

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-15	SIGN PLANS, DETAILS AND QUANTITIES
16	SUMMARY OF QUANTITIES
17-22	IRRIGATION DETAILS AND QUANTITIES
23-33	LANDSCAPE DETAILS AND QUANTITIES
34	EROSION CONTROL DETAILS AND QUANTITIES
35-37	ELECTRICAL PLANS
38-51	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SACRAMENTO COUNTY IN AND NEAR
ELK GROVE AND SACRAMENTO AT VARIOUS
LOCATIONS FROM COSUMNES RIVER BRIDGE
TO 0.4 MILE NORTH OF FRUITRIDGE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

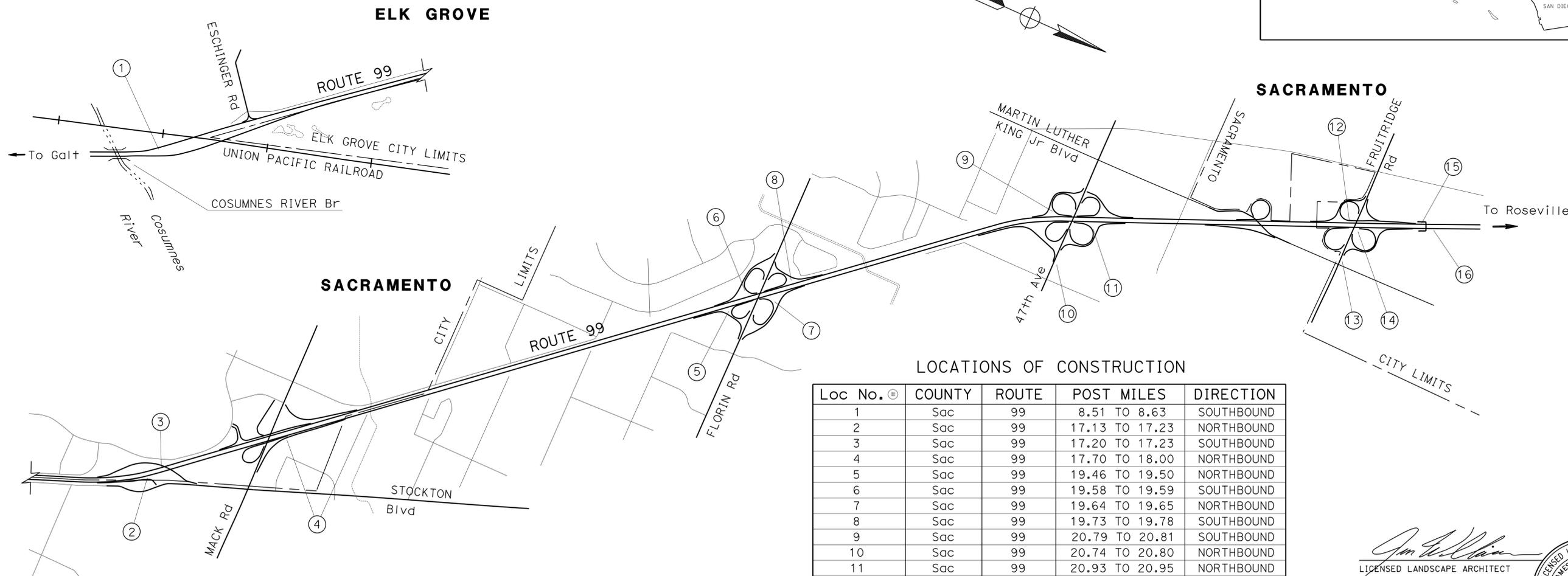
ACNHP-P099(598)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	1	51





LOCATION MAP



LOCATIONS OF CONSTRUCTION

Loc No. #	COUNTY	ROUTE	POST MILES	DIRECTION
1	Sac	99	8.51 TO 8.63	SOUTHBOUND
2	Sac	99	17.13 TO 17.23	NORTHBOUND
3	Sac	99	17.20 TO 17.23	SOUTHBOUND
4	Sac	99	17.70 TO 18.00	NORTHBOUND
5	Sac	99	19.46 TO 19.50	NORTHBOUND
6	Sac	99	19.58 TO 19.59	SOUTHBOUND
7	Sac	99	19.64 TO 19.65	NORTHBOUND
8	Sac	99	19.73 TO 19.78	SOUTHBOUND
9	Sac	99	20.79 TO 20.81	SOUTHBOUND
10	Sac	99	20.74 TO 20.80	NORTHBOUND
11	Sac	99	20.93 TO 20.95	NORTHBOUND
12	Sac	99	21.89 TO 22.10	SOUTHBOUND
13	Sac	99	21.89 TO 21.91	NORTHBOUND
14	Sac	99	21.98	NORTHBOUND
15	Sac	99	22.17 TO 22.24	SOUTHBOUND
16	Sac	99	22.22 TO 22.32	NORTHBOUND


 LICENSED LANDSCAPE ARCHITECT
 LICENSE NO. 5415
 February 29, 2016
 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.



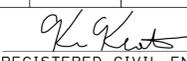
PROJECT MANAGER
NAJED DAKAK
 SENIOR LANDSCAPE ARCHITECT
J. PIETRZAK

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

NO SCALE

CONTRACT No.	03-3F9404
PROJECT ID	0313000241

DATE PLOTTED => 07-APR-2016
 TIME PLOTTED => 14:47
 LAST REVISION: 02-19-16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	2	51
 REGISTERED CIVIL ENGINEER DATE 2-29-16					
2-29-16 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

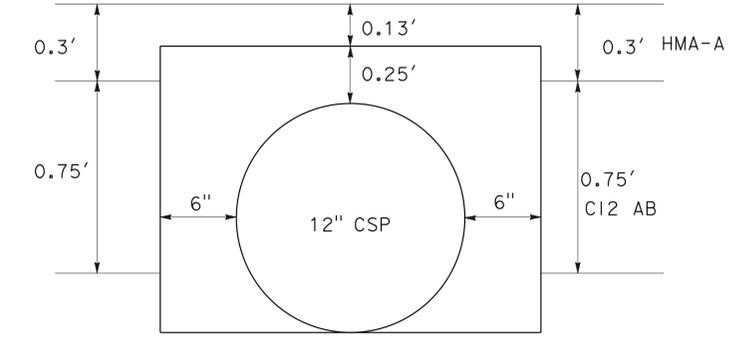
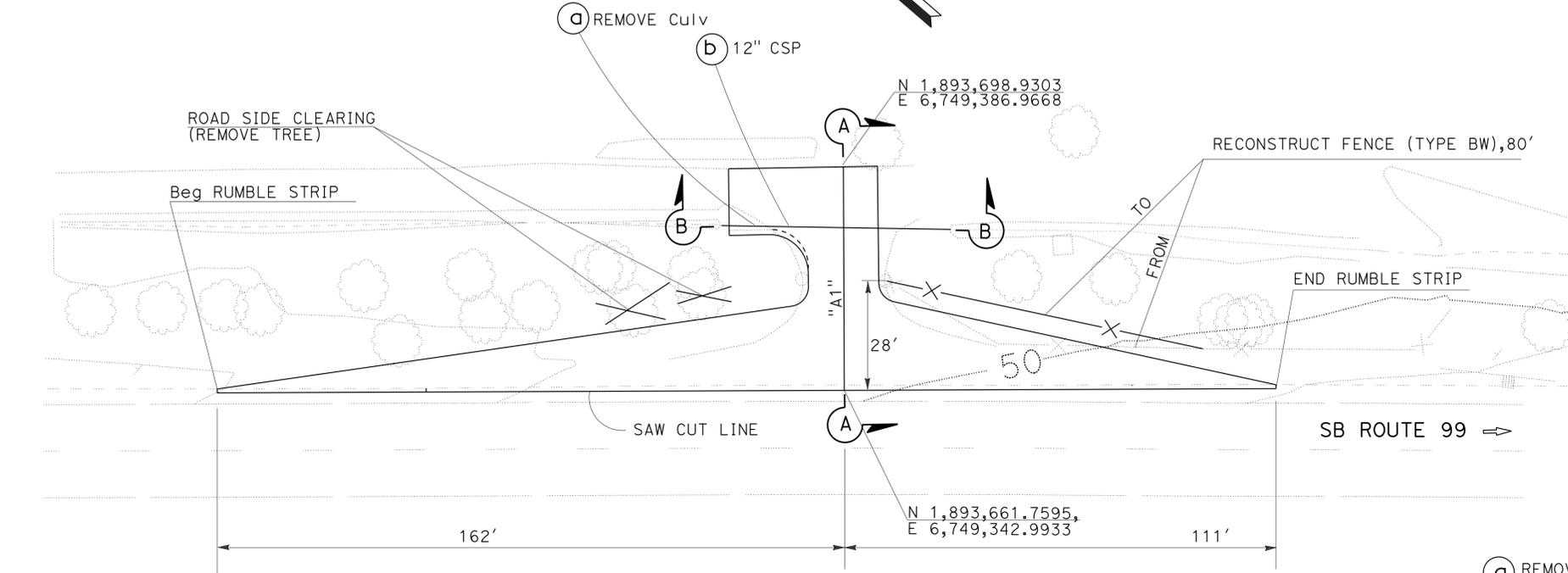
NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- UNLESS OTHERWISE NOTED, ALL VEGETATION WITHIN ROCK COBBLE AND INERT MATERIAL LOCATIONS SHALL BE REMOVED.
- THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

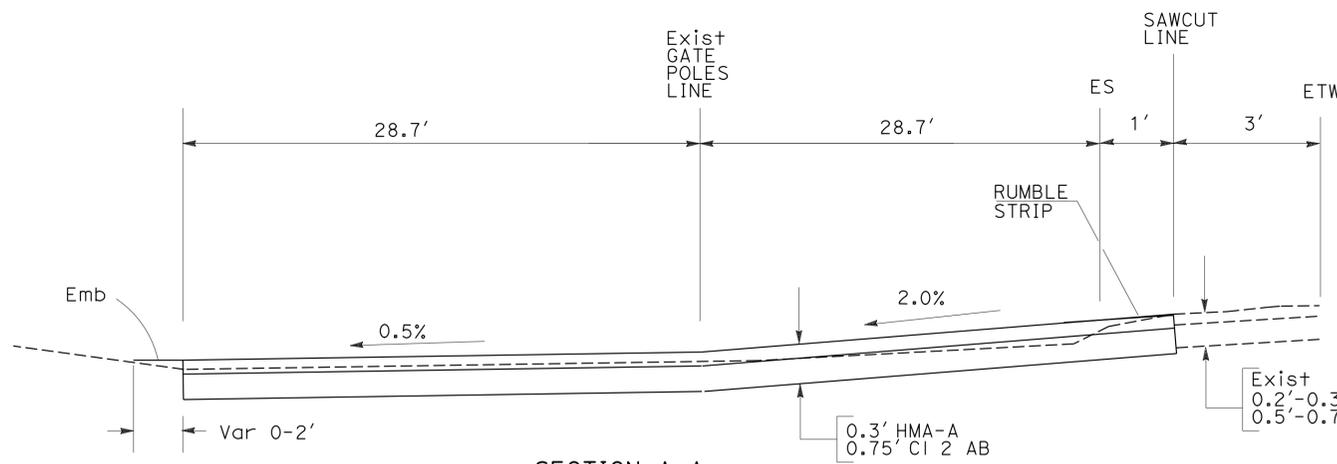
ABBREVIATION:

- HMA-A HOT MIX ASPHALT (TYPE A)
 RUMBLE STRIP SHOULDER RUMBLE STRIP (HMA,GROUND-IN INDENTATION)

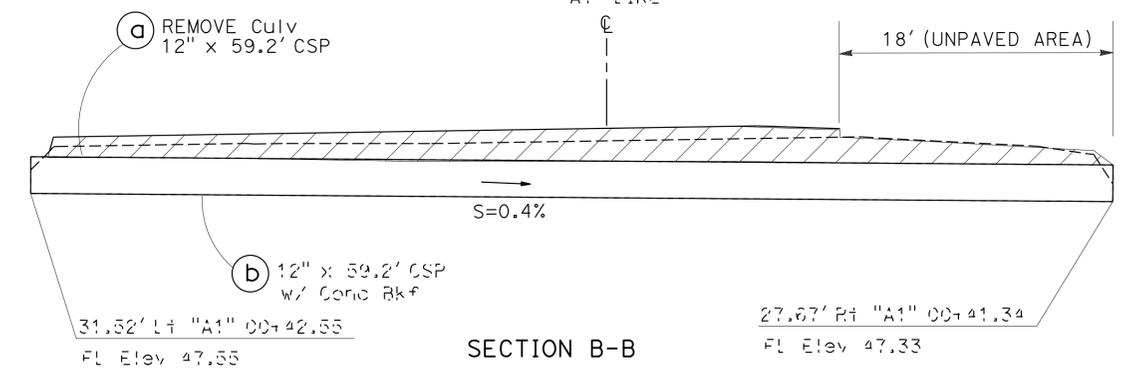
LEGEND:



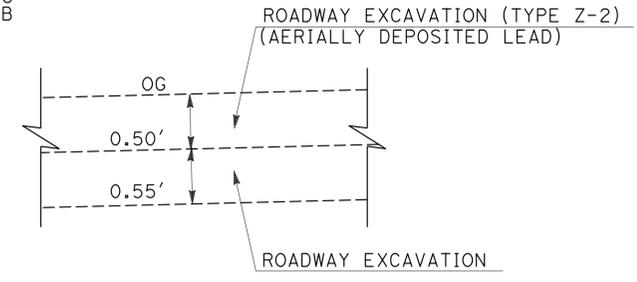
CONCRETE BACKFILL



SECTION A-A



SECTION B-B



ROADWAY EXCAVATION DETAIL

**LOCATION 1
 CONSTRUCTION DETAILS**

NO SCALE

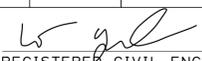
C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 DESIGN
 K. KEATON
 FUNCTIONAL SUPERVISOR
 V. LAO
 D. LE
 REVISOR
 DATE

PM 8.5

LAST REVISION DATE PLOTTED => 07-APR-2016
 00-00-00 TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	4	51

 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. C17266
 Exp. 6-30-17
 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION	COUNTY AND ROUTE	SIGN LOCATION		SIGN CODE	PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS	REMARKS	
		DESCRIPTION	FACING TRAFFIC							
			NB							SB
1	SAC 99	150'± NORTH OF THE MC CONNELL UP		1	C24<CA>	48" x 48"	SHOULDER WORK AHEAD	1 - 6" x 6"	1	IN MEDIAN
		300'± AFTER WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	IN MEDIAN
3	SAC 99	750'± BEFORE WORK AREA		1	C24<CA>	48" x 48"	SHOULDER WORK AHEAD	1 - 6" x 6"	1	
		500'± AFTER WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
5 AND 7	SAC 99	NB Rte 99, 700'± BEFORE LOCATION 5 WORK AREA	1		W20-1	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1	
		NB ON RAMP FROM EB FLORIN Rd, 300'± BEFORE WORK AREA	1		W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	1	
		NB Rte 99, 300'± AFTER LOCATION 7 WORK AREA	1		C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
6 AND 8	SAC 99	SB Rte 99, 700'± BEFORE LOCATION 8 WORK AREA		1	W20-1	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1	
		SB ON RAMP FROM WB FLORIN Rd, 350'± BEFORE WORK AREA		1	W20-1	48" x 48"	ROAD WORK AHEAD	SSBM	1	SEE NOTE 4
		SB Rte 99, 300'± AFTER LOCATION 6 WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
9	SAC 99	SB Rte 99, 500'± BEFORE WORK AREA		1	C23<CA>	48" x 48"	RAMP WORK AHEAD	1 - 6" x 6"	1	
		SB Rte 99, 200'± AFTER WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
11	SAC 99	NB Rte 99, 400'± BEFORE WORK AREA	1		C23<CA>	48" x 48"	RAMP WORK AHEAD	1 - 6" x 6"	1	
		NB Rte 99, 200'± AFTER WORK AREA	1		C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
12 AND 15	SAC 99	SB Rte 99, 500'± BEFORE LOCATION 15 WORK AREA		1	W20-1	60" x 60"	ROAD WORK AHEAD	2 - 4" x 6"	1	
		SB Rte 99, 200'± AFTER LOCATION 12 WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	
16	SAC 99	500'± BEFORE WORK AREA		1	C24<CA>	48" x 48"	SHOULDER WORK AHEAD	1 - 6" x 6"	1	
		300'± AFTER WORK AREA		1	C14<CA>	48" x 24"	END ROAD WORK	1 - 4" x 6"	1	

NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
3. <CA> = CALIFORNIA SIGN CODE.
4. INSTALL PANEL ON ELECTROLIER 2278.

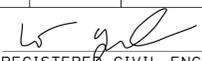
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 CALCULATED/DESIGNED BY: KRIS ALBERS
 CHECKED BY: ALEX WU
 REVISED BY: DATE
 REVISED BY: DATE

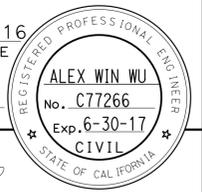
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

CS-1



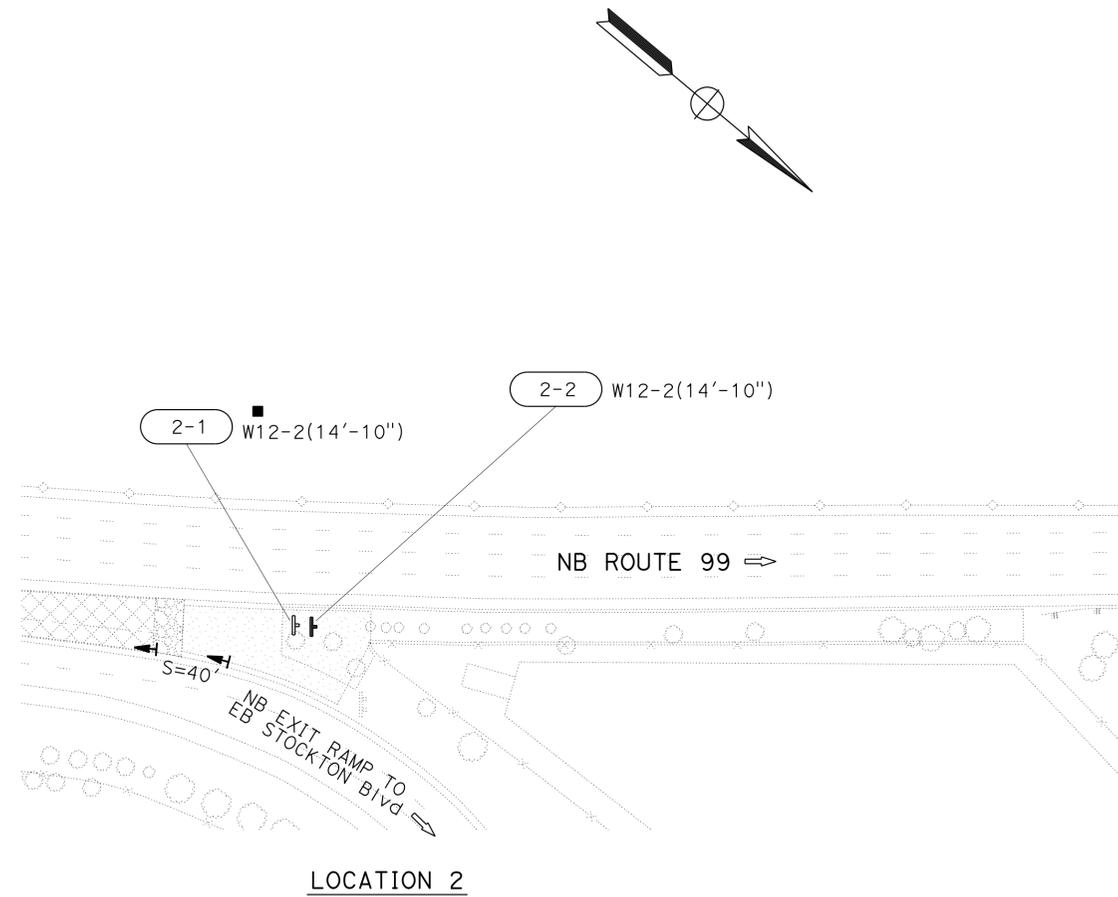
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	6	51
					2-29-16
			REGISTERED CIVIL ENGINEER		DATE
			2-29-16		PLANS APPROVAL DATE
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



NOTES:

1. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	KRIS ALBERS	REVISED BY	
Caltrans	JOYCE K LOFTUS	CHECKED BY	ALEX WU	DATE	
TRAFFIC					



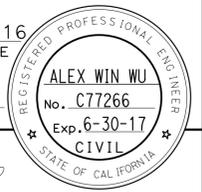
LOCATION 2

SIGN PLAN
NO SCALE

APPROVED FOR SIGN WORK ONLY

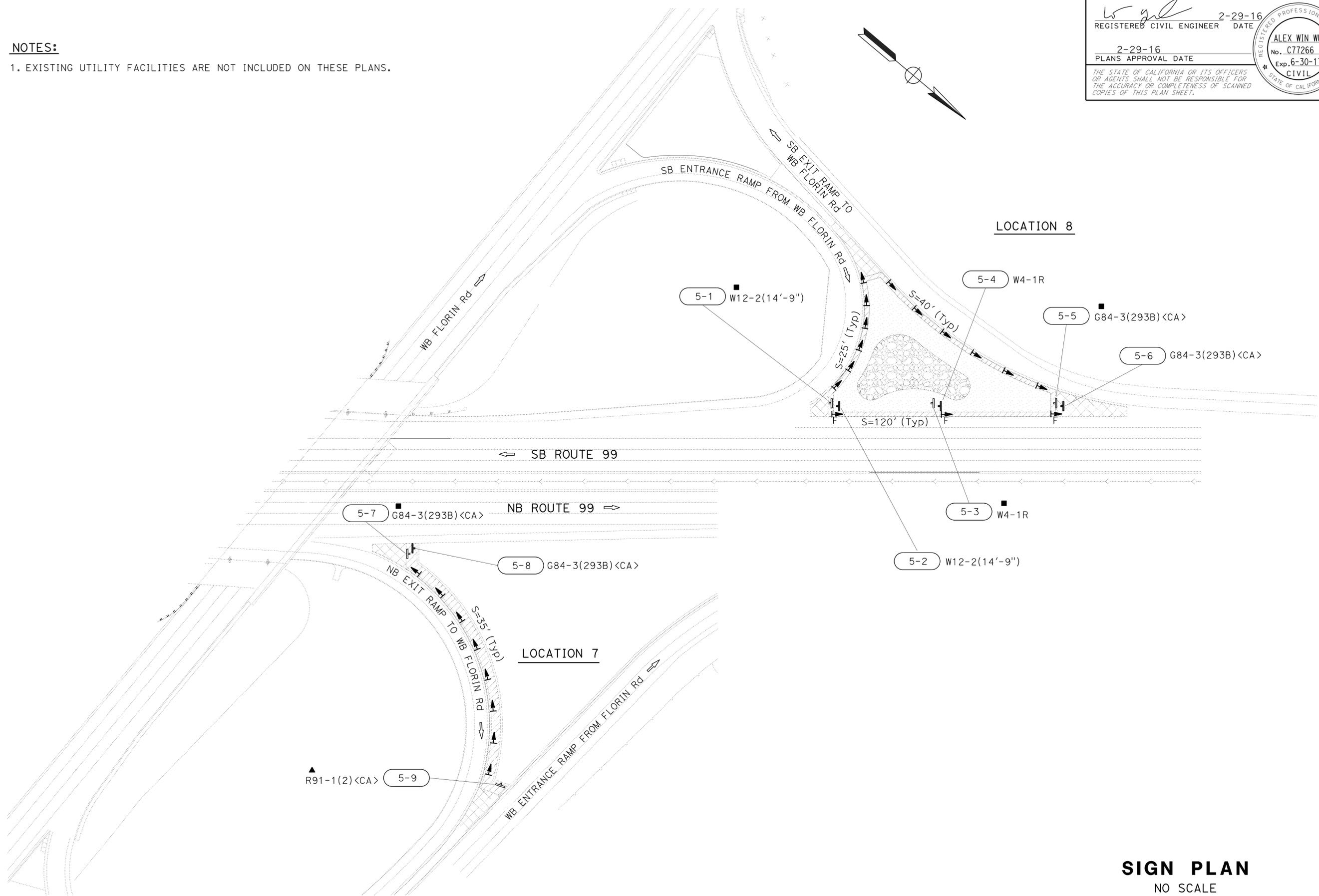
S-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	9	51
			2-29-16	DATE	
REGISTERED CIVIL ENGINEER			DATE		
2-29-16			PLANS APPROVAL DATE		
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NOTES:

1. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans	JOYCE K LOFTUS	KRIS ALBERS	
	TRAFFIC	ALEX WU	
	CHECKED BY	DESIGNED BY	

APPROVED FOR SIGN WORK ONLY

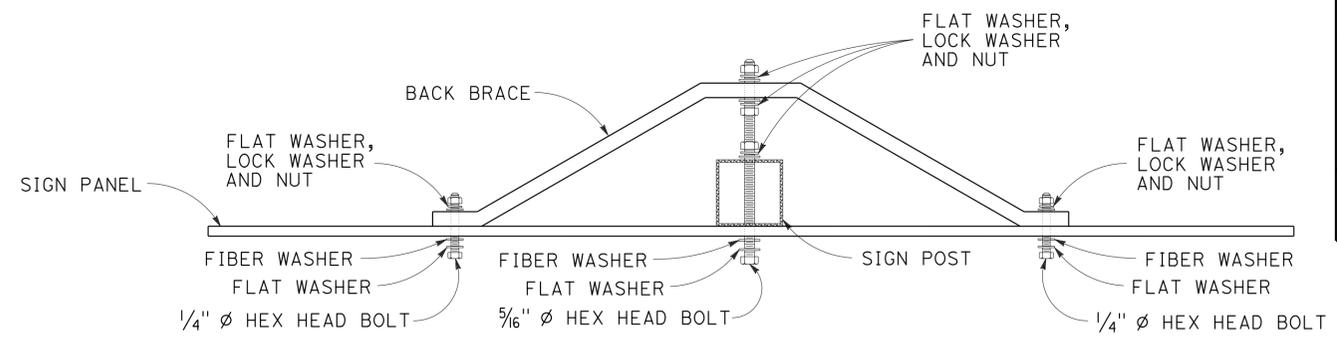
SIGN PLAN
NO SCALE

S-5

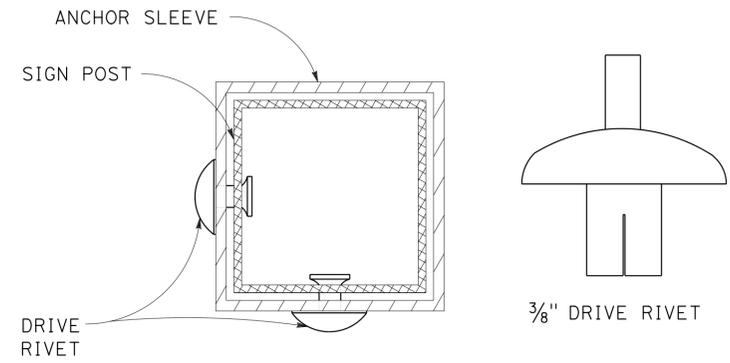
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	13	51
 REGISTERED CIVIL ENGINEER DATE 2-29-16					
2-29-16 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

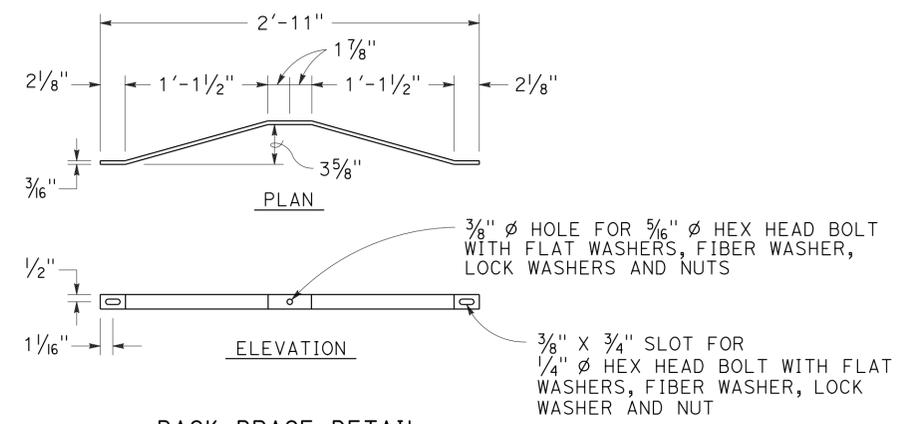
1. THE SIGN POST SHALL HAVE 7/16" DIAMETER PERFORATIONS 1" ON CENTER ON ALL FOUR SIDES FOR THE FULL LENGTH.
2. USE TWO DRIVE RIVETS TO FASTEN ASSEMBLED SIGN AND SIGN POST INTO ANCHOR SLEEVE. INSTALL DRIVE RIVETS INTO THE SIDES FACING TRAFFIC.
3. ALL METAL SIGN POSTS AND ANCHOR SLEEVES SHALL BE GALVANIZED.
4. ALL ANCHOR SLEEVES SHALL BE EMBEDDED IN PCC.
5. BALANCED SINGLE POST INSTALLATIONS OF SINGLE SHEET ALUMINUM PANEL SIGNS REQUIRE BACK BRACES WHEN 2'-10" OR MORE IN LENGTH.
6. WOOD BLOCK SPACERS ARE NOT REQUIRED FOR SIGNS MOUNTED ON METAL POSTS.
7. ATTACH RECTANGULAR SIGN PANEL TO SIGN POST WITH BOLTS AT TOP AND BOTTOM. CENTER MAY BE ATTACHED WITH EITHER BOLT OR 3/8" DRIVE RIVET.
8. ATTACH DIAMOND SIGN PANEL TO SIGN POST WITH BOLT AT CENTER. TOP AND BOTTOM MAY BE ATTACHED WITH EITHER BOLTS OR 3/8" DRIVE RIVETS.
9. FOR DETAILS NOT SHOWN, SEE STANDARD PLANS RS1 AND RS2.



