

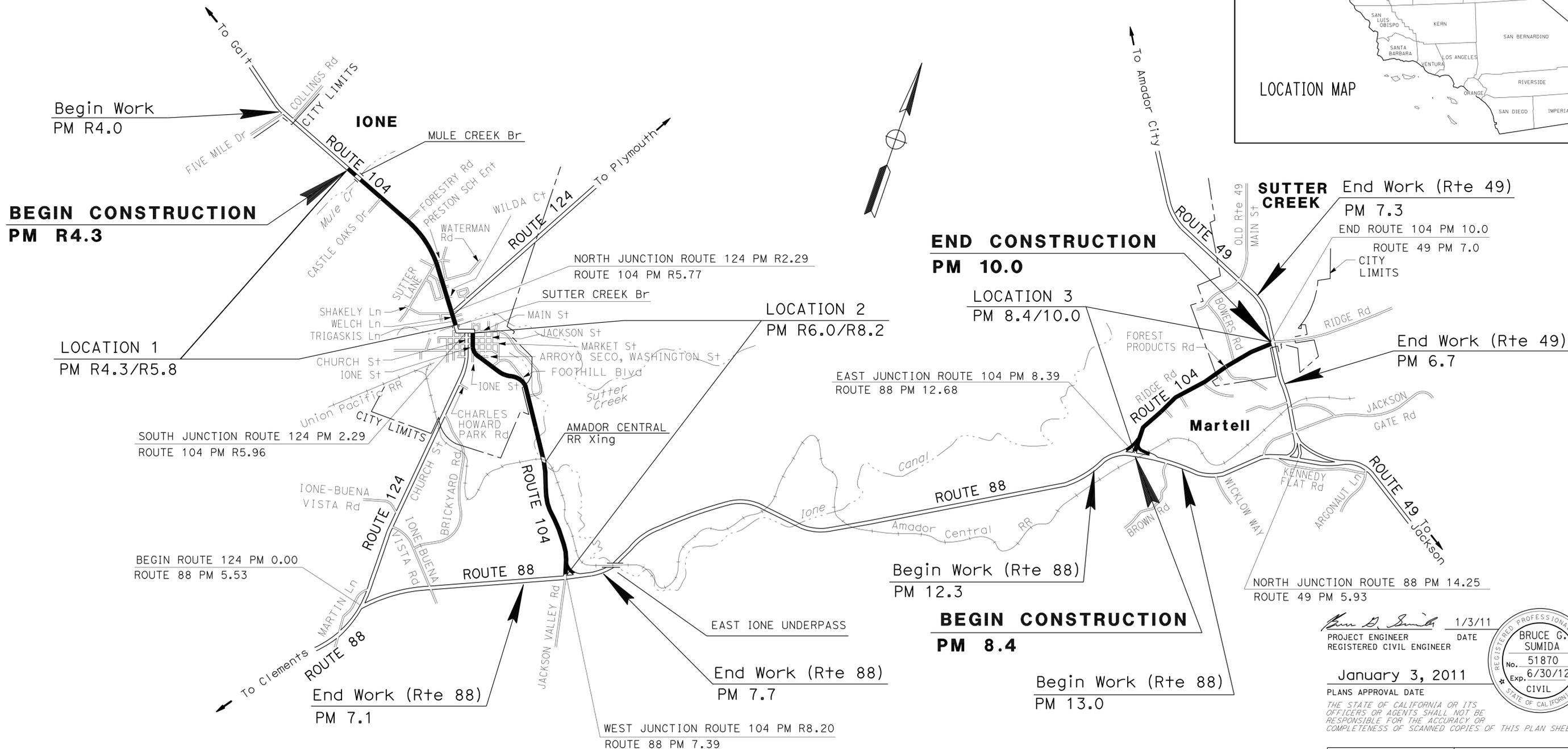
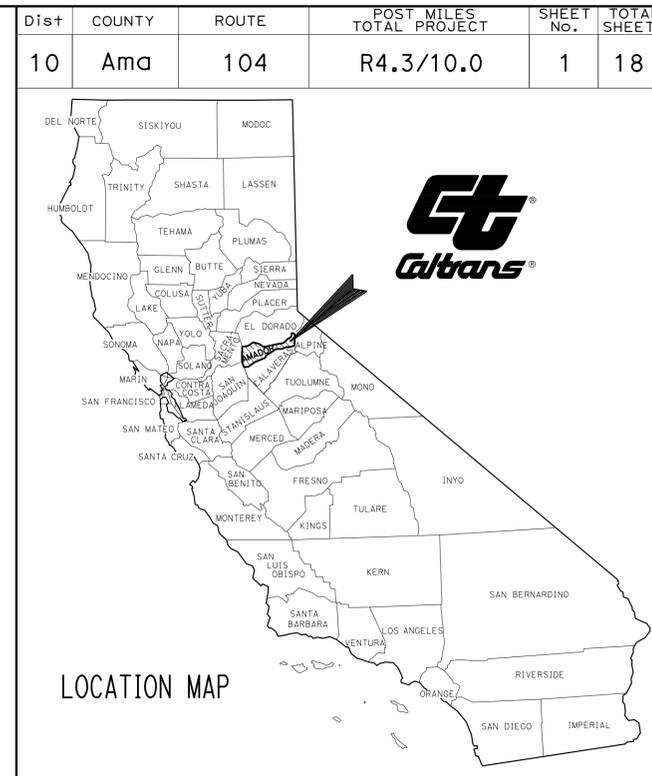
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	CONSTRUCTION DETAILS
5	CONSTRUCTION AREA SIGNS
6-8	SUMMARY OF QUANTITIES
9	ELECTRICAL PLAN
10-18	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 AMADOR COUNTY
IN AND NEAR IONE AT VARIOUS LOCATIONS
FROM 0.1 MILE WEST OF MULE CREEK BRIDGE
TO 0.1 MILE WEST OF ROUTE 49

