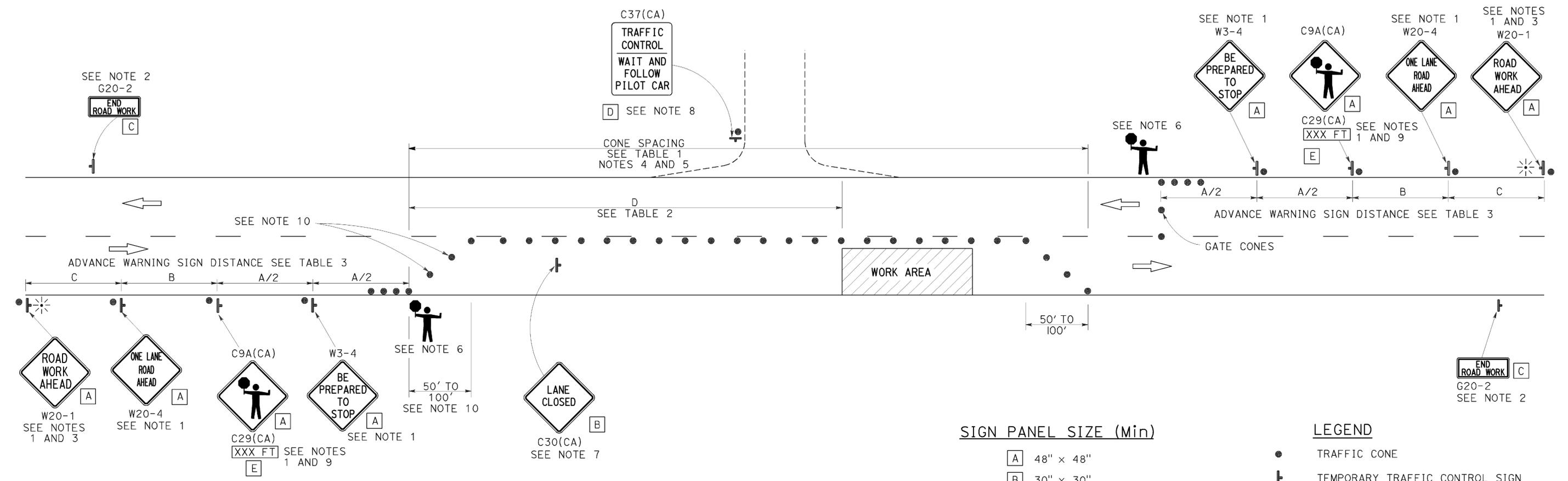
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as appropriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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 02-24-14



- 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.

SIGN PANEL SIZE (Min)

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

LEGEND

●	TRAFFIC CONE
⊥	TEMPORARY TRAFFIC CONTROL SIGN
⚡	PORTABLE FLASHING BEACON
👤	FLAGGER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
TWO LANE CONVENTIONAL
HIGHWAYS**

NO SCALE

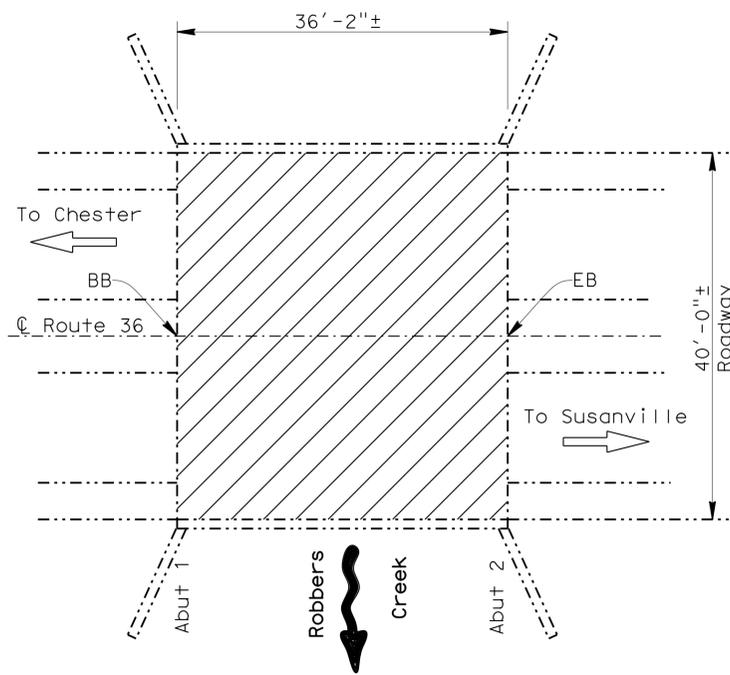
RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

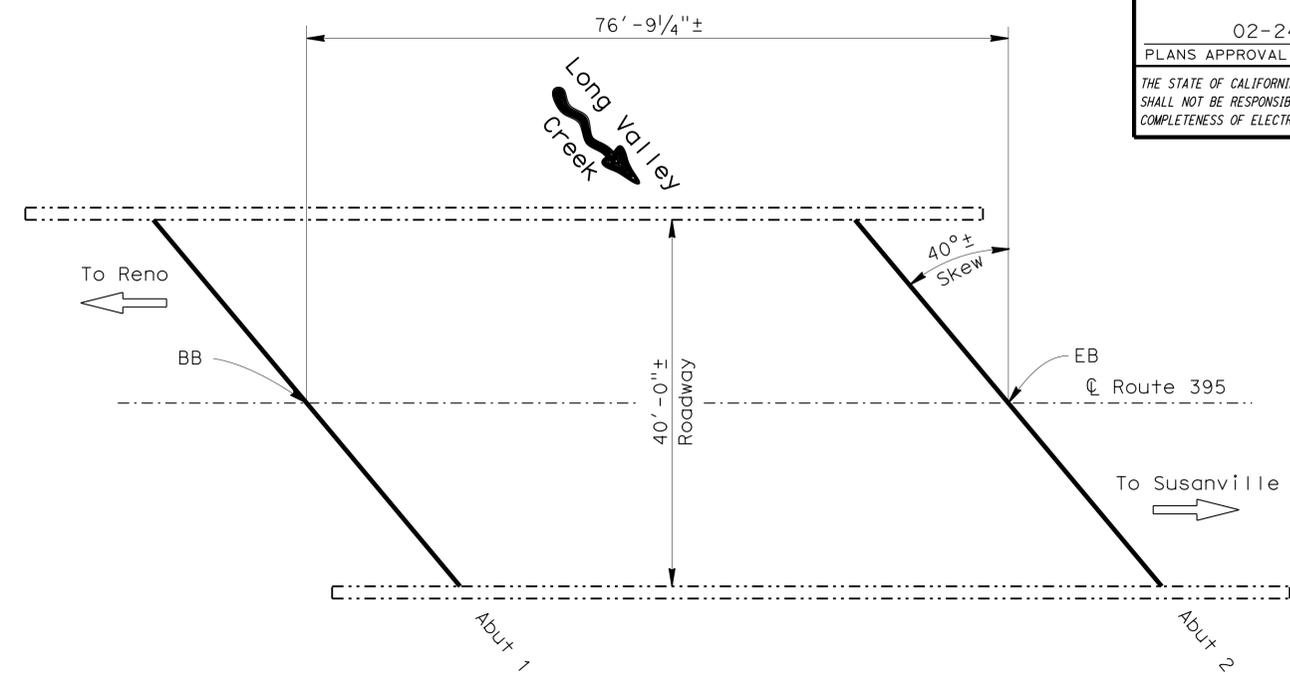
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS, TEH, PLU	Var	Var	14	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