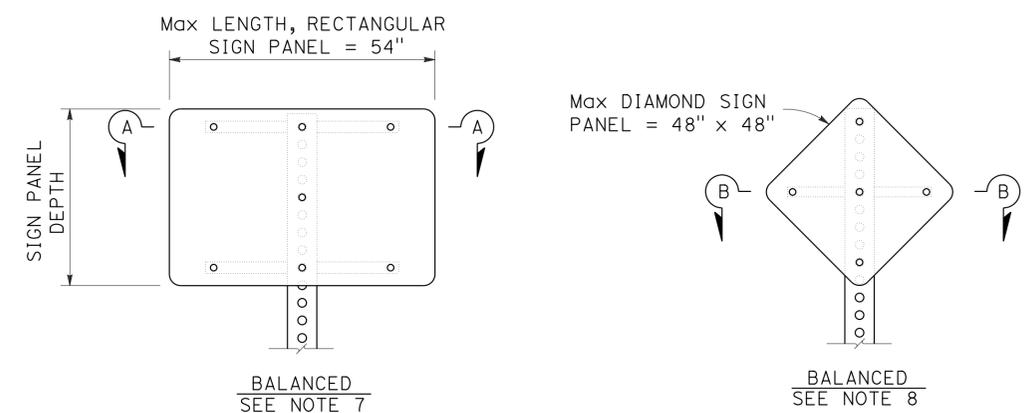
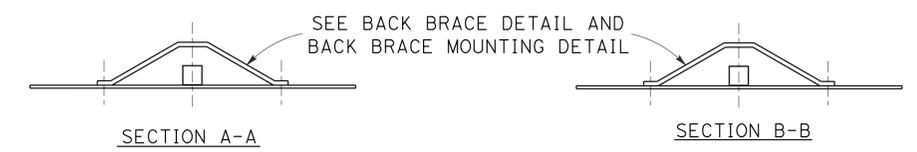
BACK BRACE MOUNTING DETAIL
SEE NOTES 6, 7 AND 8



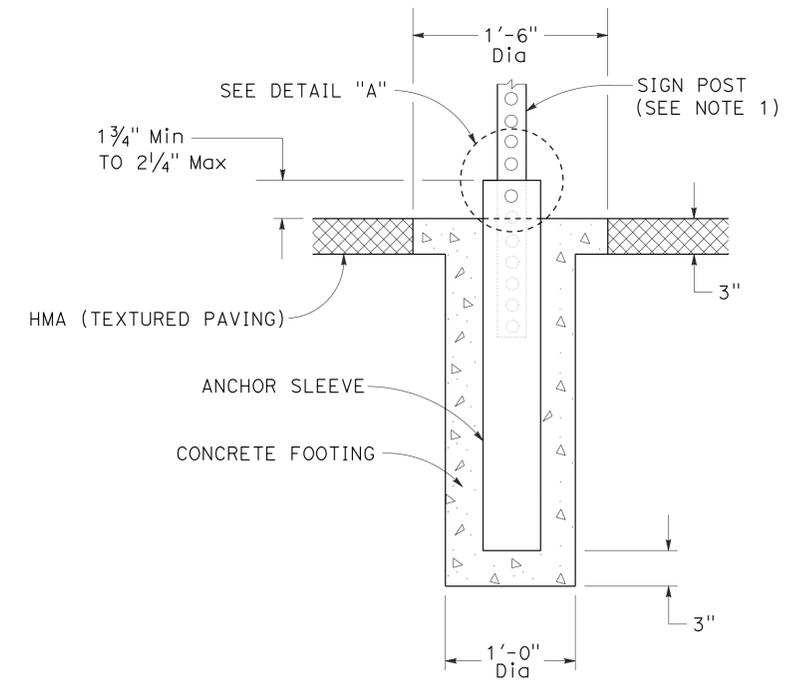
FASTENER DETAIL



BACK BRACE DETAIL
SEE NOTE 5

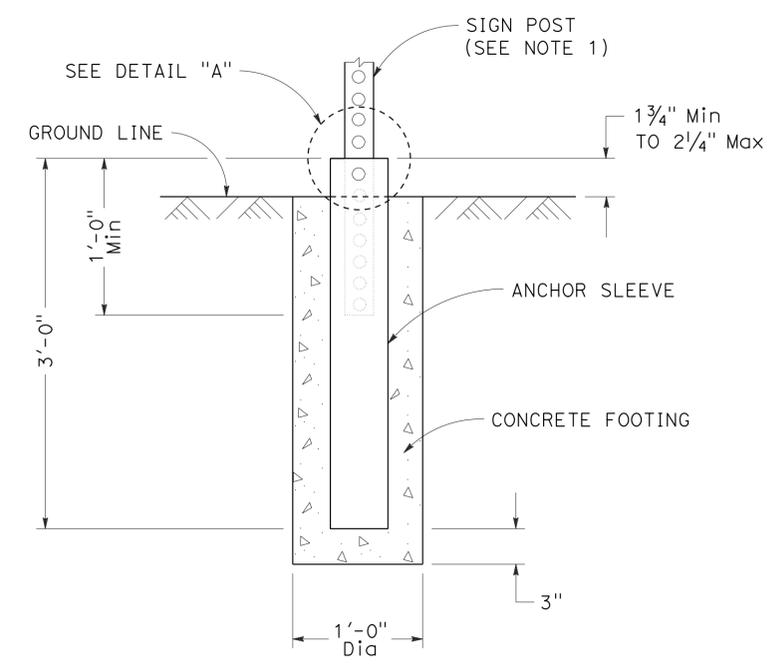


SINGLE POST INSTALLATION

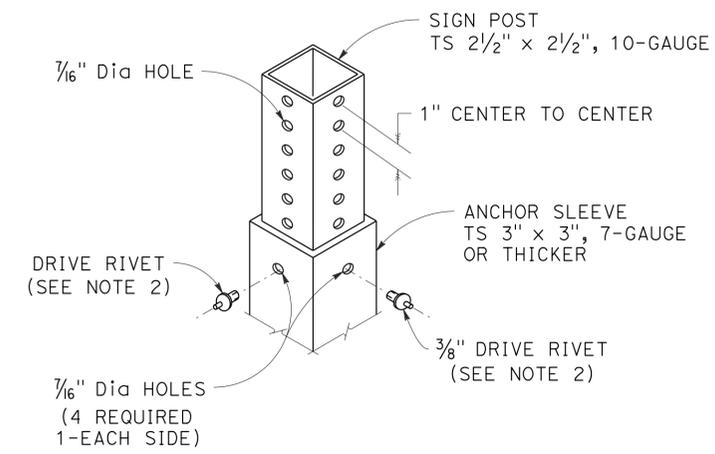


ANCHOR SLEEVE IN HMA (TEXTURED PAVING) DETAIL

FOR DETAILS NOT SHOWN, SEE "ANCHOR SLEEVE DETAIL".



ANCHOR SLEEVE DETAIL



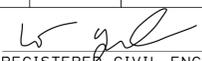
DETAIL "A"

SIGN DETAILS
NO SCALE

APPROVED FOR SIGN WORK ONLY

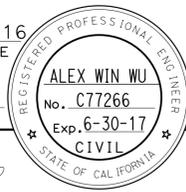
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 TRAFFIC
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 CALCULATED/DESIGNED BY: KRIS ALBERS
 CHECKED BY: ALEX WU
 REVISIONS: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	14	51

 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

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ROADSIDE SIGN QUANTITIES

SIGN NUMBER (SHT-No.)	SIGN CODE	PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH	ROADSIDE SIGN	RESET ROADSIDE SIGN	REMOVE ROADSIDE SIGN	REMARKS
				METAL POST 2 1/2" X 2 1/2"	ONE POST EA	EA	EA	
1-1	W5-2						1	
1-2	W5-2	48 x 48	7	14	1			
1-3	W5-2						1	
1-4	W5-2	48 x 48	7	14	1			
2-1	W12-2(14'-10")						1	
2-2	W12-2(14'-10")	48 x 48	7	14	1			
3-1	W4-1R						1	
3-2	W4-1R	48 x 48	7	14	1			
4-1	W12-2(14'-8")						1	
4-2	W12-2(14'-8")	48 x 48	7	14	1			
4-3	W4-1R						1	
4-4	W4-1R	48 x 48	7	14	1			
4-5	G84-3(293A) <CA>						1	
4-6	G84-3(293A) <CA>	48 x 60	7	14	1			
4-7	G84-3(293A) <CA>						1	
4-8	G84-3(293A) <CA>	48 x 60	7	14	1			
5-1	W12-2(14'-9")						1	
5-2	W12-2(14'-9")	48 x 48	7	14	1			
5-3	W4-1R						1	
5-4	W4-1R	48 x 48	7	14	1			
5-5	G84-3(293B) <CA>						1	
5-6	G84-3(293B) <CA>	48 x 60	7	14	1			
5-7	G84-3(293B) <CA>						1	
5-8	G84-3(293B) <CA>	48 x 60	7	14	1			
5-9	R91-1(2) <CA>					1		EXIST METAL POST
6-1	G84-3(294A) <CA>					1		EXIST METAL POST
6-2	G84-3(294B) <CA>					1		EXIST METAL POST
6-3	R91-1(2) <CA>					1		EXIST METAL POST
7-1	W12-2(15'-0")						1	
7-2	W12-2(15'-0")	48 x 48	7	14	1			
7-3	G84-3(296) <CA>					1		EXIST METAL POST
8-1	R6-3 <CA>					1		EXIST METAL POST
TOTAL					13	6	13	

NOTES:

- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- POST LENGTHS GIVEN ARE APPROXIMATE.
- "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.
- ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS A CALIFORNIA SIGN CODE.
- <CA> = CALIFORNIA SIGN CODE.

HIGHWAY POST MARKER

SHEET NUMBER	RESET HIGHWAY POST MARKER
	EA
S-3	1
S-4	1
S-7	1
TOTAL	3

DELINEATOR (CLASS 1)

SHEET NUMBER	TYPE F	TYPE G
	EA	EA
S-2		2
S-3	4	
S-4		19
S-5	3	20
S-6		13
S-7		5
SUBTOTAL	7	59
TOTAL	66	

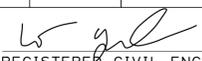
SIGN QUANTITIES

SQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 CALCULATED/DESIGNED BY: ALEX WU
 CHECKED BY: KRIS ALBERS
 REVISIONS: REVISED BY: DATE REVISION:



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	15	51

 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

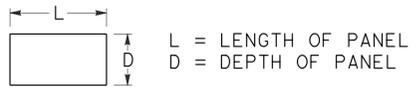
REGISTERED PROFESSIONAL ENGINEER
 ALEX WIN WU
 No. C17266
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

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ROADSIDE SIGN PANEL QUANTITIES

SIGN CODE	SIGN MESSAGE/DESCRIPTION	PANEL SIZE		NUMBER OF PANELS	BACKGROUND		LEGEND		PROTECTIVE- OVERLAY FILM	RETROREFLECTIVE SHEETING (TYPE XI)	FURNISH SINGLE SHEET ALUMINUM SIGN FOR RETROREFLECTIVE SHEETING (TYPE XI)	
		L x D	AREA		SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM		SHEETING (TYPE XI)	UNFRAMED
		INCHES	SQFT									0.080"
G84-3(293A)	EXIT 293A WITH ARROW	48 x 60	20.00	2	GREEN	XI	WHITE	XI	X	40.00	40.00	
G84-3(293B)	EXIT 293B WITH ARROW	48 x 60	20.00	2	GREEN	XI	WHITE	XI	X	40.00	40.00	
W5-2	NARROW BRIDGE	48 x 48	16.00	2	FY	XI	BLACK		X	32.00	32.00	
W12-2(14'-10")	LOW CLEARANCE	48 x 48	16.00	1	FY	XI	BLACK		X	16.00	16.00	
W12-2(14'-9")	LOW CLEARANCE	48 x 48	16.00	1	FY	XI	BLACK		X	16.00	16.00	
W12-2(14'-8")	LOW CLEARANCE	48 x 48	16.00	1	FY	XI	BLACK		X	16.00	16.00	
W12-2(15'-0")	LOW CLEARANCE	48 x 48	16.00	1	FY	XI	BLACK		X	16.00	16.00	
W4-1R	MERGE ARROW	48 x 48	16.00	3	FY	XI	BLACK		X	48.00	48.00	
TOTAL										224.00	224.00	

- NOTES:**
1. FY = FLOURESCENT YELLOW
 2. <CA> = CALIFORNIA SIGN CODE



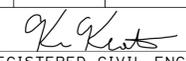
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: JOYCE K LOFTUS
 CALCULATED/DESIGNED BY: KRIS ALBERS
 CHECKED BY: ALEX WU
 REVISED BY: DATE
 REVISIONS:

SIGN QUANTITIES

SQ-2

LAST REVISION: 1-26-16
 DATE PLOTTED => 07-APR-2016
 TIME PLOTTED => 14:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	16	51

 2-29-16
 REGISTERED CIVIL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 No. 45864
 Exp. 12-31-16
 CIVIL
 STATE OF CALIFORNIA

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

TURNOUT

LOCATION No. ⑥										
	(*)	(*)	(*)	(*)	(*)					
	ROADWAY EXCAVATION	ROADWAY EXCAVATION (TYPE Z-2)(AERIALY DEPOSITED LEAD)	CLASS 2AB	HOT MIX ASPHALT (TYPE A)	TACK COAT	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATION)	REMOVE CULVERT	12" CORRUGATED STEEL PIPE (0.79" THICK)	MINOR CONCRETE (BACKFILL)	RECONSTRUCT FENCE (TYPE BW)
	CY	CY	CY	TON	TON	STA	EA	LF	CY	LF
1	74	68	127	101	0.22	3	1	59.2	3	80
SUBTOTAL	74	68	127	101	0.22	--	--	--	--	--
TOTAL	--	--	--	--	--	3	1	59.2	3	80

* - SEE LANDSCAPE QUANTITIES SHEETS FOR FINAL TOTALS.

ROADSIDE CLEARING

LOCATION No. ⑥	ROADSIDE CLEARING	COMMENTS
1	X	REMOVE 2 TREES

X - DENOTES REQUIREMENT, SEE LANDSCAPE QUANTITIES.

SLOPE PAVING

LOCATION No. ⑥	SLOPE PAVING (CONCRETE)
	CY
3	52
TOTAL	52

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT J. PIETRZAK
 J. WILLIAMSON
 J. WHITE
 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

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (psi)	PLUS/MINUS 5%				FLOW SHUTOFF DEVICE			SPRINKLER ASSEMBLY			REMARKS
				DISCHARGE		RADIUS (ft)	WIDTH x LENGTH (ft)	TYPE	POP-UP		INLET CONNECTION (NPT INCH)	SPRINKLER PROTECTOR (TYPE)		
				GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)				TYPE	TYPE				
▲	SPRINKLER ASSEMBLY POP-UP)	H	30	1.85	--	15	--	--	II	1/2	I	6" POP-UP, Adj ARC		

LEGEND:

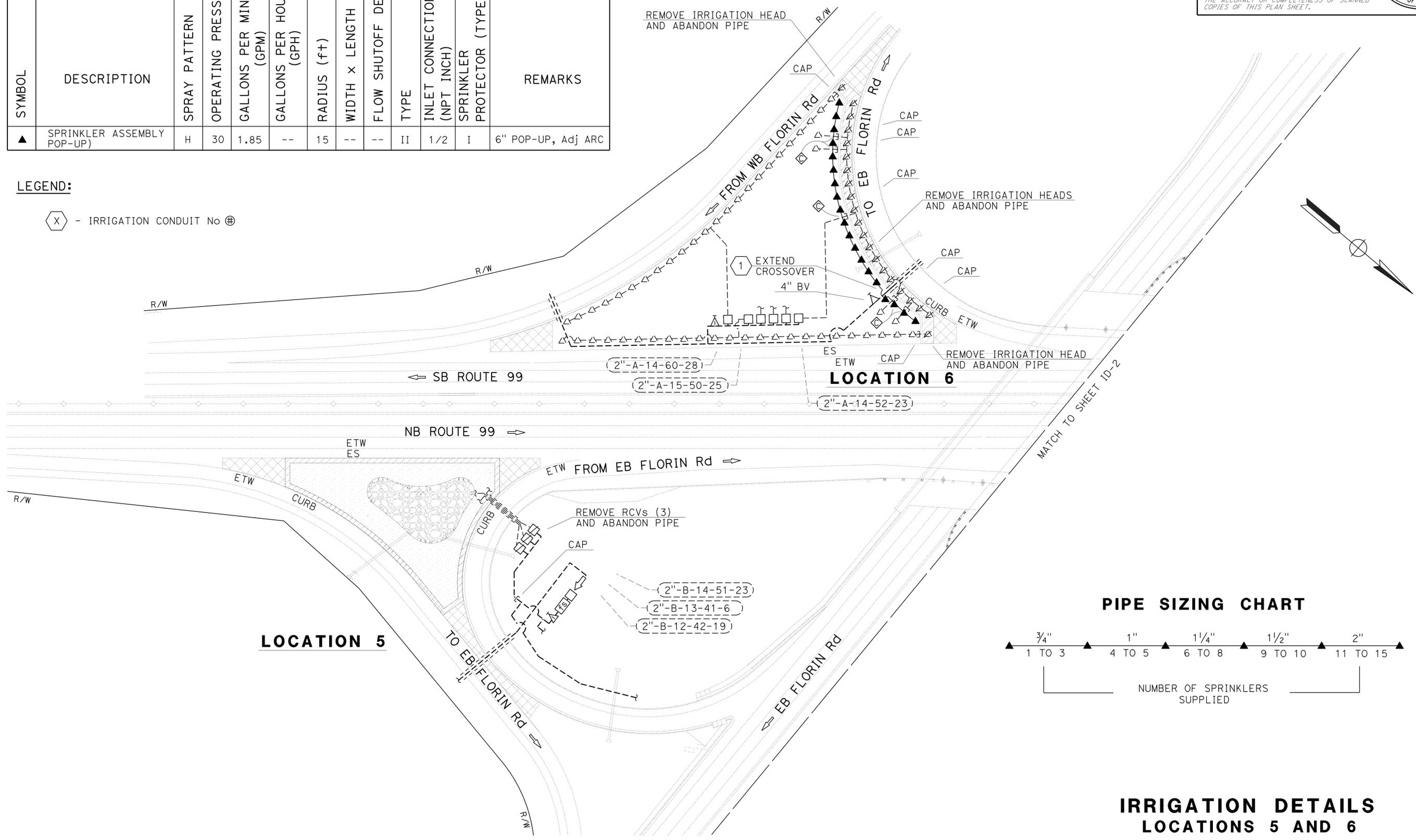
⊗ - IRRIGATION CONDUIT No ⊕

NOTES:

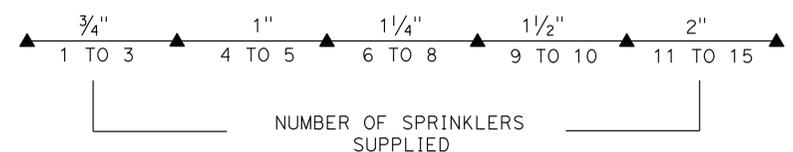
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	17	51


 LICENSED LANDSCAPE ARCHITECT
 2-29-16
 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.

PIPE SIZING CHART



IRRIGATION DETAILS LOCATIONS 5 AND 6

SCALE 1" = 50'

ID-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	18	51

2-29-16
 PLANS APPROVAL DATE

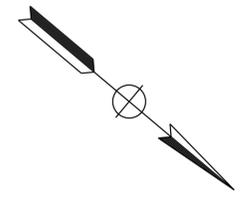
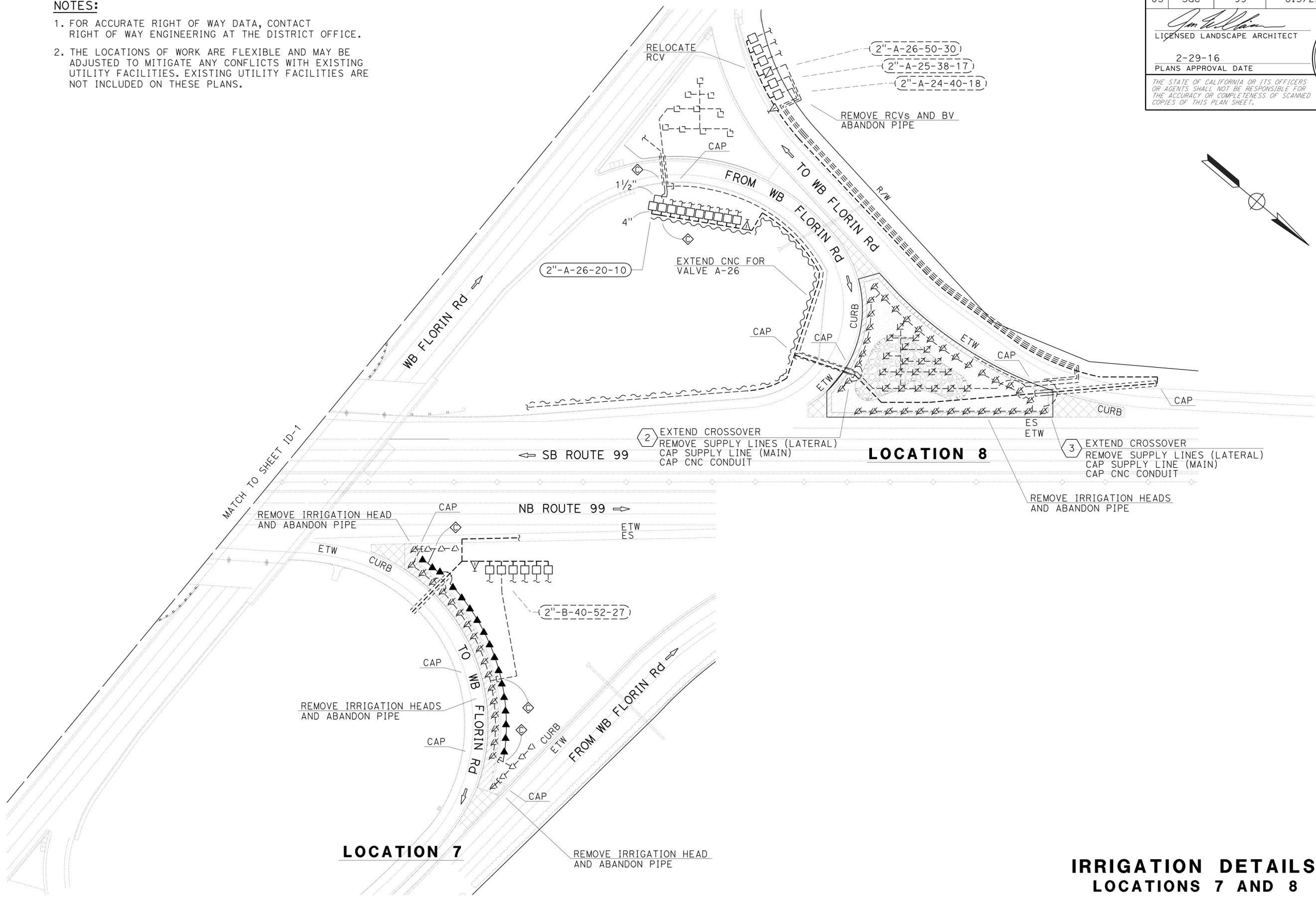
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTES:

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- THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	DESIGNED BY	REVISOR
Caltrans LANDSCAPE ARCHITECTURE	J. PIETRZAK	J. WILLIAMSON	J. WHITE
	CHECKED BY	DATE	REVISION



