

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION DETAILS
3-4	CONSTRUCTION AREA SIGNS
5-6	DETOUR PLANS
7-8	PAVEMENT DELINEATION QUANTITIES
9-13	REVISED AND NEW STANDARD PLANS

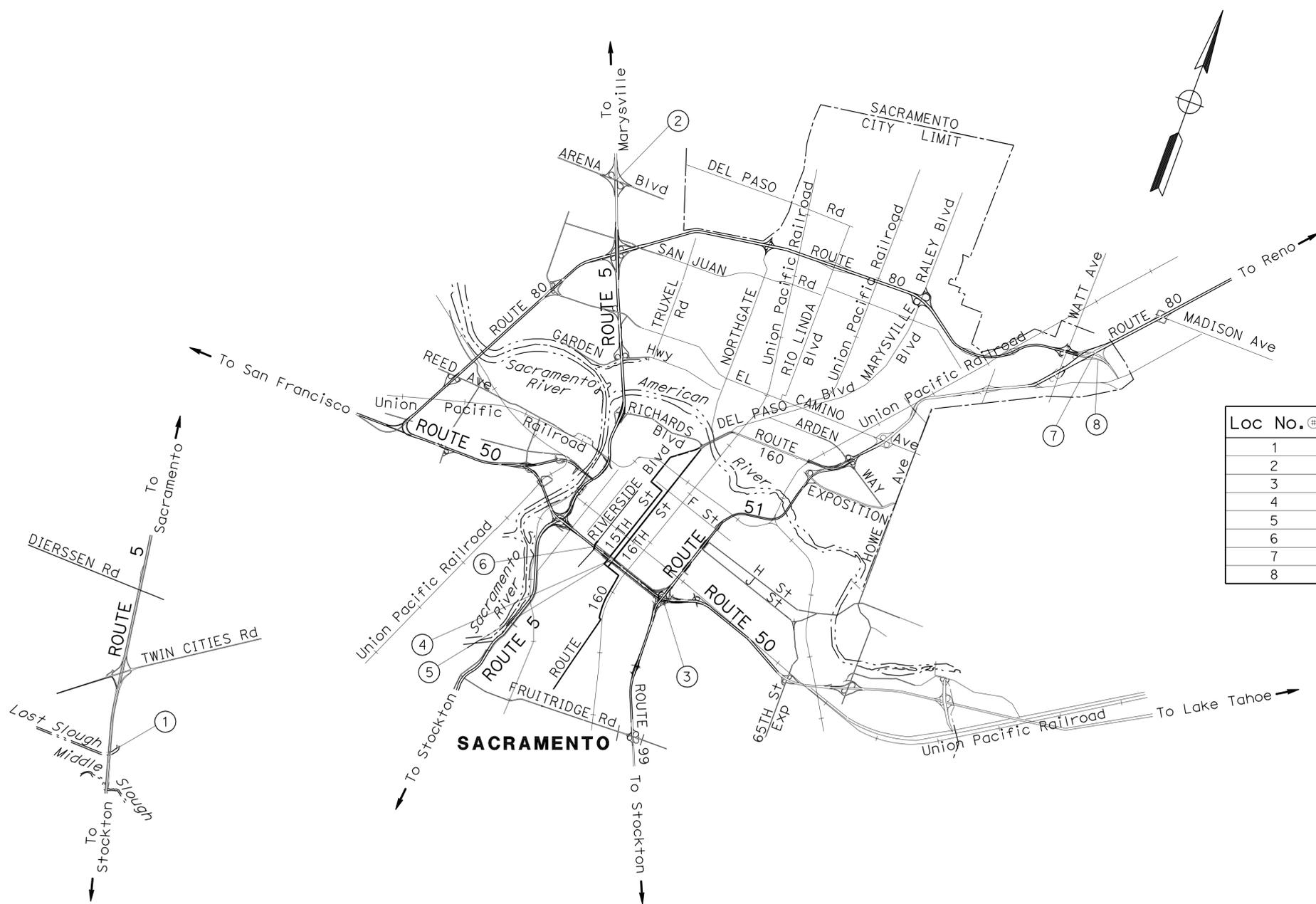
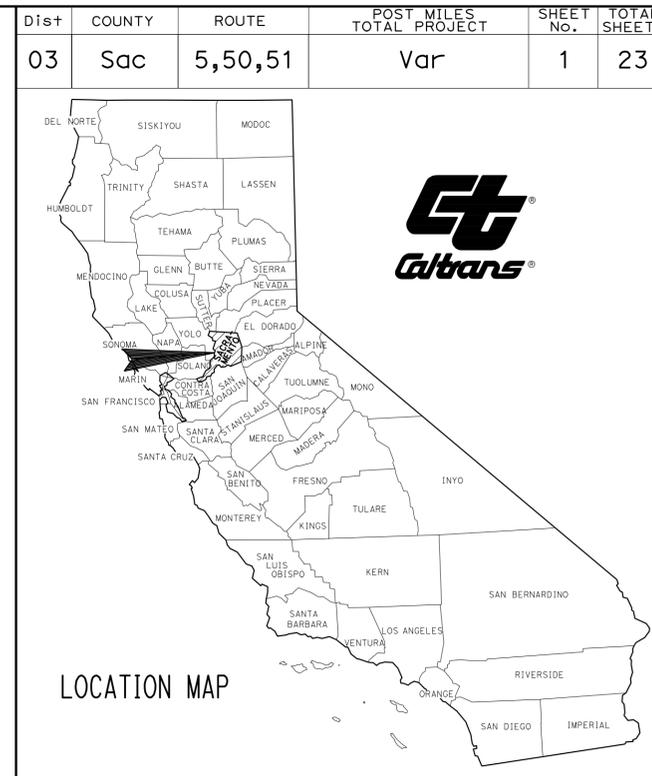
STRUCTURE PLANS

14-23	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 SACRAMENTO COUNTY
AT VARIOUS LOCATIONS**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

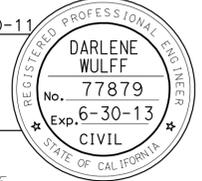


LOCATIONS OF CONSTRUCTION

Loc No. #	COUNTY	ROUTE	PM	STRUCTURE NAME	BRIDGE No.
1	Sac	5	1.04	LOST SLOUGH	24-0261L
2	Sac	5	28.04	ARENA Blvd OC	24-0357
3	Sac	50	R0.38	ELMHURST VIADUCT	24-0228R
4	Sac	50	L1.36	15TH-16TH STREET SEPARATION	24-0247L
5	Sac	50	L1.36	15TH-16TH STREET SEPARATION	24-0247R
6	Sac	50	L1.06	RIVERSIDE Blvd UC	24-0246L
7	Sac	51	8.46	ROUTE 51/244, 80 SEPARATION	24-0291L
8	Sac	51	8.52	ROUTE 51/244 CONNECTOR	24-0293R

PROJECT MANAGER
RONALD S. SYKES
 DESIGN ENGINEER
RONALD S. SYKES

Darlene Wulff 11-10-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
January 30, 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.



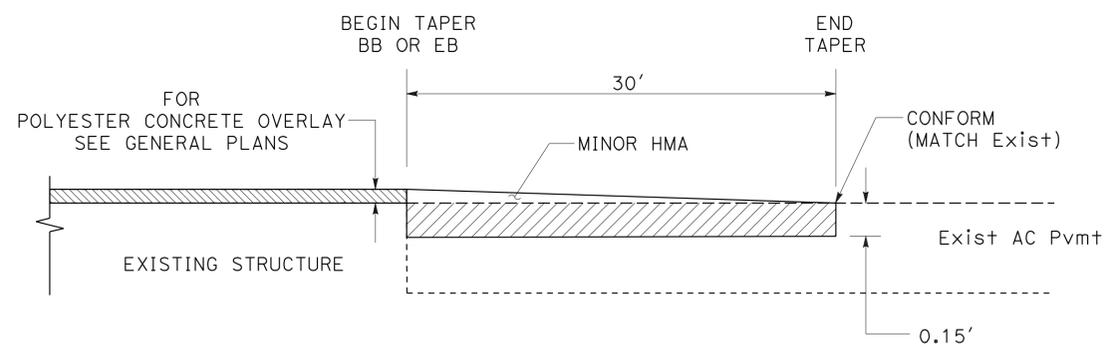
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

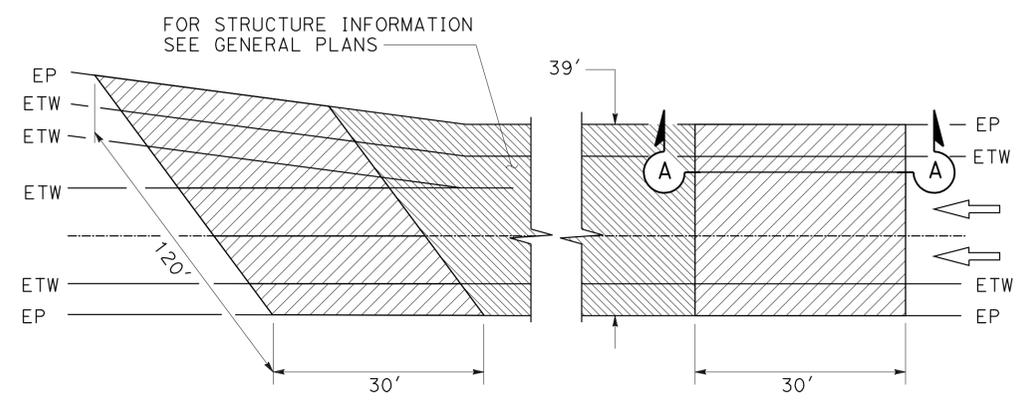
DATE PLOTTED => 26-JAN-2012 TIME PLOTTED => 12:34

LEGEND

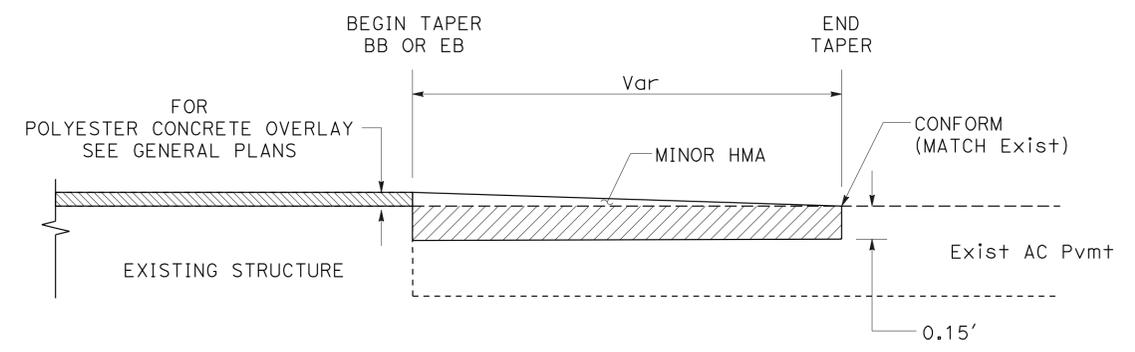
- POLYESTER CONCRETE OVERLAY
- COLD PLANE AC PAVEMENT
- DIRECTION OF TRAFFIC



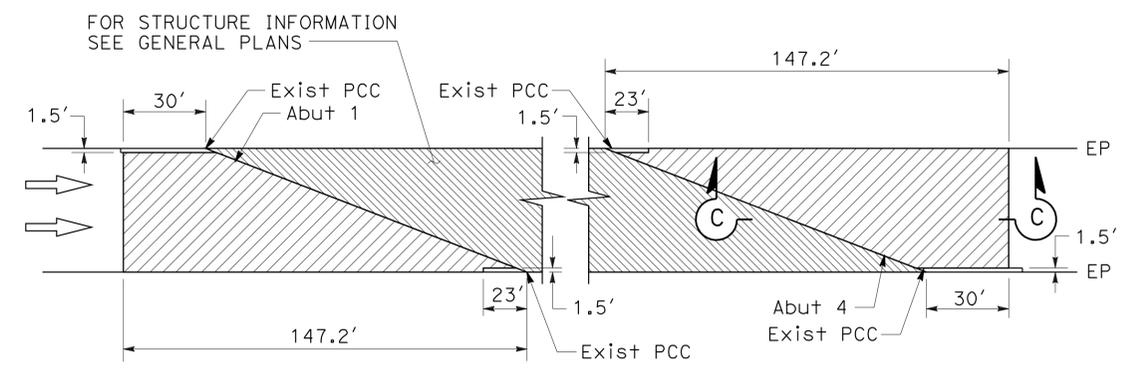
SECTION A-A



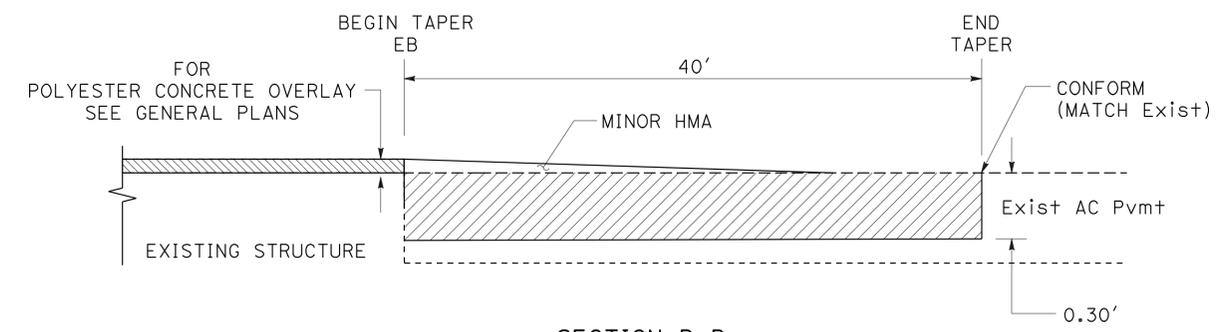
AC PAVEMENT CONFORM
 LOCATION 7 - APPROACH ADJACENT TO Abut 8L
 LOCATION 7 - DEPARTURE ADJACENT TO Abut 1



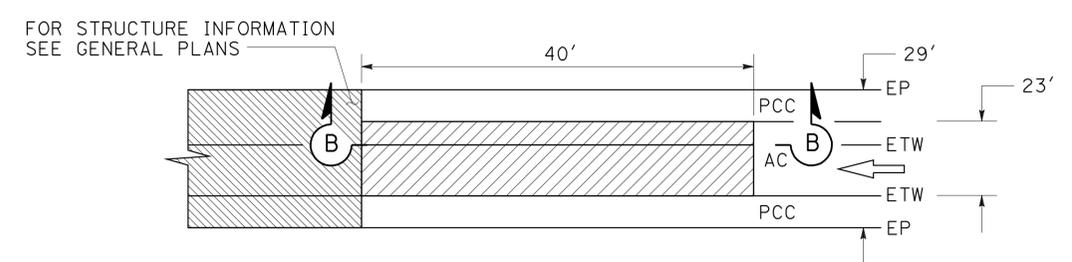
SECTION C-C



AC PAVEMENT CONFORM WITH PCC SHOULDERS
 LOCATION 8



SECTION B-B



AC PAVEMENT CONFORM WITH PCC SHOULDERS
 LOCATION 7 - APPROACH ADJACENT TO Abut 12R

ROADWAY QUANTITIES

LOCATION NUMBER	COUNTY AND ROUTE	BRIDGE NUMBER	DESCRIPTION	MINOR HOT MIX ASPHALT	COLD PLANE AC PAVEMENT
				TON	SQYD
7	Sac 51	24-0291L	ADJACENT TO ABUTMENT 8L	16	130
			ADJACENT TO ABUTMENT 12R	46	205
			ADJACENT TO ABUTMENT 1	49	400
8	Sac 51	24-0293R	ROUTE 51/244 CONNECTOR	251	682
TOTAL				362	1,417

CONSTRUCTION DETAILS AND SUMMARY OF QUANTITIES

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Darlene Wulff
 Ronald S. Sykes
 Functional Supervisor
 Maintenance Design
 REVISIONS: 00-00-00 DATE PLOTTED => 30-JAN-2012 TIME PLOTTED => 09:41

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
(A)	W20-1	C23	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	3
(B)	W20-1	C23	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	9
(C)	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	6
(D)		C14	48" x 24"	END ROAD WORK	1 - 4" x 6"	4

LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- ↑ SIGN - SINGLE POST
- ↑↑ SIGN - TWO POSTS
- ➔ DIRECTIONAL ARROW

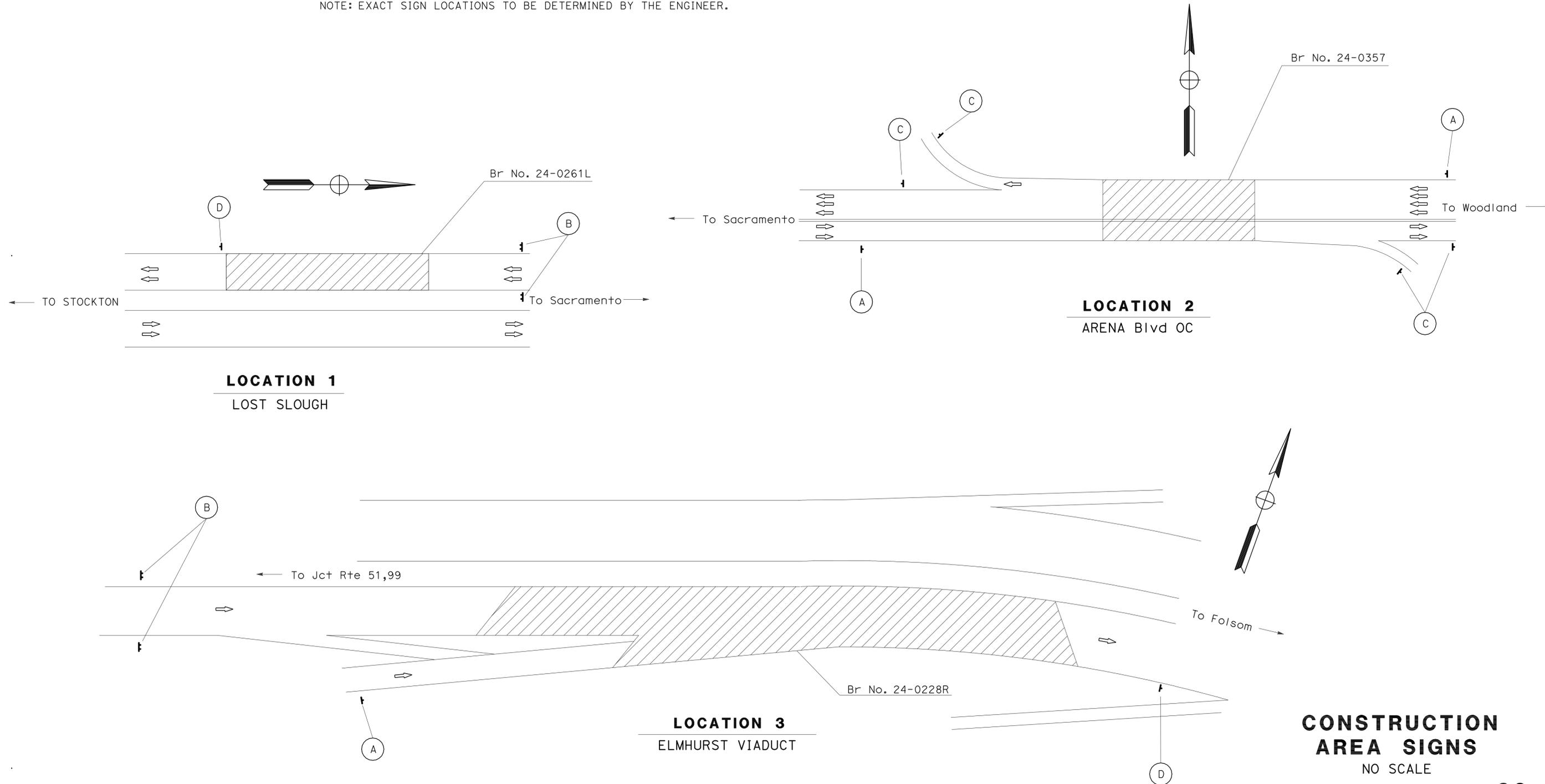
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	5,50,51	Var	3	23

1-26-12
 REGISTERED CIVIL ENGINEER DATE
 1-30-12
 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: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
NO SCALE

CS-1

REVISIONS:
 REVISION NO. | DATE | BY | DESCRIPTION
 1 | 10-26-11 | JJE | TIME PLOTTED => 12:34
 2 | 10-26-11 | JJE | DATE PLOTTED => 26-JAN-2012
 3 | 10-26-11 | JJE | TIME PLOTTED => 12:34

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

TRAFFIC

Caltrans

REVISOR: CHUCK COOK, JEFF JEWETT

DESIGNER: SERGIO ACEVES

FUNCTIONAL SUPERVISOR: SERGIO ACEVES

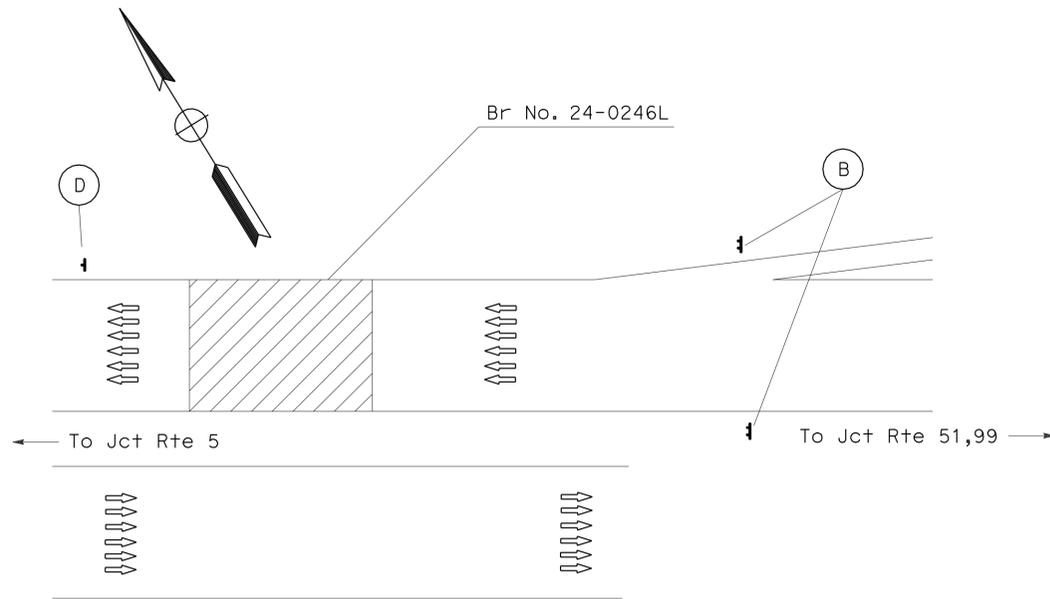
DESIGNER: SERGIO ACEVES

DESIGNER: SERGIO ACEVES

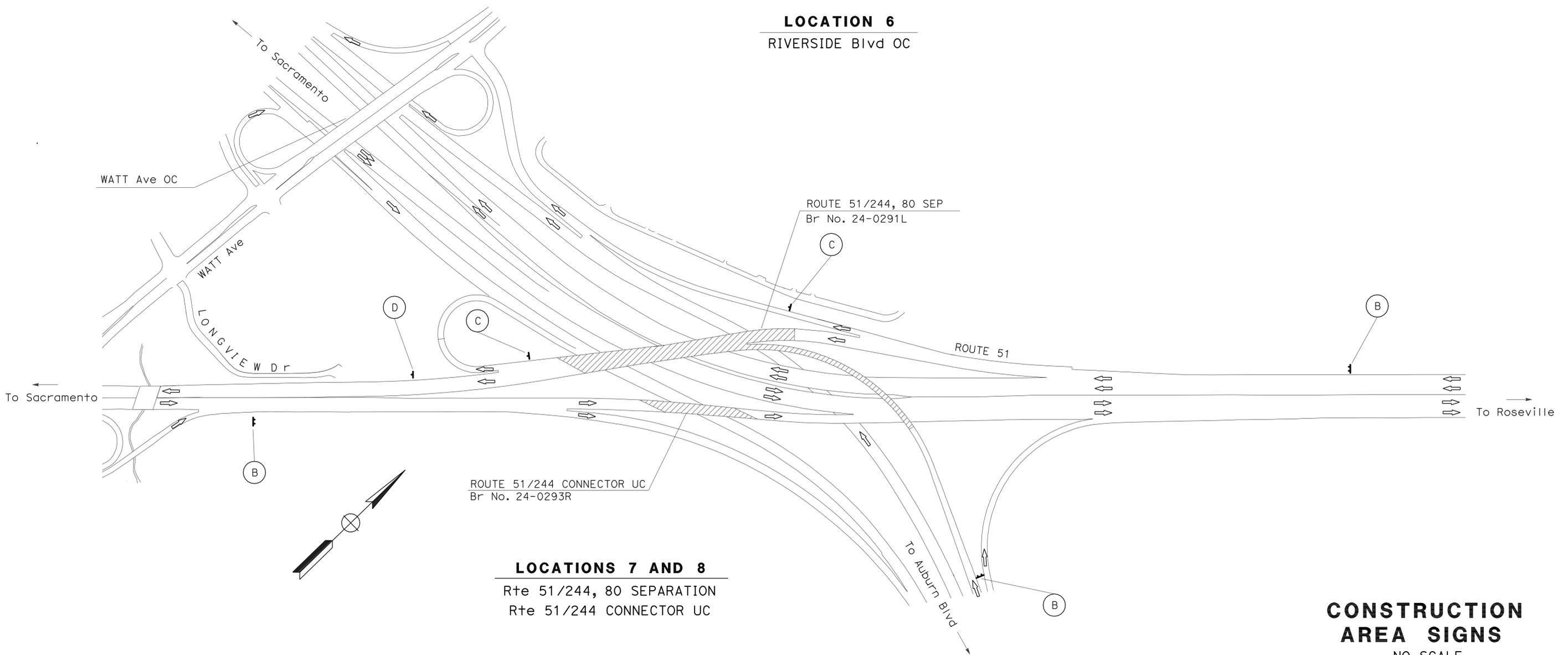
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	5,50,51	Var	4	23

1-26-12
 REGISTERED CIVIL ENGINEER DATE
 1-30-12
 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
 Jeffrey S. Jewett
 No. 49233
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA



LOCATION 6
RIVERSIDE Blvd OC



LOCATIONS 7 AND 8
Rte 51/244, 80 SEPARATION
Rte 51/244 CONNECTOR UC

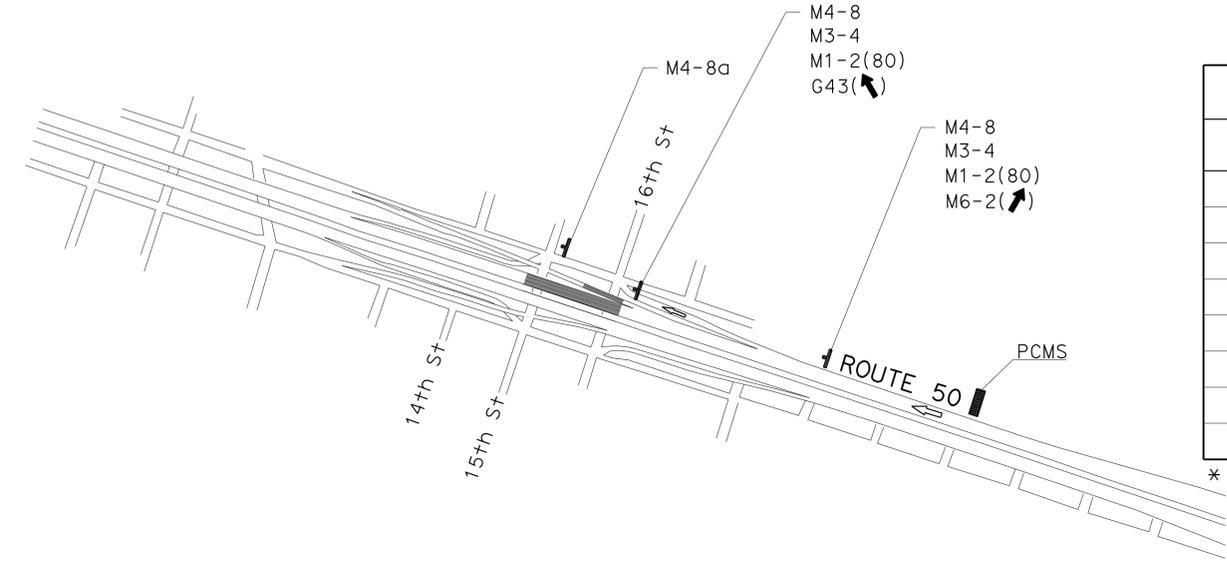
**CONSTRUCTION
AREA SIGNS**
NO SCALE

CS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	SERGIO ACEVES	CHUCK COOK	1-26-12
TRAFFIC		JEFF JEWETT	1-30-12

NOTE:
EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND:
 ↓ SIGN - SINGLE POST
 █ PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
 ⇨ DIRECTION OF TRAFFIC

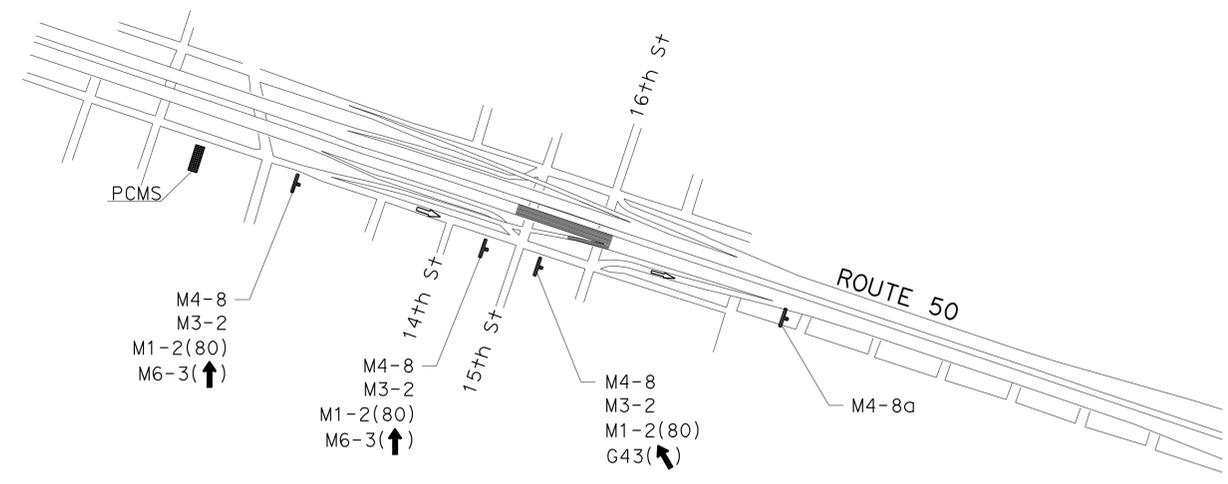


CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA			
M4-8	C5A	24" x 12"	DETOUR	5
M4-8a	C7	24" x 18"	END DETOUR	2
M3-2 *	G49	24" x 12"	EAST	3
M3-4 *	G50	24" x 12"	WEST	2
M1-2(80) *	G31-2(80)	24" x 24"	US 50	5
M6-3 *	G33	21" x 15"	DIRECTIONAL ARROW (↑)	2
	G43 *	21" x 15"	DIRECTIONAL ARROW (↙)	2
M6-2 *	G44	21" x 15"	DIRECTIONAL ARROW (↗)	1

* PANELS ARE WHITE ON GREEN BACKGROUND

DETOUR FOR CLOSURE OF WB ROUTE 50
OFF-RAMP TO DOWNTOWN 10TH STREET



DETOUR FOR CLOSURE OF ON-RAMP
FROM 11TH STREET AND X STREET TO EB ROUTE 50

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN
NO SCALE **DE-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CHECKED BY: RONALD S. SYKES
 DESIGNED BY: DARLENE WULFF
 REVISIONS: NONE
 DATE: 11-10-11

LAST REVISION: 00-00-00
 DATE PLOTTED => 26-JAN-2012
 TIME PLOTTED => 12:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	5,50,51	Var	6	23

Darlene Wulff 11-10-11
 REGISTERED CIVIL ENGINEER DATE

1-30-12
 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.