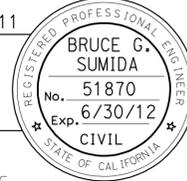
TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
ALVIN MANGINDIN

DESIGN ENGINEER
ALVIN MANGINDIN

Sam D. Smith 1/3/11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
 January 3, 2011
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



CONTRACT No.	10-0U9204
PROJECT ID	1000000754

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

NO SCALE

DATE PLOTTED => 25-JAN-2011 TIME PLOTTED => 14:35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

NOTES:
 1. DIMENSIONS OF PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
 2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 4. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
 5. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES.

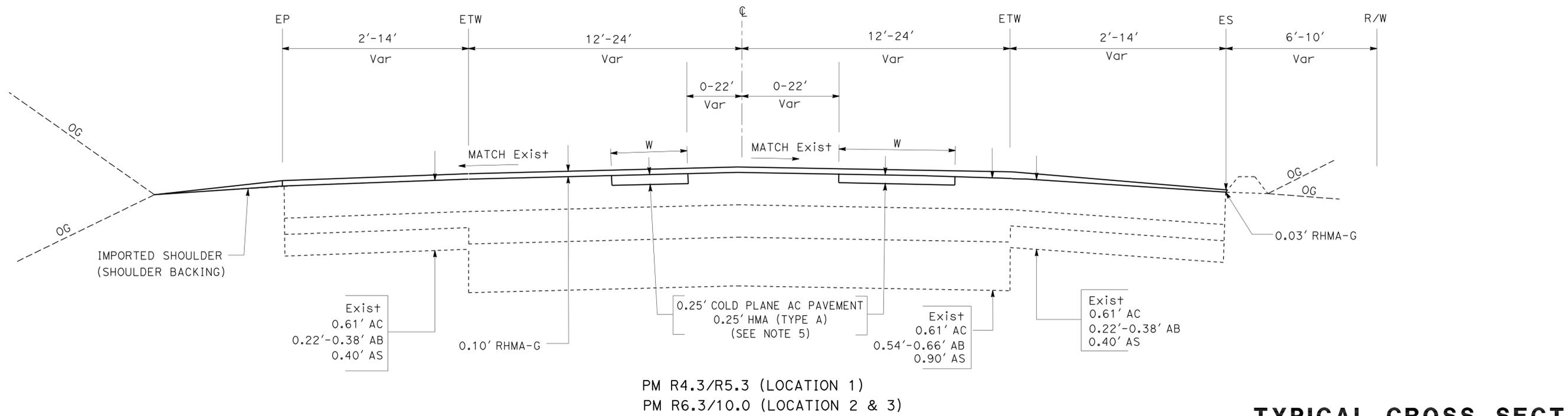
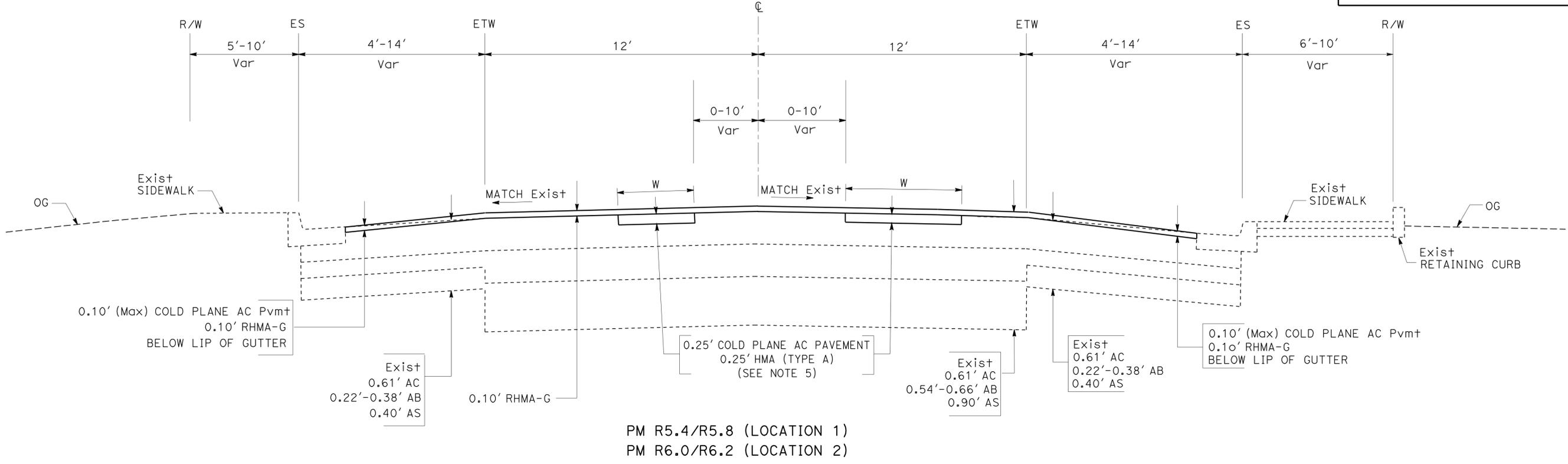
ABBREVIATION
 RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	104	R4.3/10.0	2	18