ROBBERS CREEK
 BR NO. 07-0008, LAS, RTE 36, PM 3.15
 1" = 10'



LONG VALLEY CREEK
 BR NO. 07-0023, LAS, RTE 395, PM R15.87
 1" = 10'

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
- Indicates location of clean expansion joint and replace joint seal. For details, see "JOINT SEAL DETAILS NO. 2" sheet.
- ▨ Indicates limits of remove 1"± existing polyester concrete overlay, prepare concrete bridge deck surface and place 1" min polyester concrete overlay.

ROBBERS CREEK BRIDGE NO 07-0008

LONG VALLEY CREEK BRIDGE NO 07-0023

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	1,450	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	1,450	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	145	CF
PLACE POLYESTER CONCRETE OVERLAY	1,450	SQFT

QUANTITIES

CLEAN EXPANSION JOINT	106	LF
BONDED JOINT SEAL (MR 1/2")	106	LF

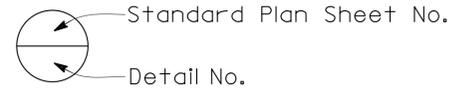
INDEX TO PLANS

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 NO. 1
8	JOINT SEAL DETAILS NO. 2
9	THRIE BEAM CONNECTION DETAILS

STANDARD PLANS DATED MAY 2010

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

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



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USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 32, 36, 70, 89 & 395 BRIDGES			
	DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY Sirisha Nelapatla	CHECKED Sirisha Nelapatla			POST MILE				
	QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang					VARIES		GENERAL PLAN NO. 1			
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0213000096 1 CONTRACT NUMBER: 02-4F7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 9

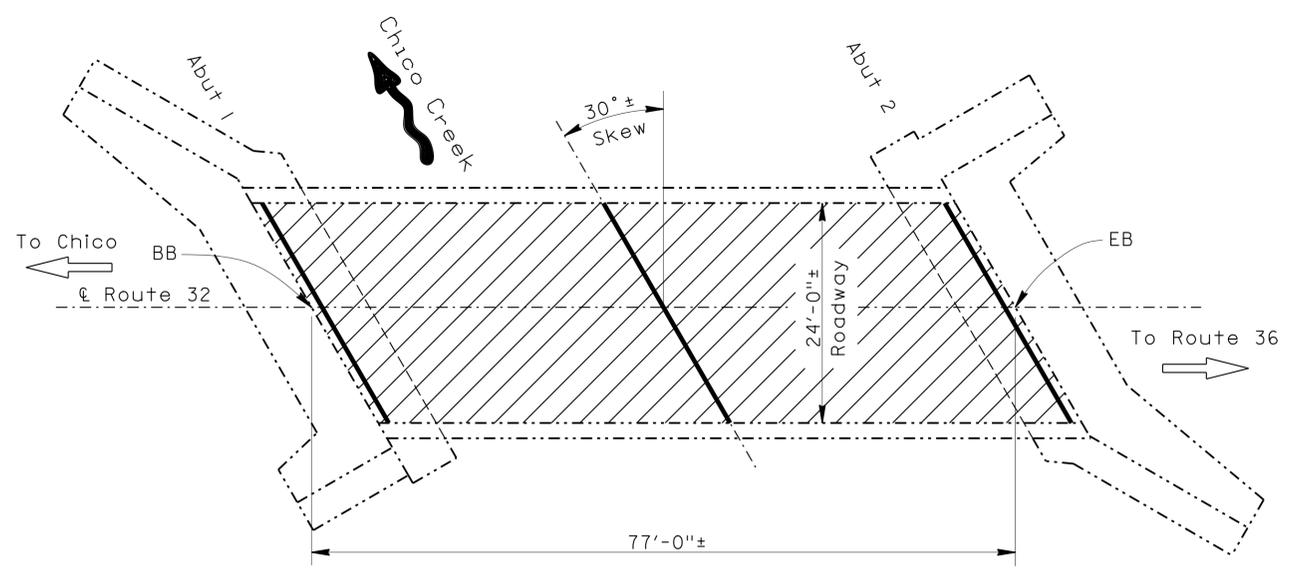
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	15	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

CHICO CREEK BRIDGE NO 08-0067

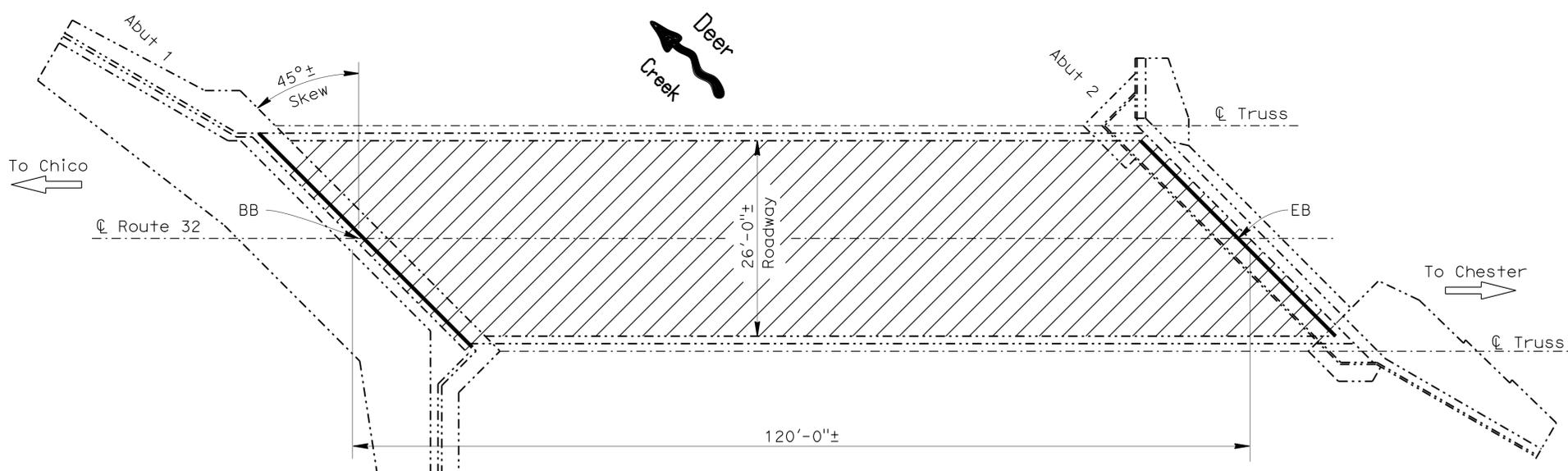
QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	1,850	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	1,850	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	185	CF
PLACE POLYESTER CONCRETE OVERLAY	1,850	SQFT
CLEAN EXPANSION JOINT	84	LF
JOINT SEAL (MR 1/2")	84	LF