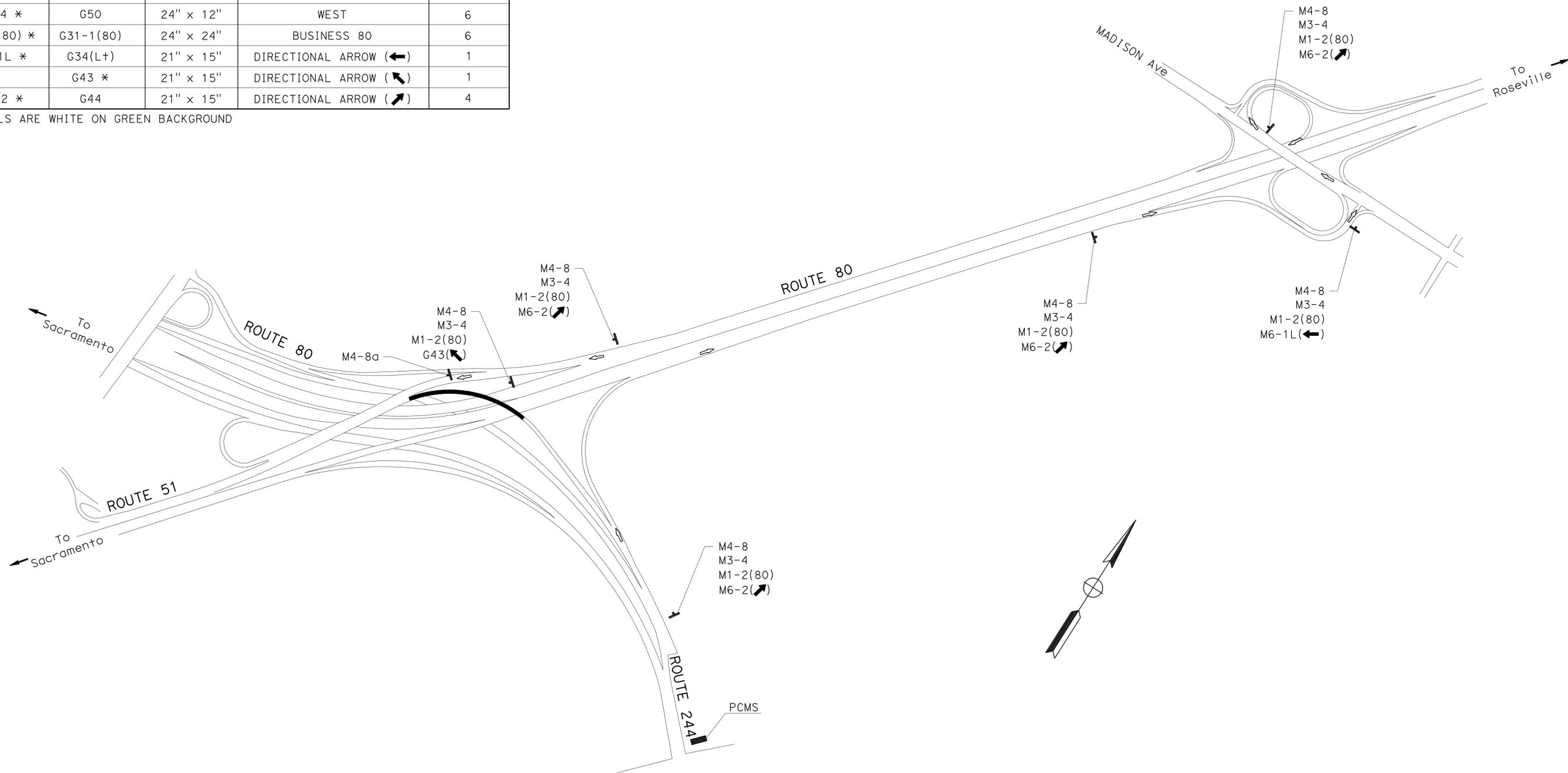
REGISTERED PROFESSIONAL ENGINEER
DARLENE WULFF
 No. 77879
 Exp. 6-30-13
 CIVIL
 STATE OF CALIFORNIA

NOTE:
EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

CONSTRUCTION AREA SIGNS

SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF SIGNS
FEDERAL	CALIFORNIA			
M4-8	C5A	24" x 12"	DETOUR	6
M4-8a	C7	24" x 18"	END DETOUR	1
M3-4 *	G50	24" x 12"	WEST	6
M1-2(80) *	G31-1(80)	24" x 24"	BUSINESS 80	6
M6-1L *	G34(L+)	21" x 15"	DIRECTIONAL ARROW (←)	1
	G43 *	21" x 15"	DIRECTIONAL ARROW (↘)	1
M6-2 *	G44	21" x 15"	DIRECTIONAL ARROW (↙)	4

* PANELS ARE WHITE ON GREEN BACKGROUND



DETOUR FOR CLOSURE OF ROUTE 244
ON-RAMP TO WB ROUTE 51

APPROVED FOR DETOUR CONSTRUCTION WORK ONLY

DETOUR PLAN
NO SCALE **DE-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: RONALD S. SYKES
 CALCULATED/DESIGNED BY: DARLENE WULFF
 CHECKED BY: RONALD S. SYKES
 REVISED BY: DARLENE WULFF
 DATE REVISED:

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	5,50,51	Var	7	23

Jeffrey S Jewett 1-26-12
 REGISTERED CIVIL ENGINEER DATE
 1-30-12
 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.

4" THERMOPLASTIC TRAFFIC STRIPE

LOCATION	DETAIL NUMBER		
	25	25A	27B
	LF	LF	LF
1	930		930
3	1,201	30	1,552
6	140		140
7	1,856		2,289
8	538		538
SUBTOTAL	4,665	30	5,449
TOTAL	10,114		

4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)

LOCATION	DETAIL NUMBER	
	12	14A
	LF	LF
1	930	
3	4,812	
6	560	
7	2,292	288
8	1,076	
SUBTOTAL	9,670	288
TOTAL	9,958	

8" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 12-3)

LOCATION	DETAIL NUMBER	
	37	37B
	LF	LF
2		66
6	140	
SUBTOTAL	140	66
TOTAL	206	

8" THERMOPLASTIC TRAFFIC STRIPE

LOCATION	DETAIL NUMBER				
	36	36A	36D	38	38B
	LF	LF	LF	LF	LF
2				223	
3		231			
7	600		1,312		213
SUBTOTAL	600	231	1,312	223	213
TOTAL	2,579				

PAVEMENT MARKER

LOCATION NUMBER	RETROREFLECTIVE		
	TYPE C (EACH)	TYPE G (EACH)	TYPE H (EACH)
1		21	21
2		37	26
3		113	29
6		25	4
7	8	151	40
8		24	13
SUBTOTAL	8	371	133
TOTAL	512		

4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 17-7)

LOCATION	DETAIL NUMBER
	9
	LF
2	867
TOTAL	867

6" THERMOPLASTIC TRAFFIC STRIPE

LOCATION	DETAIL NUMBER
	39
	LF
2	564
TOTAL	564

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 CALCULATED/DESIGNED BY: CHUCK COOK
 CHECKED BY: JEFF JEWETT
 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
03	Sac	5,50,51	Var	8	23

1-26-12
 REGISTERED CIVIL ENGINEER DATE
 1-30-12
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 Jeffrey S. Jewett
 No. 49233
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

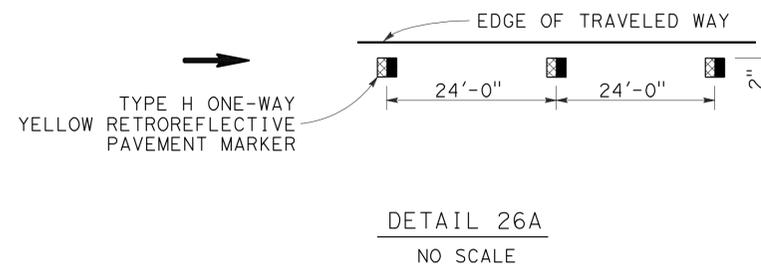
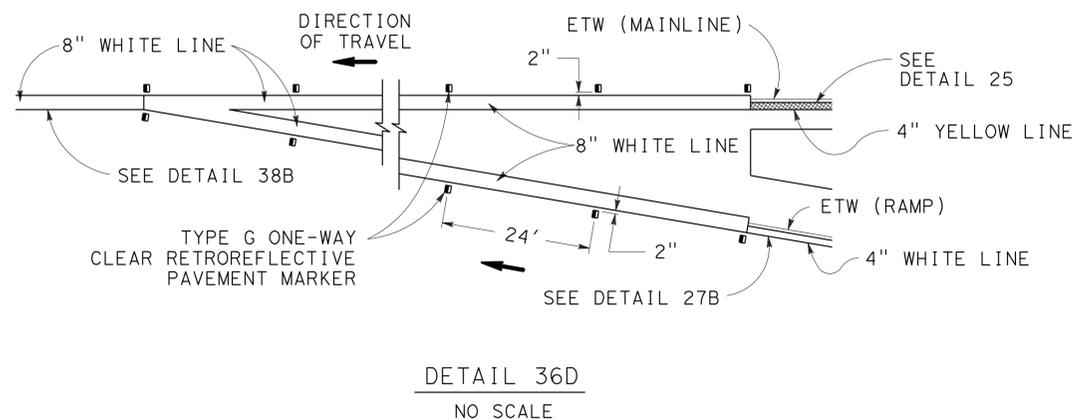
REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)

LOCATION NUMBER	LEFT EDGELINE
	LF
1	930
6	140
7	1,556
8	379
TOTAL	3,005

REMOVE THERMOPLASTIC TRAFFIC STRIPE

LOCATION NUMBER	LANELINE	RIGHT EDGELINE	8" CHANNELIZING LINE	6" BIKE LANE	8" LANE DROP	8" ENTRANCE RAMP GORE STRIPING	8" EXIT RAMP GORE STRIPING
	LF	LF	LF	LF	LF	LF	LF
1	233	930					
2	254		446	846	28		
6	140	140			57		
7	520	1,989	426			2,624	800
8	182	379					
SUBTOTAL	1,329	3,438	872	846	85	2,624	800
TOTAL	9,994						

CHUCK COOK
 REVISOR
 JEFF JEWETT
 CHECKED BY
 SERGIO ACEVES
 FUNCTIONAL SUPERVISOR
 DEPARTMENT OF TRANSPORTATION
 TRAFFIC



PAVEMENT DELINEATION QUANTITIES AND DETAILS

PDQ-2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	5,50,51	Var	9	23

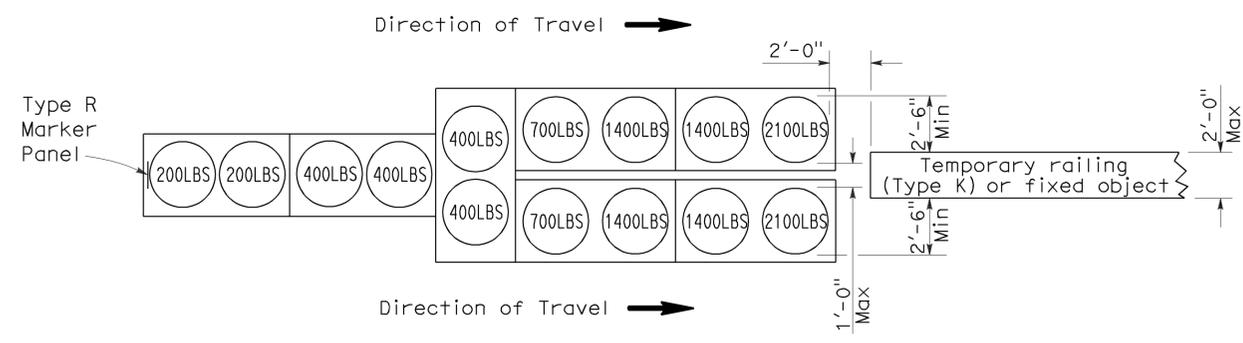
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

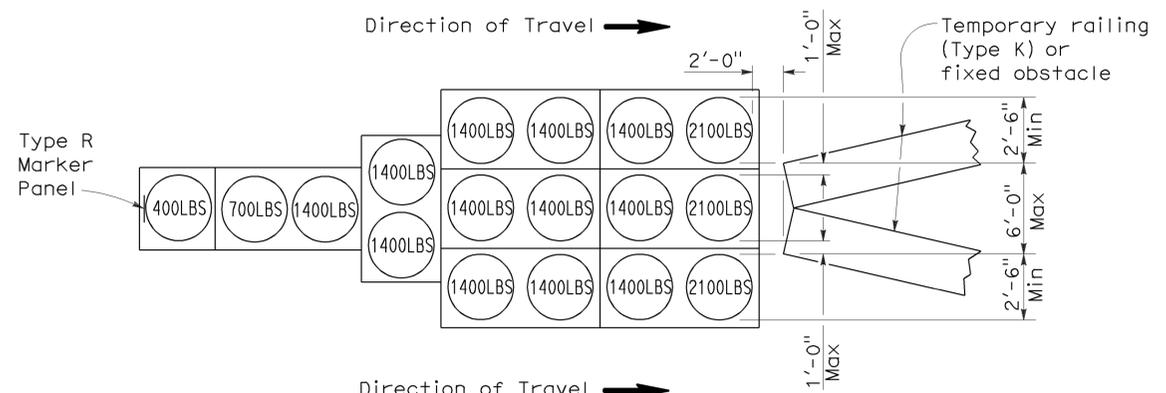
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-30-12



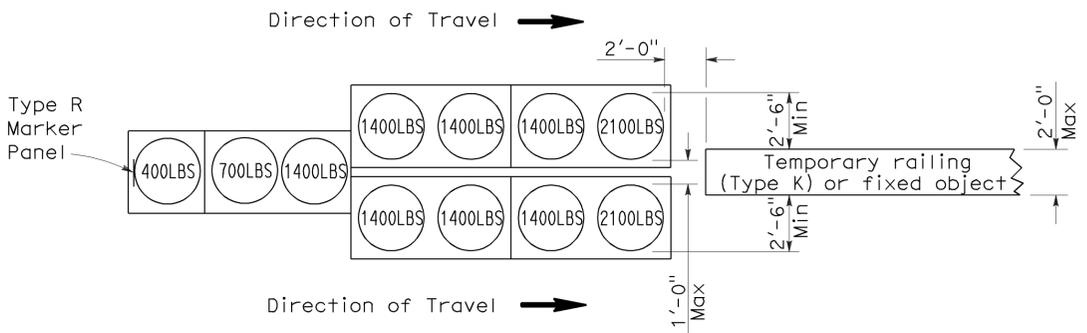
ARRAY 'TU14'

Approach speed 45 mph or more



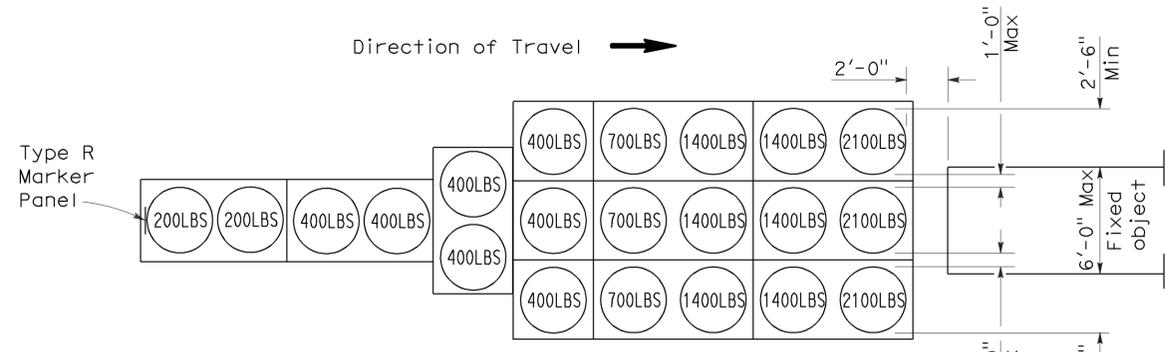
ARRAY 'TU17'

Approach speed less than 45 mph



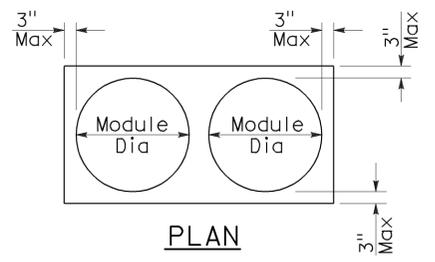
ARRAY 'TU11'