1/3/11
 REGISTERED CIVIL ENGINEER DATE
 1/3/11
 PLANS APPROVAL DATE

BRUCE G. SUMIDA
 No. 51870
 Exp. 6/30/12
 CIVIL

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



TYPICAL CROSS SECTIONS
 NO SCALE
X-1

LAST REVISION DATE PLOTTED => 25-JAN-2011
 00-00-00 TIME PLOTTED => 14:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	104	R4.3/10.0	3	18

Bruce G. Sumida 1/3/11
 REGISTERED CIVIL ENGINEER DATE
 1/3/11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
BRUCE G. SUMIDA
 No. 51870
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA

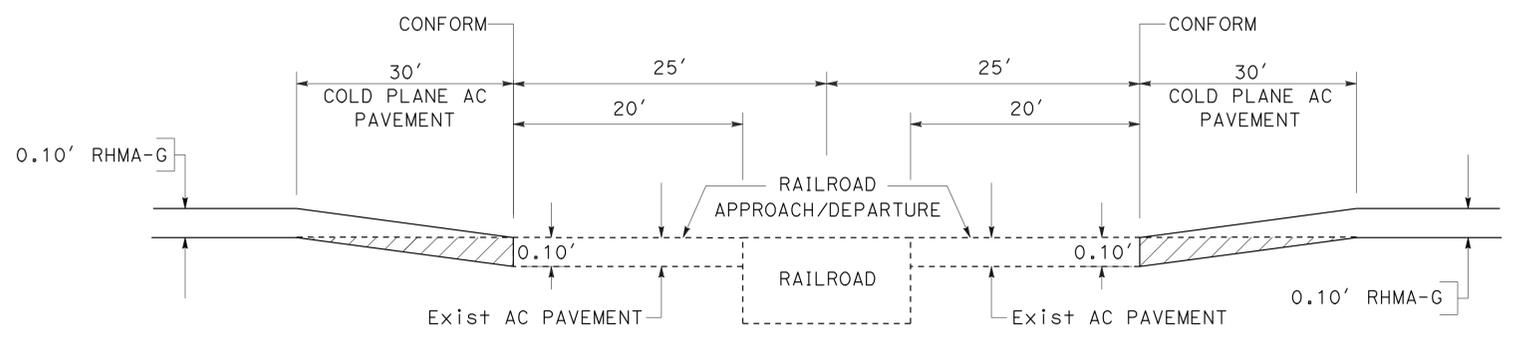
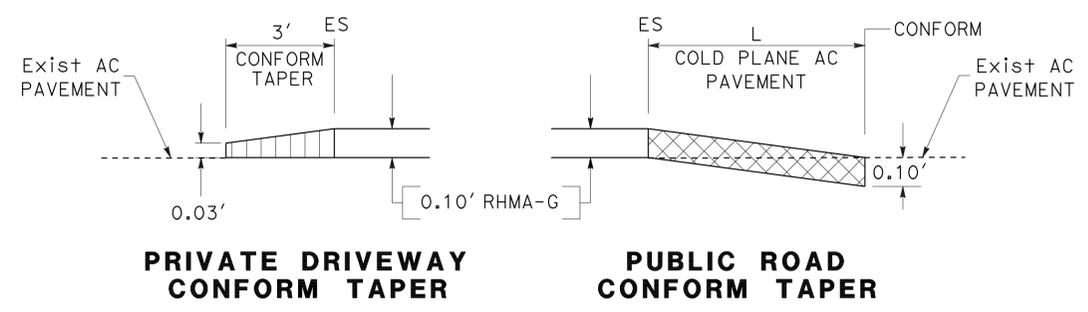
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