CHICO CREEK
BR NO. 08-0067, TEH, RTE 32, PM 1.55
1"=20'

- NOTES: (APPLY TO THIS SHEET ONLY)
- Indicates existing structure.
 - Indicates location of clean expansion joint and replace joint seal. For details, see "JOINT SEAL DETAILS NO. 2" sheet.
 - ▨ Indicates limits of remove 1"± existing polyester concrete overlay, prepare concrete bridge deck surface and place 1" min polyester concrete overlay.



DEER CREEK
BR NO. 08-0068, TEH, RTE 32, PM 12.91
1"=10'

DEER CREEK BRIDGE NO 08-0068

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	3,120	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	3,120	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	312	CF
PLACE POLYESTER CONCRETE OVERLAY	3,120	SQFT
CLEAN EXPANSION JOINT	76	LF
BONDED JOINT SEAL (MR 1")	76	LF

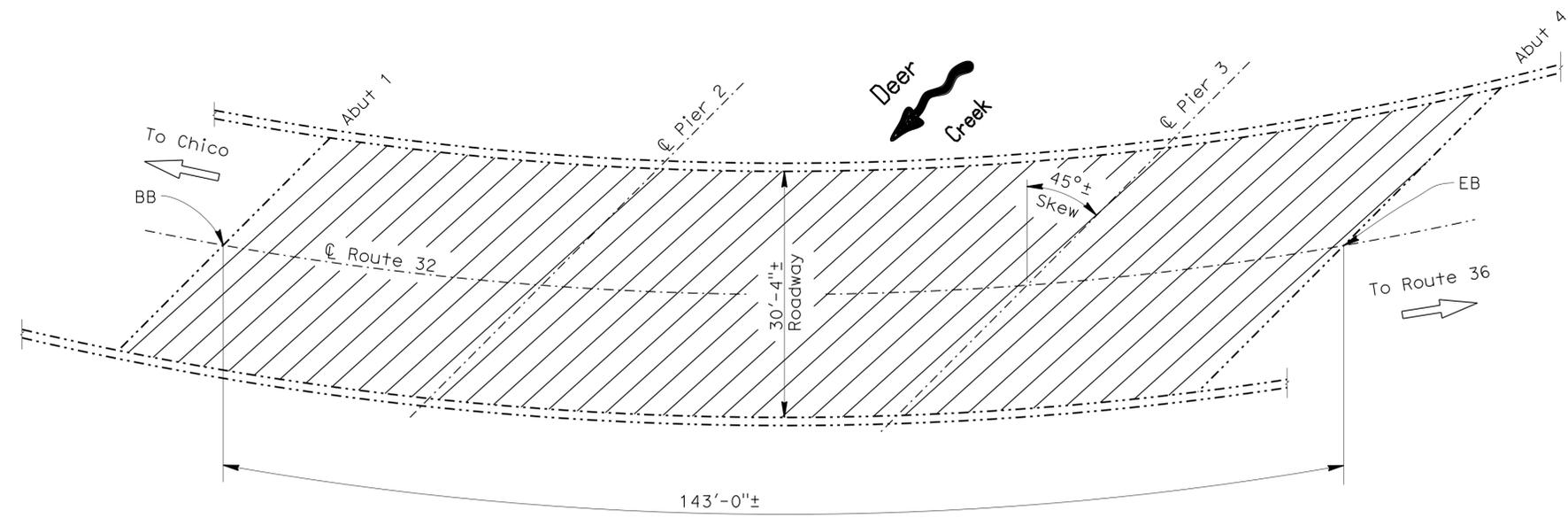
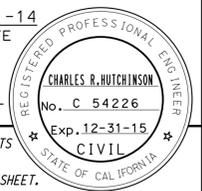
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

	DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 32, 36, 70, 89 & 395 BRIDGES GENERAL PLAN NO. 2			
	DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY Sirisha Nelapatla	PLANS AND SPECIFICATIONS COMPARED			POST MILE				
	QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang			SIRISHA NELAPATLA			VARIES				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)								ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0213000096 1 CONTRACT NUMBER: 02-4F7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 2 OF 9

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USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	16	22
<i>Charles R. Hutchinson</i> 02-11-14 REGISTERED CIVIL ENGINEER DATE			02-24-14 PLANS APPROVAL DATE		
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.					



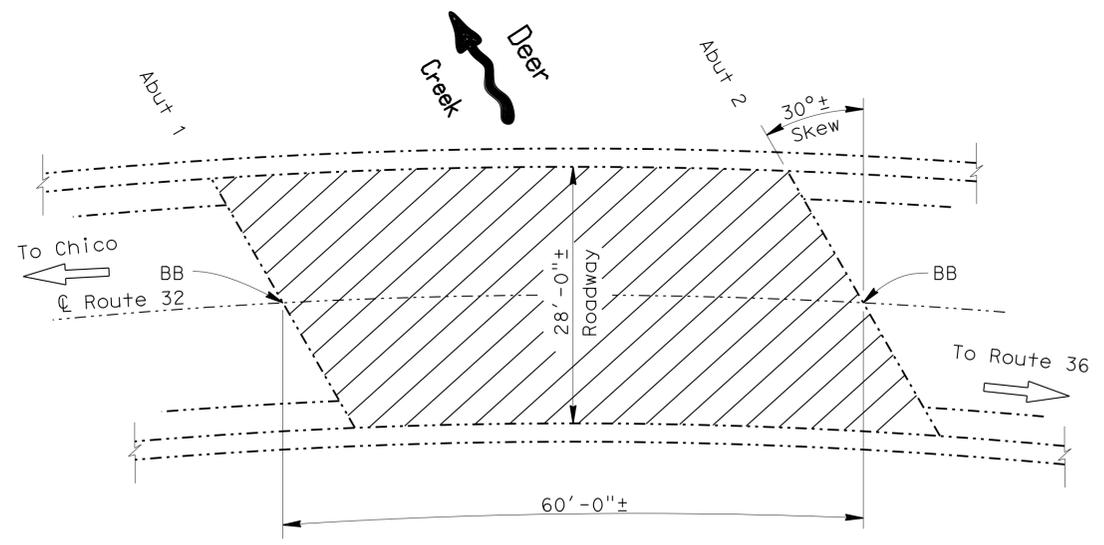
DEER CREEK
 BR NO. 08-0069, TEH, RTE 32, PM 16.85
 1"=10'

- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates existing structure.
 - Indicates limits of remove 1"± existing polyester concrete overlay, prepare concrete bridge deck surface and place 1" min polyester concrete overlay.