**IRRIGATION DETAILS
LOCATIONS 7 AND 8**
SCALE 1" = 50'

ID-2

LAST REVISION DATE PLOTTED => 07-APR-2016
 02-19-16 TIME PLOTTED => 1:4:28

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 J. PIETRZAK

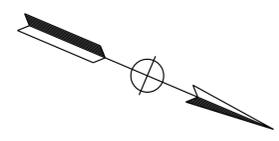
CALCULATED/DESIGNED BY
 CHECKED BY

J. WILLIAMSON
 J. WHITE

REVISED BY
 DATE REVISED

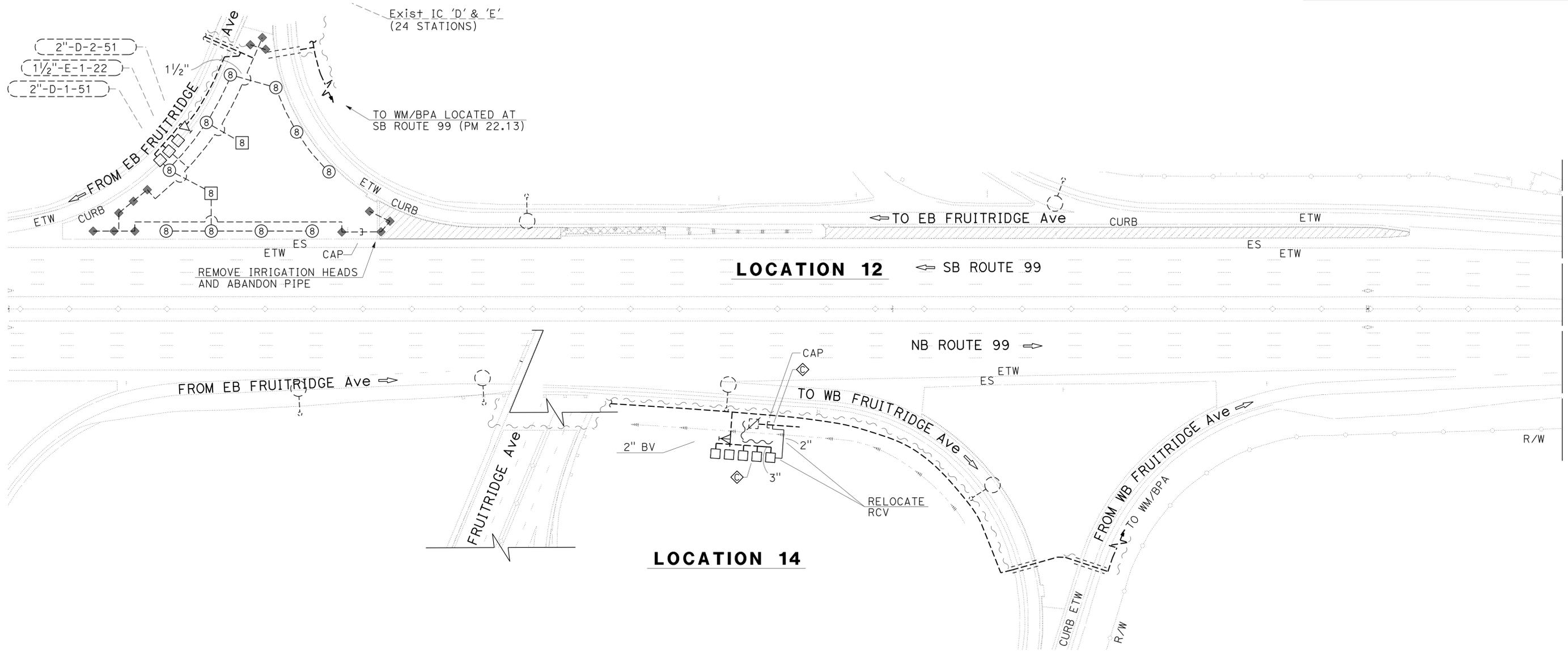
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	20	51

LICENSED LANDSCAPE ARCHITECT
 JAMES G. WILLIAMSON
 No. 5415
 2-29-16
 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.



IRRIGATION DETAILS
LOCATIONS 12 AND 14
 SCALE 1" = 50'
ID-4

LAST REVISION DATE PLOTTED => 07-APR-2016
 02-19-16 TIME PLOTTED => 1:4:28

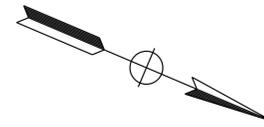
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	21	51


 LICENSED LANDSCAPE ARCHITECT
 2-29-16
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

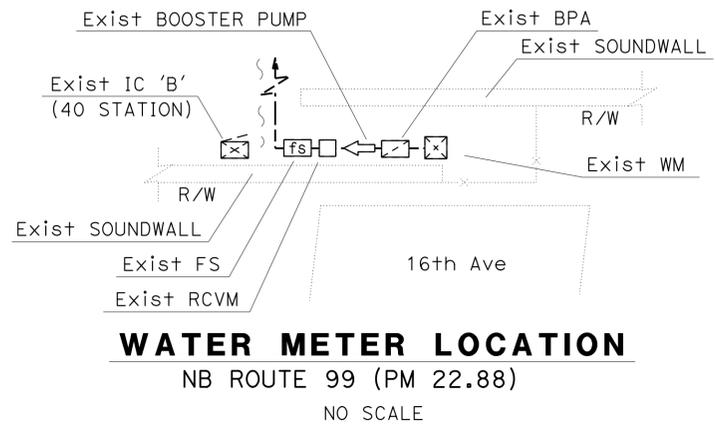
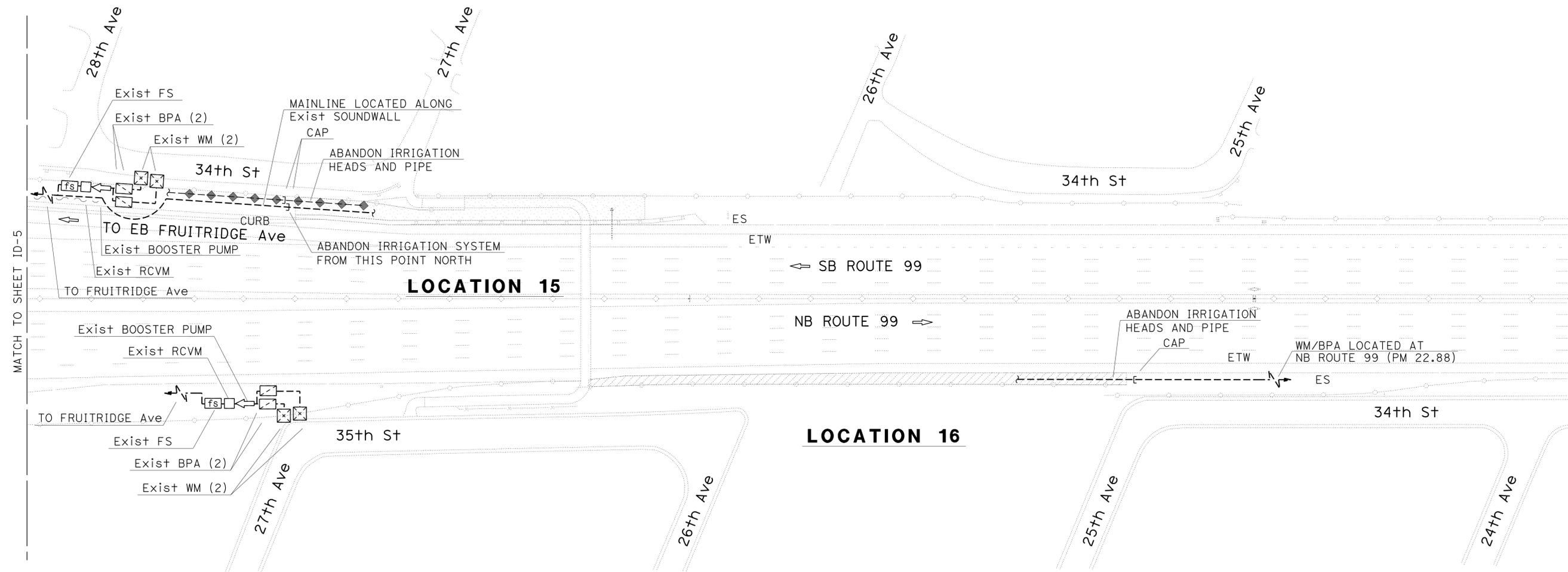


NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	J. WILLIAMSON	J. WHITE
SENIOR LANDSCAPE ARCHITECT	CHECKED BY	DESIGNED BY
J. PIETRZAK		



**IRRIGATION DETAILS
LOCATIONS 15 AND 16**

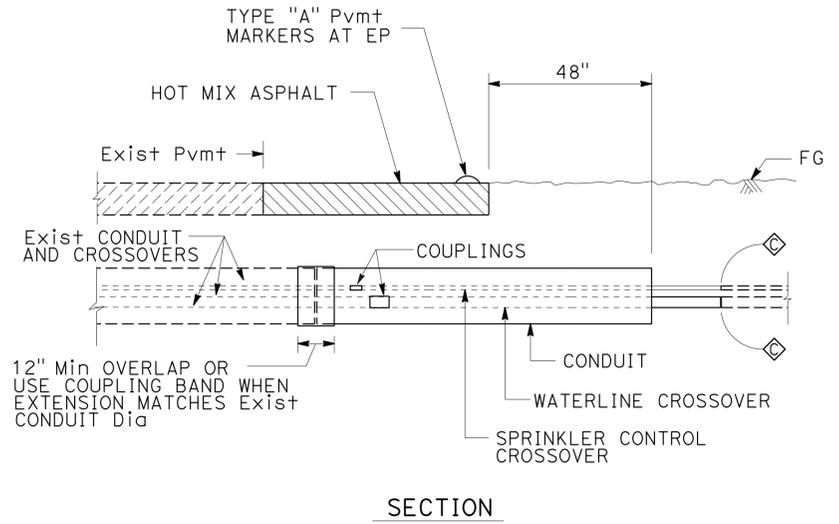
SCALE 1" = 50'

ID-5

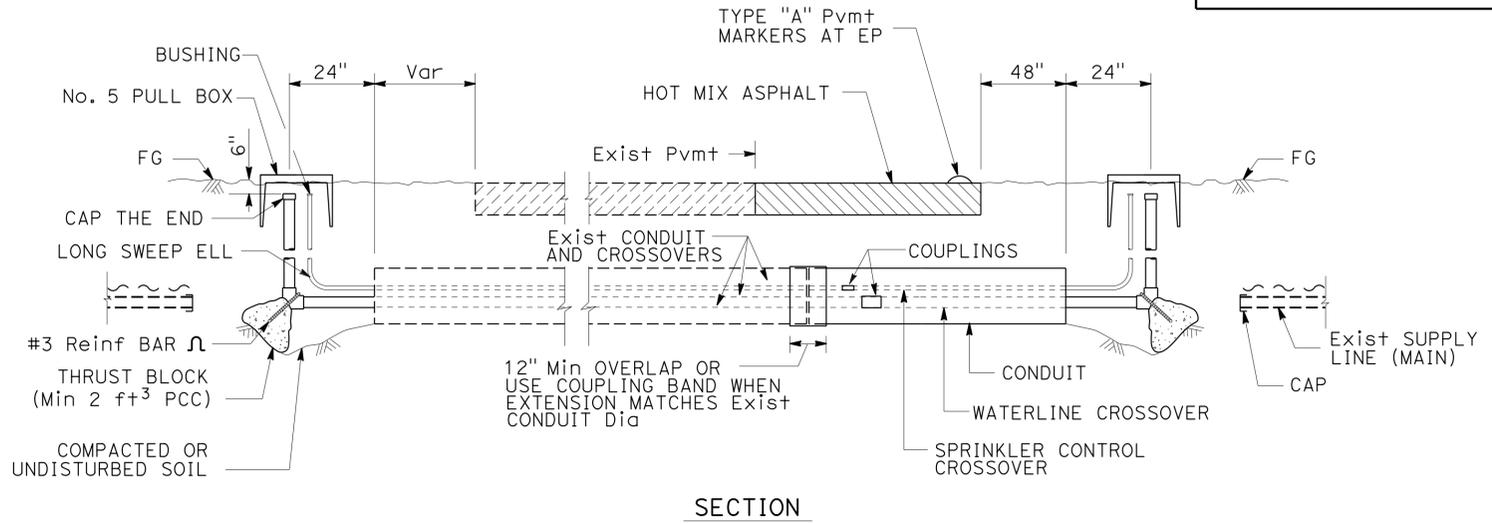
LAST REVISION DATE PLOTTED => 07-APR-2016 02-19-16 TIME PLOTTED => 14:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	22	51

LICENSED LANDSCAPE ARCHITECT
 2-29-16
 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.



SECTION
EXTEND IRRIGATION CROSSOVER (Typ)



SECTION
EXTEND IRRIGATION CROSSOVER

LOCATION 8
 (2) (3)

IRRIGATION CONDUIT

SHEET No.	LOCATION No.	IRRIGATION CONDUIT No.	SIDE		EXTENSION CONNECTION TYPE		(N) WATER SUPPLY LINE	(N) SPRINKLER CONTROL CONDUIT	CORRUGATED HIGH DENSITY POLYETHYLENE PIPE					
			L+	R+	CB	OL	SIZE (INCH)	SIZE (INCH)	CONDUIT SIZE (INCH)					
									8"	12"	14"			
ID-1	6	1	X		X		4"	2"	6'					
ID-2	8	2	X		X		4"	2"		6'				
ID-2	8	3	X		X		4"	2"			12'			
ID-3	9	4	X		X		3"	2"	12'					
ID-3	11	5	X		X		3"	2"	8'					
TOTAL									26'	6'	12'			

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
 X - DENOTES REQUIREMENT

ABBREVIATIONS:
 CB - COUPLING BAND
 OL - OVERLAP

IRRIGATION QUANTITIES

SHEET NUMBER	LOCATION NUMBER	BV	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)						PLASTIC PIPE (CLASS 315) (SUPPLY LINE)			SPRINKLER ASSEMBLY
			2"	4"	3/4"	1"	1 1/4"	1 1/2"	2"	3"	4"	POP-UP
			EA	EA	LF	LF	LF	LF	LF	LF	LF	EA
ID-1	6	--	1		65	20	85	60	30	--	6	19
ID-2	7	--	--		25	45	95	55	55	--	--	17
ID-2	8	--	--		--	--	--	20	--	--	25	--
ID-3	9	--	--		--	--	--	--	--	12	--	--
ID-3	11	--	--		--	--	--	--	--	8	--	--
ID-4	14	1	--		--	--	--	--	50	20	--	--
TOTAL		1	1		90	65	180	135	135	40	31	36

IRRIGATION DETAILS AND QUANTITIES

ID-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 J. WILLIAMSON
 J. WHITE
 J. PIETRZAK

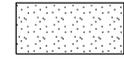
LAST REVISION DATE PLOTTED => 07-APR-2016 02-19-16 TIME PLOTTED => 1:4:28

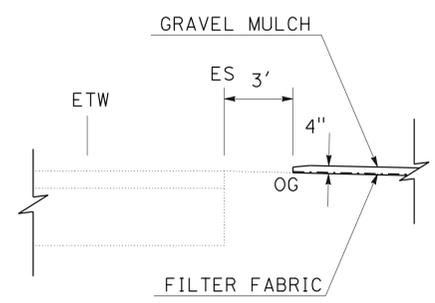
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	23	51


 LICENSED LANDSCAPE ARCHITECT
 No. 5415
 2-29-16
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

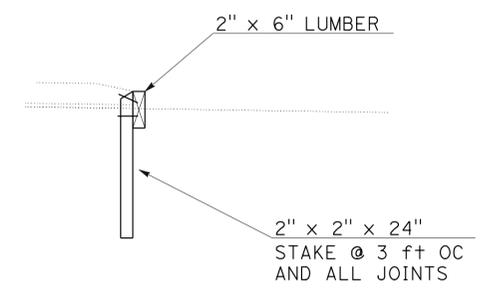


- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - UNLESS OTHERWISE NOTED, ALL VEGETATION WITHIN INERT MATERIAL LOCATIONS SHALL BE REMOVED.
 - THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.

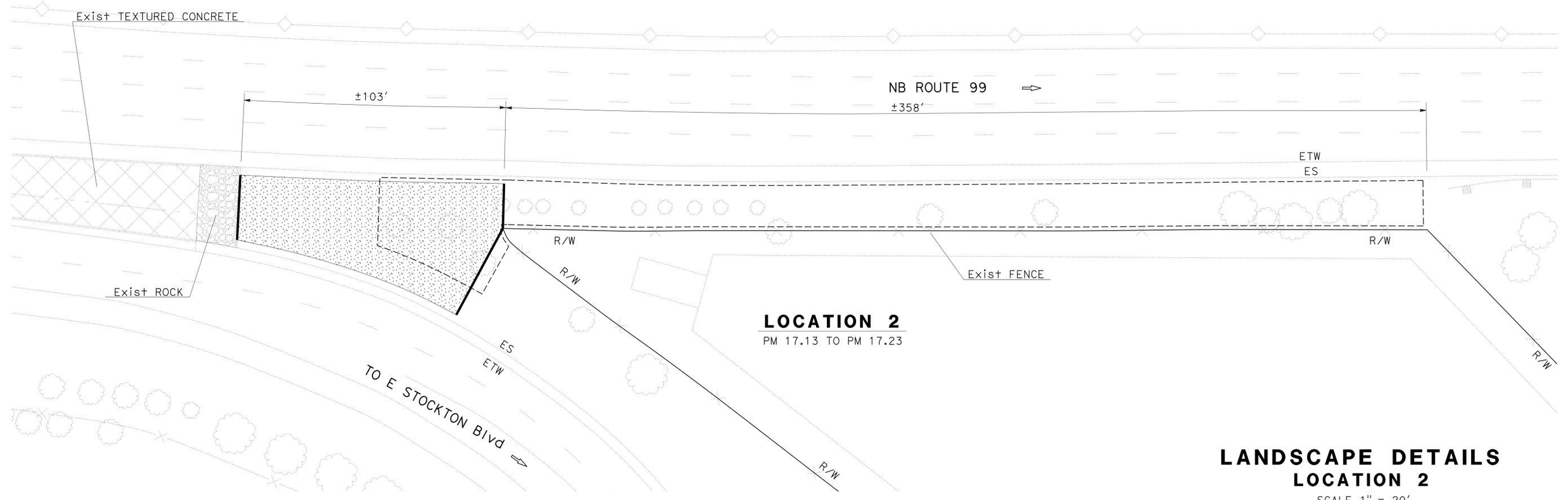
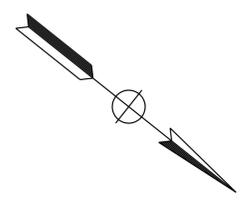
- LEGEND:**
-  GRAVEL MULCH
 -  ROADSIDE CLEARING (REMOVE SHRUBS AND TREES)
 -  EDGING



GRAVEL MULCH
NO SCALE



EDGING
NO SCALE



LOCATION 2
PM 17.13 TO PM 17.23

LANDSCAPE DETAILS
LOCATION 2

SCALE 1" = 20'

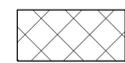
LD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	J. PIETRZAK	J. WILLIAMSON	J. WHITE
CALCULATED/DESIGNED BY	CHECKED BY		

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
3. FEATHER EDGE OF ASPHALT COMPOSITE TRANSITION UP POSTS AND BACK OF CURBS. TRANSITION LINE SHALL FORM A REASONABLY STRAIGHT LINE, HORIZONTALLY FROM POST TO POST OR CURB.
4. FOR TEMPORARY FENCE (TYPE ESA) PLACEMENT, SEE SHEET LD-10.

LEGEND:

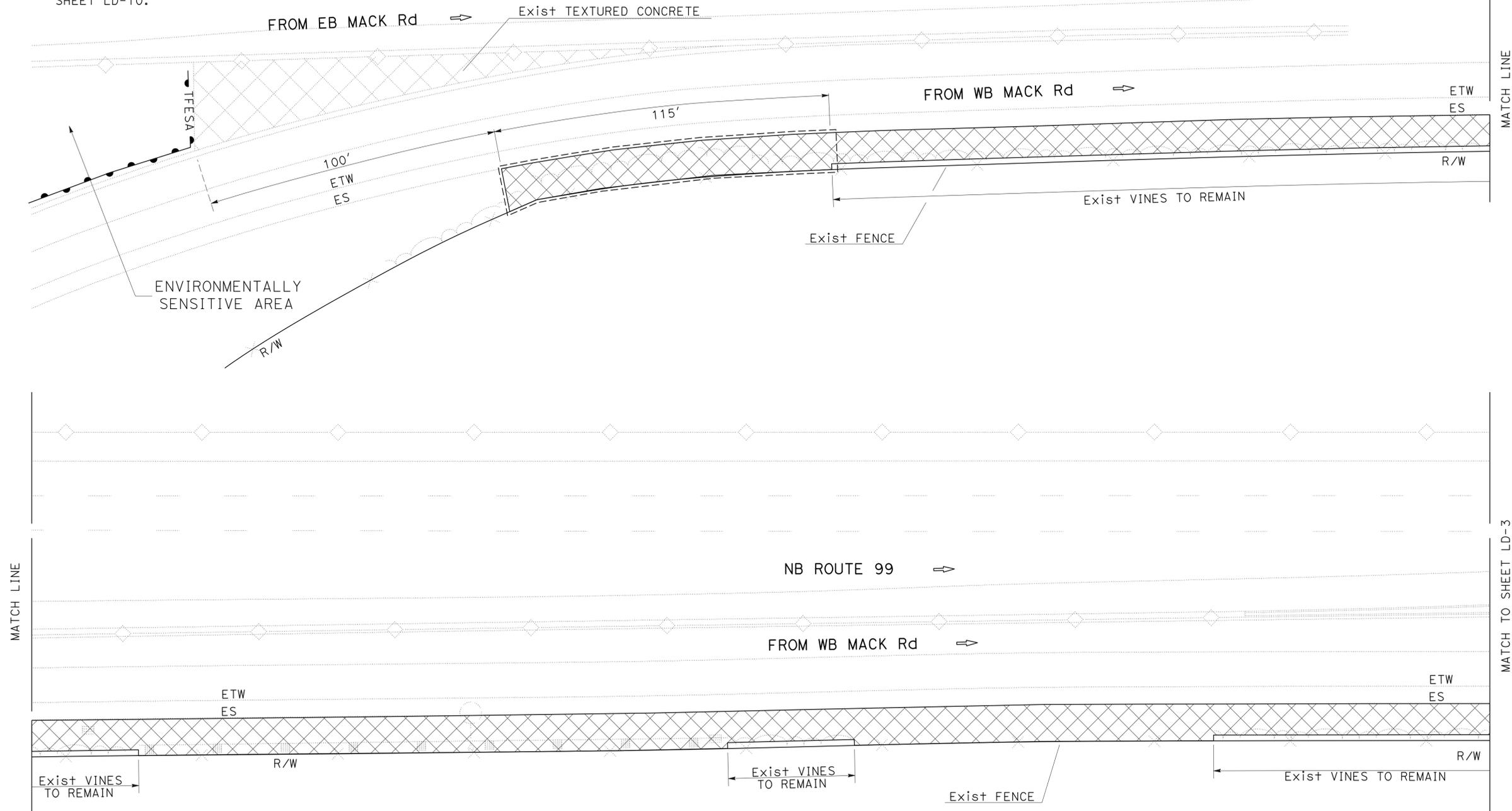
-  ROADSIDE CLEARING (REMOVE SHRUBS)
-  VEGETATION CONTROL (ASPHALT COMPOSITE)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	24	51


 LICENSED LANDSCAPE ARCHITECT
 2-29-16
 PLANS APPROVAL DATE



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



LOCATION 4
PM 17.70 to PM 18.00

LANDSCAPE DETAILS
LOCATION 4
SCALE 1" = 20'

LD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

J. WILLIAMSON
J. WHITE

J. PIETRZAK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	25	51


 LICENSED LANDSCAPE ARCHITECT
 2-29-16
 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.