Approach speed less than 45 mph

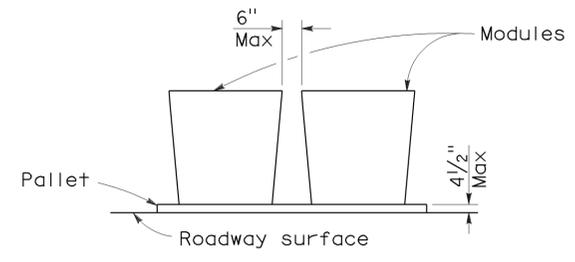


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	5,50,51	Var	10	23

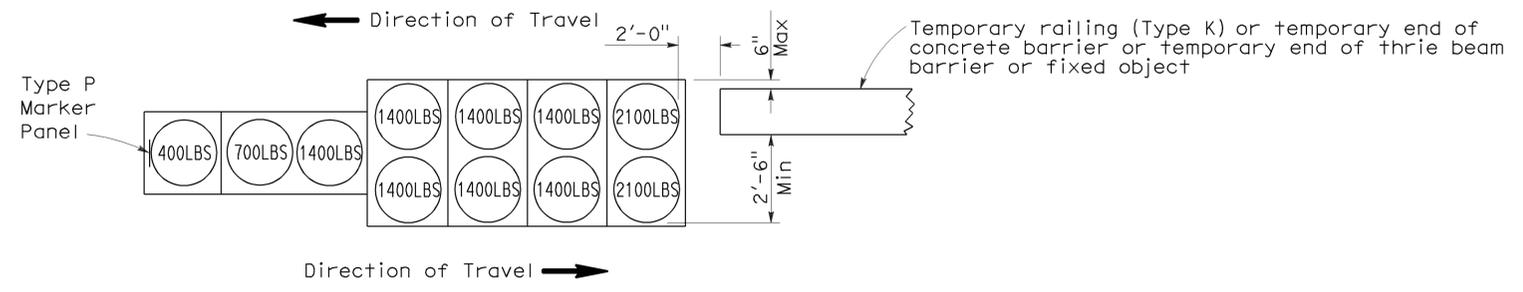
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Randell D. Hiatt
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

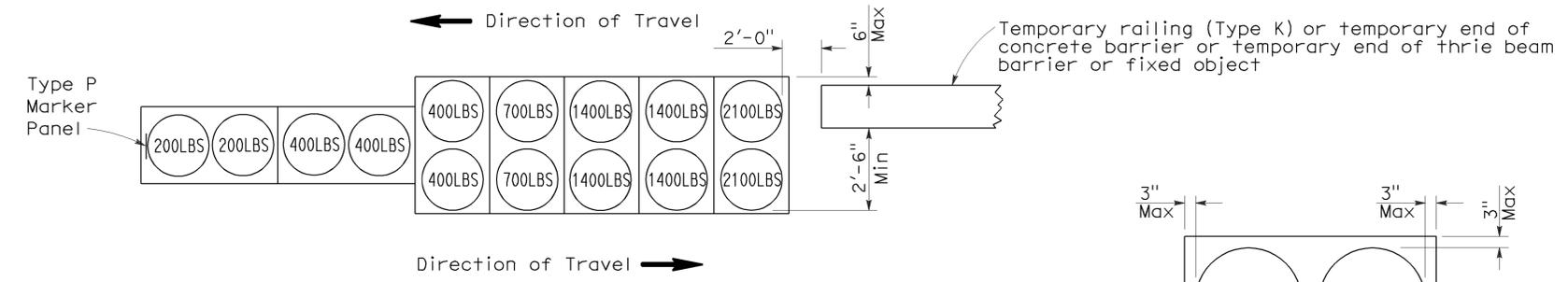
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1-30-12



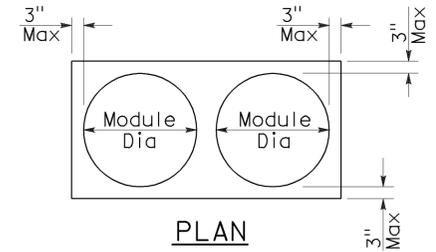
ARRAY 'TB11'

Approach speed less than 45 mph

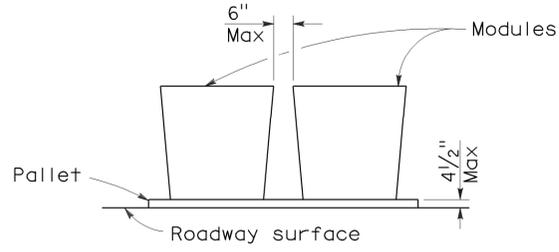


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,
SAND FILLED
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

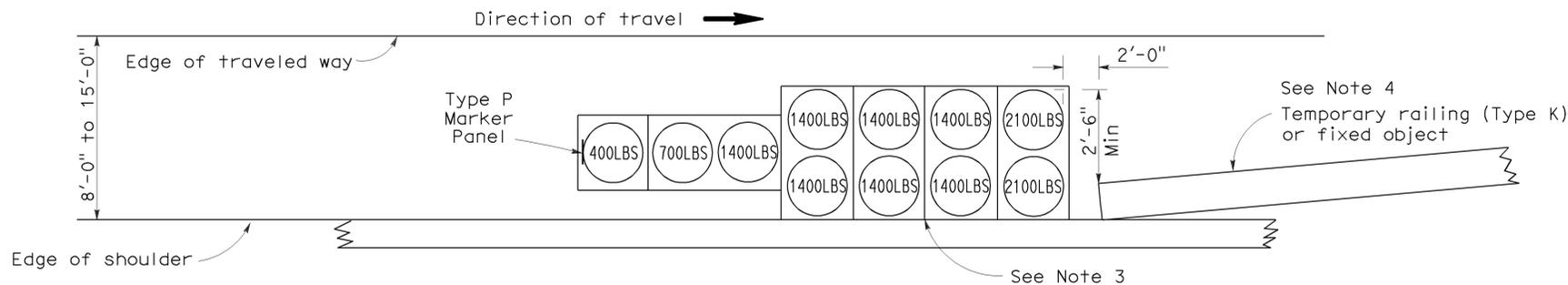
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	5,50,51	Var	11	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

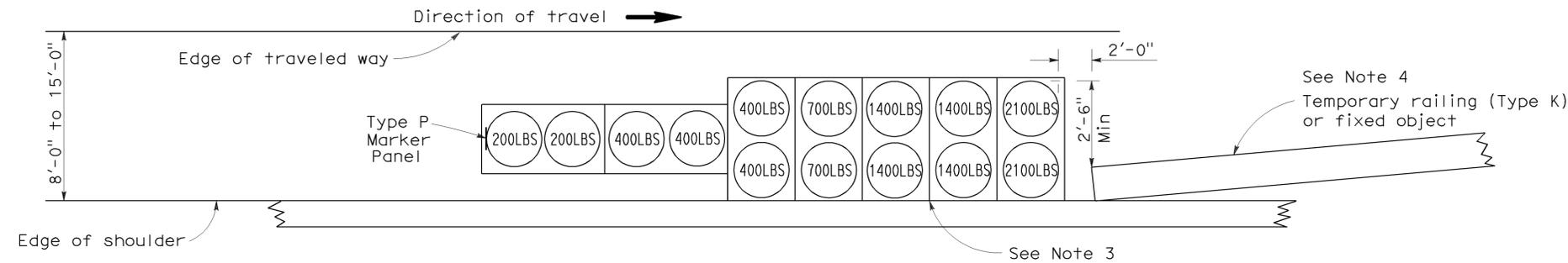
June 6, 2008
PLANS APPROVAL DATE

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.

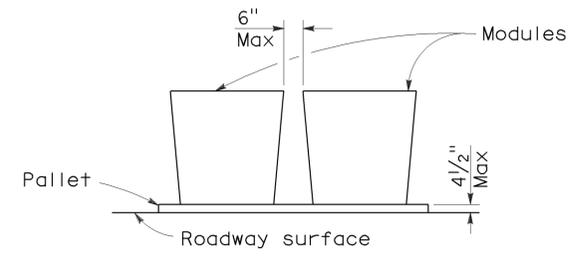
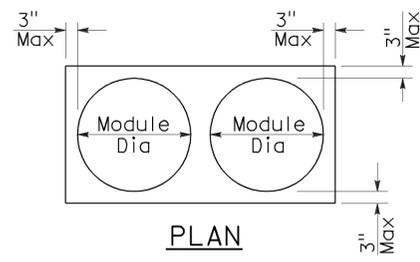
To accompany plans dated 1-30-12



ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



ARRAY 'TS14'
Approach speed 45 mph or more
See Note 9



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**

NO SCALE
RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

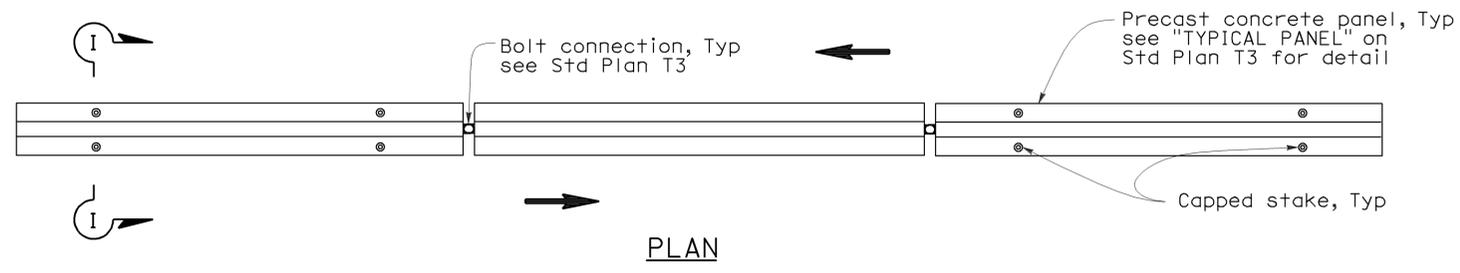
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	5,50,51	Var	12	23

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

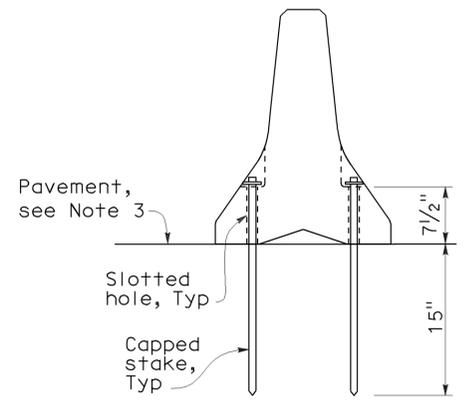
May 20, 2011
PLANS APPROVAL DATE

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.

To accompany plans dated 1-30-12

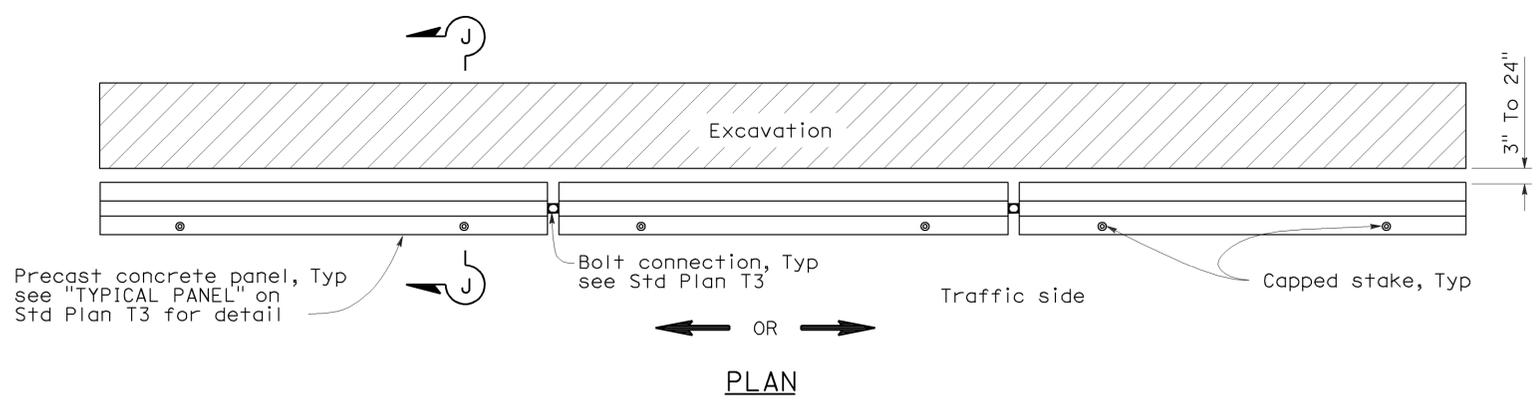


RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1

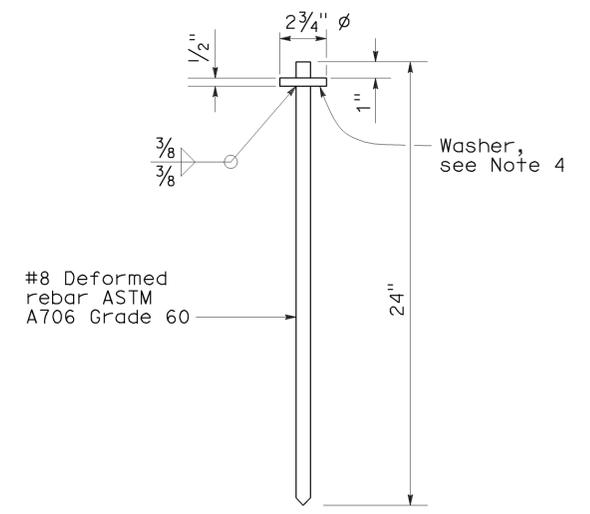
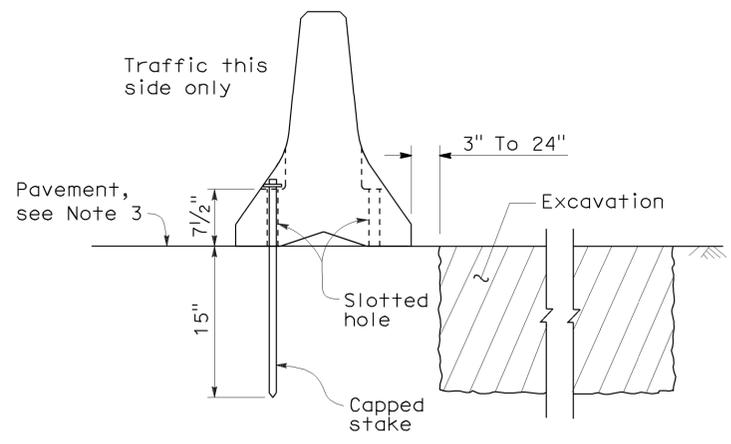


NOTES:

1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of an excavation on highways, use two capped stakes per panel along the traffic side.
3. Staked Type K Temporary Railing must be supported by at least 4" thick concrete, hot mix asphalt or existing asphalt concrete pavement.
4. The minimum yield strength for the washer must be 60,000 psi.
5. Direction of adjacent traffic indicated by \Rightarrow .