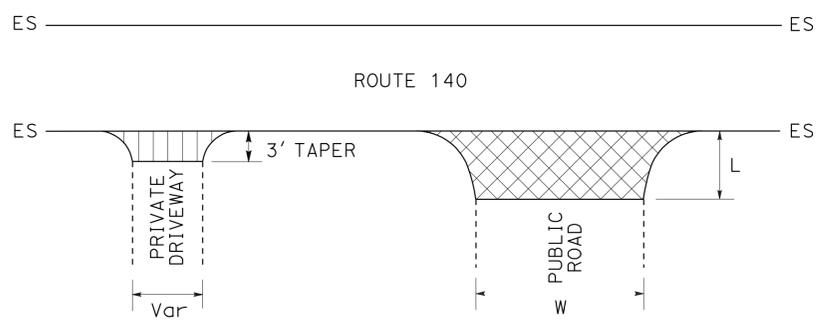
- COLD PLANE AC PAVEMENT RHMA-G
- COLD PLANE AC PAVEMENT HMA (TYPE A)
- HMA (TYPE A)

ABBREVIATIONS

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



PAVING LIMITS AT RAILROAD APPROACH/DEPARTURE



PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS
 SEE PUBLIC ROAD AND PRIVATE DRIVEWAY INTERSECTIONS TABLES

PRIVATE DRIVEWAY INTERSECTIONS

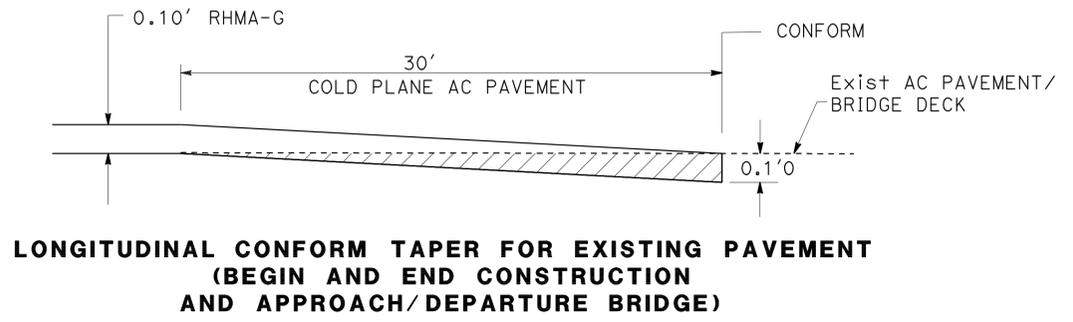
LOCATION	PM	SIDE
1	R4.31	R+
	R5.09	R+
2	R6.55	L+
	R6.73	L+
	R6.76	R+
	R7.57	L+
	R7.72	L+, R+
	R7.73	L+
	R7.92	R+
	R7.94	L+
3	R8.02	L+
	8.49	R+
	8.56	R+
	8.68	R+
	8.75	L+
	9.37	L+
	9.58	L+
	9.68	R+
	9.79	R+
	9.84	L+