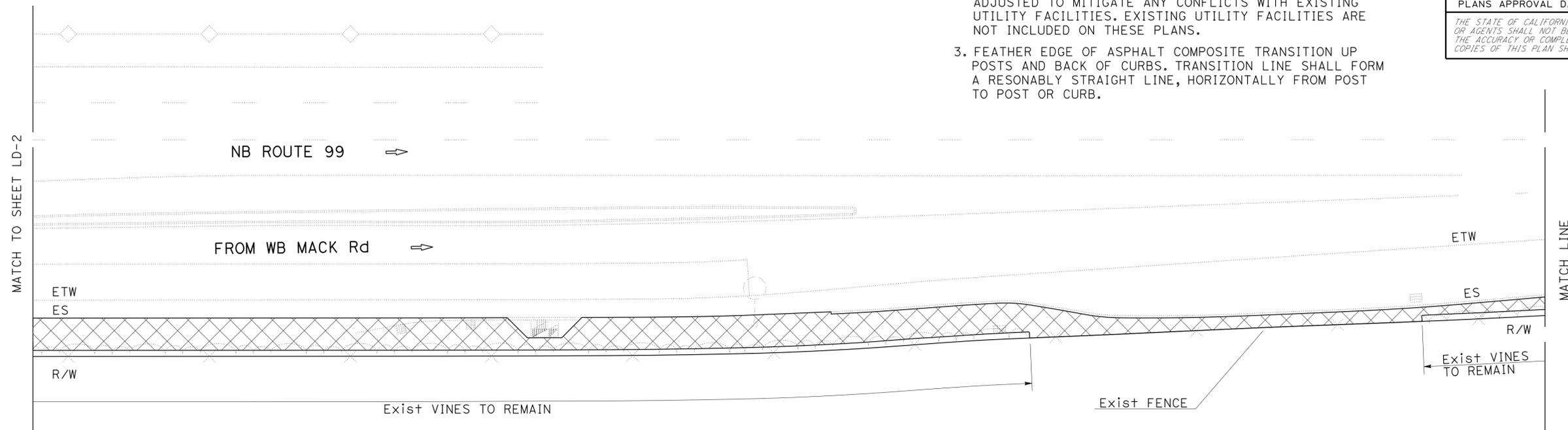


LEGEND:



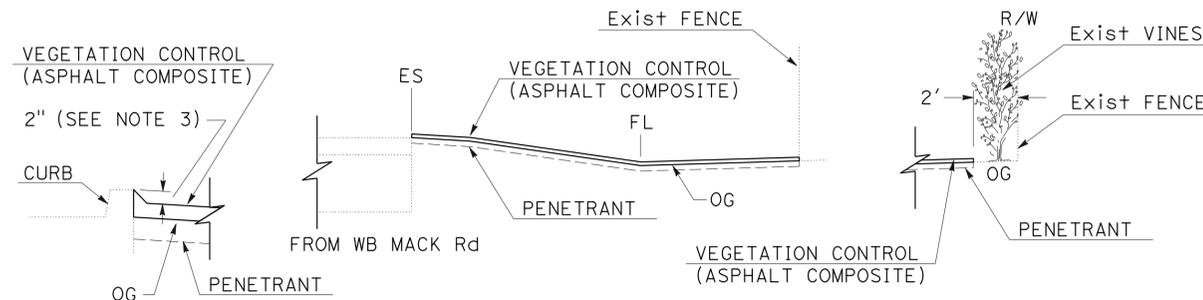
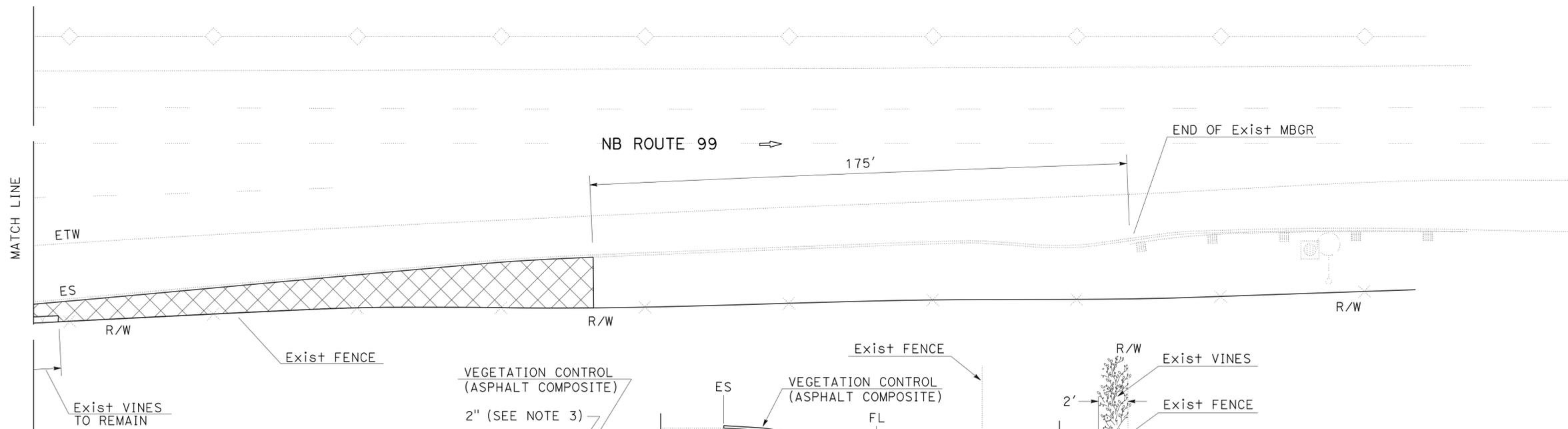
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
3. FEATHER EDGE OF ASPHALT COMPOSITE TRANSITION UP POSTS AND BACK OF CURBS. TRANSITION LINE SHALL FORM A REASONABLY STRAIGHT LINE, HORIZONTALLY FROM POST TO POST OR CURB.



LOCATION 4

PM 17.70 to PM 18.00



VEGETATION CONTROL (ASPHALT COMPOSITE) Typ

NO SCALE

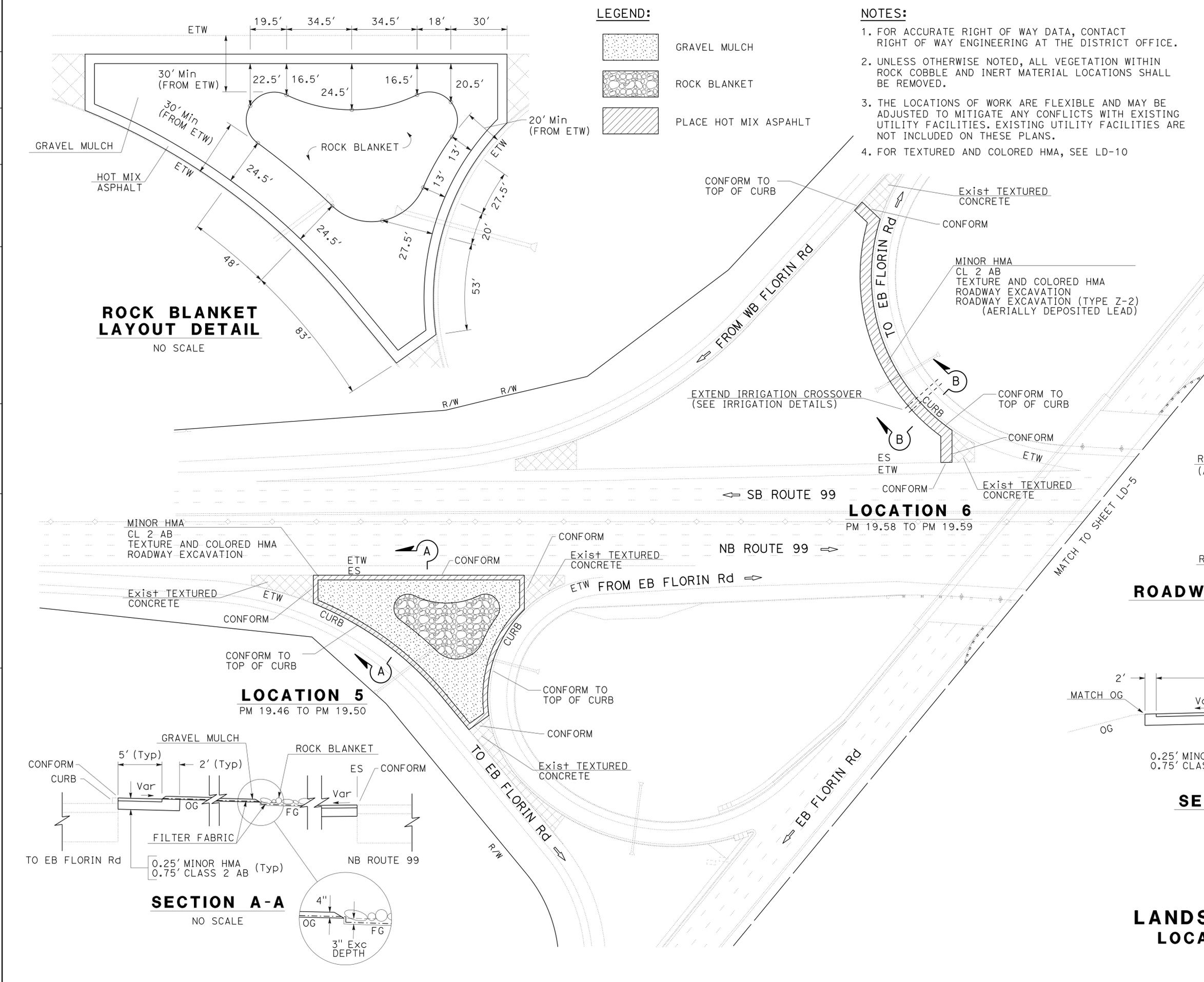
**LANDSCAPE DETAILS
LOCATION 4**

SCALE 1" = 20'

LD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 J. WILLIAMSON
 J. WHITE
 J. PIETRZAK

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	26	51

LICENSED LANDSCAPE ARCHITECT
 2-29-16
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT J. PIETRZAK
 J. WILLIAMSON
 J. WHITE
 REVISIONS: REVISED BY DATE REVISED
 CALCULATED/DESIGNED BY CHECKED BY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	27	51

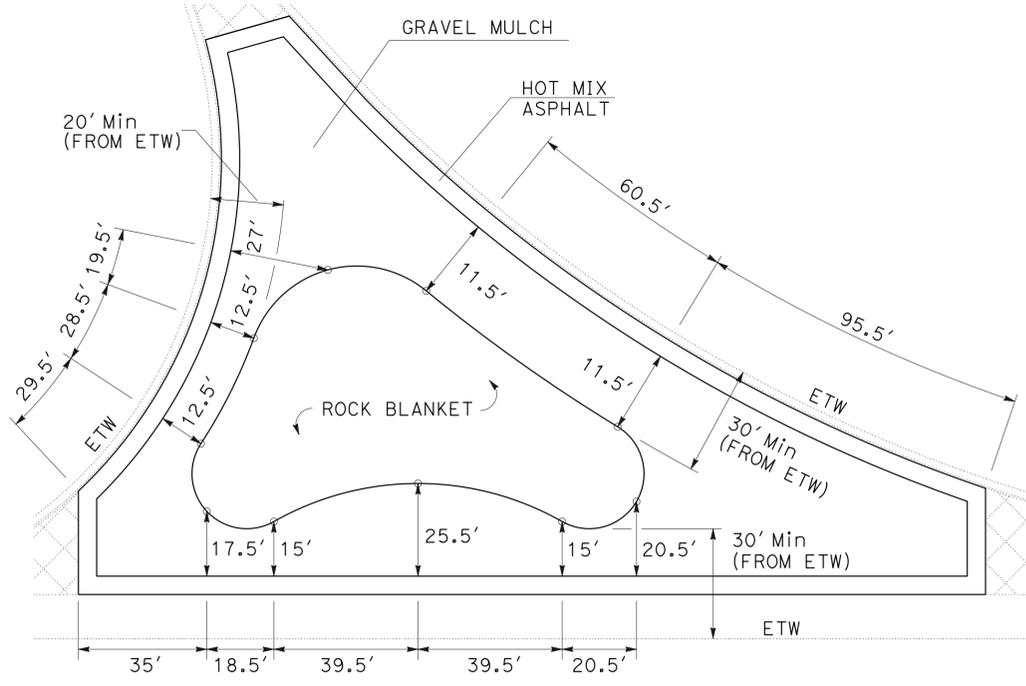
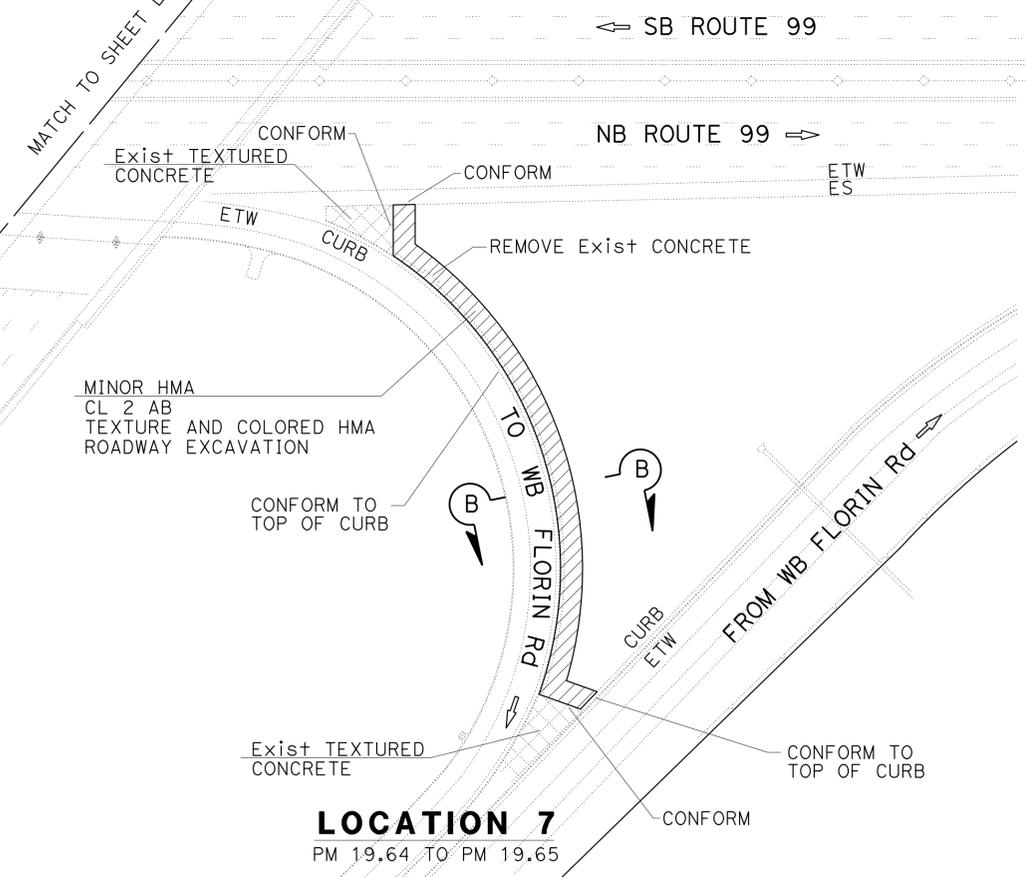
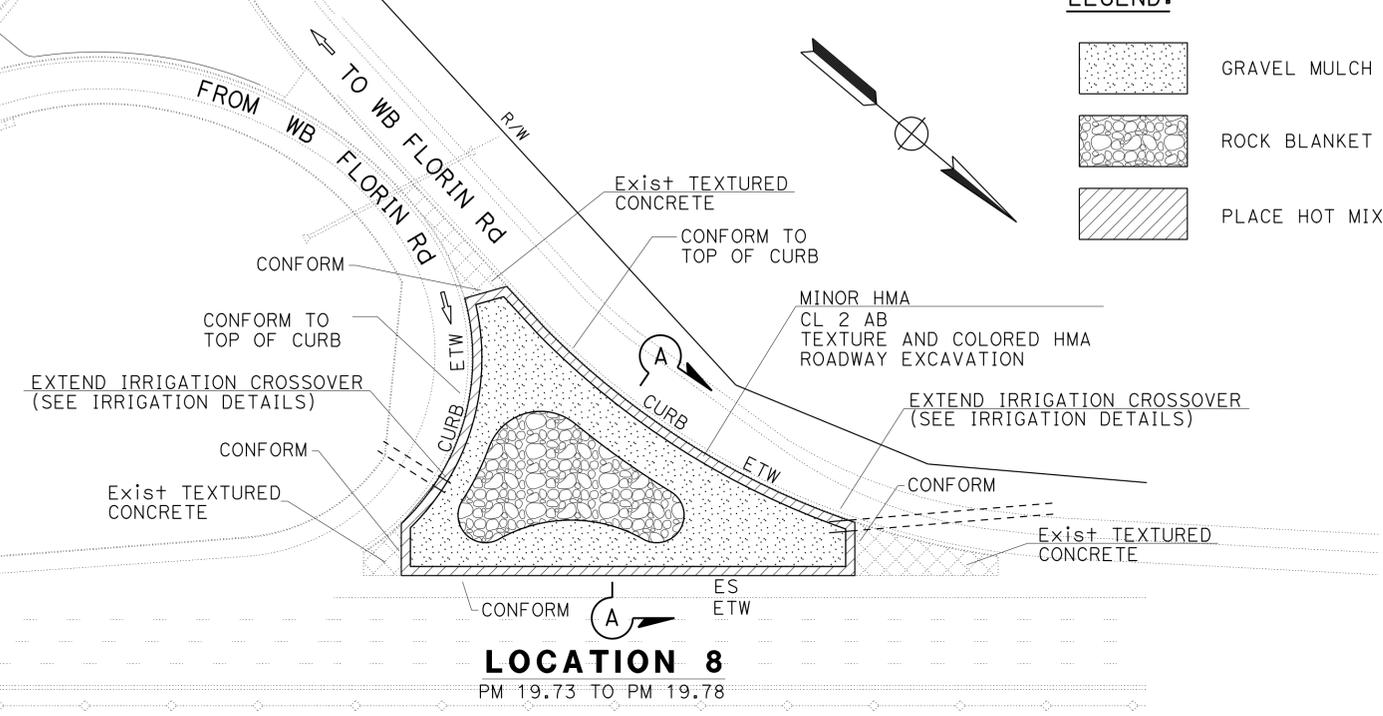
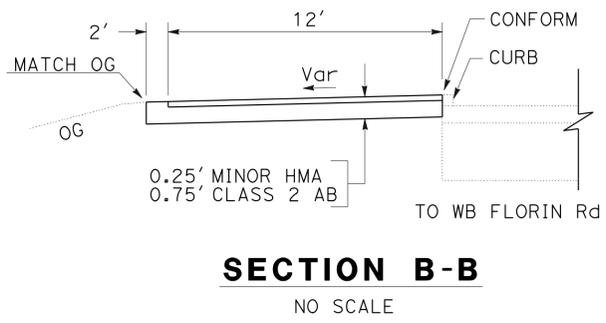
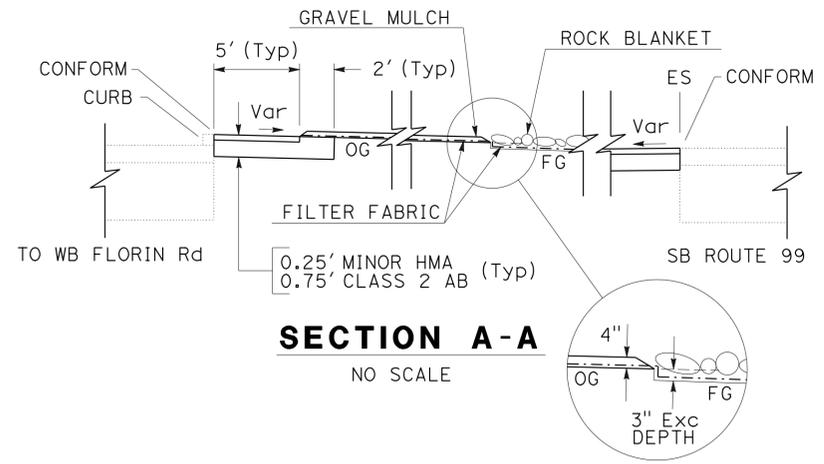
2-29-16
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



- NOTES:**
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 - UNLESS OTHERWISE NOTED, ALL VEGETATION WITHIN ROCK COBBLE AND INERT MATERIAL LOCATIONS SHALL BE REMOVED.
 - THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
 - FOR TEXTURED AND COLORED HMA, SEE LD-10

LEGEND:

	GRAVEL MULCH
	ROCK BLANKET
	PLACE HOT MIX ASPHALT



LANDSCAPE DETAILS
LOCATIONS 7 AND 8

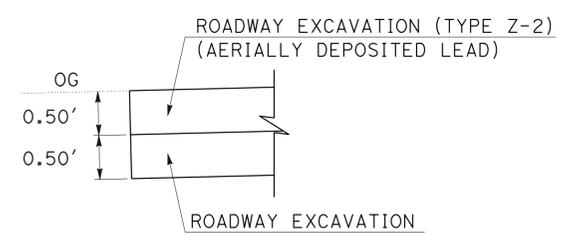
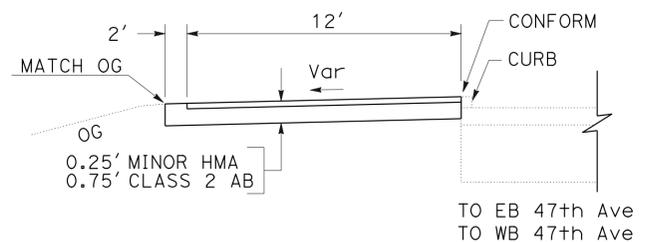
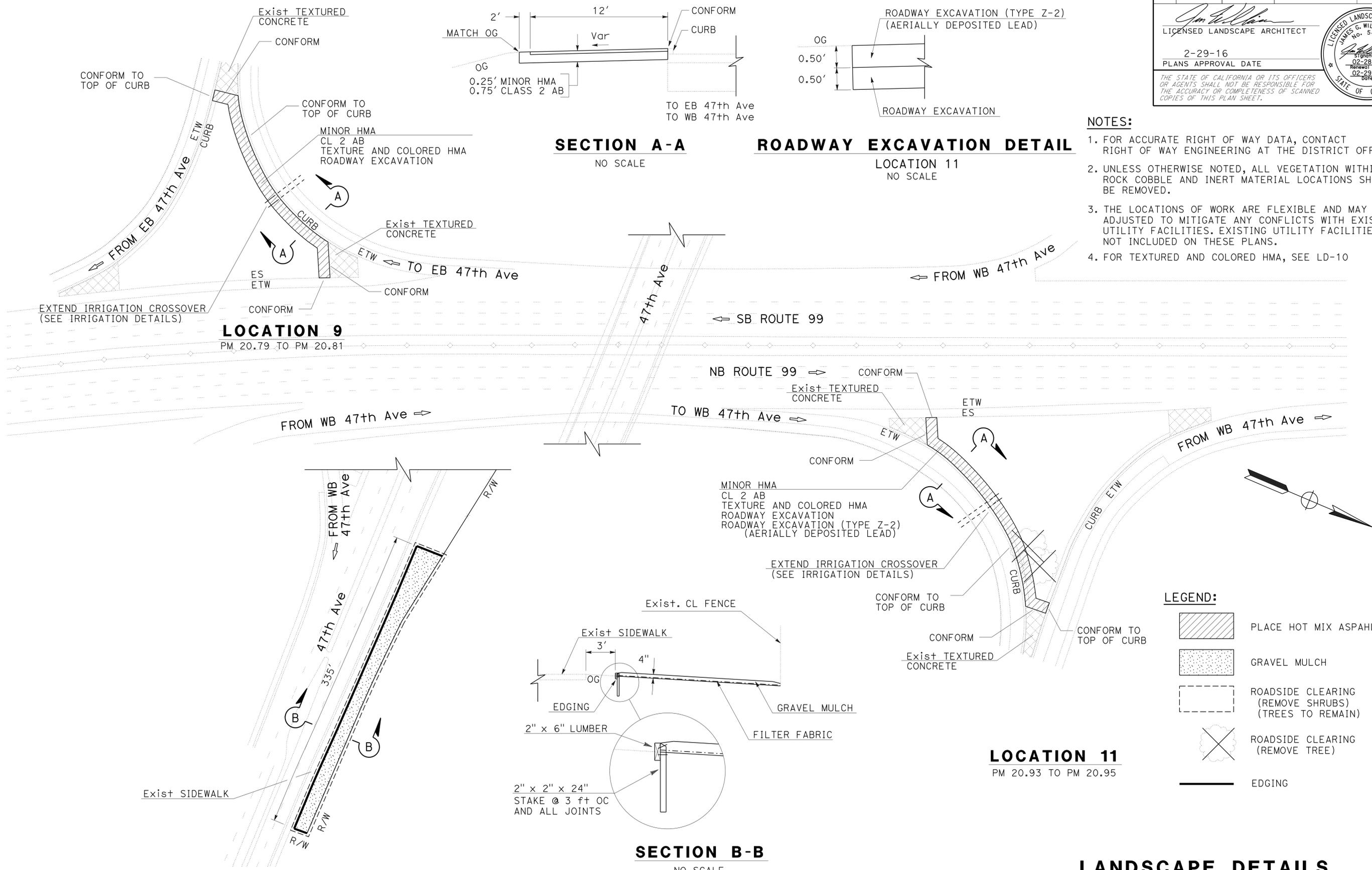
SCALE 1" = 50'

LD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	28	51

J. Williamson
 LICENSED LANDSCAPE ARCHITECT
 No. 5415
 2-29-16
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - UNLESS OTHERWISE NOTED, ALL VEGETATION WITHIN ROCK COBBLE AND INERT MATERIAL LOCATIONS SHALL BE REMOVED.
 - THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
 - FOR TEXTURED AND COLORED HMA, SEE LD-10



SECTION A-A
NO SCALE

ROADWAY EXCAVATION DETAIL
LOCATION 11
NO SCALE

LOCATION 9
PM 20.79 TO PM 20.81

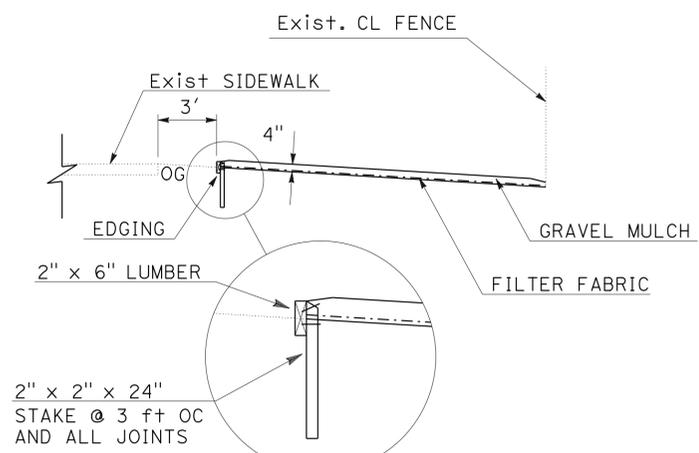
LOCATION 11
PM 20.93 TO PM 20.95

LOCATION 10
PM 20.74 TO PM 20.80

SECTION B-B
NO SCALE

LEGEND:

	PLACE HOT MIX ASPHALT
	GRAVEL MULCH
	ROADSIDE CLEARING (REMOVE SHRUBS) (TREES TO REMAIN)
	ROADSIDE CLEARING (REMOVE TREE)
	EDGING



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 J. WILLIAMSON - SENIOR LANDSCAPE ARCHITECT
 J. PIETRZAK - SENIOR LANDSCAPE ARCHITECT
 LANDSCAPE ARCHITECTURE
 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	99	8.5/22.4	29	51