DEER CREEK BRIDGE NO 08-0069

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	4,390	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	4,390	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	439	CF
PLACE POLYESTER CONCRETE OVERLAY	4,390	SQFT



DEER CREEK
 BR NO. 08-0070, TEH, RTE 32, PM 17.45
 1"=10'

DEER CREEK BRIDGE NO 08-0070

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	1,680	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	1,680	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	168	CF
PLACE POLYESTER CONCRETE OVERLAY	1,680	SQFT

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

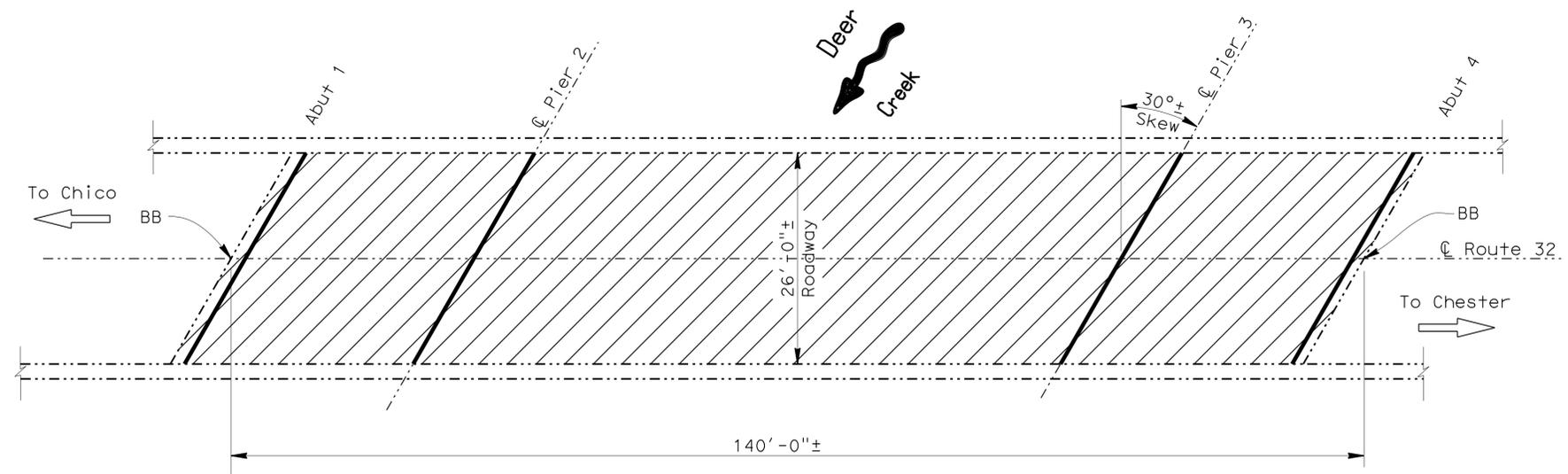
 DESIGN ENGINEER 02-11-14	DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 32, 36, 70, 89 & 395 BRIDGES GENERAL PLAN NO. 3			
	DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY Sirisha Nelapatla	CHECKED Sirisha Nelapatla			VARIOUS				
	QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang						VARIES				
STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)							ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0213000096 1	CONTRACT NUMBER: 02-4F7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 3 OF 9

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USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	17	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.



- NOTES:** (APPLY TO THIS SHEET ONLY)
- Indicates existing structure.
 - Indicates location of clean expansion joint and replace joint seal. For details, see "JOINT SEAL DETAILS NO. 2" sheet.
 - ▨ Indicates limits of remove 1"± existing polyester concrete overlay, prepare concrete bridge deck surface and place 1" min polyester concrete overlay.

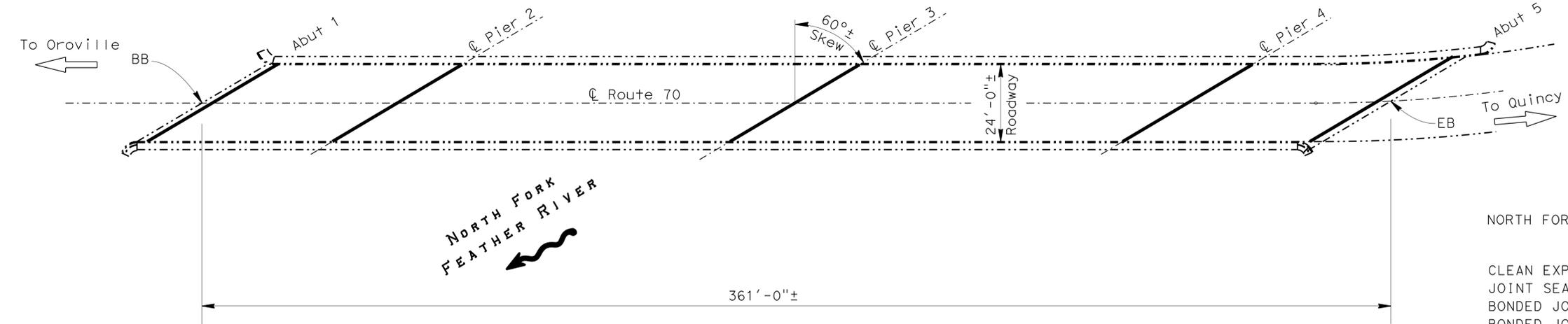
DEER CREEK BRIDGE NO 08-0071

DEER CREEK

BR NO. 08-0071, TEH, RTE 32, PM 21.45
1"=10'

QUANTITIES

REMOVE POLYESTER CONCRETE OVERLAY	3,640	SQFT
PREPARE CONCRETE BRIDGE DECK SURFACE	3,640	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	364	CF
PLACE POLYESTER CONCRETE OVERLAY	3,640	SQFT
CLEAN EXPANSION JOINT	124	LF
JOINT SEAL (MR 1/2")	62	LF
BONDED JOINT SEAL (MR 1")	62	LF



NORTH FORK FEATHER RIVER

BR NO. 09-0003, PLU, RTE 70, PM 5.58
1"=20'

NORTH FORK FEATHER RIVER BRIDGE NO 09-0003

QUANTITIES

CLEAN EXPANSION JOINT	245	LF
JOINT SEAL (MR 1/2")	98	LF
BONDED JOINT SEAL (MR 1")	98	LF
BONDED JOINT SEAL (MR 1 1/2")	49	LF

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 Michael J. Lee 02-11-14 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson
	DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY Sirisha Nelapatla	PLANS AND SPECIFICATIONS COMPARED Sirisha Nelapatla
	QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang			