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

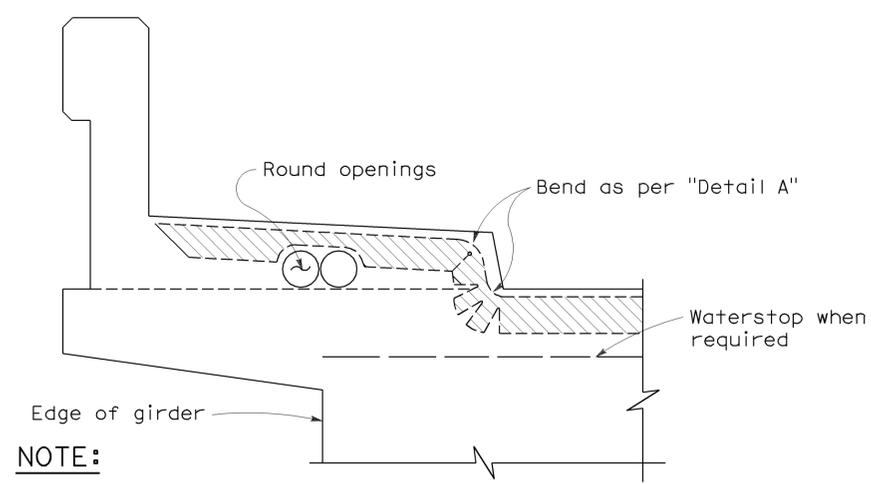
**TEMPORARY RAILING
(TYPE K)**

NO SCALE

NSP T3A DATED MAY 20, 2011 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

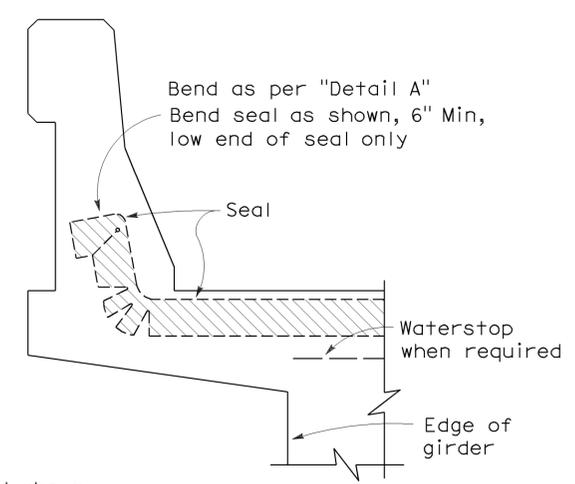
2006 NEW STANDARD PLAN NSP T3A

To accompany plans dated 1-30-12

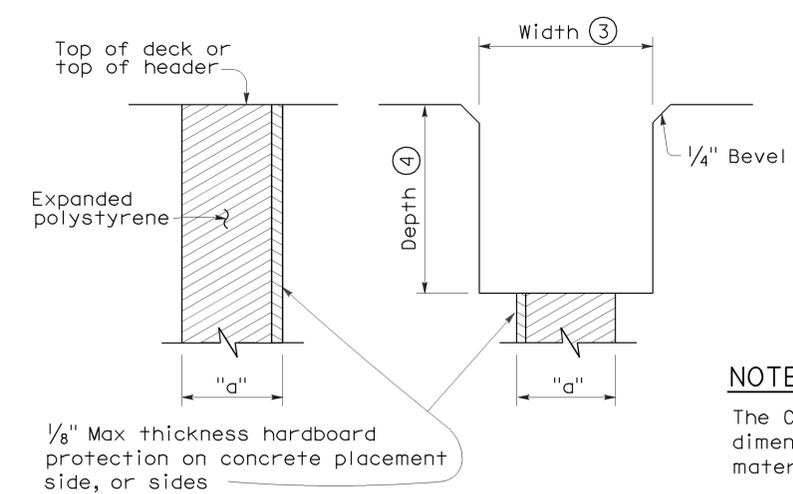


NOTE:
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

CONCRETE BARRIER AND SIDEWALK



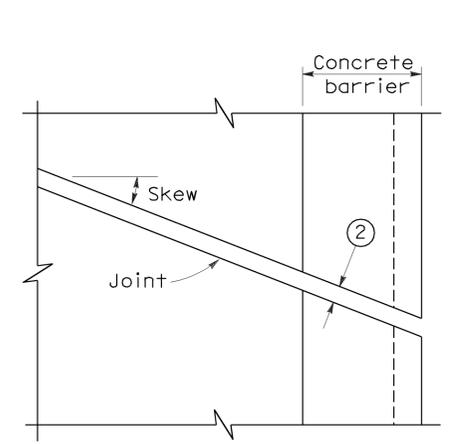
CONCRETE BARRIER



FORMING DETAIL SAWCUT DETAIL

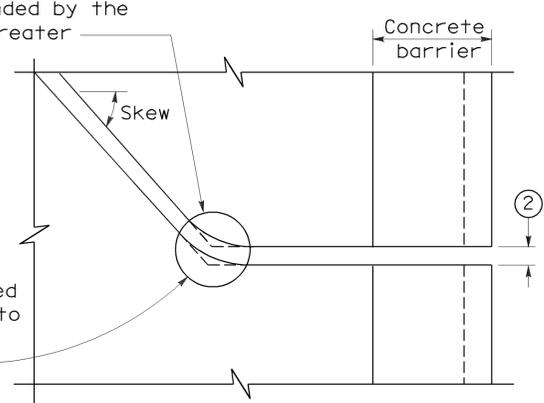
NOTE:
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

JOINT SEALS DETAILS



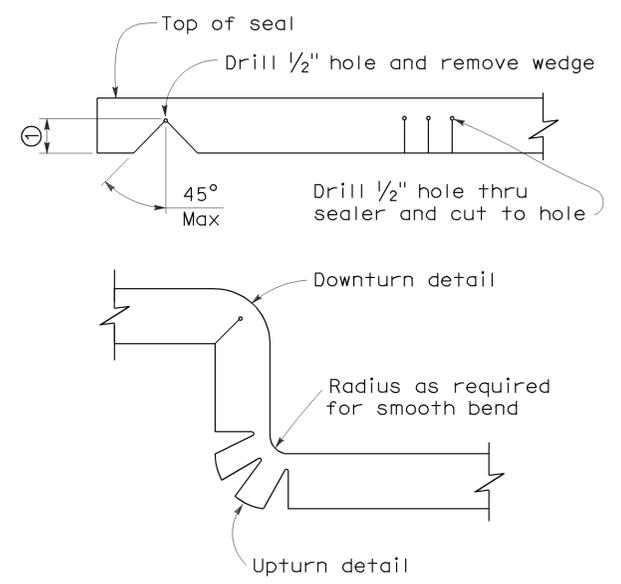
PLAN OF JOINT (SKEW ≤ 20°)

Min ϕ radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



PLAN OF JOINT (SKEW > 20°)

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



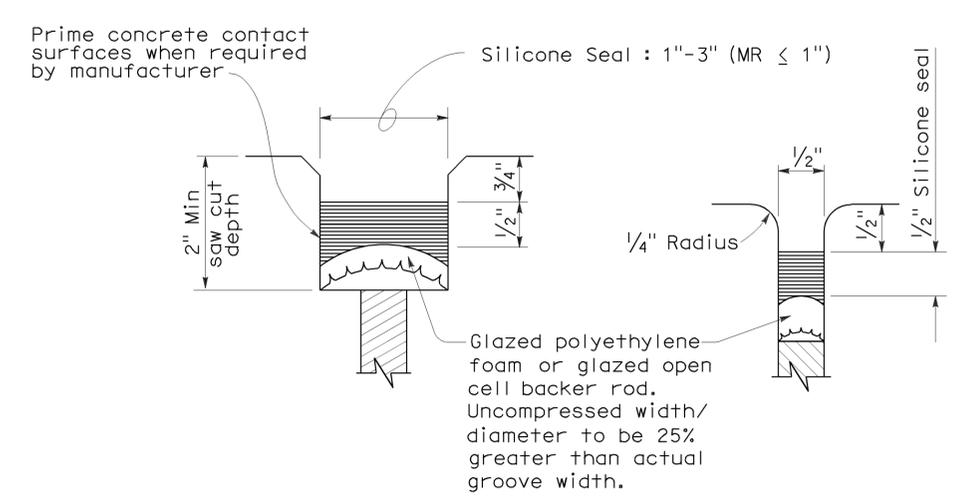
DETAIL A

NOTES:

- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
- Opening in barrier to match width of sawn deck joint.
- Sawcut groove widths shall be as ordered by the Engineer.
- Depth of sawcut: Type A - Depth to be 2" minimum.
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W₂) plus dimensions shown.
- MR (movement rating) as shown on other plan sheets.
- Other depths must be approved by the Engineer.

DIMENSIONS "a" OF JOINT REQUIRED

Movement Rating (MR) (5)	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

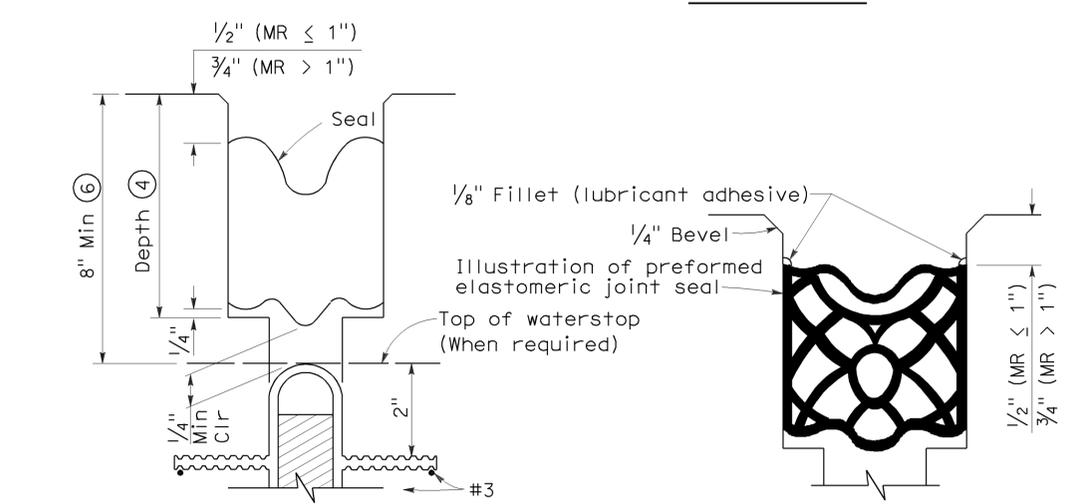


TYPE A SEAL

Movement rating : Silicone = 1" Max

TYPE AL SEAL

Longitudinal joints only



TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W₂)

TYPE B SEAL

Movement Rating ≤ 2"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
JOINT SEALS
(MAXIMUM MOVEMENT RATING = 2")
 NO SCALE

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

2006 REVISED STANDARD PLAN RSP B6-21

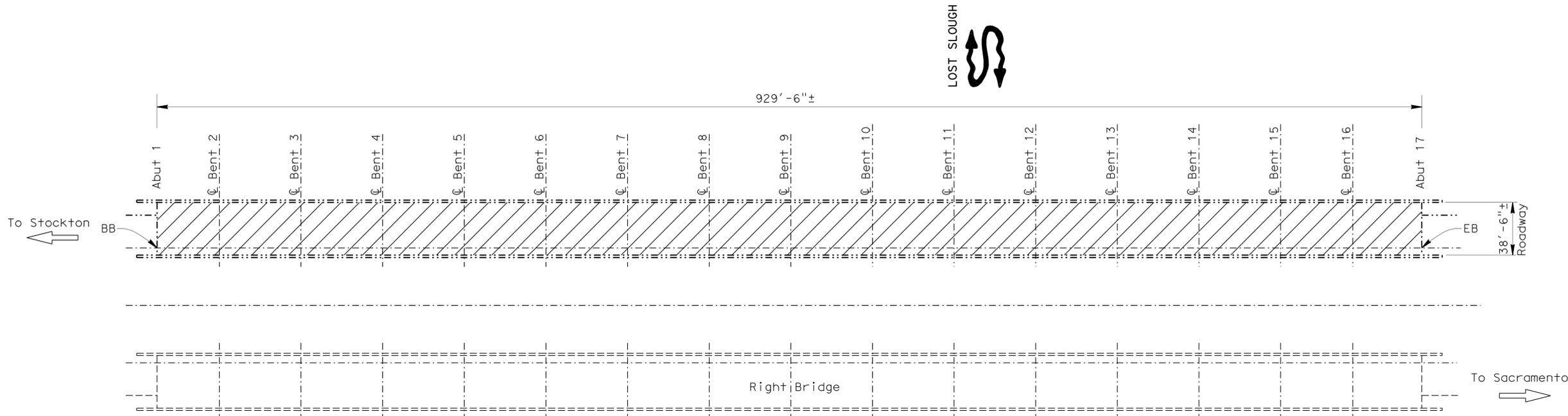
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	14	23

REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 CIVIL
 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 ALL SHEETS)

----- Indicates existing.

 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



LOST SLOUGH BR NO. 24-0261L

LOST SLOUGH
 BR NO. 24-0261L, SAC, RTE 5, PM 1.04
 1"=40'

INDEX TO PLANS

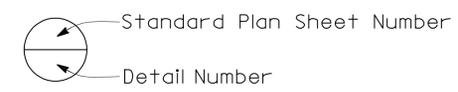
SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	HINGE DETAILS
9	JOINT SEAL DETAILS
10	JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	35,800	SQFT
TREAT BRIDGE DECK	35,800	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	398	GAL
PUBLIC SAFETY PLAN		LUMP SUM

STANDARD PLANS DATED MAY 2006

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



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

 DESIGN ENGINEER 1-12-12	DESIGN BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO. VARIOUS	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 1	
	DETAILS BY Trung Lam	CHECKED Timothy Powell	LAYOUT BY Trung Lam	CHECKED Timothy Powell			POST MILE VARIES		
QUANTITIES BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED	UNIT: 3488	PROJECT NUMBER & PHASE: 0300020072 1	CONTRACT NO.: 03-4M2401	REVISION DATES	SHEET 1 OF 10

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



DISREGARD PRINTS BEARING EARLIER REVISION DATES

9-30-11	11-09-11	01-12-12	3-22-12	4-13-12	1	10
---------	----------	----------	---------	---------	---	----

FILE => 03-4m2401_01_gp1.dgn

USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

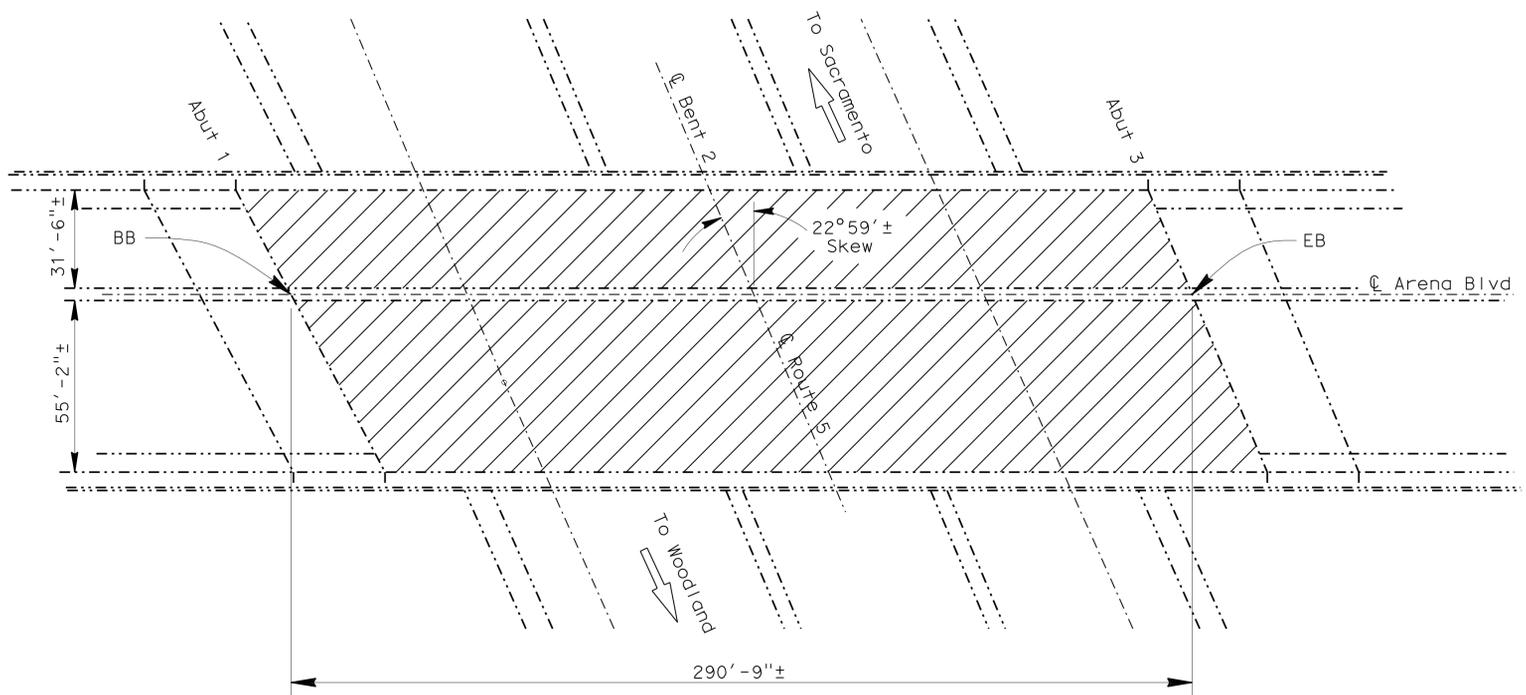
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	15	23

REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 REGISTERED PROFESSIONAL ENGINEER
 HOSEIN MOAZAMI
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Notes:

----- Indicates existing structure.

 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.