2-29-16
 PLANS APPROVAL DATE

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

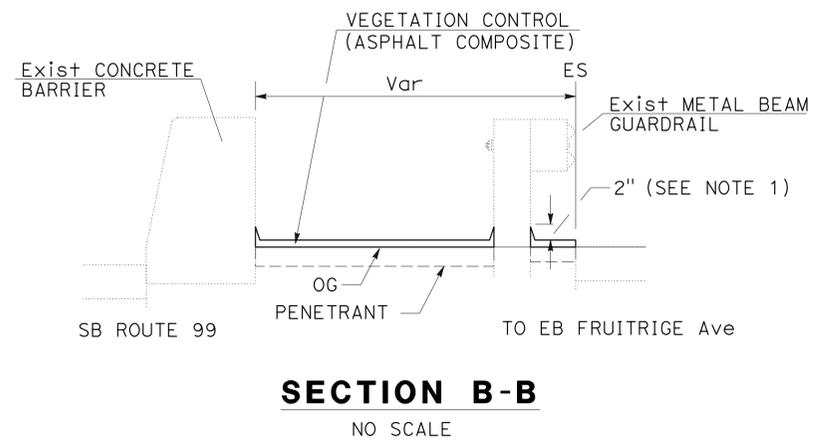
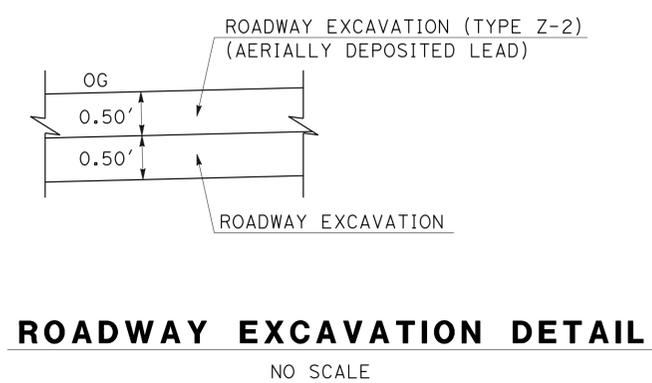
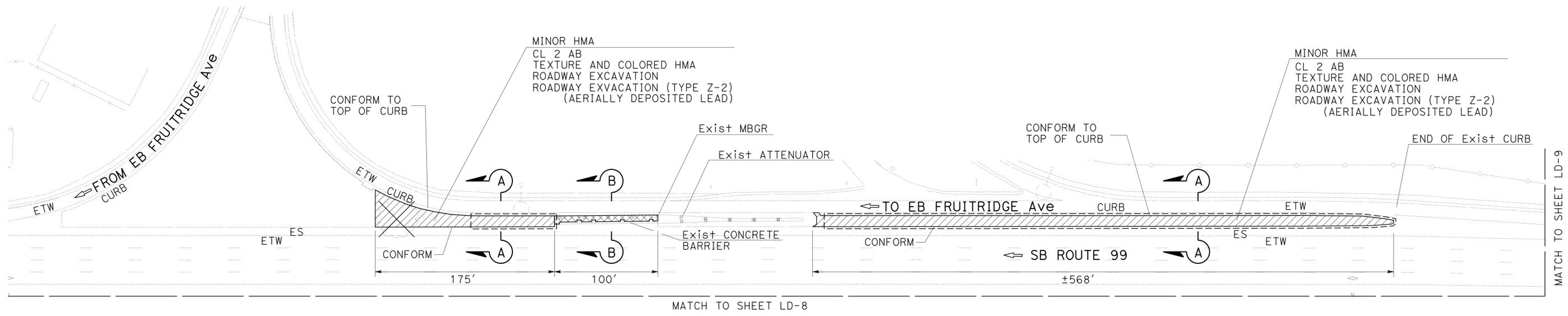
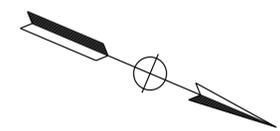
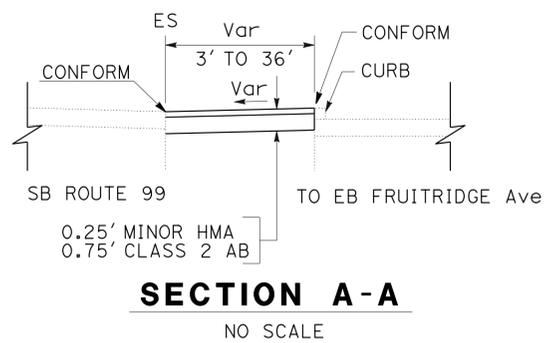


NOTES:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.
- FEATHER EDGE OF ASPHALT COMPOSITE TRANSITION UP POSTS AND BACK OF CURBS. TRANSITION LINE SHALL FORM A REASONABLY STRAIGHT LINE, HORIZONTALLY FROM POST TO POST OR CURB.
- FOR TEXTURED AND COLORED HMA, SEE LD-10

LEGEND:

- PLACE HOT MIX ASPHALT
- VEGETATION CONTROL (ASPHALT COMPOSITE)
- ROADSIDE CLEARING (REMOVE SHRUBS)
- ROADSIDE CLEARING (REMOVE PALM TREE)



LANDSCAPE DETAILS
LOCATION 12
SCALE 1" = 50'
LD-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: J. PIETRZAK
 CALCULATED/DESIGNED BY: J. WILLIAMSON
 CHECKED BY: J. WHITE
 REVISIONS: (None listed)
 REVISOR: (None listed)
 DATE: (None listed)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	30	51

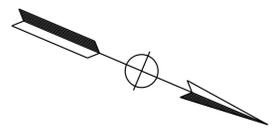
LICENSED LANDSCAPE ARCHITECT
 2-29-16
 PLANS APPROVAL DATE
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NOTES:

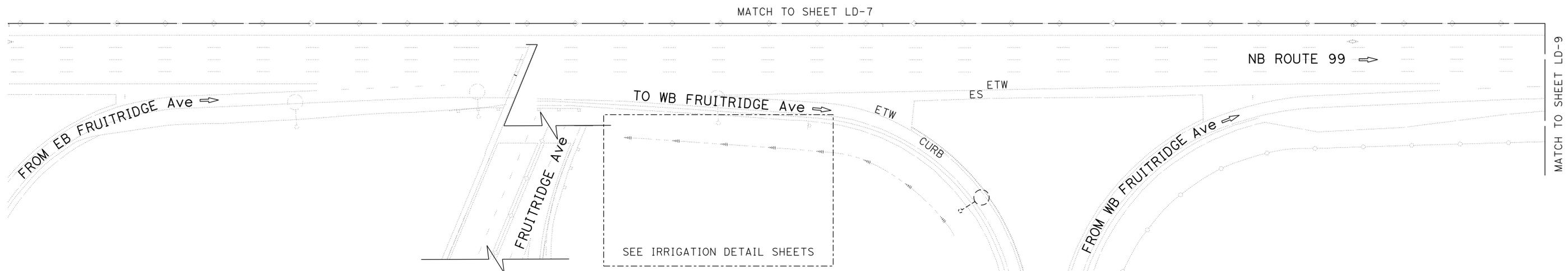
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- PLACE ROCK BLANKET A MINIMUM OF 1' FROM TRUNKS OF SHRUBS.

LEGEND:

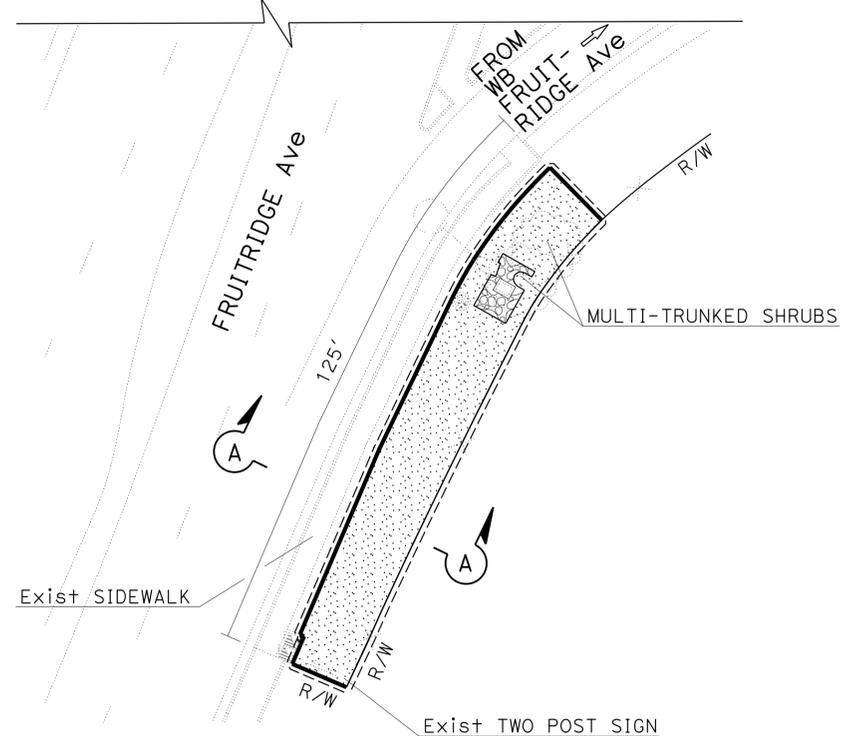
-  GRAVEL MULCH
-  ROCK BLANKET
-  ROADSIDE CLEARING (REMOVE SHRUBS) (MULTI-TRUNKED SHRUBS TO REMAIN)
-  EDGING
-  FLOW LINE



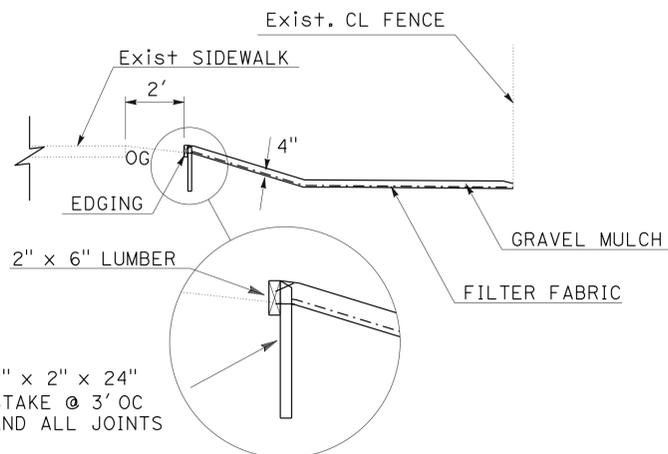
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT J. PIETRZAK
 J. WILLIAMSON
 J. WHITE
 REVISOR BY DATE
 CHECKED BY
 DESIGNED BY
 CALCULATED BY



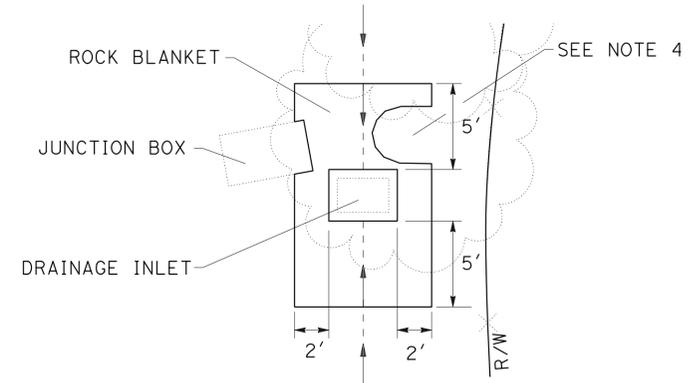
LOCATION 14
PM 21.89



LOCATION 13
PM 21.89 TO PM 21.91
SCALE 1" = 20'



SECTION A-A
NO SCALE



ROCK BLANKET DETAIL
NO SCALE

LANDSCAPE DETAILS
LOCATIONS 13 AND 14
SCALE 1" = 50'

LD-8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	31	51

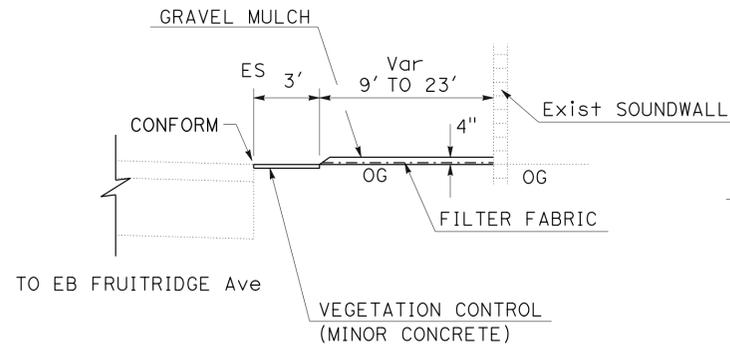
LICENSED LANDSCAPE ARCHITECT
 2-29-16
 PLANS APPROVAL DATE
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4. FOR ADDITIONAL VEGETATION CONTROL (MINOR CONCRETE) INFORMATION SEE STANDARD PLANS

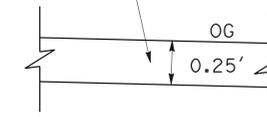
LEGEND:

-  GRAVEL MULCH
-  PLACE HOT MIX ASPHALT
-  ROADSIDE CLEARING (REMOVE SHRUBS)
-  EDGING

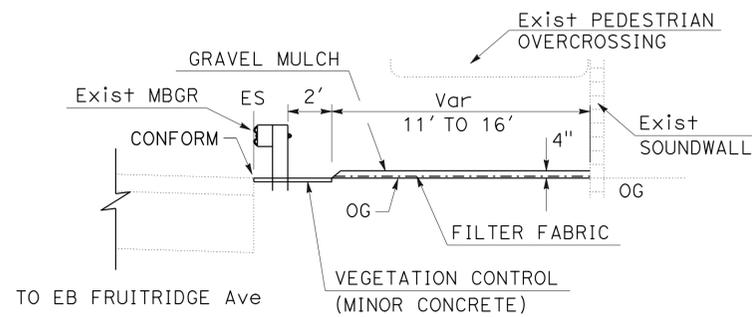
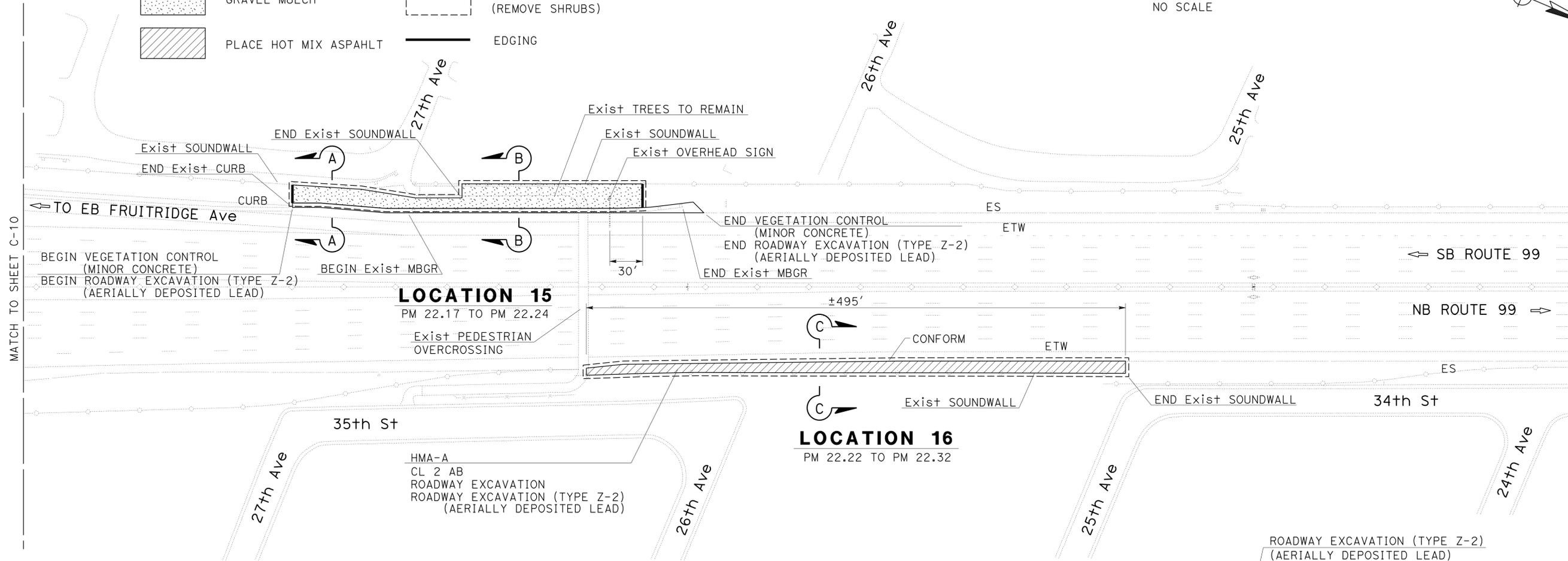


SECTION A-A
NO SCALE

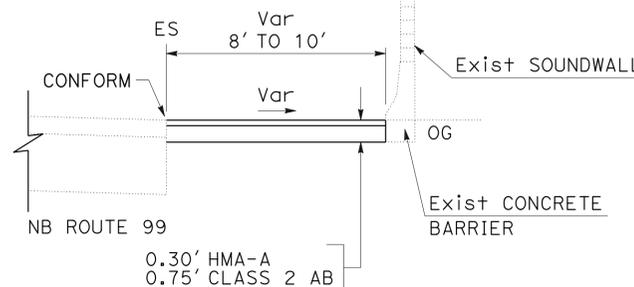
ROADWAY EXCAVATION (TYPE Z-2)
(AERIALY DEPOSITED LEAD)



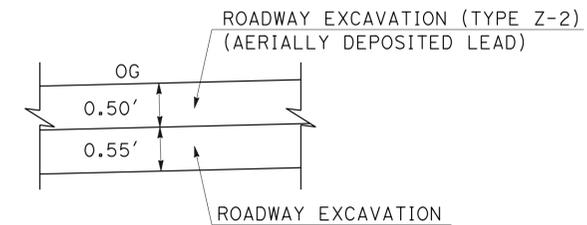
ROADWAY EXCAVATION DETAIL
LOCATION 15
NO SCALE



SECTION B-B
NO SCALE



SECTION C-C
NO SCALE



ROADWAY EXCAVATION DETAIL
LOCATION 16
NO SCALE

LANDSCAPE DETAILS
LOCATIONS 15 AND 16

SCALE 1" = 50'

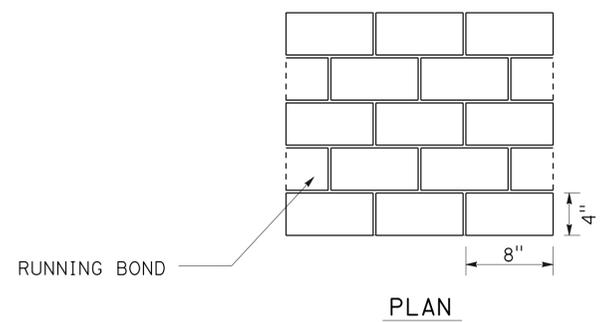
LD-9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	32	51

LICENSED LANDSCAPE ARCHITECT
 JAMES G. WILLIAMSON
 No. 5415
 Signature: [Signature]
 02-28-18
 Renewal Date: 02-29-16
 Date: [Date]
 STATE OF CALIFORNIA

2-29-16
 PLANS APPROVAL DATE

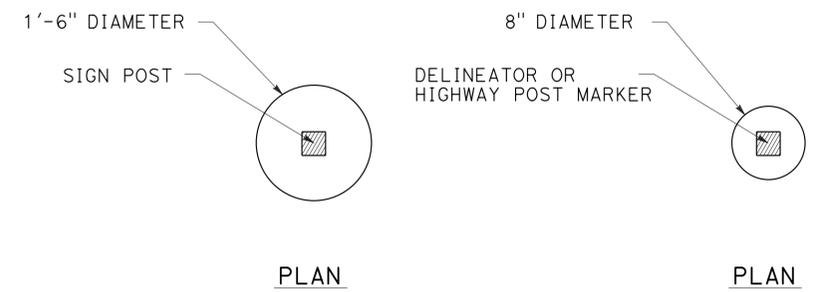
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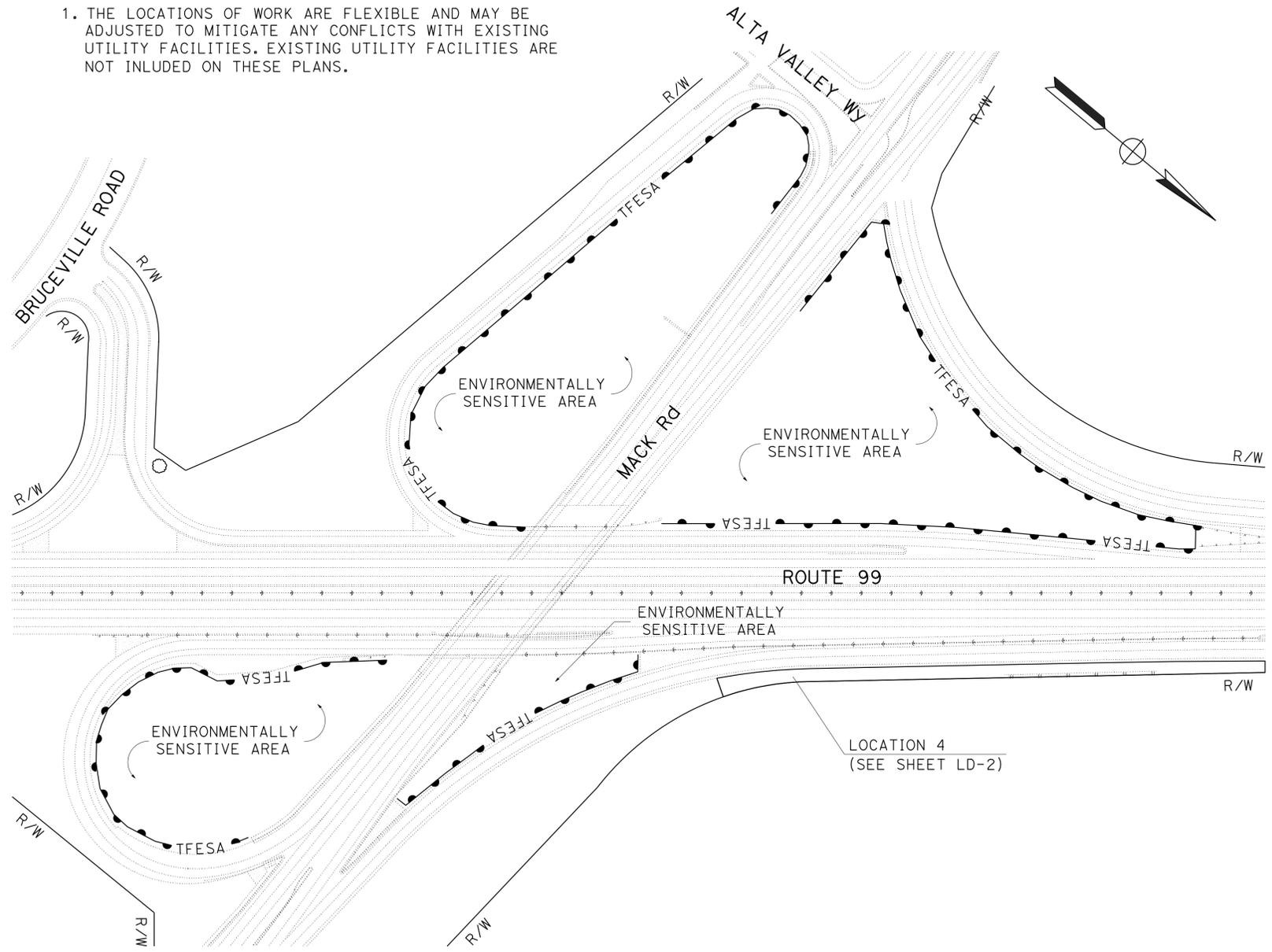
TEXTURED AND COLORED HOT MIX ASPHALT STAMP PATTERN

NOTE:

1. THE LOCATIONS OF WORK ARE FLEXIBLE AND MAY BE ADJUSTED TO MITIGATE ANY CONFLICTS WITH EXISTING UTILITY FACILITIES. EXISTING UTILITY FACILITIES ARE NOT INCLUDED ON THESE PLANS.



OPENINGS FOR ONE-POST SIGN, DELINEATOR, OR HIGHWAY POST MARKER IN PLACE ROADSIDE PAVING AREAS (Typ)



TEMPORARY FENCE (TYPE ESA)

LANDSCAPE DETAILS

NO SCALE

LD-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	J. PIETRZAK	J. WILLIAMSON	
		J. WHITE	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
Caltrans®
 J. WILLIAMSON
 J. WHITE
 J. PIETRZAK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	33	51

2-29-16
 PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
 JAMES G. WILLIAMSON
 No. 5415

02-28-18
 Signature
 02-29-16
 Renewal 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.