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIOUS

ROUTE 32, 36, 70, 89 & 395 BRIDGES
GENERAL PLAN NO. 4

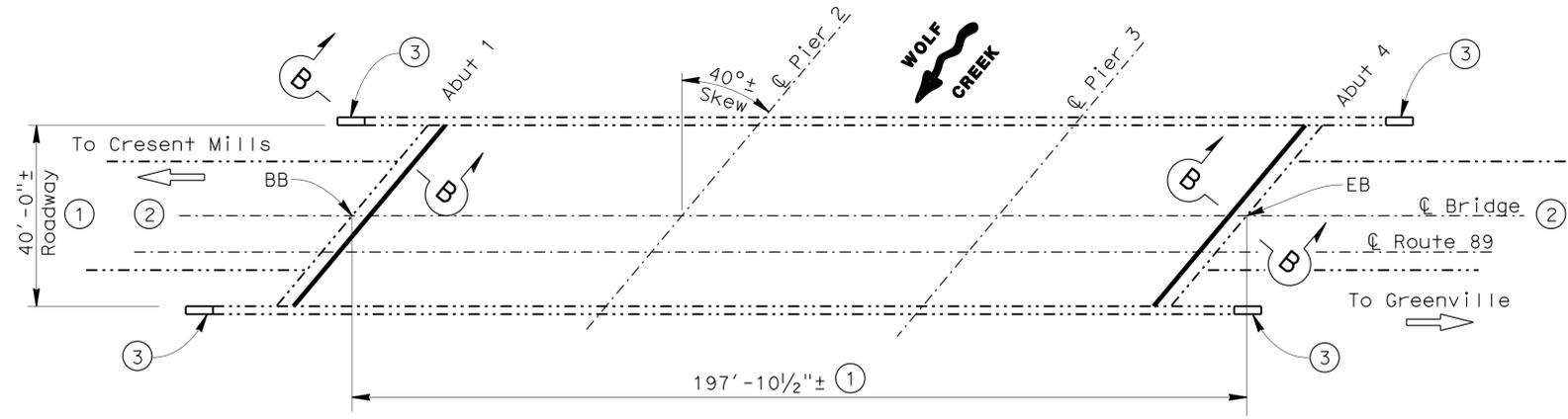
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USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	19	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
 CHARLES R. HUTCHINSON
 No. C 54226
 Exp. 12-31-15
 CIVIL
 STATE OF CALIFORNIA



WOLF CREEK BRIDGE NO 09-0040

WOLF CREEK
 BR NO. 09-0040, PLU, RTE 89, PM 20.01
 1"=20'

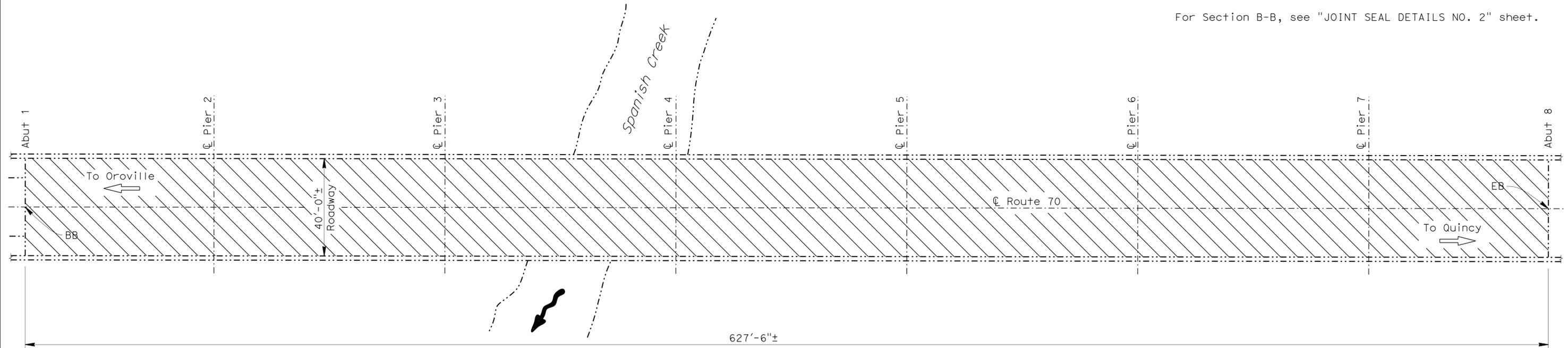


QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	7,920	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	792	CF
PLACE POLYESTER CONCRETE OVERLAY	7,920	SQFT
CLEAN EXPANSION JOINT	104	LF
BONDED JOINT SEAL (MR 1")	104	LF
CONCRETE BARRIER (TRANSITION)	25	LF

NOTES: (APPLY TO THIS SHEET ONLY)

- Indicates existing structure.
 - Indicates location of clean expansion joint and replace joint seal. For details, see "JOINT SEAL DETAILS NO. 2" sheet.
 - ① Indicates limits of prepare concrete bridge deck surface and place 1" min depth polyester concrete overlay.
 - ② See "ROAD PLANS" for conforms details.
 - ③ Indicates location of construct "Concrete Barrier (transition)". See "THRIE BEAM CONNECTION DETAILS" sheet.
 - Indicates limits of prepare bridge deck, and treat bridge deck with high molecular weight methacrylate.
- For Section B-B, see "JOINT SEAL DETAILS NO. 2" sheet.



SPANISH CREEK
 BR NO. 09-0077, PLU, RTE 70, PM 35.32
 1"=20'



SPANISH CREEK BRIDGE NO 09-0077

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	25,100	SQFT
TREAT BRIDGE DECK	25,100	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	280	GAL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 DESIGN ENGINEER	DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	LAYOUT	BY Trung Lam	CHECKED Charles Hutchinson	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 32, 36, 70, 89 & 395 BRIDGES GENERAL PLAN NO. 6	
	DETAILS	BY Trung Lam	CHECKED Hubert Dang	SPECIFICATIONS	BY Sirisha Nelapatla	PLANS AND SPECIFICATIONS COMPARED			SIRISHA NELAPATLA		VARIOUS
	QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang								VARIES

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 0213000096 1	CONTRACT NUMBER: 02-4F7001	DISREGARD PRINTS BEARING EARLIER REVISION DATES
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REVISION DATES: 01-13-14, 02-11-14, 02-20-14, 01-08-14