TABLE OF RAILROAD

LOCATION	RAILROAD
2	PM R7.3 AMADOR CENTRAL RR CROSSING

TABLE OF BRIDGES

LOCATION	BRIDGE NAME	BRIDGE No.
1	PM R4.4	MULE CREEK BRIDGE 26-0006
	PM R5.9	SUTTER CREEK BRIDGE 26-0050



LONGITUDINAL CONFORM TAPER FOR EXISTING PAVEMENT (BEGIN AND END CONSTRUCTION AND APPROACH/DEPARTURE BRIDGE)

CONSTRUCTION DETAILS
 NO SCALE
C-1

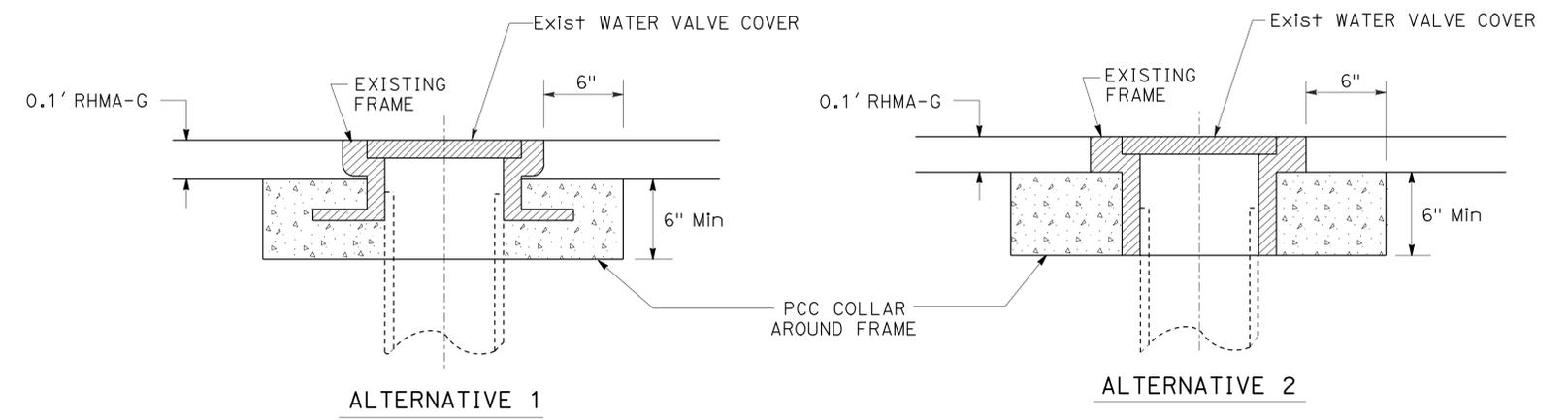
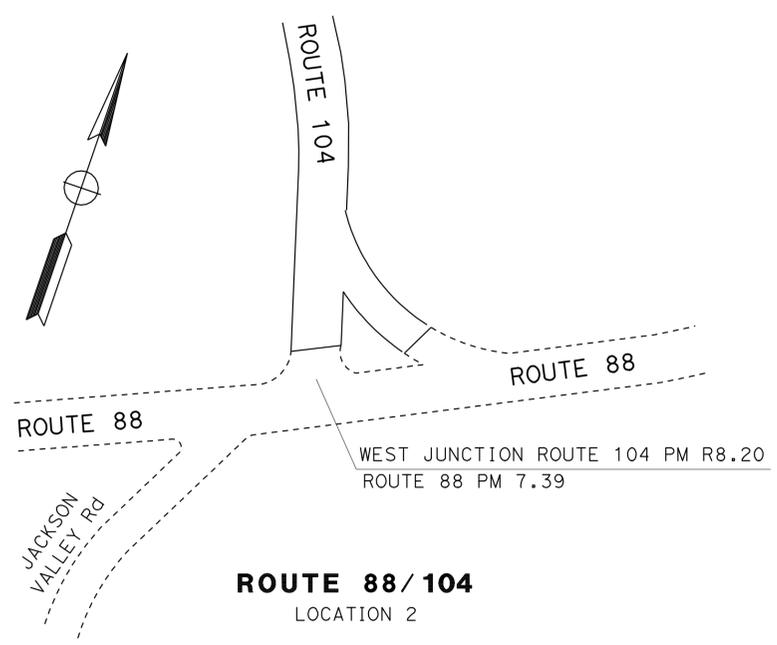
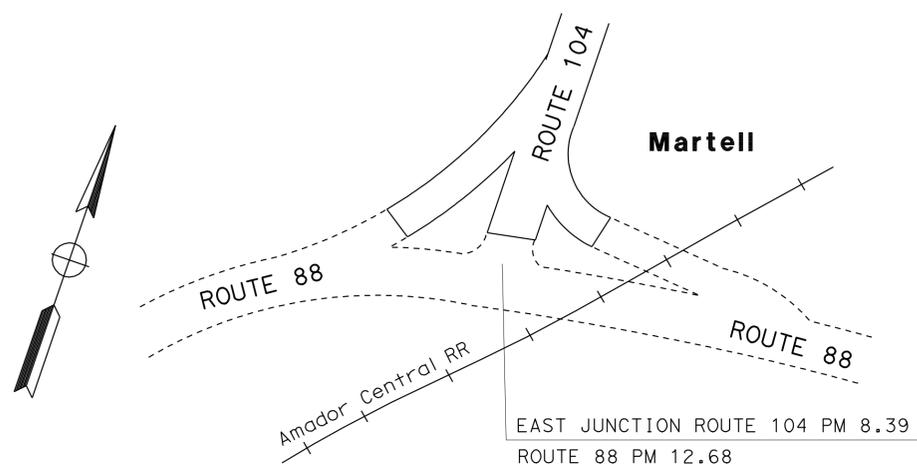
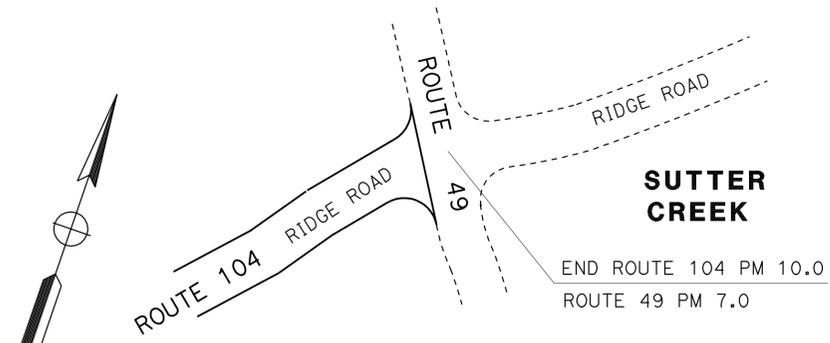
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: THOA HUYNH
 CHECKED BY: BRUCE SUMIDA
 REVISOR: BRUCE SUMIDA
 DATE REVISED: 10/18/10
 BS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	104	R4.3/10.0	4	18