ROADSIDE PAVING

LOCATION No. ⊕	ROADWAY EXCAVATION	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	CLASS 2AB	MINOR HOT MIX ASPAHLT	TACK COAT	HOT MIX ASPHALT (TYPE A)	TEXTURED AND COLORED HOT MIX ASPHALT
	CY	CY	CY	TON	TON	TON	SQYD
5	163	--	134	62	--	--	354
6	80	80	125	72	--	--	412
7	163	--	128	74	--	--	421
8	173	--	142	66	--	--	376
9	128	--	101	58	--	--	332
11	67	67	104	60	--	--	344
12	158	158	239	165	--	--	944
16	94	94	134	--	0.24	113	--
SUBTOTAL TURNOUT TABLE		74	68	127	--	0.22	101
SUBTOTAL VEGETATION CONTROL TABLE		--	15	--	--	--	--
TOTAL		1,100	482	1,234	557	0.46	214

VEGETATION CONTROL

LOCATION No. ⊕	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY*) DEPOSITED LEAD	VEGETATION CONTROL (ASPHALT COMPOSITE)	VEGETATION CONTROL (MINOR CONCRETE)
	CY	SQFT	SQYD
4	--	19,755	--
12	--	592	--
15	15	--	185
SUBTOTAL		15	--
TOTAL		--	20,347

* - SEE ROADSIDE PAVING QUANTITY TABLE FOR TOTAL

EDGING

LOCATION No. ⊕	EDGING
	LF
2	80
10	380
13	250
15	40
TOTAL	750

INERT MATERIALS

LOCATION No. ⊕	GRAVEL MULCH	ROCK BLANKET
	SQFT	SQFT
2	3,620	--
5	11,450	5,045
8	11,650	5,505
10	5,840	--
13	1,850	80
15	5,710	--
TOTAL	40,120	10,630

ROADSIDE CLEARING

LOCATION No. ⊕	ROADSIDE CLEARING	COMMENTS
1	X	REMOVE 2 TREES
2	X	REMOVE TREES AND SHRUBS
4	X	REMOVE SHRUBS
10	X	REMOVE SHRUBS
11	X	REMOVE 2 TREES
12	X	REMOVE SHRUBS AND PLAM TREE
13	X	REMOVE SHRUBS, MULTI-TRUNK SHRUBS REMAIN
15	X	REMOVE SHRUBS
16	X	REMOVE SHRUBS

X - DENOTES REQUIREMENT

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

	RAIN EVENT ACTION PLAN	STORM WATER SAMPLING AND ANALYSIS DAY	STORM WATER ANNUAL REPORT	MOVE-IN/MOVE-OUT (TEMPORARY EROSION CONTROL)	TEMPORARY HYDRAULIC MULCH (BONDED FIBER MULCH)	TEMPORARY COVER	TEMPORARY DRAINAGE INLTE PROTECTION	TEMPORARY FIBER ROLL	TEMPORARY FENCE (TYPE ESA)
	EA	EA	EA	EA	SQYD	SQYD	EA	LF	LF
TOTAL	15	19	3	1	2,600	100	13	3,000	3,900

TREATED WOOD WASTE

	TREATED WOOD WASTE
	LB
TOTAL	2,000

LANDSCAPE QUANTITIES

LQ-1

LAST REVISION DATE PLOTTED => 07-APR-2016 03-16-16 TIME PLOTTED => 1:4:28

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	34	51

James G. Williamson
LICENSED LANDSCAPE ARCHITECT

2-29-16
PLANS APPROVAL DATE

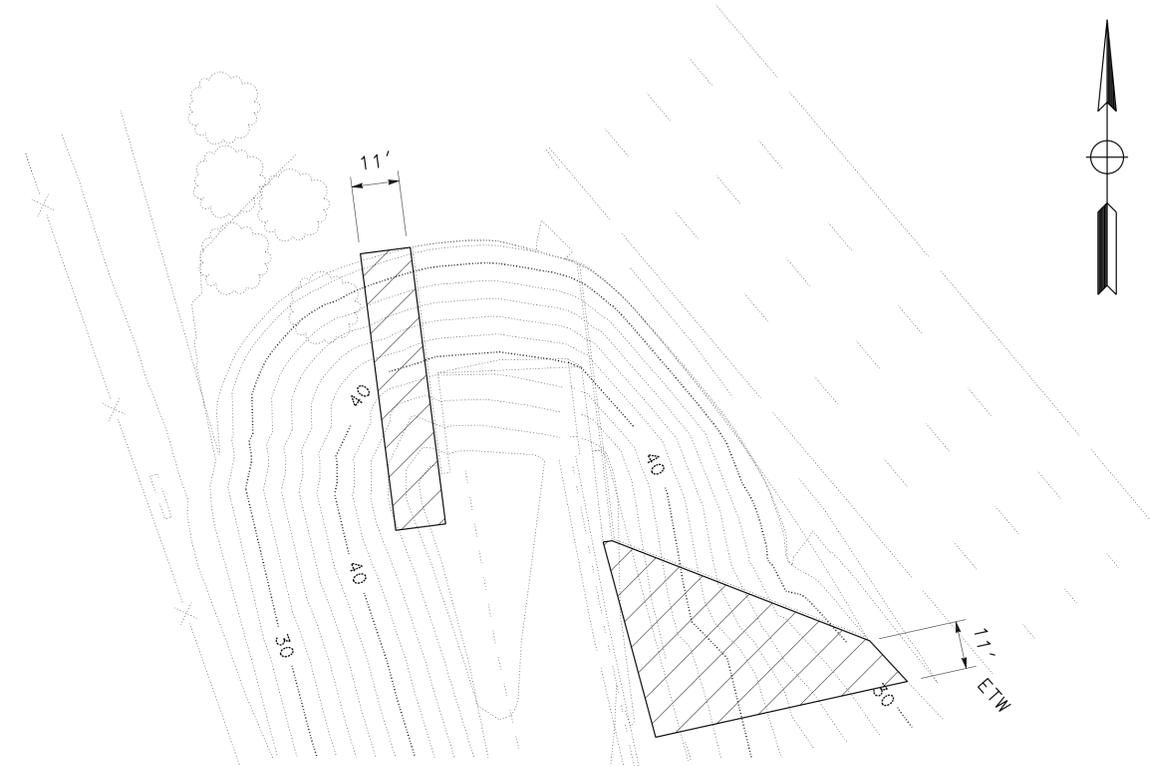
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EROSION CONTROL

SEQUENCE	ITEM DESCRIPTION	MATERIAL			APPLICATION RATE
		DESCRIPTION	TYPE	FASTENER	
STEP 1	EROSION CONTROL (DRY SEED)	SEED	--	--	50 LB/ACRE
		FERTILIZER	ORGANIC	--	1200 LB/ACRE
STEP 2	ROLLED EROSION CONTROL PRODUCT (BLANKET)	BLANKET	TYPE A	8-GUAGE, 8-INCH STEEL STAPLES	FASTENER SPACING PER MANUFACTURER'S INSTRUCTIONS

SEED MIX

BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
BROMUS CARINATUS (CALIFORNIA BROME)	80	16
ESCHSCHOLZIA CALIFORNICUM (CALIFORNIA POPPY)	75	4
HORDEUM B. CALIFORNICUM (CALIFORNIA BARLEY)	80	10
LUPINUS BICOLOR (PIGMY-LEAVED LUPINE)	80	10
NASSELLA PULCHRA (PURPLE NEEDLEGRASS)	70	10



EROSION CONTROL

SCALE 1" = 20'

EROSION CONTROL

LOCATION	EROSION CONTROL (DRY SEED)		ROLLED EROSION CONTROL PRODUCT (BLANKET)	
	SQFT	SQFT	SQFT	SQFT
3	2,225	2,225		
TOTAL	2,225	2,225		

EROSION CONTROL DETAILS AND QUANTITIES LOCATION 3

NO SCALE

ECD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 J. PIETRZAK
 J. WILLIAMSON
 J. WHITE
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 ELECTRICAL DESIGN
 FUNCTIONAL SUPERVISOR
 MARY ANN HUDSPETH
 CALCULATED/DESIGNED BY
 CHECKED BY
 NATHAN DEKENS
 ROSTAM G. KERMANI
 REVISED BY
 DATE
 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

LEGEND:

1 RC PULL BOX, INSTALL (T) PULL BOX.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	35	51

Rostam Gharae-Kermani 2-29-16
 REGISTERED ELECTRICAL ENGINEER DATE

2-29-16
 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.

LOCATIONS OF EXISTING PULL BOX

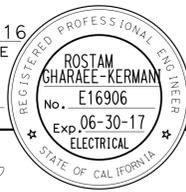
Loc No.	DIRECTION	DESCRIPTION	PULL BOX LATITUDE	PULL BOX LONGITUDE	Exist PULL BOX	Ctid No.	Ctid LATITUDE	Ctid LONGITUDE	LEGEND
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'33.01" N	-121°25'27.30" W	2	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'33.76" N	-121°25'27.30" W	1	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'34.57" N	-121°25'28.23" W	2	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'36.11" N	-121°25'29.84" W	2	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'38.21" N	-121°25'32.22" W	1	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
4	NORTHBOUND	SHOULDER OF ROUTE 99 ON RAMP FROM WESTBOUND MACK Rd	38°28'40.19" N	-121°25'34.33" W	1	03240990017674	38°28'26.61" N	-121°25'19.23" W	1
5	NORTHBOUND	ROUTE 99 ON RAMP FROM EASTBOUND FLORIN Rd	38°29'41.73" N	-121°26'40.11" W	1	03240900019426	38°29'45.48" N	-121°26'31.45" W	1
5	NORTHBOUND	ROUTE 99 ON RAMP FROM EASTBOUND FLORIN Rd	38°29'42.06" N	-121°26'39.86" W	1	03240990019426	38°29'45.48" N	-121°26'31.45" W	1
6	SOUTHBOUND	ROUTE 99 ON RAMP TO EASTBOUND FLORIN Rd	38°29'44.35" N	-121°26'45.44" W	1	03240990019426	38°29'45.48" N	-121°26'31.45" W	1
7	NORTHBOUND	ROUTE 99 OFF RAMP TO WESTBOUND FLORIN Rd	38°29'47.86" N	-121°26'45.93" W	1	03240990019426	38°29'45.48" N	-121°26'31.45" W	1
8	SOUTHBOUND	BETWEEN WESTBOUND FLORIN OFF RAMP AND ROUTE 99 ON RAMP	38°29'51.85" N	-121°26'53.49" W	1	03240990019426	38°29'45.48" N	-121°26'31.45" W	1
11	NORTHBOUND	ROUTE 99 OFF RAMP TO WESTBOUND 47TH Ave	38°30'42.12" N	-121°27'35.41" W	1	03240990020779	38°30'37.96" N	-121°27'22.85" W	1
12	SOUTHBOUND	ROUTE 99 OFF RAMP TO FRUITRIDGE Ave	38°31'32.39" N	-121°28'06.04" W	1	03240990021940	38°31'29.01" N	-121°28'02.07" W	1
12	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'33.80" N	-121°28'06.77" W	1	03240990021940	38°31'29.01" N	-121°28'02.07" W	1
12	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'29.38" N	-121°28'04.43" W	1	03240990021939	38°31'26.13" N	-121°28'06.32" W	1
12	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'27.50" N	-121°28'03.71" W	1	03240990021939	38°31'26.13" N	-121°28'06.32" W	1
12	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'27.59" N	-121°28'03.14" W	1	03240990021939	38°31'26.13" N	-121°28'06.32" W	1
15	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'40.81" N	-121°28'10.09" W	1	03240990021940	38°31'29.01" N	-121°28'02.07" W	1
15	SOUTHBOUND	ROUTE 99 OFF RAMP TO EASTBOUND FRUITRIDGE Ave	38°31'42.94" N	-121°28'11.32" W	1	03240990021940	38°31'29.01" N	-121°28'02.07" W	1

MODIFYING EXISTING ELECTRICAL SYSTEM

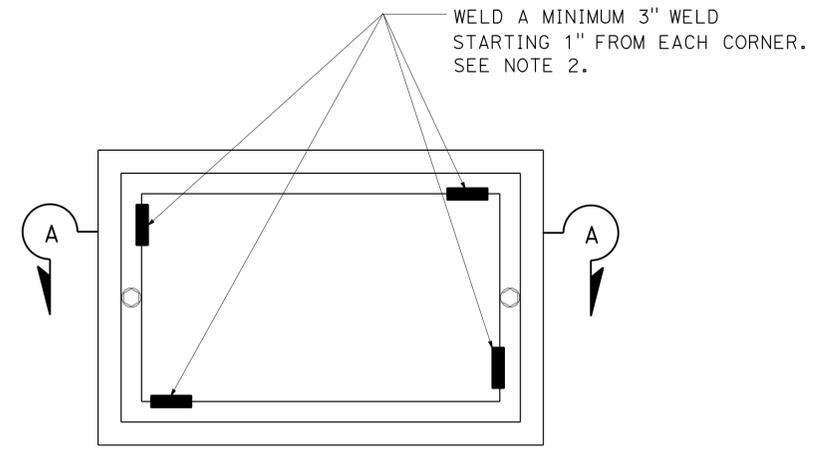
LAST REVISION | DATE PLOTTED => 02-MAY-2016
 04-29-16 | TIME PLOTTED => 10:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	36	51

Rostam Gharaee-Kermani 2-29-16
 REGISTERED ELECTRICAL ENGINEER DATE
 2-29-16
 PLANS APPROVAL DATE



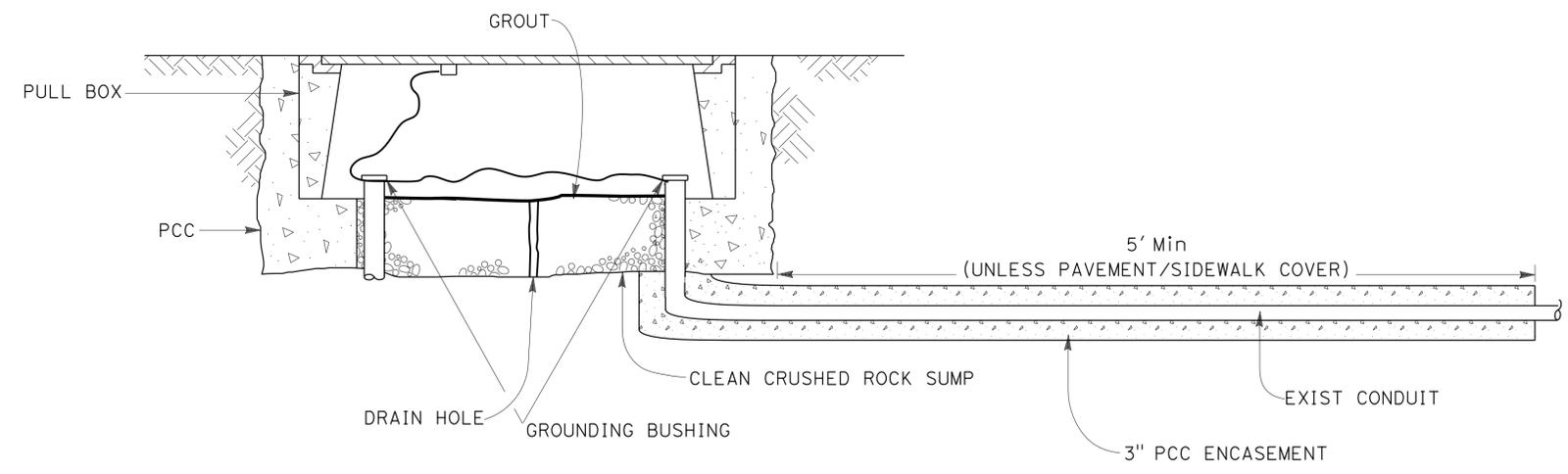
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 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.



TOP VIEW

NOTES ON PULL BOXES:

1. FOR ADDITIONAL DETAILS, SEE REVISED STANDARD PLAN RSP ES-8B.
2. WELDING SHALL COMPLY WITH REQUIREMENTS IN STANDARD SPECIFICATION SECTION 75.



SECTION A-A

TRAFFIC PULL BOX

ELECTRICAL DETAIL
 NO SCALE
E-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
Caltrans	MARY ANN HUDSPETH	NATHAN DEKENS	NATHAN DEKENS
ELECTRICAL DESIGN	CHECKED BY	ROSTAM G. KERMANI	ROSTAM G. KERMANI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
 ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR
 MARY ANN HUDSPETH

CALCULATED/DESIGNED BY
 CHECKED BY

NATHAN DEKENS
 ROSTAM G. KERMANI

REVISED BY
 DATE REVISED

MODIFYING EXISTING ELECTRICAL SYSTEM

SHEET NO.	(T) PULL BOX
E-1	22

ITEM SHOWN IN THIS TABLE IS NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

ELECTRICAL QUANTITIES

E-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	37	51

Rostam Gharae-Kermani 2-29-16
 REGISTERED ELECTRICAL ENGINEER DATE

2-29-16
 PLANS APPROVAL DATE

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	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	
SL	STATION LINE	
SM	SELECTED MATERIAL	
Spec	SPECIAL, SPECIFICATIONS	
SPP	SLOTTED PLASTIC PIPE	
SS	SLOPE STAKE	
SSBM	STRAP AND SADDLE BRACKET METHOD	
SSD	STRUCTURAL SECTION DRAIN	
SSPA	STRUCTURAL STEEL PLATE ARCH	
SSPP	STRUCTURAL STEEL PLATE PIPE	
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH	
SSRP	STEEL SPIRAL RIB PIPE	
St	STREET	
Sta	STATION	
STBB	SINGLE THRIE BEAM BARRIER	
Std	STANDARD	
Str	STRUCTURE	
Surf	SURFACING	
SW	SIDEWALK, SOUND WALL	
Swr	SEWER	
Sym	SYMMETRICAL	
S4S	SURFACE 4 SIDES	
	T	
T	SEMI-TANGENT	
Tan	TANGENT	
TBB	THRIE BEAM BARRIER	
Tbr	TIMBER	
TC	TOP OF CURB	
TCB	TRAFFIC CONTROL BOX	
TCE	TEMPORARY CONSTRUCTION EASEMENT	
TeI	TELEPHONE	
Temp	TEMPORARY	
TG	TOP OF GRADE	
Tot	TOTAL	
TP	TELEPHONE POLE	
TPB	TREATED PERMEABLE BASE	
TPM	TREATED PERMEABLE MATERIAL	
Trans	TRANSITION	

	T continued	
TS	TRANSVERSE, TRAFFIC SIGNAL, TUBULAR STEEL	
Typ	TYPICAL	U
UC	UNDERCROSSING	
UD	UNDERDRAIN	
UG	UNDERGROUND	
UON	UNLESS OTHERWISE NOTED	
UP	UNDERPASS	V
V	VALVE, DESIGN SPEED	
Var	VARIABLE, VARIES	
VC	VERTICAL CURVE	
VCP	VITRIFIED CLAY PIPE	
Vert	VERTICAL	
Via	VIADUCT	
Vol	VOLUME	W
W	WEST, WIDTH	
WB	WESTBOUND	
WH	WEEP HOLE	
WM	WIRE MESH	
WS	WATER SURFACE	
WSP	WELDED STEEL PIPE	
Wt	WEIGHT	
WV	WATER VALVE	
WW	WINGWALL	
WWLLOL	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
03	Sac	99	8.5/22.4	38	51

Grace M. Tsushima
 REGISTERED CIVIL ENGINEER

July 19, 2013
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-29-16

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
ø	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.

2010 REVISED STANDARD PLAN RSP A10B

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-29-16

2010 REVISED STANDARD PLAN RSP H1

A

AB AGGREGATE BASE
 ABS ACRYLONITRILE-BUTADIENE-STYRENE
 AC ASPHALT CONCRETE
 ACC ARMOR-CLAD CONDUCTORS
 Adj ADJACENT/ADJUSTABLE
 AIC AUXILIARY IRRIGATION CONTROLLER
 Alt ALTERNATIVE
 AMEND AMENDMENT
 ARV AIR RELEASE VALVE
 AUTO AUTOMATIC
 AUX AUXILIARY
 AVB ATMOSPHERIC VACUUM BREAKER

B

B&B BALLED AND BURLAPPED
 B/B BRASS/BRONZE
 B/B/PL BRASS/BRONZE/PLASTIC
 B/PL BRASS/PLASTIC
 BFM BONDED FIBER MATRIX
 Bit Ctd BITUMINOUS COATED
 BP BOOSTER PUMP
 BPA BACKFLOW PREVENTER ASSEMBLY
 BPE BACKFLOW PREVENTER ENCLOSURE
 BV BALL VALVE

C

C CONDUIT
 CAP CORRUGATED ALUMINUM PIPE
 CARV COMBINATION AIR RELEASE VALVE
 CB COUPLING BAND
 CCA CAM COUPLER ASSEMBLY
 CEC CONTROLLER ENCLOSURE CABINET
 CHDPE CORRUGATED HIGH DENSITY POLYETHYLENE
 CL CHAIN LINK
 CNC CONTROL AND NEUTRAL CONDUCTORS
 Conc CONCRETE
 CP COPPER PIPE
 CS COMPOST SOCK
 CSP CORRUGATED STEEL PIPE
 CST CENTER STRIP
 CV CHECK VALVE

D

Dia DIAMETER
 DIP DUCTILE IRON PIPE
 DIT DRIP IRRIGATION TUBING
 DG DECOMPOSED GRANITE
 DN DIAMETER NOMINAL
 DVA DRIP VALVE ASSEMBLY

E

EC EROSION CONTROL
 ECTC EROSION CONTROL TECHNOLOGY COUNCIL
 ElecT ELECTRIC/ELECTRICAL
 Elev ELEVATION
 ELL ELBOW
 ENCL ENCLOSURE
 EP EDGE OF PAVEMENT
 ES EDGE OF SHOULDER
 EST END STRIP
 ESTB ESTABLISHMENT
 ETW EDGE OF TRAVELED WAY

F

F FULL CIRCLE
 F/P FULL/PART CIRCLE
 FCV FLOW CONTROL VALVE
 FERT FERTILIZER
 FG FINISHED GRADE
 FH FLEXIBLE HOSE
 FIPT FEMALE IRON PIPE THREAD
 FIS FERTILIZER INJECTOR SYSTEM
 FL FLOW LINE
 FR FIBER ROLL
 FS FLOW SENSOR
 FSC FLOW SENSOR CABLE
 FV FLUSH VALVE

G

Galv GALVANIZED
 GARV GARDEN VALVE
 GARVA GARDEN VALVE ASSEMBLY
 GM GRAVEL MULCH
 GPH GALLONS PER HOUR
 GPM GALLONS PER MINUTE
 GSP GALVANIZED STEEL PIPE
 GV GATE VALVE

H

H HALF CIRCLE
 HDPE HIGH DENSITY POLYETHYLENE
 HP HORSEPOWER/HINGE POINT
 HPL HIGH PRESSURE LINE
 Hwy HIGHWAY

I

IC IRRIGATION CONTROLLER
 ICC IRRIGATION CONTROLLER(S)
 IN CONTROLLER ENCLOSURE CABINET
 ID INSIDE DIAMETER
 IFS IRRIGATION FILTRATION SYSTEM
 IPS IRON PIPE SIZE
 IPT IRON PIPE THREAD
 Irr IRRIGATION

L

L LENGTH

M

Max MAXIMUM
 MBGR METAL BEAM GUARD RAILING
 MCV MANUAL CONTROL VALVE
 MIC MASTER IRRIGATION CONTROLLER
 Min MINIMUM
 MIPT MALE IRON PIPE THREAD
 Misc MISCELLANEOUS
 MtI MATERIAL
 MVP MAINTENANCE VEHICLE PULLOUT

N

NCN NO COMMON NAME
 NL NOZZLE LINE
 No. NUMBER
 NPT NATIONAL PIPE THREAD

O

O/C ON CENTER
 OD OUTSIDE DIAMETER
 OL OVERLAP

P

P PART CIRCLE
 PB PULL BOX
 PCC PORTLAND CEMENT CONCRETE
 PE POLYETHYLENE
 Pk+ PACKET
 PL PLASTIC
 PLS PURE LIVE SEED
 PLT PLANT/PLANTING
 PLT ESTB PLANT ESTABLISHMENT
 PM POST MILE
 PR PRESSURE RATED
 PRLV PRESSURE RELIEF VALVE
 PRV PRESSURE REGULATING VALVE
 PVC POLYVINYL CHLORIDE
 Pvm+ PAVEMENT

Q

Q QUARTER CIRCLE
 QCV QUICK COUPLING VALVE

NOTE:
 For additional abbreviations,
 see Standard Plans A10A and A10B.

R

R RADIUS
 RCP REINFORCED CONCRETE PIPE
 RCV REMOTE CONTROL VALVE
 RCVM REMOTE CONTROL VALVE (MASTER)
 RCVMF REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
 RCVP REMOTE CONTROL VALVE W/PRESSURE REGULATOR
 RCW RECYCLED WATER
 RECP ROLLED EROSION CONTROL PRODUCT
 REQ REQUIRED
 RICS REMOTE IRRIGATION CONTROL SYSTEM
 R/W RIGHT OF WAY

S

S SLIP
 SCH SCHEDULE
 SF STATE-FURNISHED
 Shld SHOULDER
 Sq SQUARE
 SST SIDE STRIP
 Sta STATION
 Std STANDARD
 SW SIDEWALK/SOUND WALL

T

T THIRD CIRCLE/THREAD
 TLS TRUCK LOADING STANDPIPE
 TQ THREE QUARTER CIRCLE
 TRM TURF REINFORCEMENT MAT
 TT TWO-THIRDS CIRCLE
 TWSA TREE WELL SPRINKLER ASSEMBLY
 Typ TYPICAL

U

UG UNDERGROUND

W

W WIDTH
 W/ WITH
 WM WATER METER
 WS WYE STRAINER
 WSA WYE STRAINER ASSEMBLY
 WSP WELDED STEEL PIPE
 WWM WELDED WIRE MESH

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**LANDSCAPE AND
 EROSION CONTROL ABBREVIATIONS**
 NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1
 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	40	51

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

November 15, 2013
PLANS APPROVAL DATE

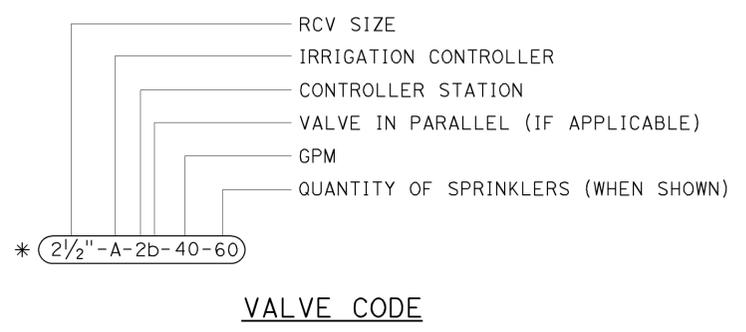
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TO ACCOMPANY PLANS DATED 2-29-16

2010 REVISED STANDARD PLAN RSP H2

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE) IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		ARMOR-CLAD CONDUCTORS (ACC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		EXTEND IRRIGATION CONDUIT
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
		COPPER PIPE (SUPPLY LINE)
		DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
		DRIP VALVE ASSEMBLY (DVA)
		WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
		FIBER ROLL
		COMPOST SOCK



* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

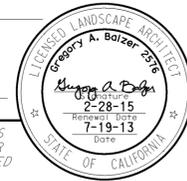
RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**LANDSCAPE AND EROSION
CONTROL SYMBOLS**
NO SCALE

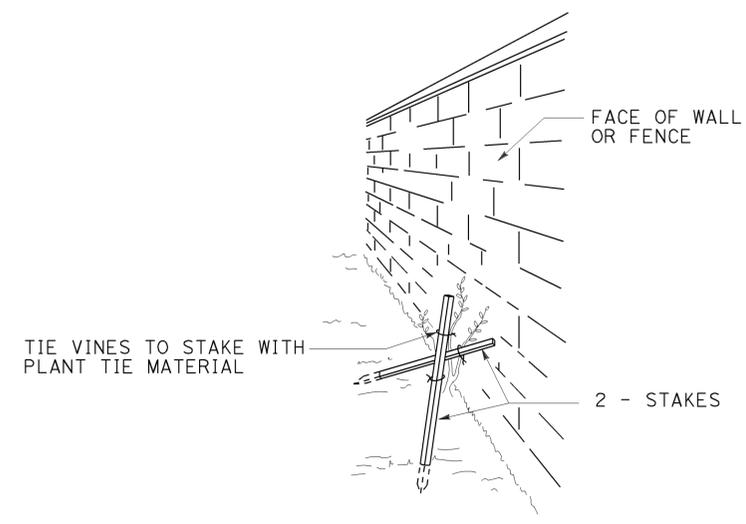
REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	41	51

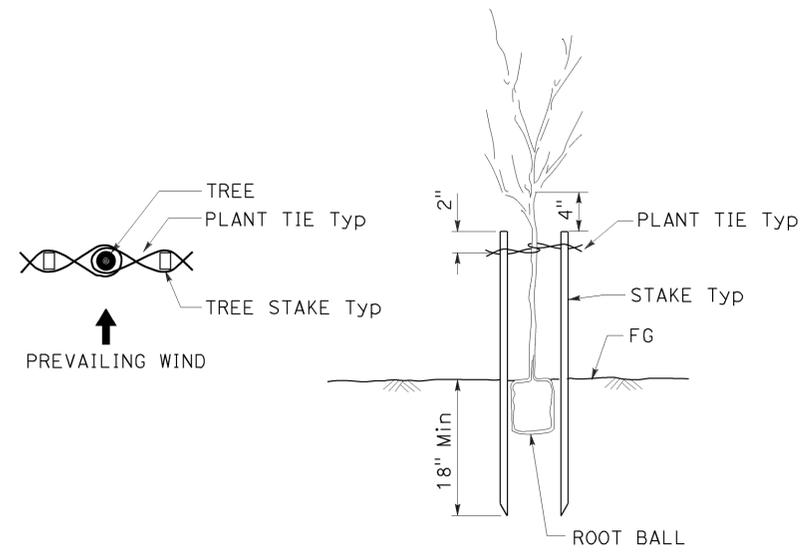
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
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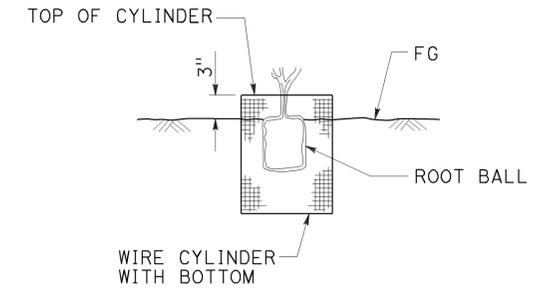
TO ACCOMPANY PLANS DATED 2-29-16