SHEET 6 OF 9

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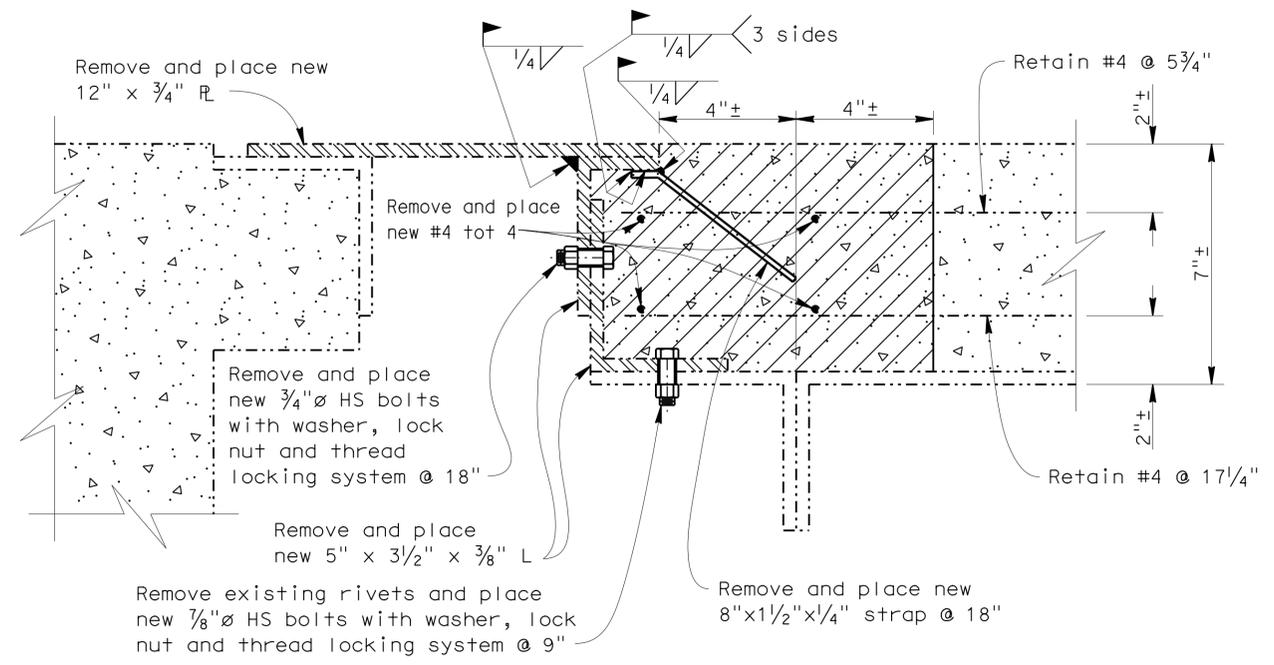
USERNAME => 404852 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	20	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

Note:

- Indicates limits of bridge removal (portion) and place structural concrete, bridge.
- Indicates existing steel plate and angle members.



SECTION A-A AT ABUTMENT 1

BR NO. 09-0004
NO SCALE

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1996 AASHTO with Interims and Revisions by CALTRANS)

LIVE LOADING: HS20-44 and alternative and permit design load.

REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3,600$ psi
 $n = 8$

**TEMPORARY DECK PLATE
DESIGN LOADING**

MOMENT DEMAND/FOOT (kip-ft/ft)	ANCHOR BOLT SHEAR/FOOT (kip/ft)	ANCHOR BOLT TENSION (kip)
8.7	8.0	10.4

Plate deflection shall not exceed $s/300$ (s = span of plate). Maximum anchor bolt spacing = 0'-9".

JOINT SEAL TABLE

BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (IN)	APPROXIMATE LENGTH (FT)	EXISTING WATERSTOP	APPROXIMATE DEPTH TO CLEAN EXPANSION JOINT (IN)
LONG VALLEY OVERFLOW CREEK	07-0023	Abut 1	BW	* 1/2	53	No
		Abut 2	BW	* 1/2	53	No
CHICO CREEK	08-0067	Abut 1	BW	1/2	28	No
		Bent	H	1/2	28	No
DEER CREEK	08-0068	Abut 1	BW	* 1	38	No
		Abut 2	BW	* 1	38	No
DEER CREEK	08-0071	Abut 1	BW	1/2	31	No
		Pier 2	H	* 1	31	Yes
		Pier 3	H	* 1	31	Yes
NORTH FORK FEATHER RIVER	09-0003	Abut 4	BW	1/2	31	No
		Abut 1	BW	1/2	49	Yes
		Pier 2	H	* 1	49	Yes
		Pier 3	H	* 1 1/2	49	Yes
NORTH FORK FEATHER RIVER	09-0004	Abut 1	SP	** 2	25	No
		Abut 5	BW	1/2	49	Yes
SPANISH CREEK	09-0018	Abut 1	BW	* 1 1/2	44	No
		Abut 4	BW	* 1 1/2	44	No
WOLF CREEK	09-0040	Abut 1	BW	* 1	52	No
		Abut 4	BW	* 1	52	No

LEGEND:

- BW = Back Wall
- PN = Paving Notch
- H = Hinge
- * = Bonded Joint Seal
- ** = Information only
- SP = Sliding Plate

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang
DETAILS	BY Trung Lam	CHECKED Hubert Dang
QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

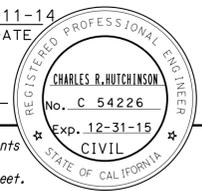
DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES
ROUTE 32, 36, 70, 89 & 395 BRIDGES
JOINT SEAL DETAILS NO. 1

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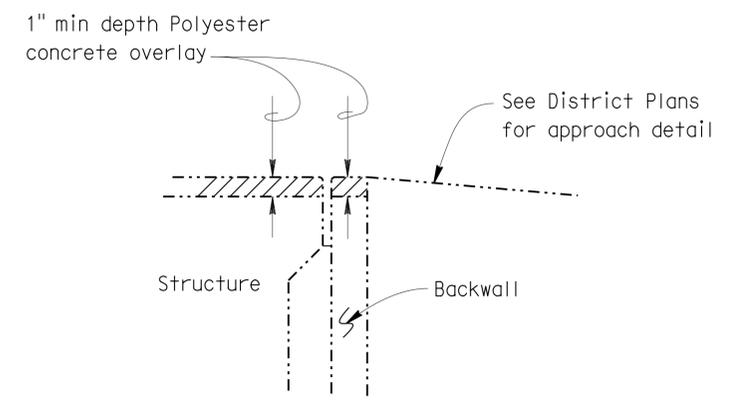
USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	21	22
<i>Charles R. Hutchinson</i> REGISTERED CIVIL ENGINEER			02-11-14 DATE		
			02-24-14 PLANS APPROVAL DATE		
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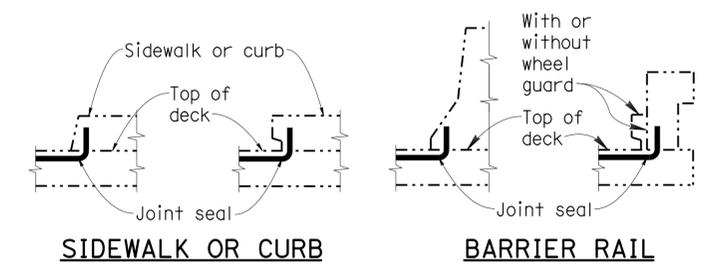