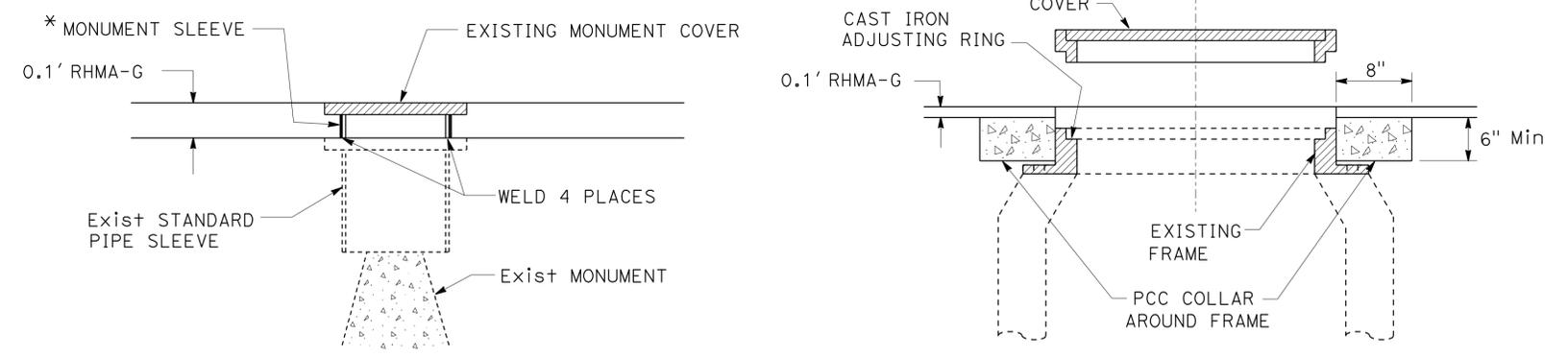
<i>Bruce G. Sumida</i> REGISTERED CIVIL ENGINEER	1/3/11 DATE
1/3/11 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER BRUCE G. SUMIDA No. 51870 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA
--

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



**ADJUST FRAME AND COVER TO GRADE
(WATER VALVE)**



NOTE: CAST IRON ADJUSTING RING THICKNESS VARIES FROM MINIMUM THICKNESS 0.75" TO MAXIMUM OF 2.5".