ARENA BOULEVARD OC
 BR NO. 24-0357, SAC, RTE 5, PM 28.04
 1"=50'



ARENA BOULEVARD OC BR NO. 24-0357
 QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	25,200	SQFT
TREAT BRIDGE DECK	25,200	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	280	GAL
PUBLIC SAFETY PLAN		LUMP SUM

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

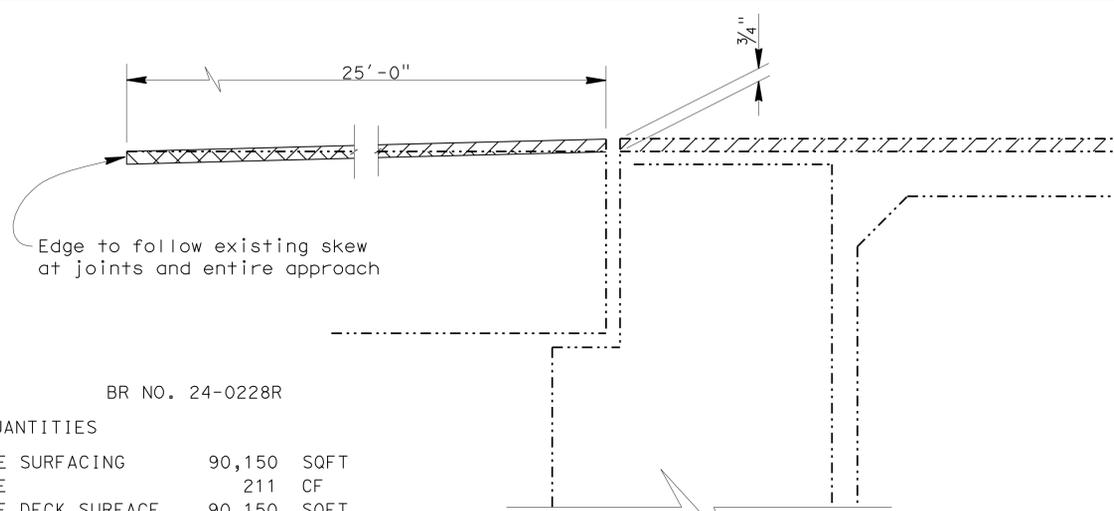
 1-12-12 DESIGN ENGINEER	DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 2		
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		VARIOUS	
	QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED		POST MILE VARIES	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0300020072 1 CONTRACT NO.: 03-4M2401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES: 9-30-11, 11-09-11, 1-12-12, 3-22-12, 4-13-12 SHEET 2 OF 10

FILE => 03-4m2401_02_gp2.dgn

USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	16	23

1-12-12
 REGISTERED CIVIL ENGINEER DATE
 1-30-12
 PLANS APPROVAL DATE
 No. 60058
 Exp. 6-30-2012
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



- Notes:
- Indicates existing structure.
 - Indicates remove existing joint seal and place new joint seal.
 - ▨ Indicates limits of remove unsound concrete, patch with rapid setting concrete and place new 3/4" thick polyester concrete overlay.
 - ▨ Indicates limits of grind PCC Approach.
 - ▨ Indicates limits of remove 1/2"± AC.

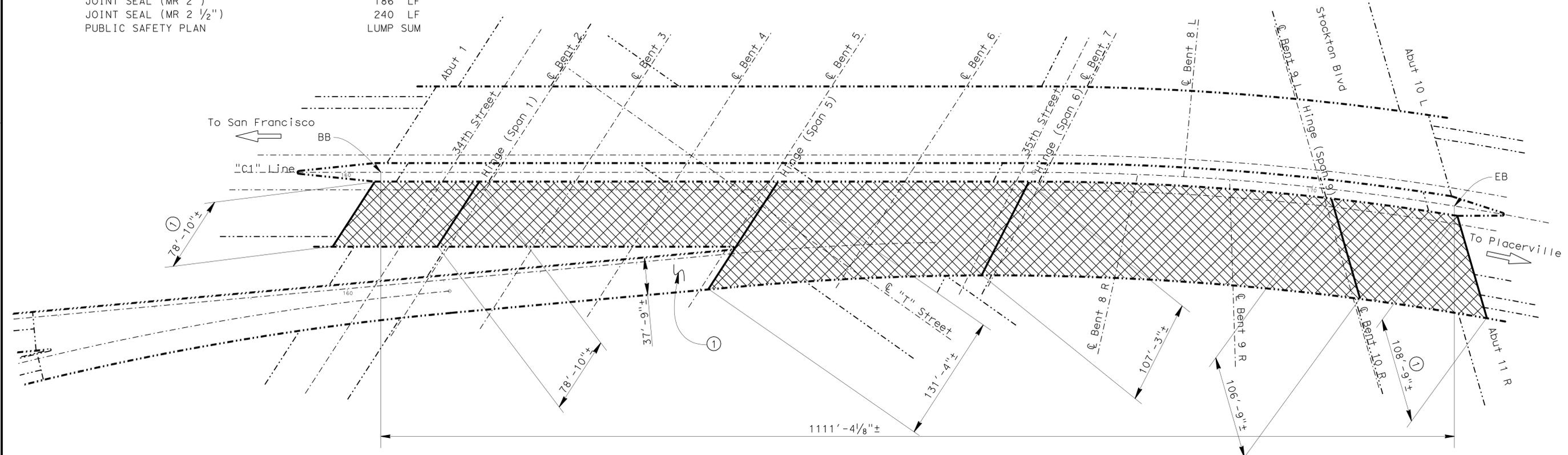
① See SECTION A-A (Typ) for transition from existing roadway to top of new Polyester Concrete overlay.

ELMHURST VIADUCT BR NO. 24-0228R

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	90,150	SOFT
REMOVE UNSOUND CONCRETE	211	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	90,150	SOFT
GRIND PCC APPROACH	5,625	SOFT
CLEAN EXPANSION JOINT	614	LF
RAPID SETTING CONCRETE PATCH	211	CF
FURNISH POLYESTER CONCRETE OVERLAY	6,760	CF
PLACE POLYESTER CONCRETE OVERLAY	90,150	SOFT
JOINT SEAL (MR 1/2")	188	LF
JOINT SEAL (MR 2")	186	LF
JOINT SEAL (MR 2 1/2")	240	LF
PUBLIC SAFETY PLAN	LUMP	SUM

SECTION A-A (Typ)
No scale



ELMHURST VIADUCT
BR NO. 24-0228R, SAC, RTE 50, PM R0.38
1"=50'

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

 DESIGN ENGINEER 1-12-12	DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	VARIOUS	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 3	
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam		DIVISION OF MAINTENANCE	VARIOUS		
	QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED	STRUCTURE MAINTENANCE DESIGN		POST MILE
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS		UNIT: 3488 PROJECT NUMBER & PHASE: 0300020072 1 CONTRACT NO.: 03-4M2401		SHEET 3 OF 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	17	23

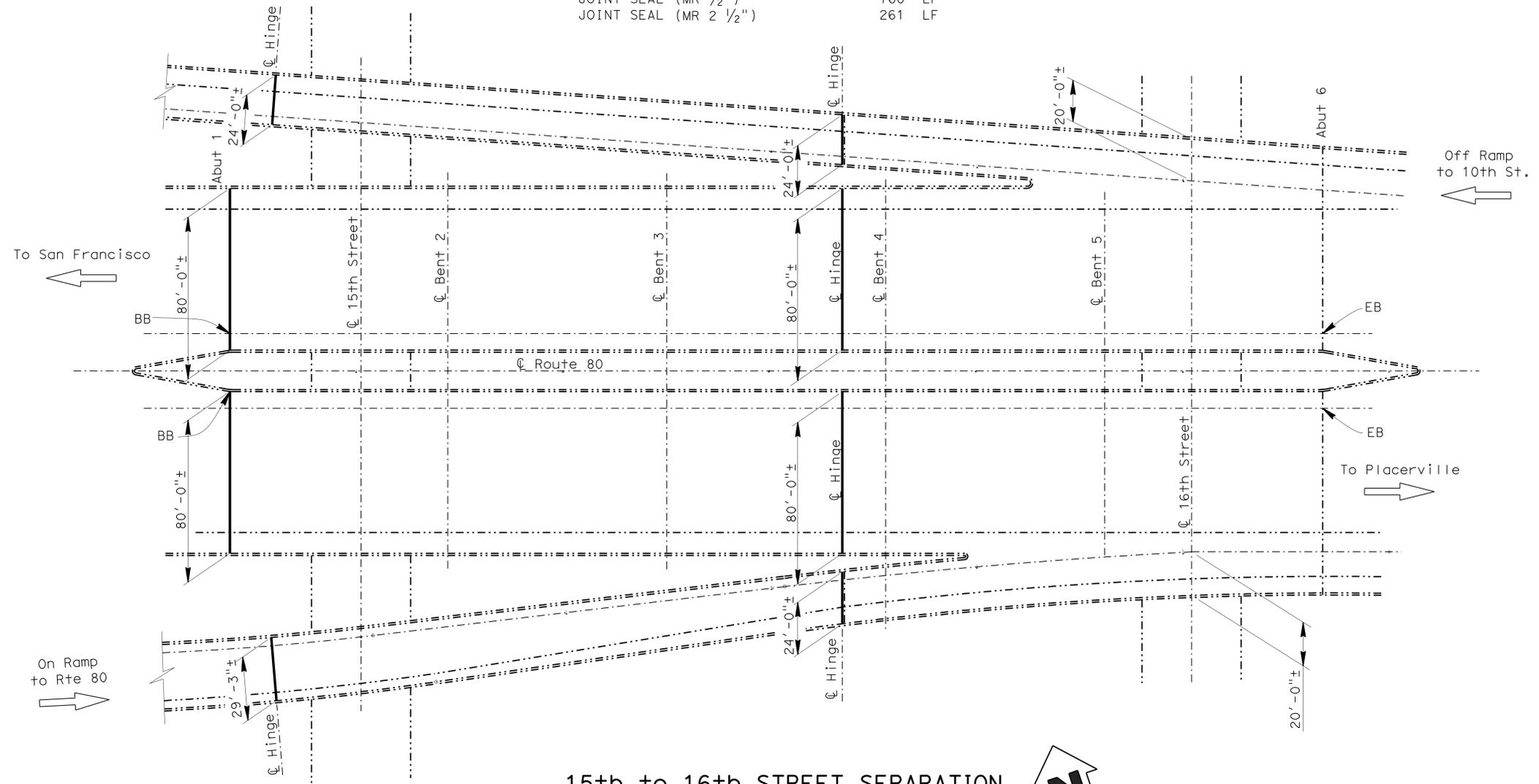
REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 REGISTERED PROFESSIONAL ENGINEER
 HOUSSEIN MOAZAMI
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Notes:
 ----- Indicates existing structure.
 / Indicates remove existing joint seal and place new joint seal.

15TH TO 16TH STREET SEPARATION BR NO. 24-0247L/R

QUANTITIES

CLEAN EXPANSION JOINT	421 LF
JOINT SEAL (MR 1/2")	160 LF
JOINT SEAL (MR 2 1/2")	261 LF



15th to 16th STREET SEPARATION
 BR NO. 24-0247L/R, SAC, RTE 50, PM L1.36
 1"=30'

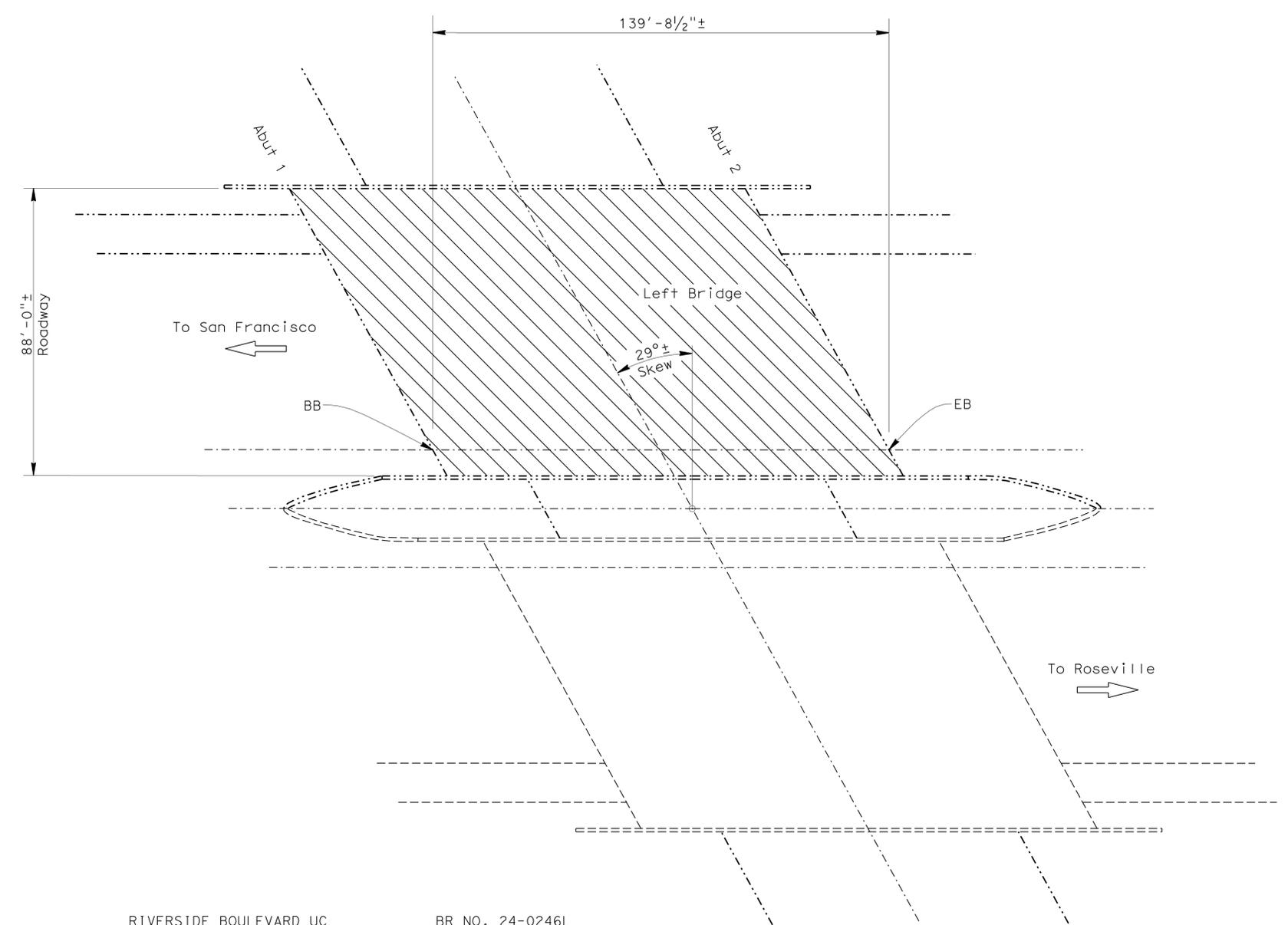


NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

 1-12-12 DESIGN ENGINEER	DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	VARIOUS	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 4				
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam		CHECKED Timothy Powell	POST MILE		VARIES			
	QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		CHECKED Timothy Powell	PLANS AND SPECS COMPARED		VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 0300020072 1	CONTRACT NO.: 03-4M2401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-30-11 11-09-11 10-12-12 3-22-12 4-13-12	SHEET 4 OF 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	18	23

REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 REGISTERED PROFESSIONAL ENGINEER
 HO SSEIN MOAZAMI
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



NOTES: (APPLY TO ALL SHEETS)
 - - - - - Indicates existing.
 Indicates limits of prepare and treat bridge deck with high molecular weight methacrylate.