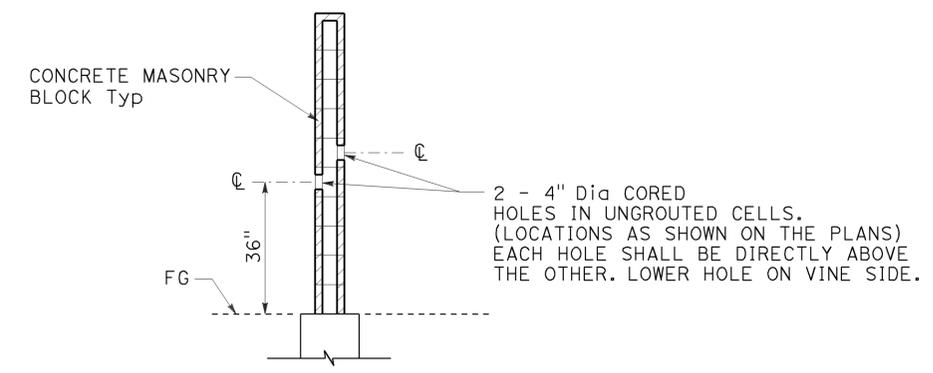
PERSPECTIVE VINE STAKING



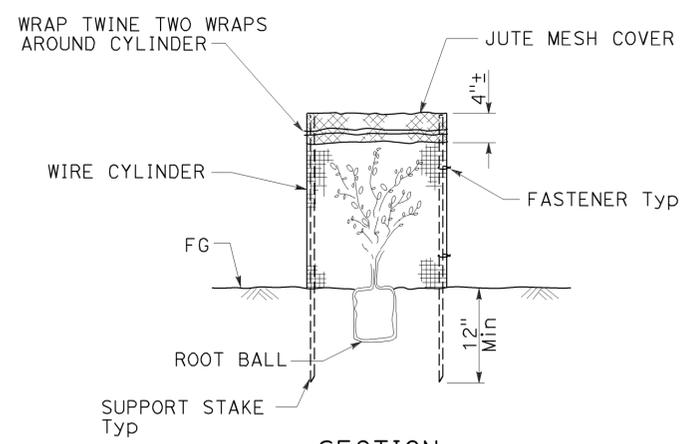
TREE STAKING



SECTION ROOT PROTECTOR



SECTION CORE HOLE (VINE)



SECTION FOLIAGE PROTECTOR

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

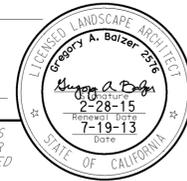
RSP H4 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H4 DATED MAY 20, 2011 - PAGE 221 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H4

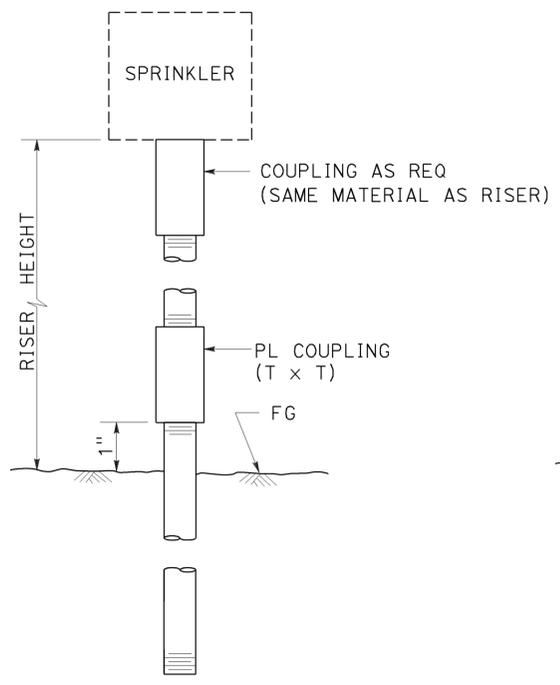
2010 REVISED STANDARD PLAN RSP H4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	42	51

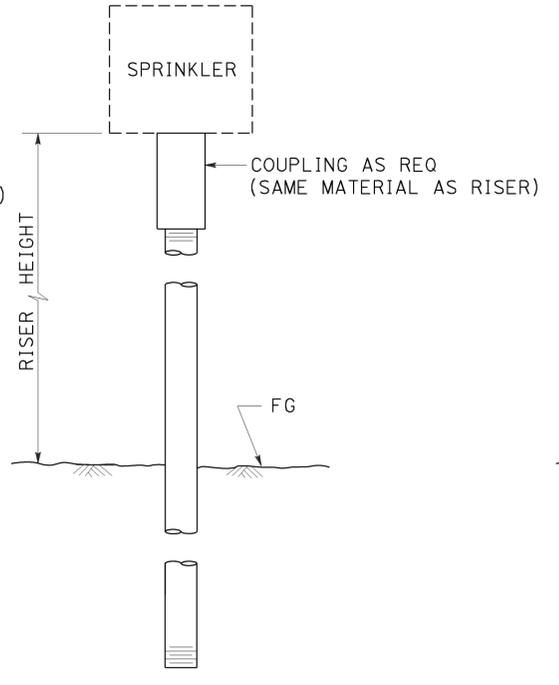
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
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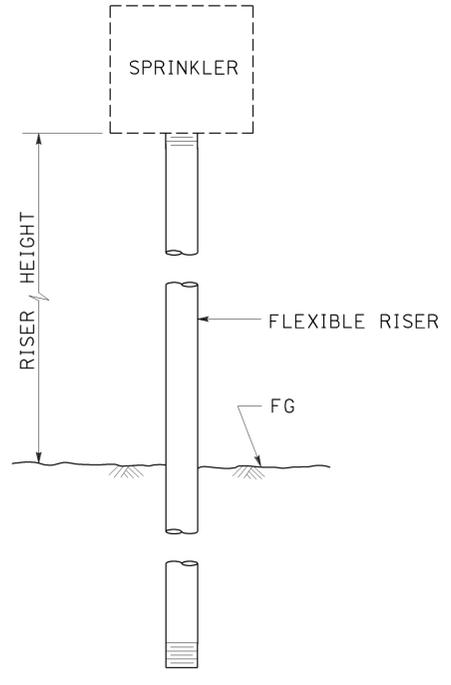
TO ACCOMPANY PLANS DATED 2-29-16



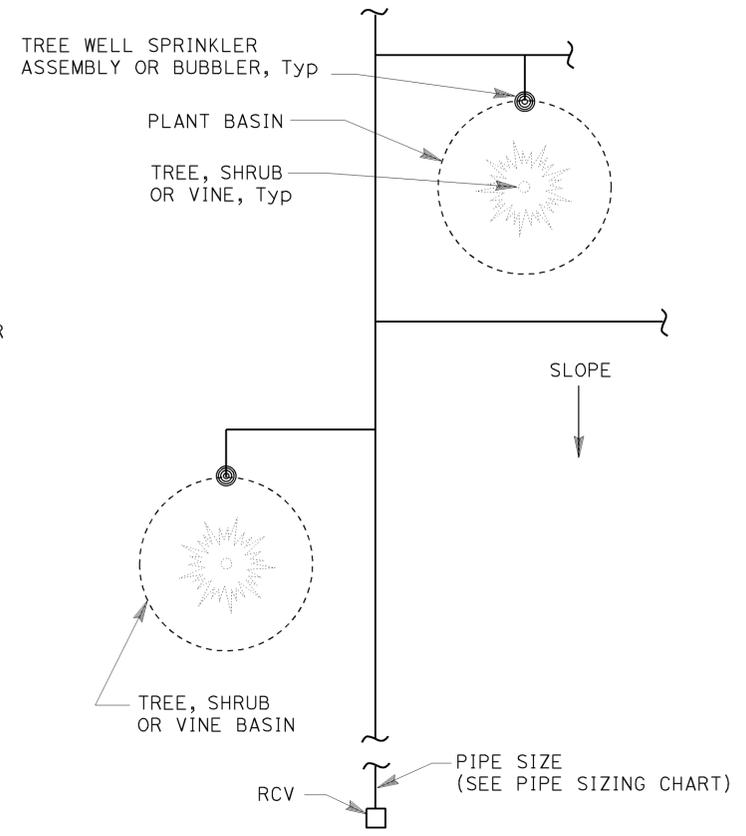
ELEVATION
RISER SPRINKLER ASSEMBLY TYPE I



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE II

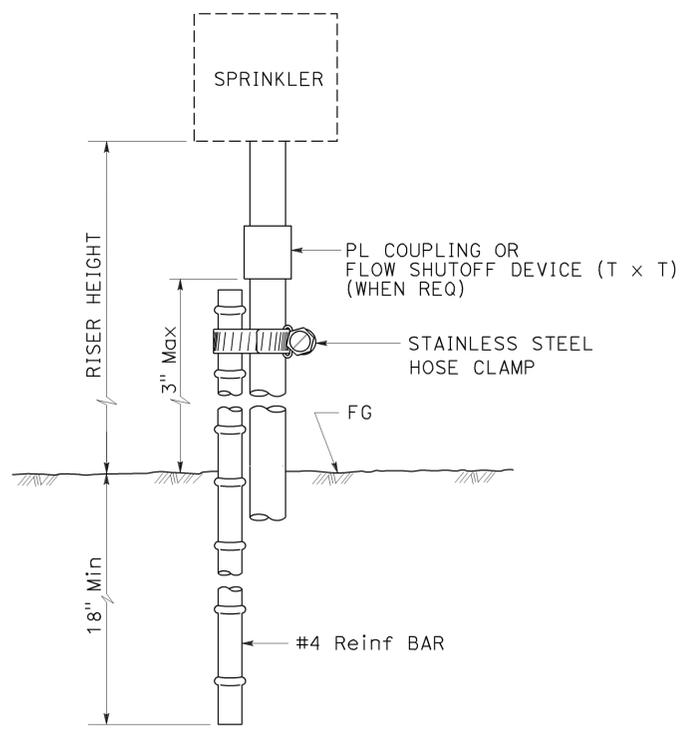


ELEVATION
RISER SPRINKLER ASSEMBLY TYPE III

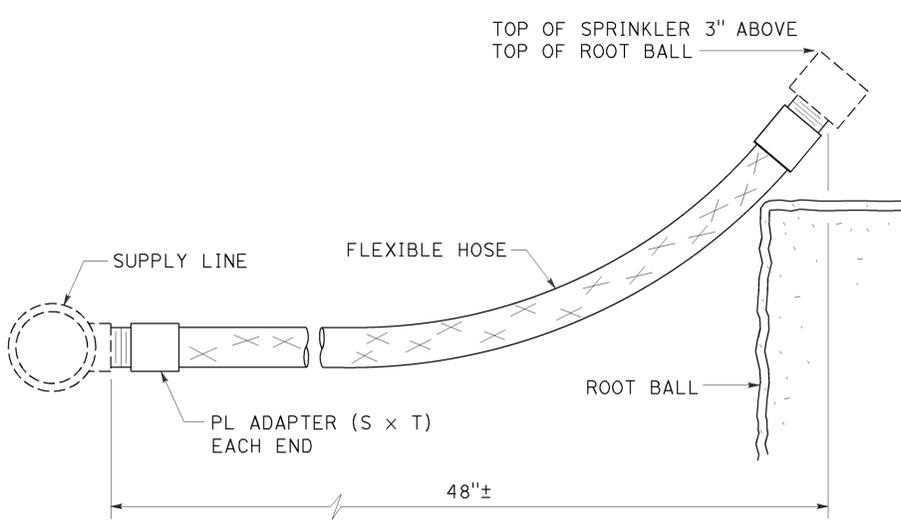


PLAN

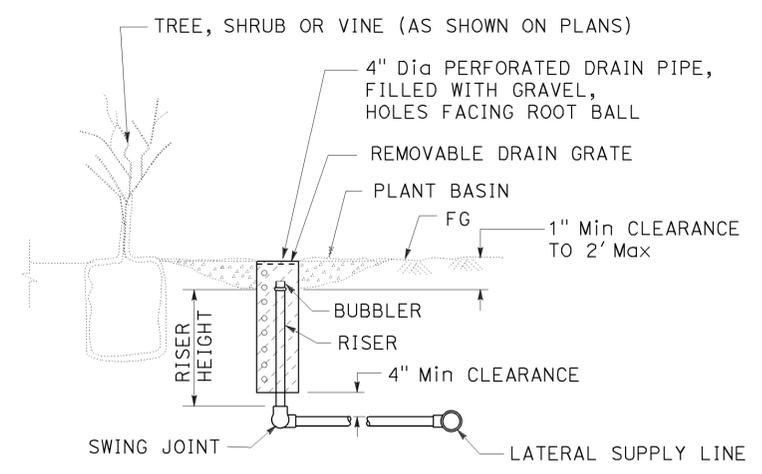
- NOTES:**
1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
 2. Install bubbler within basin.



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE IV



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE V



SECTION
TREE WELL SPRINKLER ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
NO SCALE

RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5 DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

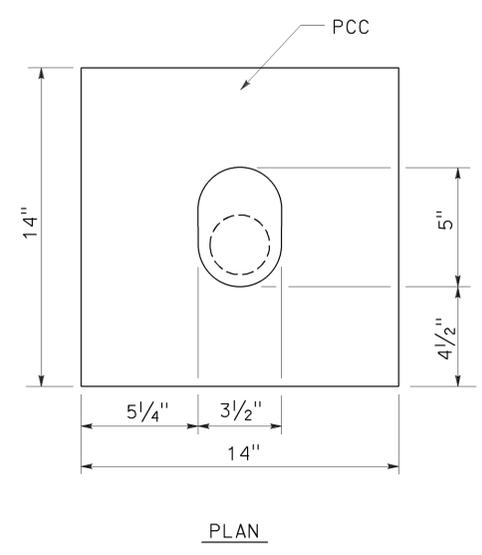
REVISED STANDARD PLAN RSP H5

2010 REVISED STANDARD PLAN RSP H5

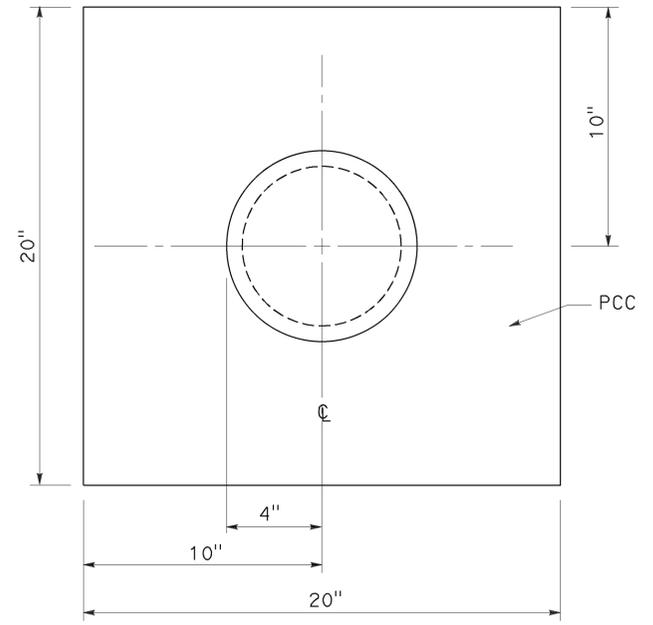
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	43	51

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
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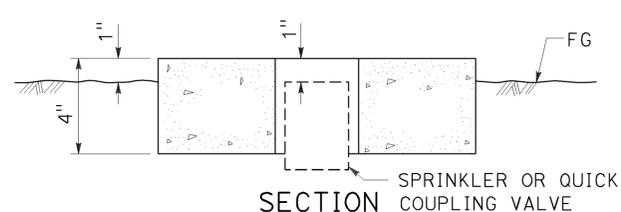
TO ACCOMPANY PLANS DATED 2-29-16



PLAN

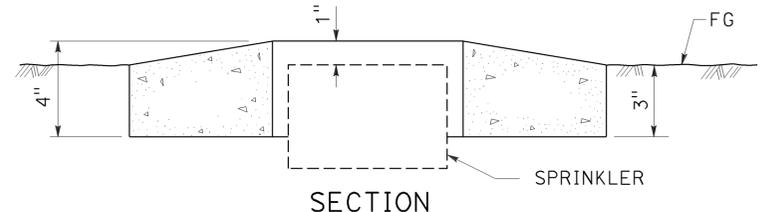


PLAN



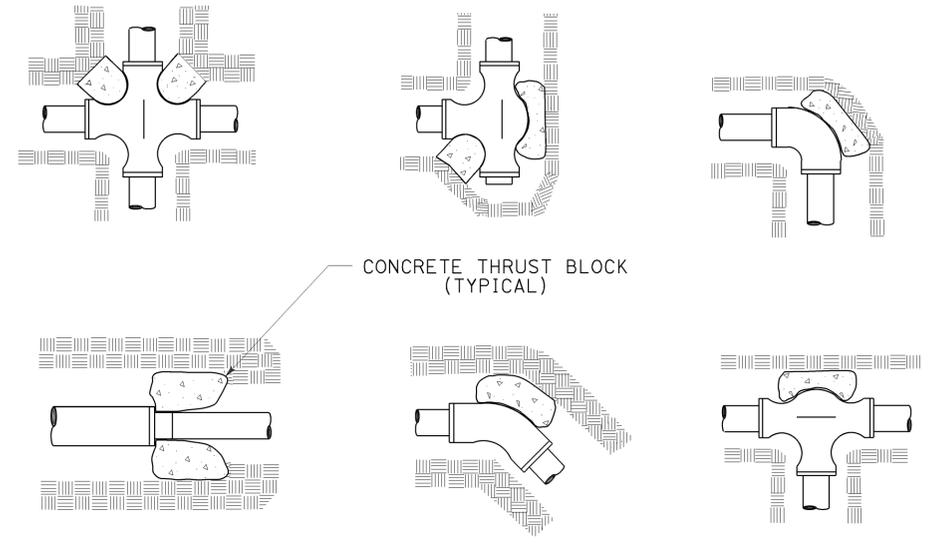
SECTION

SPRINKLER PROTECTOR TYPE I

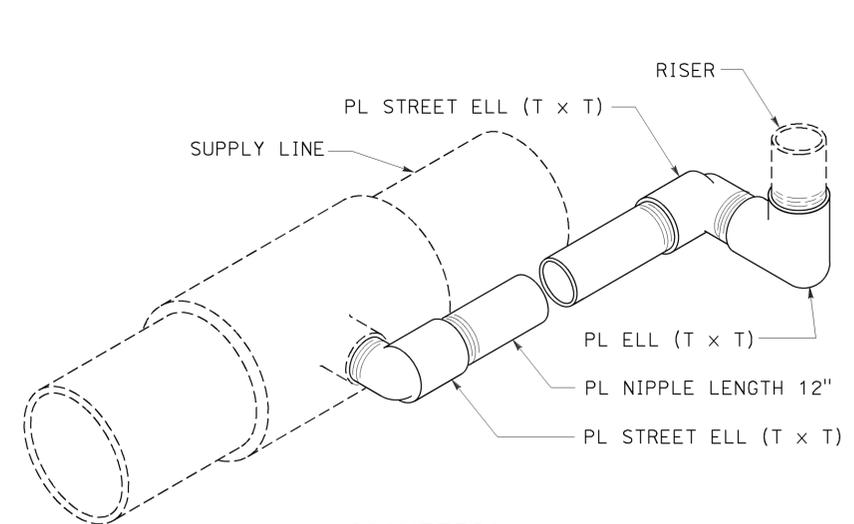


SECTION

SPRINKLER PROTECTOR TYPE II

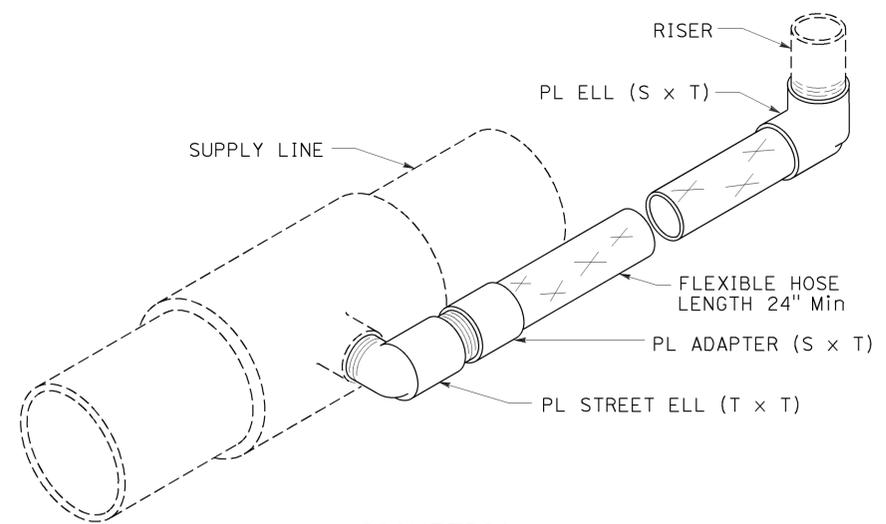


TYPICAL THRUST BLOCKS



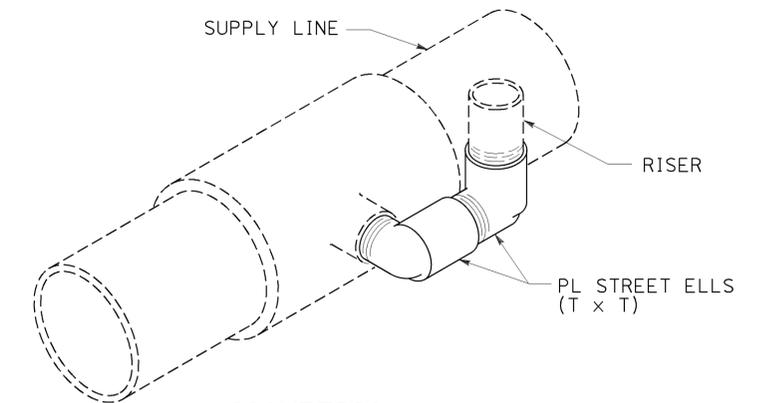
ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE I



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE II



ISOMETRIC

POP-UP SPRINKLER ASSEMBLY TYPE III

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS

NO SCALE

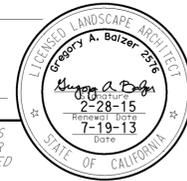
RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6
 DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H6

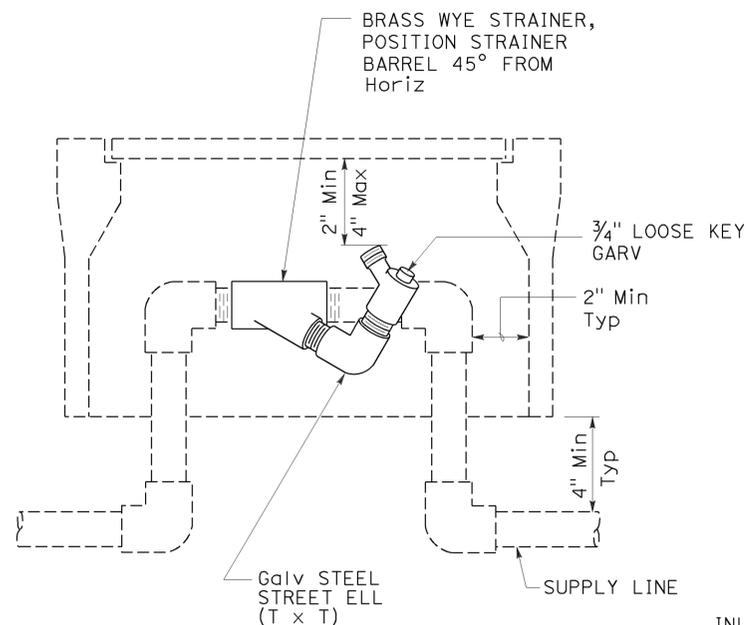
2010 REVISED STANDARD PLAN RSP H6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	44	51

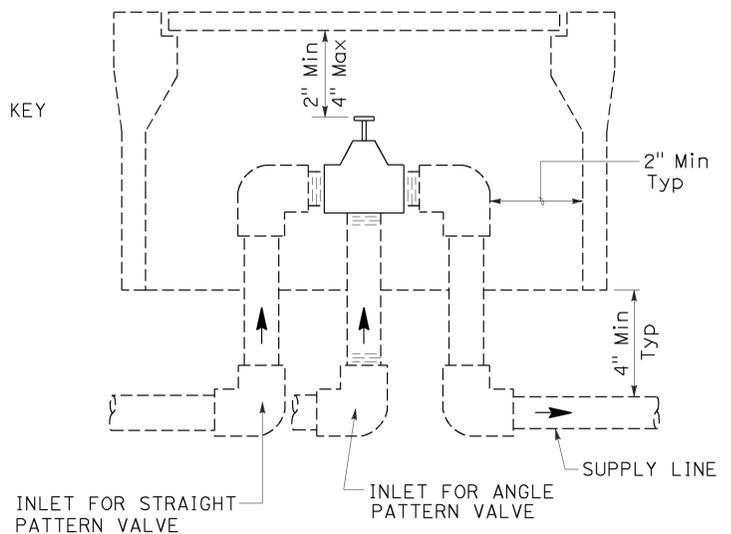
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