The following note applies to **JOINT SEAL TYPE A**:
 Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint. For details not shown see **B6-21**

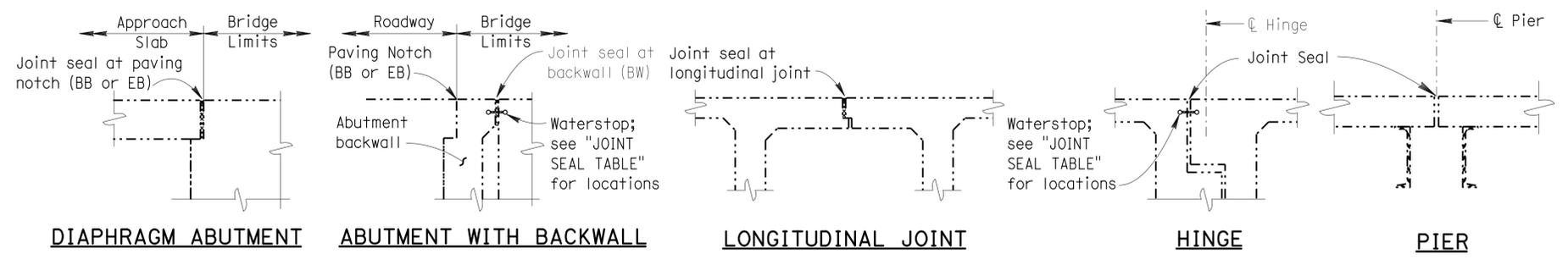
- The following notes apply to **JOINT SEAL TYPE B**:
- 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.
 - 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be calculated by the Engineer.
 - 3) W1 shall be the smaller of the values determined as follows:
 - A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.
 - B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3 psi.
 - 4) 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.
 - 5) For details not shown see **B6-21**



SECTION B-B AT ABUTMENTS 1 & 4
 BR NO. 09-0040
 NO SCALE



JOINT SEAL AT LOW SIDE OF DECK
 Details shown for illustration purposes only. For use only where deck joint matches the barrier rail joint.
 NO SCALE



JOINT SEAL LOCATION
 NO SCALE

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang
DETAILS	BY Trung Lam	CHECKED Hubert Dang
QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	VARIOUS
POST MILE	VARIES

ROUTE 32, 36, 70, 89 & 395 BRIDGES
JOINT SEAL DETAILS NO. 2

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NOTES:

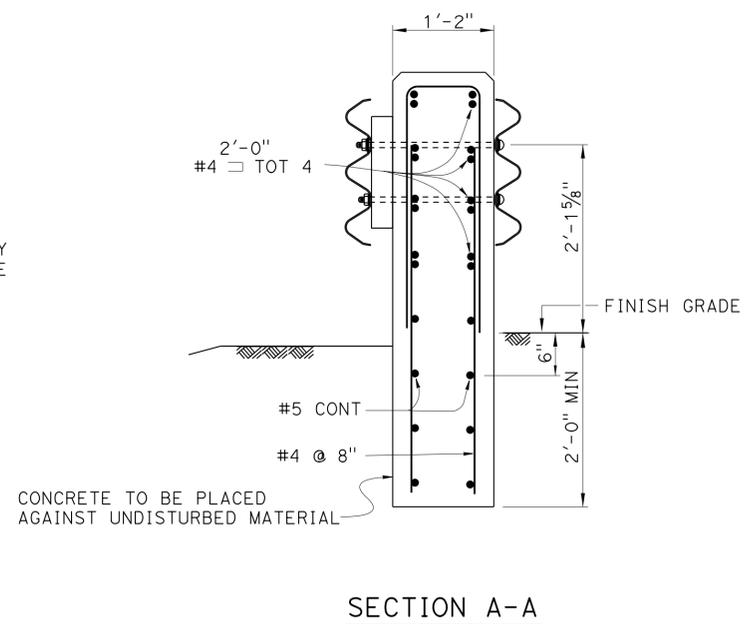
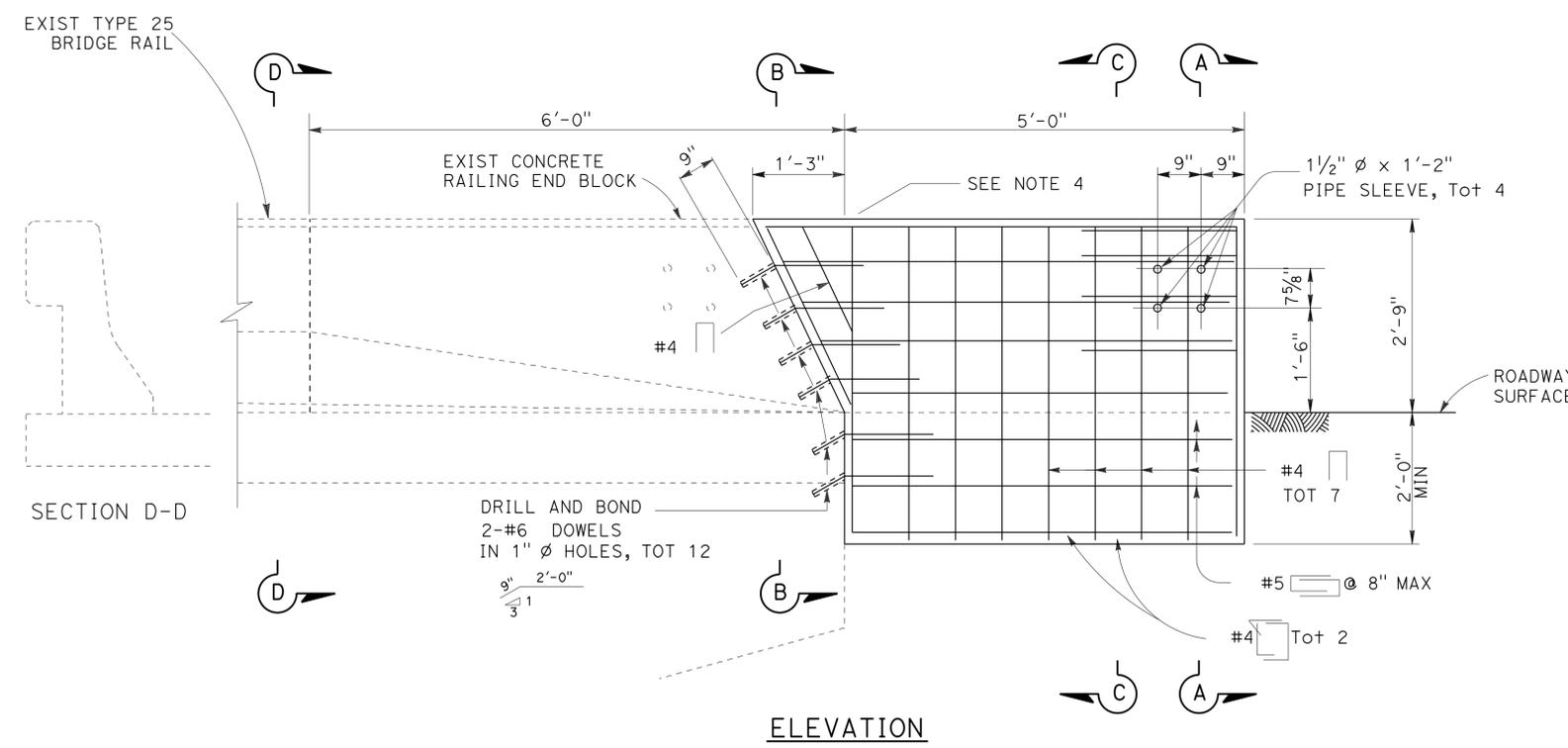
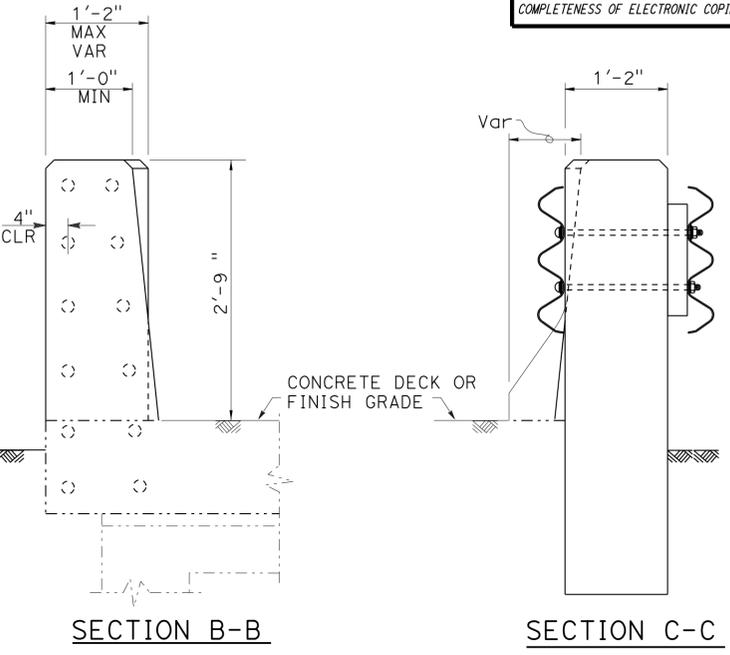
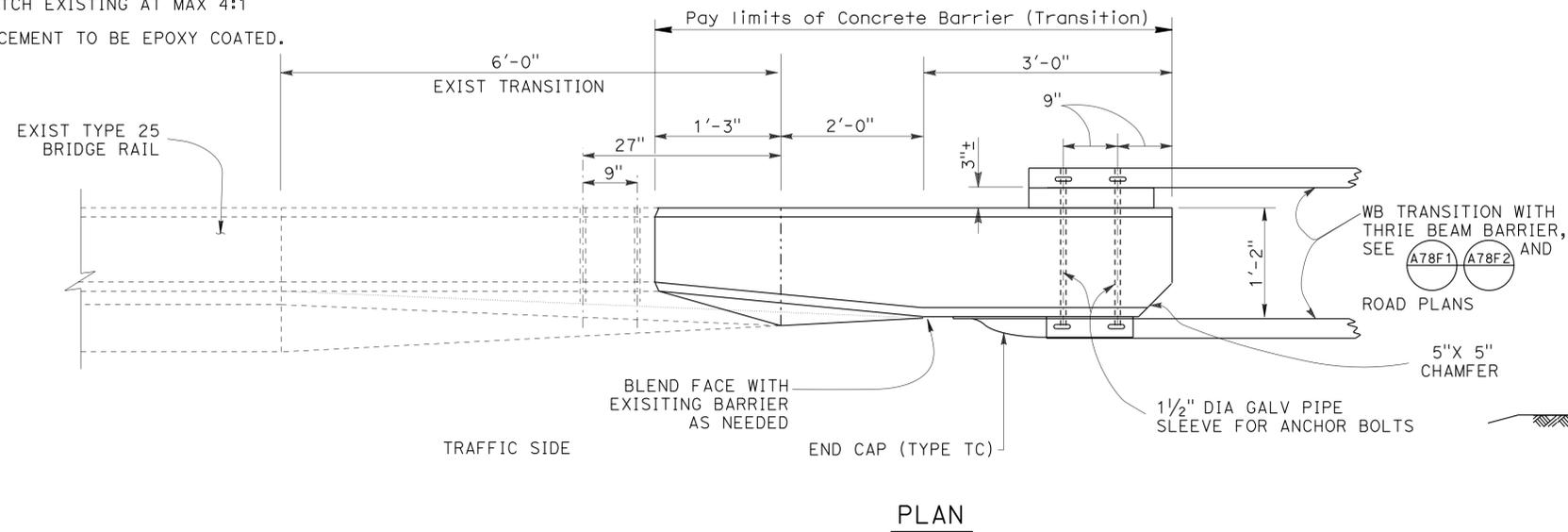
- FOR WB CONNECTION DETAILS NOT SHOWN, SEE SHEET C-2.
- DEPENDENT DIMENSIONS WILL BE VERIFIED IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING PAVED CONDITIONS.
- ALL PLATES AND BOLTS ARE GALVANIZED.
- TAPER TO MATCH EXISTING AT MAX 4:1
- ALL REINFORCEMENT TO BE EPOXY COATED.

LEGEND:

- INDICATES EXISTING STRUCTURE
- INDICATES NEW CONSTRUCTION

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
02	LAS,TEH,PLU	Var	Var	22	22

Charles R. Hutchinson 02-11-14
 REGISTERED CIVIL ENGINEER DATE
 02-24-14
 PLANS APPROVAL DATE
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CONCRETE BARRIER (TRANSITION) DETAIL

3/4" = 1'-0"
TRANSITION BLOCK TYPE 25

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note:
Existing utility facilities are not shown on these plans.

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USERNAME => s115152 DATE PLOTTED => 28-FEB-2014 TIME PLOTTED => 10:45

DESIGN	BY Charles Hutchinson	CHECKED Hubert Dang	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 32, 36, 70, 89 & 395 BRIDGES THRIE BEAM CONNECTION DETAILS
DETAILS	BY Trung Lam	CHECKED Hubert Dang			VARIOUS	
QUANTITIES	BY Charles Hutchinson	CHECKED Hubert Dang			VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN & DETAIL SHEET (ENGLISH) (REV. 10/17/07) ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3 UNIT: 3488 PROJECT NUMBER & PHASE: 0213000096 1 CONTRACT NUMBER: 02-4F7001 DISREGARD PRINTS BEARING EARLIER REVISION DATES 01-13-14 02-11-14 02-20-14 SHEET 9 OF 9