RIVERSIDE BOULEVARD UC BR NO. 24-0246L

QUANTITIES

PREPARE CONCRETE BRIDGE DECK SURFACE	12,295	SQFT
TREAT BRIDGE DECK	12,295	SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	137	GAL
PUBLIC SAFETY PLAN		LUMP SUM

RIVERSIDE BOULEVARD UC
 BR NO. 24-0246L, SAC, RTE 50, PM L1.06
 1"=20'



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

 DESIGN ENGINEER 1-12-12	DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 5	
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam			CHECKED Timothy Powell		VARIOUS
	QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED	VARIES		
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488 PROJECT NUMBER & PHASE: 0300020072 1 CONTRACT NO.: 03-4M2401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-30-11 11-09-11 11-12-11 3-22-12 4-13-12 SHEET 5 OF 10

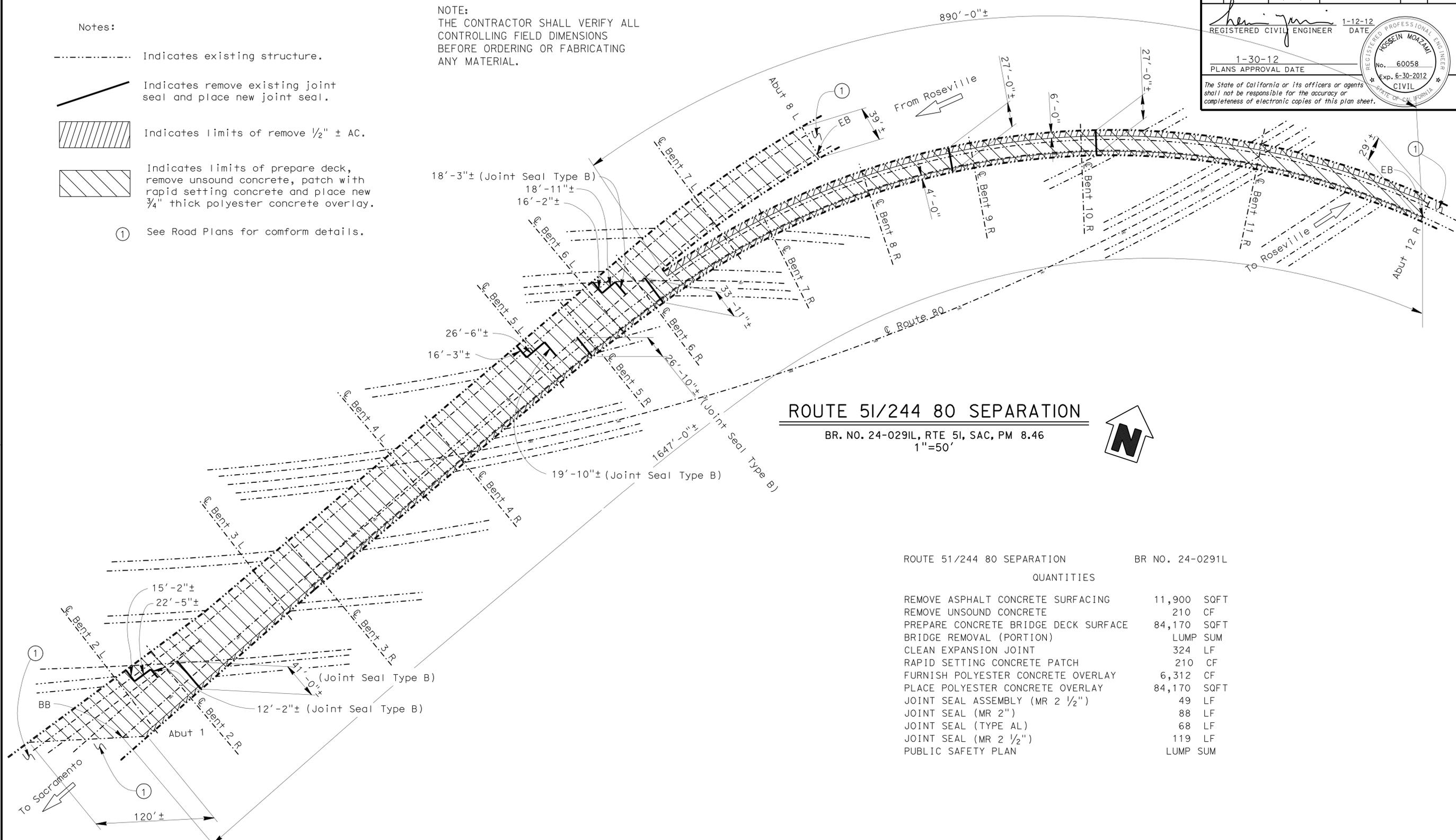
USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	19	23

REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 CIVIL
 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:
- Indicates existing structure.
 - Indicates remove existing joint seal and place new joint seal.
 - ▨ Indicates limits of remove 1/2" ± AC.
 - ▨ Indicates limits of prepare deck, remove unsound concrete, patch with rapid setting concrete and place new 3/4" thick polyester concrete overlay.
 - ① See Road Plans for conform details.

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



ROUTE 51/244 80 SEPARATION
 BR. NO. 24-0291L, RTE 5I, SAC, PM 8.46
 1"=50'

ROUTE 51/244 80 SEPARATION BR NO. 24-0291L
 QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	11,900	SQFT
REMOVE UNSOUND CONCRETE	210	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	84,170	SQFT
BRIDGE REMOVAL (PORTION)		LUMP SUM
CLEAN EXPANSION JOINT	324	LF
RAPID SETTING CONCRETE PATCH	210	CF
FURNISH POLYESTER CONCRETE OVERLAY	6,312	CF
PLACE POLYESTER CONCRETE OVERLAY	84,170	SQFT
JOINT SEAL ASSEMBLY (MR 2 1/2")	49	LF
JOINT SEAL (MR 2")	88	LF
JOINT SEAL (TYPE AL)	68	LF
JOINT SEAL (MR 2 1/2")	119	LF
PUBLIC SAFETY PLAN		LUMP SUM

 1-12-12 DESIGN ENGINEER	DESIGN BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO. VARIOUS	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 6	
	DETAILS BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam		DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		POST MILE VARIES
	QUANTITIES BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED		UNIT: 3488

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
3-30-11 11-09-11 01-12-12 3-22-12 4-13-12	6	10

FILE => 03-4m2401_06_gp6.dgn

USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	20	23

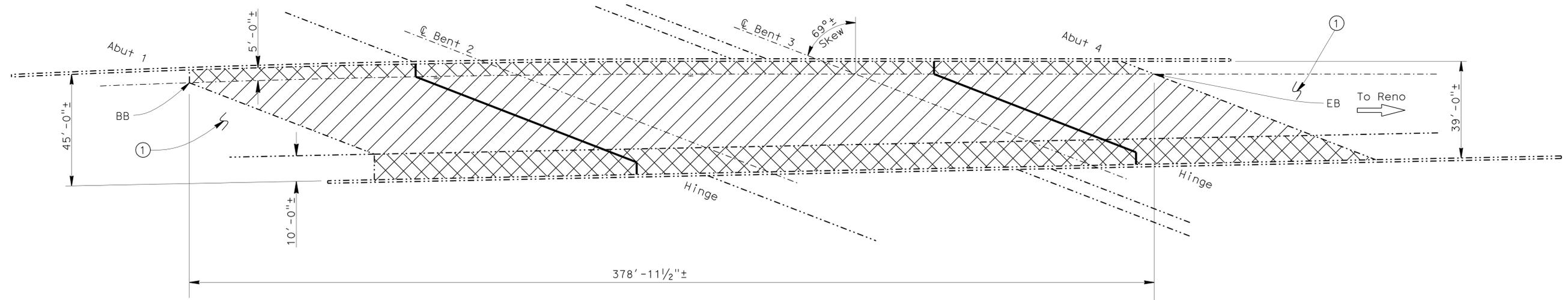
REGISTERED CIVIL ENGINEER *Hossein Moazami* DATE 1-12-12
 PLANS APPROVAL DATE 1-30-12
 No. 60058 Exp. 6-30-2012
 REGISTERED PROFESSIONAL ENGINEER
 HOSEIN MOAZAMI
 CIVIL
 STATE OF CALIFORNIA
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

ROUTE 51/244 CONNECTOR UC BR NO. 24-0293R

QUANTITIES

REMOVE ASPHALT CONCRETE SURFACING	5,685	SQFT
REMOVE UNSOUND CONCRETE	43	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	17,055	SQFT
CLEAN EXPANSION JOINT	218	LF
RAPID SETTING CONCRETE PATCH	43	CF
FURNISH POLYESTER CONCRETE OVERLAY	1,280	CF
PLACE POLYESTER CONCRETE OVERLAY	17,055	SQFT
JOINT SEAL (MR 1 1/2")	218	LF
PUBLIC SAFETY PLAN		LUMP SUM

- Notes:
- Indicates existing structure.
 - Indicates remove existing joint seal and place new joint seal.
 -  Indicates limits of prepare deck, remove unsound concrete, patch with rapid setting concrete and place new 3/4" thick polyester concrete overlay.
 -  Indicates limits of remove 1/2"± AC.
 - ① See Road Plans for conform details.



ROUTE 51/244 CONNECTOR UNDERCROSSING
 BR. NO. 24-0293R, RTE 51, SAC, PM 8.52
 1"=20'

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

 1-12-12 DESIGN ENGINEER	DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	VARIOUS	ROUTE 5, 50, 51 BRIDGES GENERAL PLAN NO. 7				
	DETAILS	BY Trung Lam	CHECKED Timothy Powell	LAYOUT	BY Trung Lam		DIVISION OF MAINTENANCE	VARIOUS					
	QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell	SPECIFICATIONS	BY		PLANS AND SPECS COMPARED	STRUCTURE MAINTENANCE DESIGN		VARIES			
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	UNIT: 3488	PROJECT NUMBER & PHASE: 0300020072 1	CONTRACT NO.: 03-4M2401	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 9-30-11 11-09-11 01-12-12 3-22-12 4-13-12	SHEET 7 OF 10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	21	23

REGISTERED CIVIL ENGINEER	DATE
<i>Hossein Moazami</i>	01-12-12
PLANS APPROVAL DATE	
1-30-12	

No.	60058
Exp.	6-30-2012

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.

TEMPORARY DECKING DESIGN LOADING		
MOMENT DEMAND/FOOT (kip-ft/ft)	BOLT SHEAR/FOOT (kip/ft)	BOLT TENSION (kip)
3.25	8.0	8.0

Plate deflection shall not exceed $s/300$ (s = span of plate).
Maximum anchor bolt spacing = 1'-0".

LOCATION	"b"	"c"
Hinge 2L	1'-0"	10"
Hinge 5L	1'-0"	10"
Hinge 6L	1'-0"	10"

GENERAL NOTES LOAD FACTOR DESIGN

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

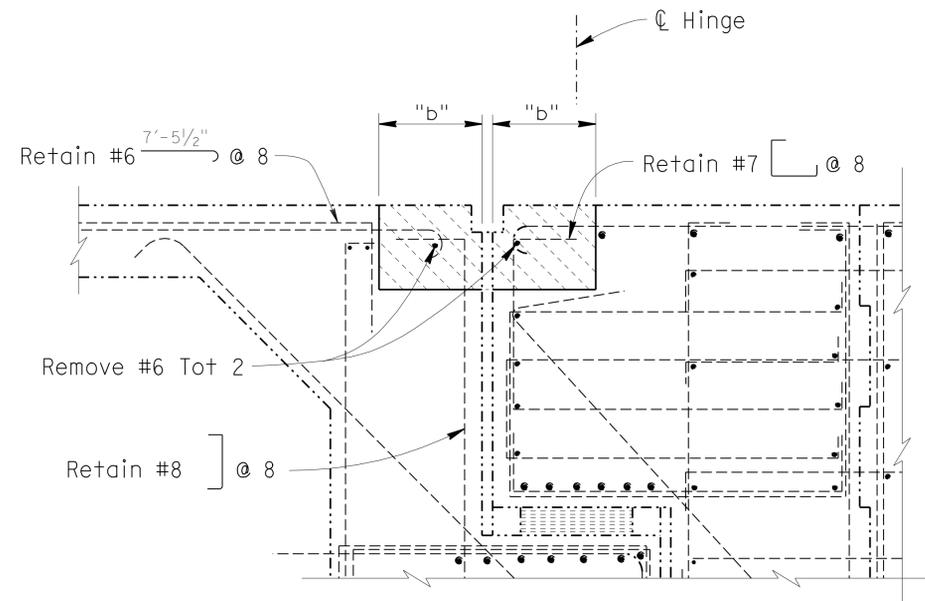
REINFORCED CONCRETE: $f_y = 60$ ksi
 $f'_c = 3.6$ ksi
 $n = 8$

NOTES: (APPLY TO THIS SHEET ONLY)

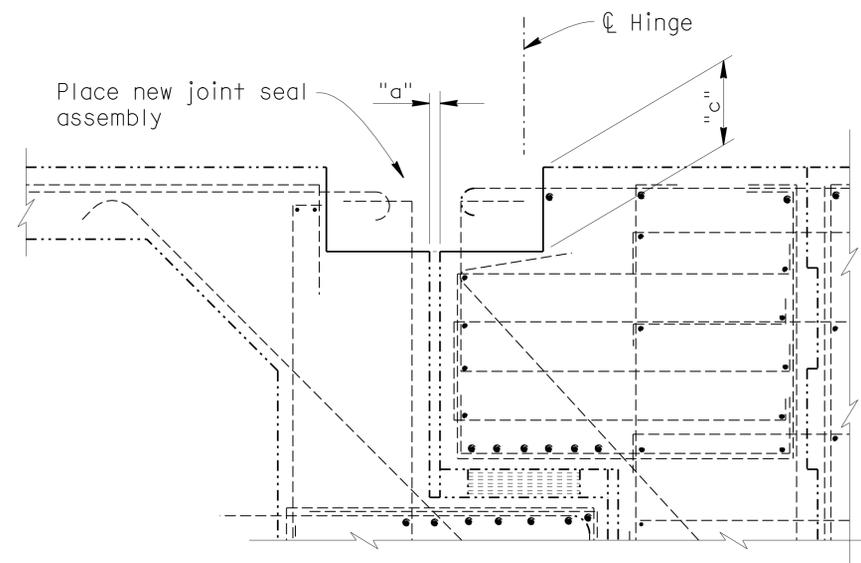
 Indicates limits of remove existing concrete and joint seal assembly. Retain existing reinforcing steel (UON).

"a" Reconstructed gap width as determined by the Engineer.

- For additional details, see "JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")" sheet.



EXISTING



RECONSTRUCTION

SECTION THRU HINGE

Br. No. 24-0291L
No Scale

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

DESIGN	BY	Hossein Moazami	CHECKED	Timothy Powell	BRIDGE NO.	VARIOUS	ROUTE 5, 50, 51 BRIDGES	
	DETAILS	BY	Trung Lam	CHECKED		Timothy Powell		POST MILE
	QUANTITIES	BY	Hossein Moazami	CHECKED		Timothy Powell		VARIES

STATE OF CALIFORNIA	DIVISION OF MAINTENANCE	UNIT: 3488	PROJECT NUMBER & PHASE: 0300020072 1	CONTRACT NO.: 03-4M2401	REVISION DATES	SHEET	OF
DEPARTMENT OF TRANSPORTATION	STRUCTURE MAINTENANCE DESIGN	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	01-12-12 3-22-12 4-10-12 4-13-12	8	10

FILE => 03-4m2401_08_hinge_dets.dgn

USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	SAC	5,50,51	Var	22	23

REGISTERED CIVIL ENGINEER
 DATE: 01-12-12
 PLANS APPROVAL DATE: 1-30-12
 No. 60058
 Exp. 6-30-2012
 CIVIL
 STATE OF CALIFORNIA
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

JOINT SEAL TABLE

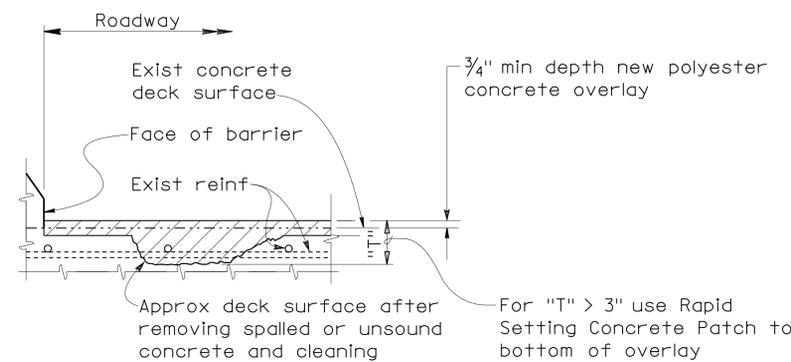
BRIDGE NAME	BRIDGE NO.	LOCATION	MINIMUM "MR" (inches)	APPROXIMATE LENGTH (feet)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (inches)
ELMHURST VIADUCT	24-0228R	Abut 1R	1/2	79	No	12
		Sp 1 Hinge	2	79	Yes	6
		Sp 5 Hinge	2 1/2 *	132	Yes	6
		Sp 6 Hinge	2 1/2 *	108	Yes	6
		Sp 9 Hinge	2	107	Yes	6
		Abut 11R	1/2	109	No	12
15th to 16th St. SEPARATION	24-0247L/R	Abut 1L	1/2	80	No	12
		Abut 1R	1/2	80	No	12
10th St Off-Ramp	24-0247L/R	Sp 3 Hinge L	2 1/2 *	80	Yes	6
		Sp 3 Hinge R	2 1/2 *	80	Yes	6
Route 80 On-Ramp	24-0247L/R	Sp 4 Hinge	2 1/2 *	24	Yes	6
		Sp 6 Hinge	2 1/2 *	24	Yes	6
ROUTE 51/244 CONN. UNDERCROSSING	24-0293R	Sp 4 Hinge	2 1/2 *	29	Yes	6
		Sp 6 Hinge	2 1/2 *	24	Yes	6
ROUTE 51/244 80 SEPARATION 24-0291L	Connector	Hinge 2 L	2 1/2 *	12	Yes	49
			2 1/2 *	15	Yes	49
		Hinge 5 L	2 1/2 *	20	Yes	49
			2 1/2 *	17	Yes	49
		Hinge 6 L	2 1/2 *	19	Yes	49
			2 1/2 *	17	Yes	49
	Flyover	Hinge 2 R	2 1/2 *	41	Yes	49
		Hinge 5 R	2 1/2 *	27	Yes	49
		Hinge 6 R	2	34	Yes	49
		Hinge 9 R	2	27	Yes	49
		Hinge 10 R	2	27	Yes	49
		Longitudinal joint seal	1/2	68	Yes	12

* Compressive Type B Joint Seal

DECK REPAIR TABLE

REMOVE UNSOUND CONCRETE AND PATCH RAPID SETTING CONCRETE			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (percent)	APPROXIMATE DEPTH (inches)
ELMHURST VIADUCT	24-0228R	1	3
ROUTE 51/244 80 SEPARATION	24-0291L	1	3
ROUTE 51/244 CONNECTOR UC	24-0293R	1	3

Location to be determined by the Engineer.