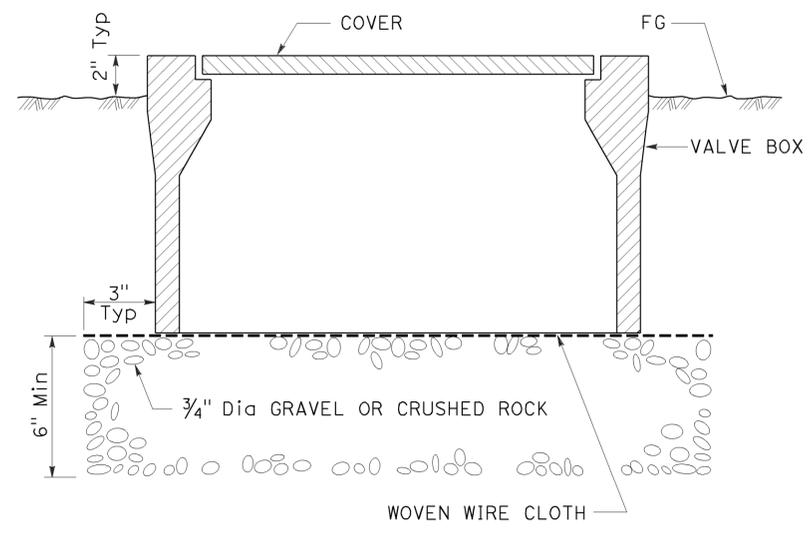
TO ACCOMPANY PLANS DATED 2-29-16



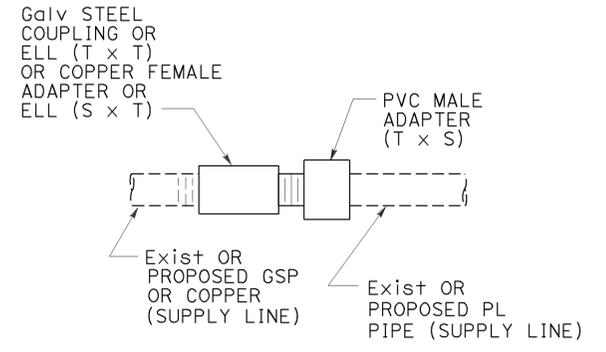
**ELEVATION
WYE STRAINER ASSEMBLY**



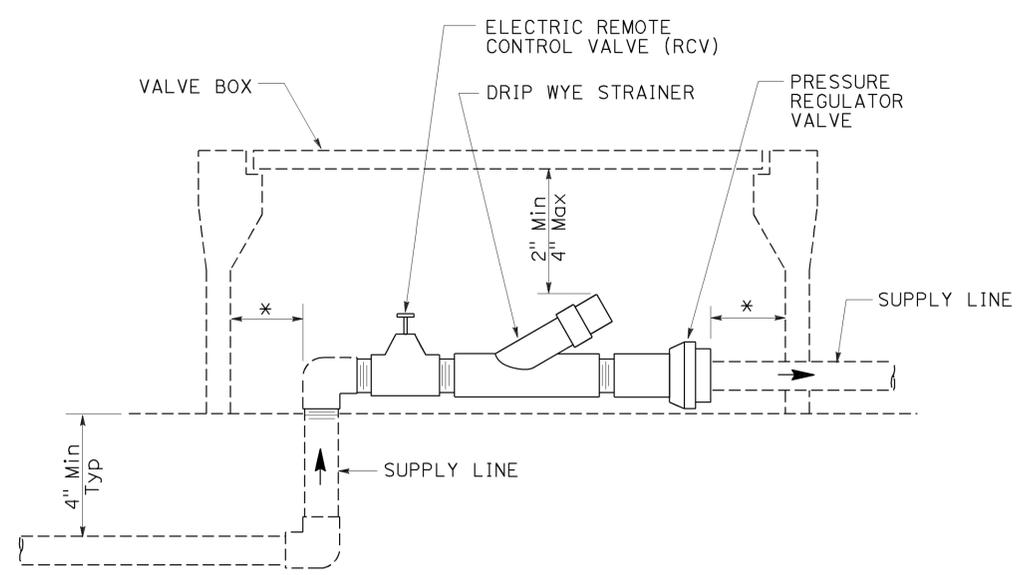
**ELEVATION
VALVE**



**SECTION
VALVE BOX**



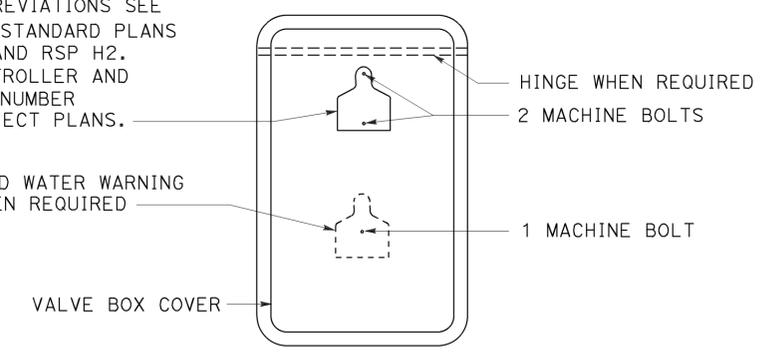
**GALVANIZED OR COPPER PIPE
CONNECTION TO PLASTIC PIPE**



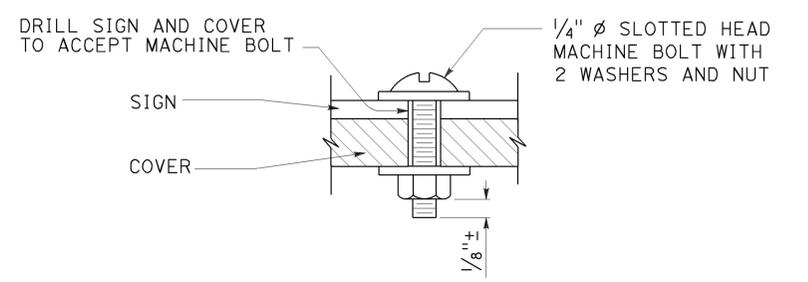
**ELEVATION
DRIP VALVE ASSEMBLY**

IDENTIFICATION LABEL:
FOR ABBREVIATIONS SEE
REVISED STANDARD PLANS
RSP H1 AND RSP H2.
FOR CONTROLLER AND
STATION NUMBER
SEE PROJECT PLANS.

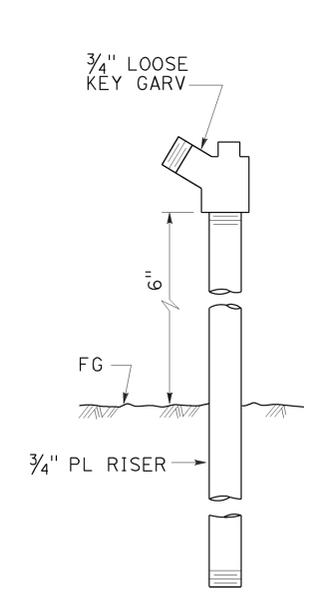
RECYCLED WATER WARNING
SIGN WHEN REQUIRED



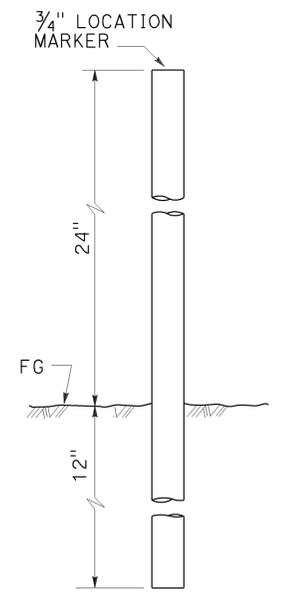
PLAN



**SECTION
VALVE BOX IDENTIFICATION**



**ELEVATION
GARDEN VALVE ASSEMBLY**



**ELEVATION
LOCATION MARKER**

GARDEN VALVE ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

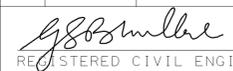
NO SCALE

RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7
DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H7

2010 REVISED STANDARD PLAN RSP H7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	45	51


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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

TO ACCOMPANY PLANS DATED 2-29-16

TABLE 1

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

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

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

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

TABLE 2

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

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

TABLE 3

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

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

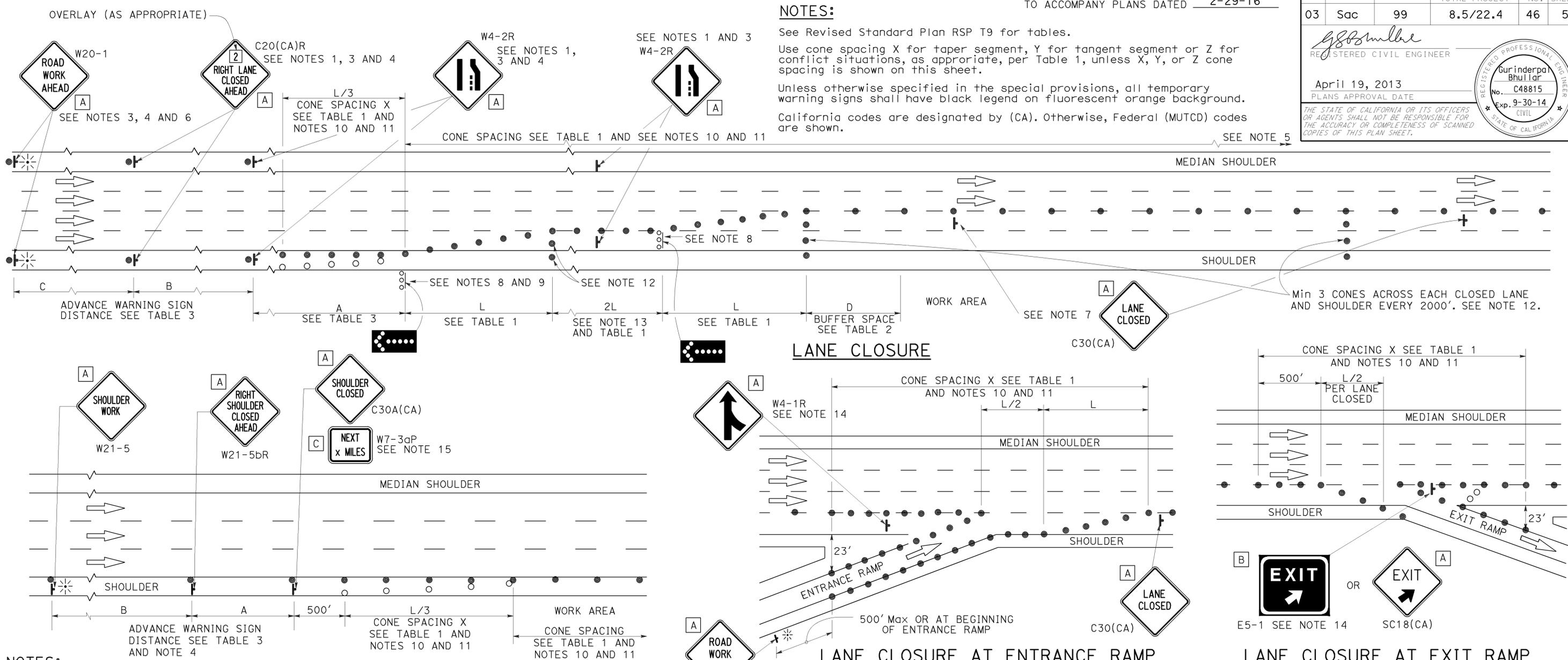
RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	46	51

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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



- NOTES:**
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 - At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 - Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 - Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 - A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA)L and W4-2L signs shall be used.
 - Place a C30(CA) sign every 2000' throughout length of lane closure.
 - One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 - A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 - All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 - Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
- Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
- A W7-3aP "NEXT _____ MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- ▬ TEMPORARY TRAFFIC CONTROL SIGN
- [] FLASHING ARROW SIGN (FAS)
- [] FAS SUPPORT OR TRAILER
- * PORTABLE FLASHING BEACON

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

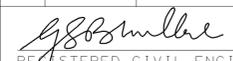
NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

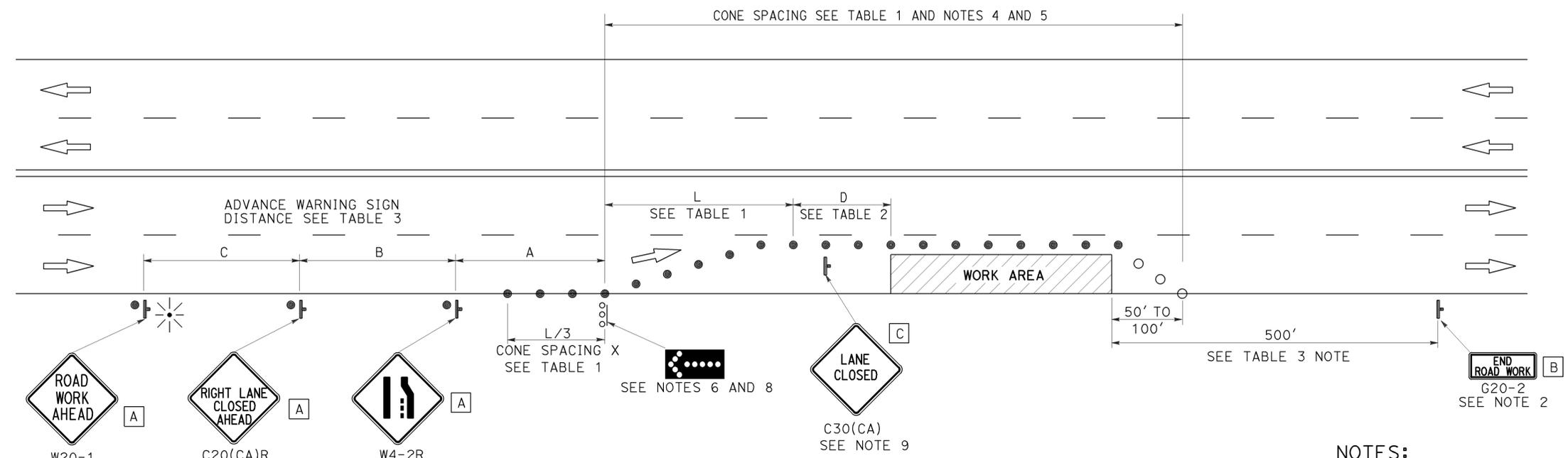
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	47	51


 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 2-29-16



TYPICAL LANE CLOSURE

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.

NOTES:

- Each advance warning sign shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. 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 closure unless the end of work area is obvious, or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a C20(CA) sign for the first advance warning sign.
- 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.
- Flashing arrow sign shall be either Type I or Type II.
- For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
- A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at the top of crest vertical curve or on a horizontal curve.
- Place a C30(CA) sign every 2000' throughout length of lane closure.
- Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

LEGEND

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

SIGN PANEL SIZE (Min)

- A** 48" x 48"
- B** 36" x 18"
- C** 30" x 30"

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR LANE CLOSURE ON
 MULTILANE CONVENTIONAL
 HIGHWAYS**

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11
 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

LEGEND:

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

ABBREVIATIONS

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	48	51

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL
STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 2-29-16

SOFFIT AND WALL-MOUNTED LUMINAIRES

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

NOTE:

Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1A DATED JULY 19, 2013 AND STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

MISCELLANEOUS ELECTROLIERS

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

NOTES:

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

STANDARD ELECTROLIER

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Sac	99	8.5/22.4	49	51

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 2-29-16

CONDUIT

SIGNAL EQUIPMENT

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

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

SIGNAL EQUIPMENT Cont

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

SERVICE EQUIPMENT

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

POLE-MOUNTED SERVICE DESIGNATION

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

FLASHING BEACON

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

		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

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

ILLUMINATED OVERHEAD SIGN

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**

NO SCALE

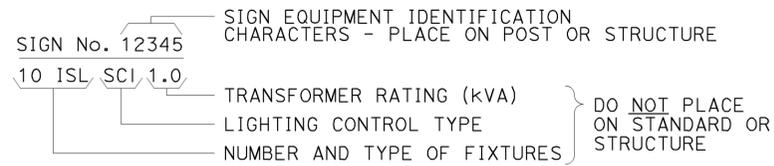
RSP ES-1B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1B DATED JULY 19, 2013 AND STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

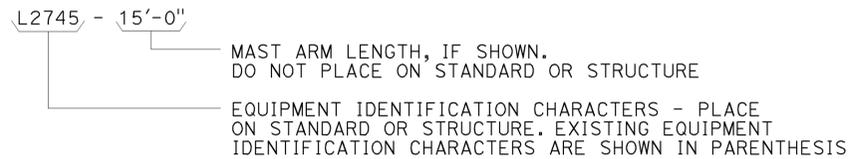
2010 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

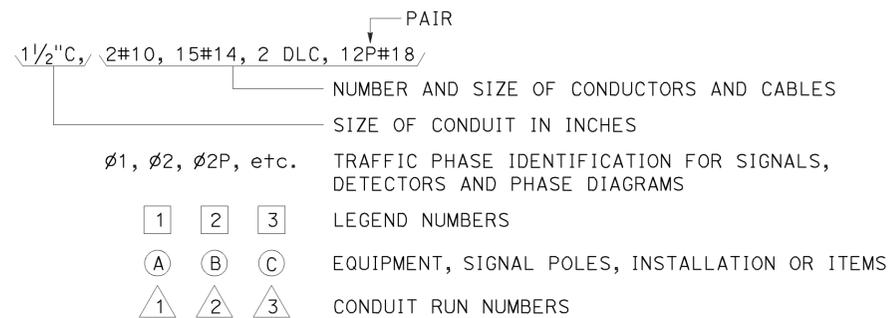
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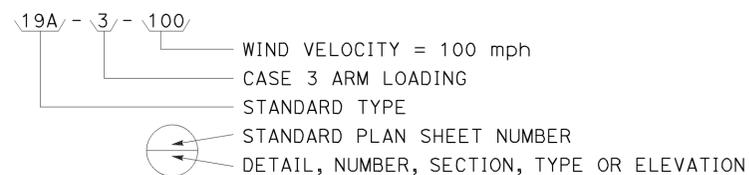
ELECTROLIER OR EQUIPMENT IDENTIFICATION:



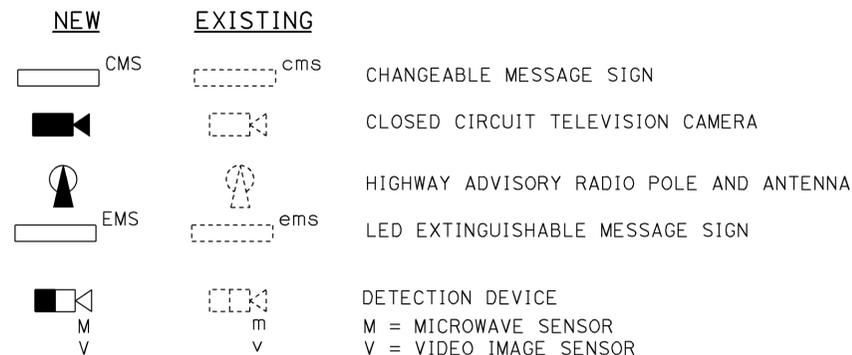
CONDUIT AND CONDUCTOR IDENTIFICATION:



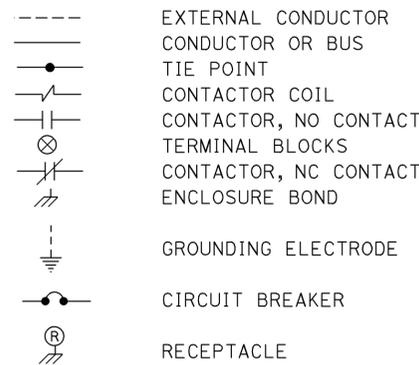
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



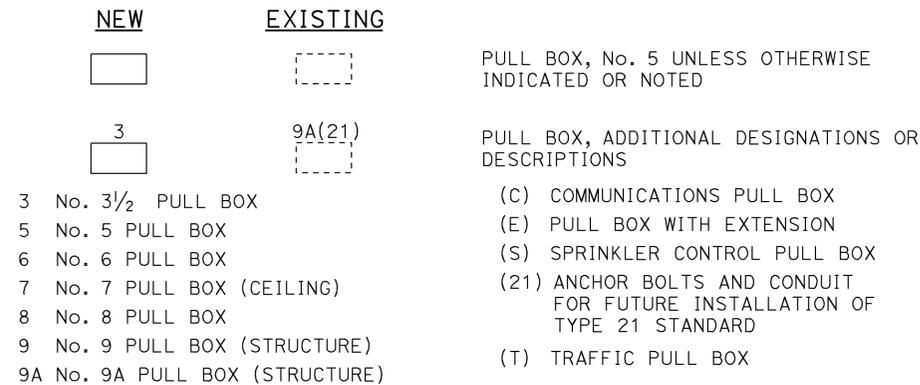
MISCELLANEOUS EQUIPMENT



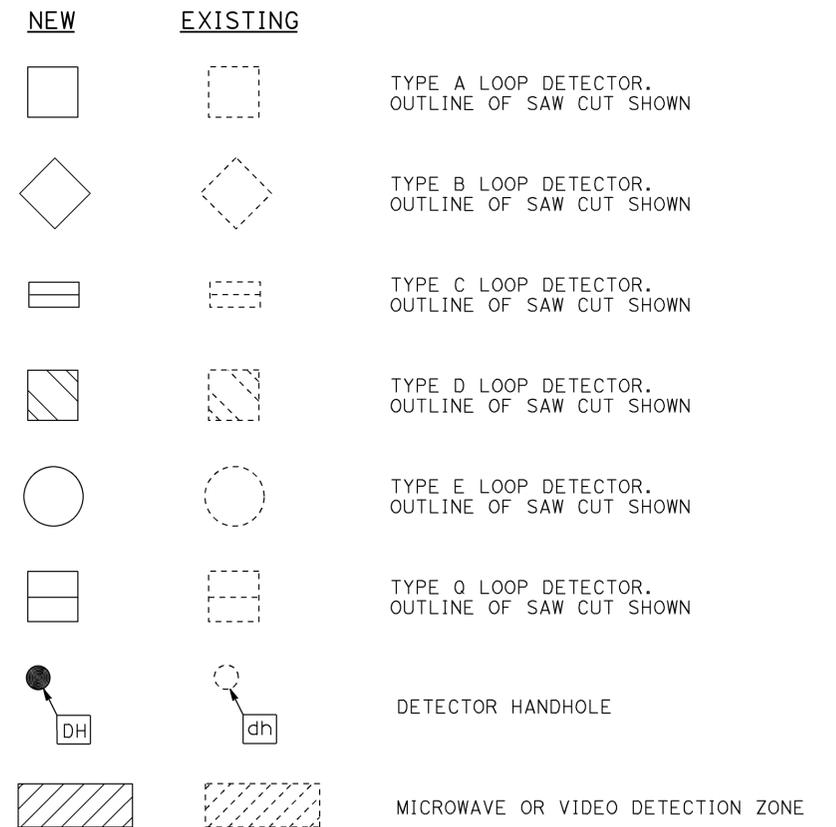
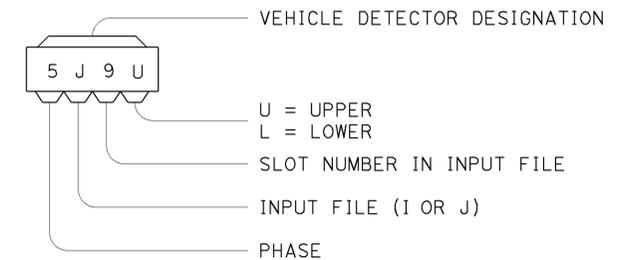
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED APRIL 15, 2016 SUPERSEDES RSP ES-1C DATED OCTOBER 30, 2015 AND RSP ES-1C DATED JULY 19, 2013 AND STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

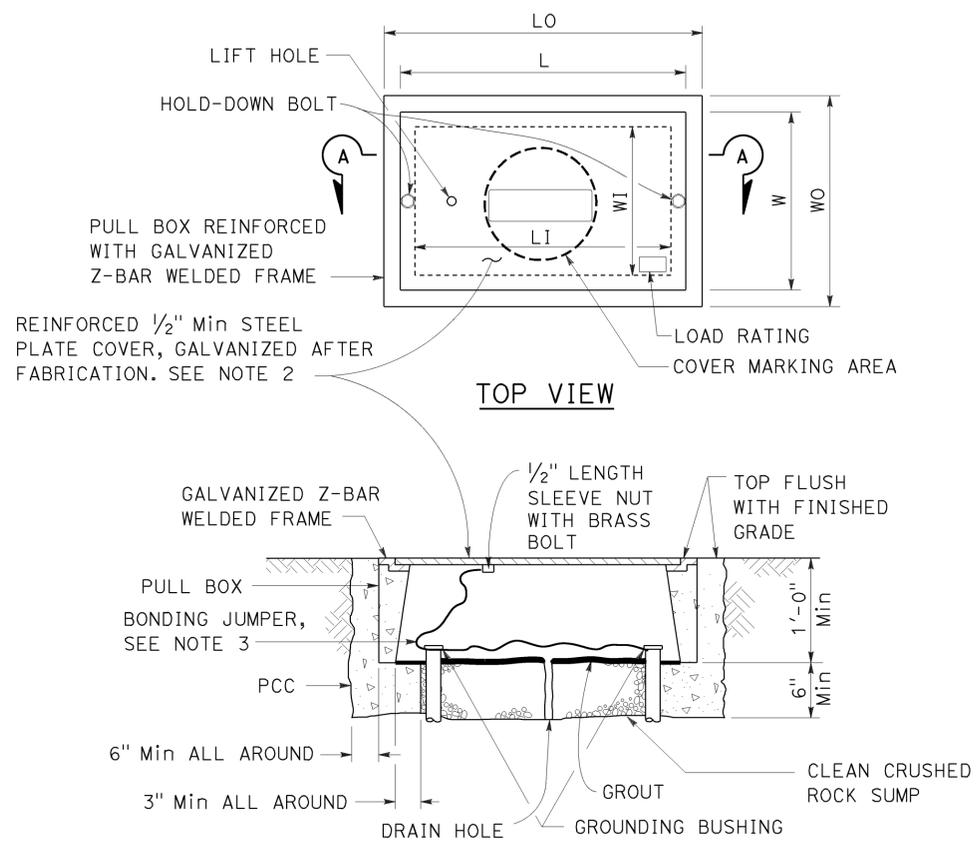
2010 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Sac	99	8.5/22.4	51	51

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 April 15, 2016
 PLANS APPROVAL DATE

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

TO ACCOMPANY PLANS DATED 2-29-16



SECTION A-A
**No. 3 1/2(T), No. 5(T) AND
 No. 6(T) TRAFFIC PULL BOX**

NOTES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8".

PULL BOX	PULL BOX				COVER			
	MINIMUM * THICKNESS	MINIMUM DEPTH BOX AND EXTENSION	LO	LI	WO	WI	L **	W **
No. 3 1/2(T)	1 1/2"	1'-0"	1'-10" - 1'-11"	1'-5" - 1'-6 1/2"	1'-3" - 1'-4"	10" - 1'-0"	1'-8" - 1'-8 1/2"	1'-1" - 1'-2"
No. 5(T)	1 3/4"	1'-0"	2'-5" - 2'-6"	2'-0" - 2'-1"	1'-6" - 1'-7"	1'-1" - 1'-2"	2'-3" - 2'-3 1/2"	1'-4" - 1'-4 1/2"
No. 6(T)	2"	1'-0"	2'-11" - 3'-1"	2'-6" - 2'-7"	1'-10" - 2'-0"	1'-5" - 1'-6"	2'-9" - 2'-9 1/2"	1'-8" - 1'-8 1/2"

* EXCLUDING CONDUIT WEB ** TOP DIMENSION

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

RSP ES-8B DATED APRIL 15, 2016 SUPERSEDES RSP ES-8B
 DATED OCTOBER 30, 2015 AND RSP ES-8B DATED JULY 19, 2013 AND RSP ES-8B
 DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-8B

2010 REVISED STANDARD PLAN RSP ES-8B