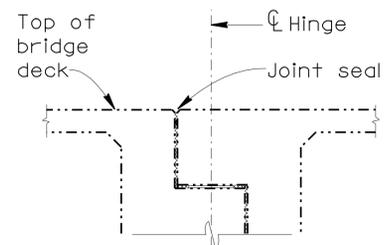


DECK REPAIR AND OVERLAY DETAIL

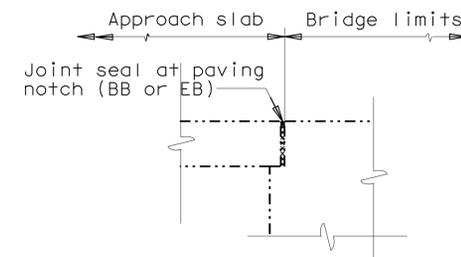
Note: Reinforcement may be encountered during deck concrete removal.
NO SCALE

The following notes apply to JOINT SEAL TYPE B:

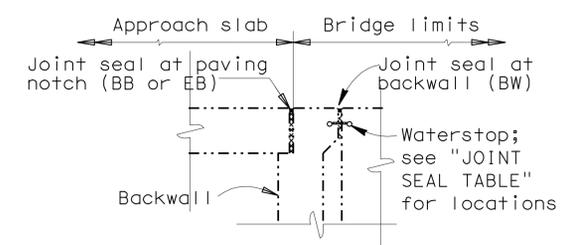
- Seal must satisfy both minimum Movement Rating (MR) and minimum WI requirements.
- Minimum WI is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum WI is to be recalculated by the Engineer.
- WI shall be the smaller of the values determined 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 



HINGE OR EXPANSION JOINT



DIAPHRAGM ABUTMENT



ABUTMENT WITH BACKWALL

JOINT SEAL LOCATION

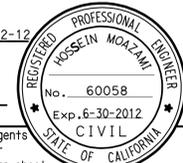
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY Hossein Moazami	CHECKED Timothy Powell	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	ROUTE 5, 50, 51 BRIDGES JOINT SEAL DETAILS
DETAILS	BY Trung Lam	CHECKED Timothy Powell			VARIOUS	
QUANTITIES	BY Hossein Moazami	CHECKED Timothy Powell			VARIES	

UNIT: 3488
 PROJECT NUMBER & PHASE: 0300020072 1 CONTRACT NO.: 03-4M2401
 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS: 0 1 2 3
 DISREGARD PRINTS BEARING EARLIER REVISION DATES: 4-13-12 10-19-11 11-14-11 11-17-11 1-22-12 9 10

USERNAME => 6121289 DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:39

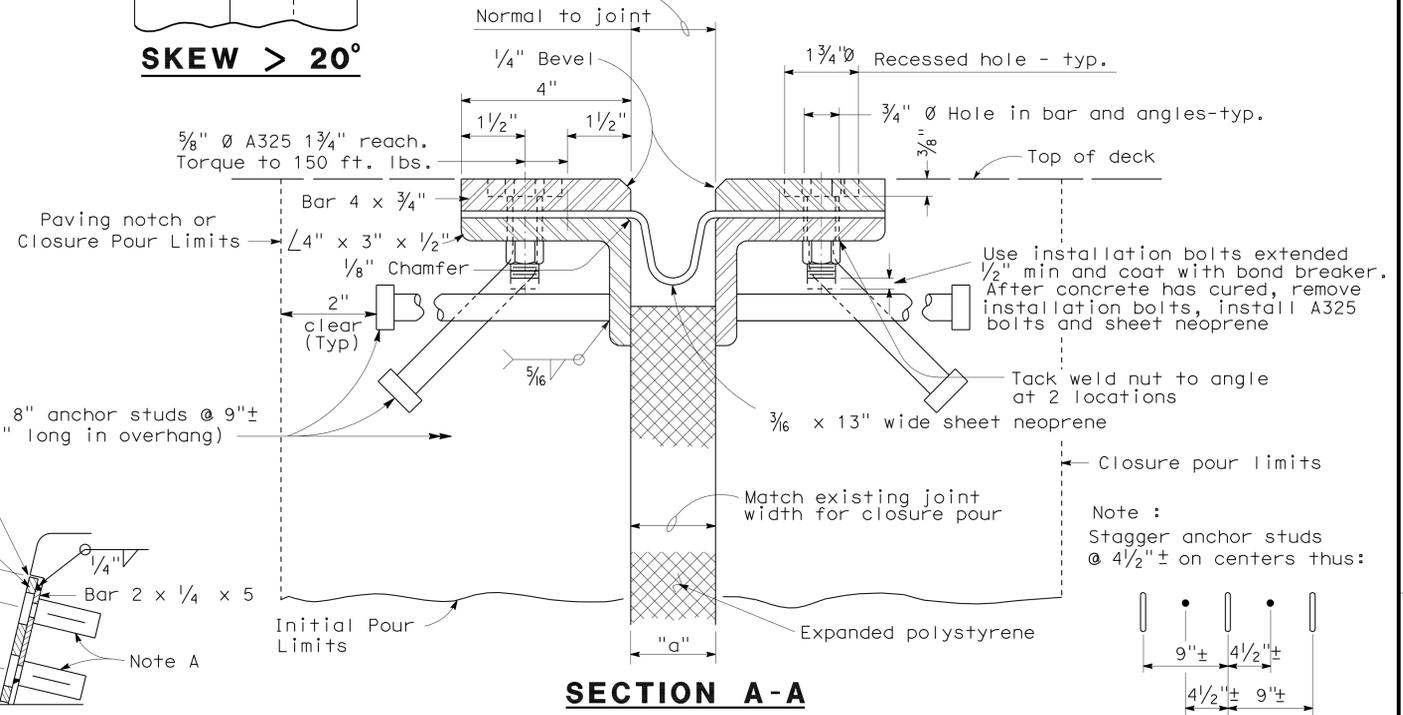
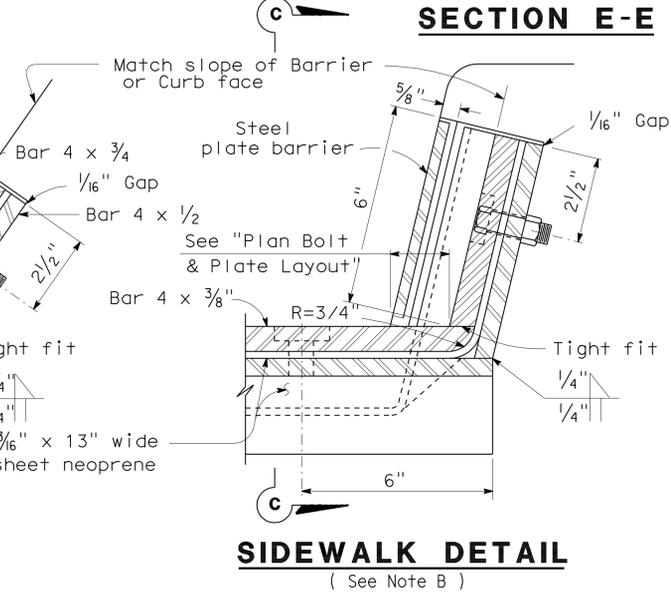
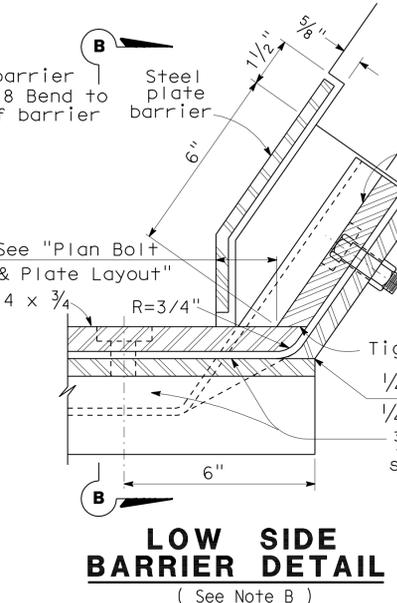
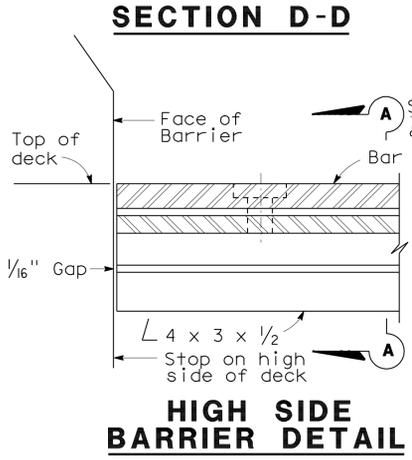
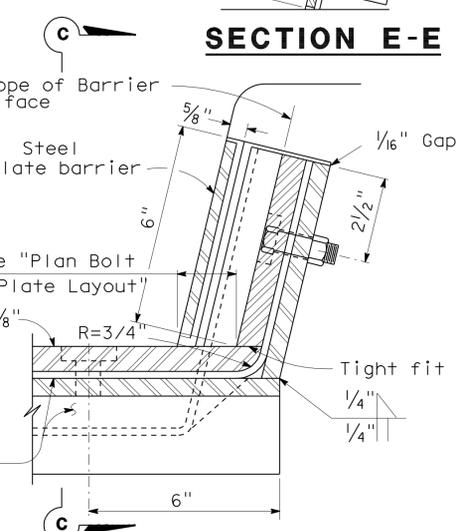
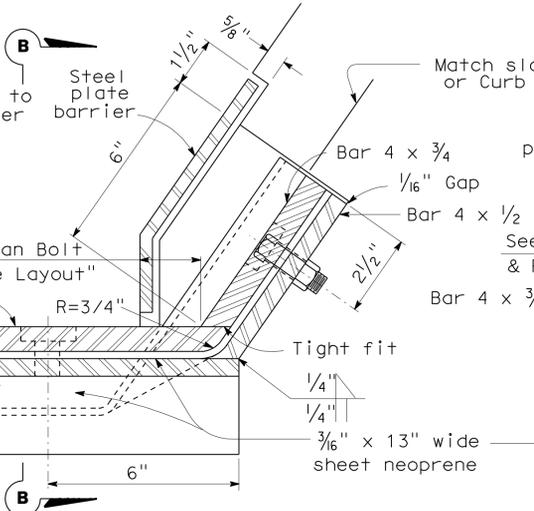
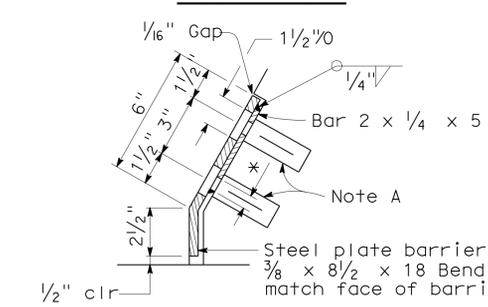
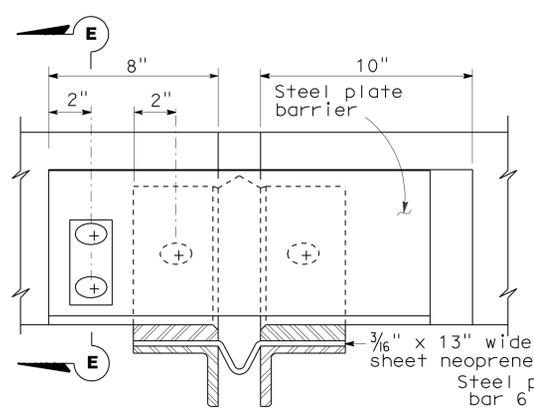
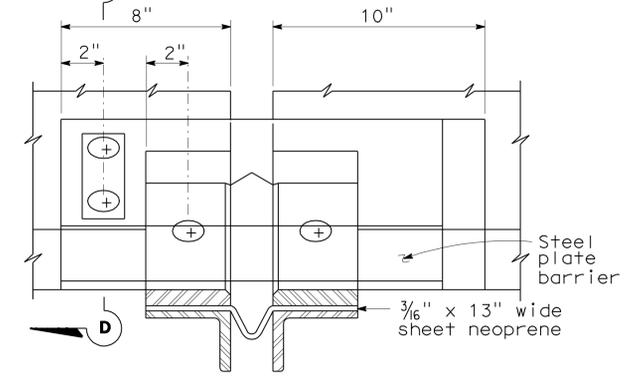
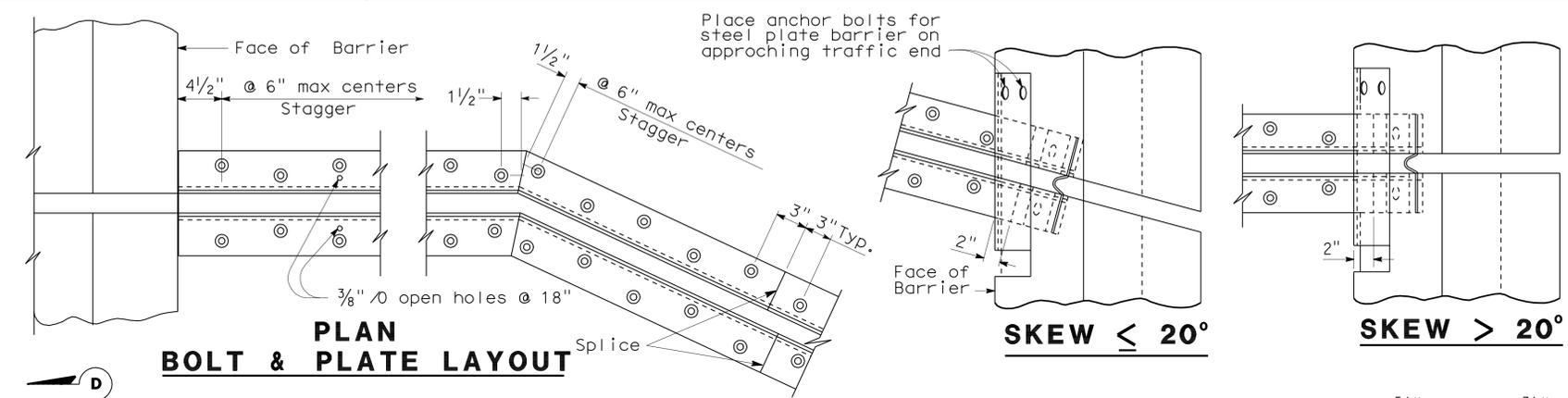
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	SAC	5,50,51	Var	23	23

REGISTERED ENGINEER - CIVIL	01-12-12	
PLANS APPROVAL DATE	1-30-12	

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

1/2" @ max temp - Exact width to be determined by the Engineer



NOTES: Full penetration butt welds may be substituted for fillet welds on all anchor studs. Alternate types of anchor studs may be permitted subject to the approval by the Engineer. Joint seal assembly to be used in conjunction with closure pour. (See other sheets for limits). Closure pour shall not be placed until final deck surface is within the tolerances specified.

Use joint at crown of roadway, at any change in traverse slope in deck and at changes in horizontal direction. Place other joints at or near lanes. All metal parts to be painted or galvanized after fabrication. Sheet neoprene shall be fabricated in one continuous piece or joints shall be vulcanized. Neoprene shall be fabricated to bend around corners. 1" holes in neoprene sheets shall be drilled or punched so that the neoprene is not distorted at the time of installation.

NOTE A
Insert assembly or expansion anchorage for 5/8" x 1 3/4" A325 bolt.

NOTE B

Use the sidewalk Detail at all sidewalk joints. Use the Barrier Detail at both sides if the roadway is crowned or if the difference in elevation between the ends of the seal is 0.5" or less.

NO SCALE

STANDARD DRAWING		APPROVED BY <u>T. DELIS</u> RESPONSIBLE TECHNICAL SPECIALIST		RELEASED BY <u>ROBERTO LACALLE</u> RESPONSIBLE OFFICE CHIEF		BRIDGE NO. VARIOUS		ROUTE 5, 50, 51 BRIDGES	
FILE NO. <u>xs8-010e</u>		APPROVAL DATE <u>5-8-08</u>		RELEASE DATE <u>5-8-08</u>		POST MILE VARIES		JOINT SEAL ASSEMBLY (MAXIMUM MOVEMENT RATING = 4")	
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION						DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN		SHEET 10 OF 10	
DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. 01/11/08)						UNIT: 3488 PROJECT NUMBER & PHASE: 0300020072 1		CONTRACT NO.: 03-4M2401	

DATE PLOTTED => 13-APR-2012 TIME PLOTTED => 14:40