* - HEIGHT OF MONUMENT SLEEVE TO BE DETERMINED AFTER PLACING RHMA-G

PAVING LIMITS

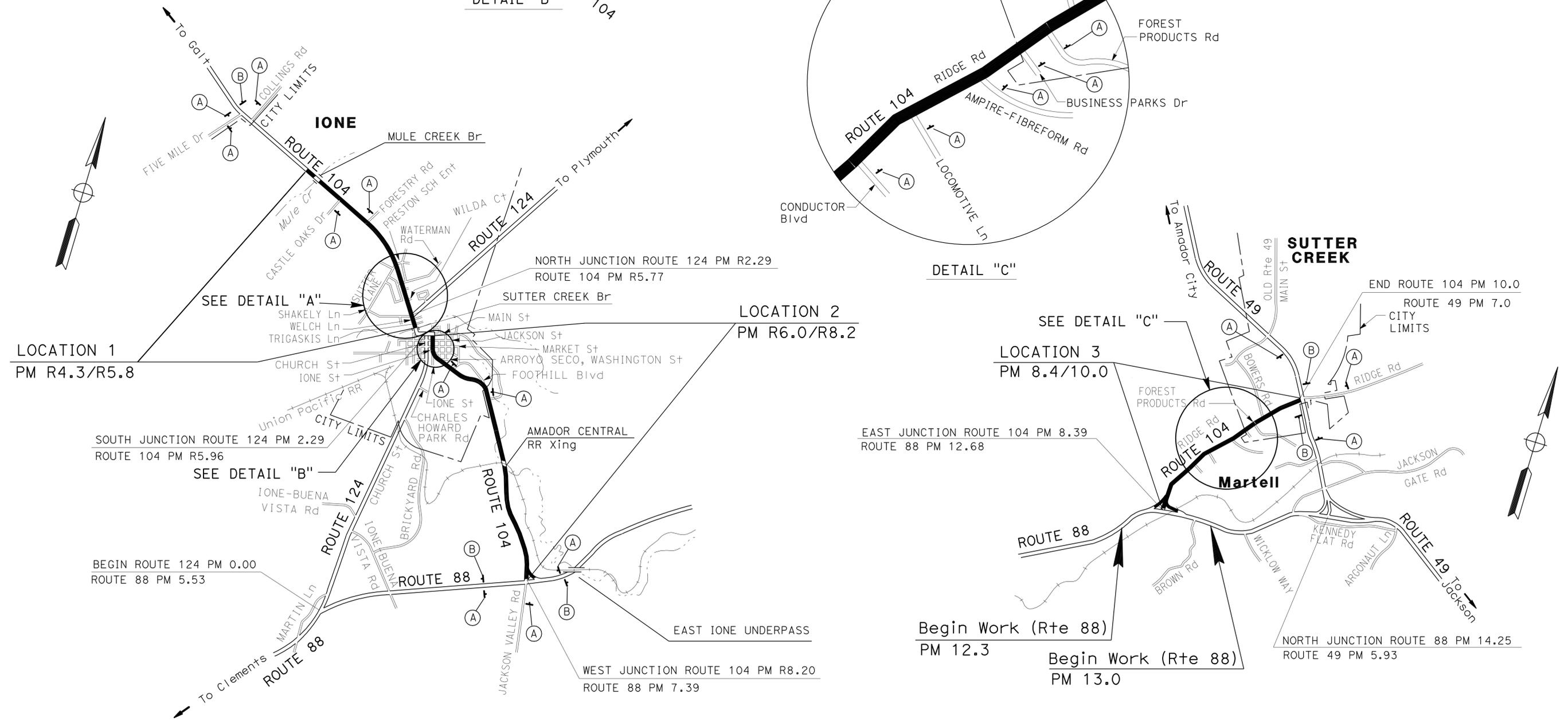
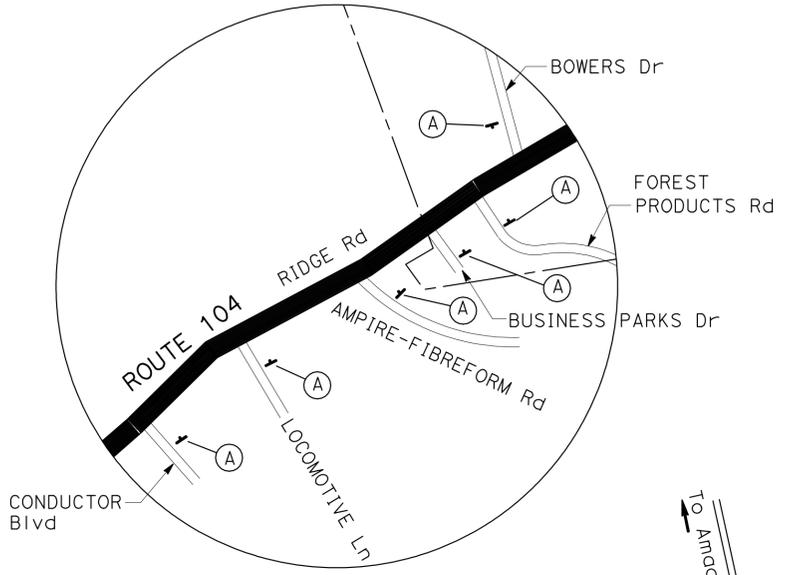
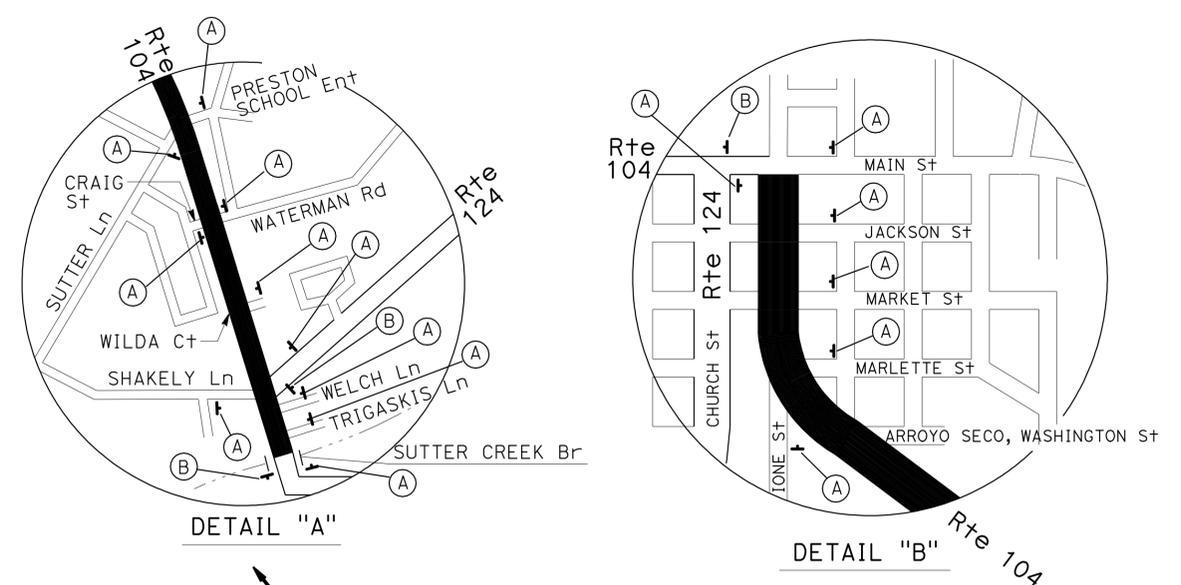
CONSTRUCTION DETAILS
NO SCALE **C-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	MAINTENANCE
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN
CALCULATED/DESIGNED BY	CHECKED BY
BRUCE SUMIDA	THOA HUYNH
REVISOR	DATE
BS	1/3/11

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
(A)	W20-1	36" x 36"	1 - 4" x 6"	35	ROAD WORK AHEAD
(B)	G20-2	36" x 18"	1 - 4" x 4"	8	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 MAINTENANCE
 FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]
 REVISOR: BRUCE SUMIDA
 DATE: 10/19/10
 REVISION: THOA HUYNH

NOTES:
 1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
 2. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.

ABBREVIATIONS

RHMA - RUBBERIZED HOT MIX ASPHALT

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Am	104	R4.3/10.0	6	18

1/3/11
 REGISTERED CIVIL ENGINEER DATE

1/3/11
 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.

BRUCE G. SUMIDA
 No. 51870
 Exp. 6/30/12
 CIVIL

TRAVEL LANES

LOCATION	PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
				SQYD	TON
2 (EB)	R6.00	42'	8'	37	6.2
	R6.10	65'	4'	29	4.8
	R6.20	161'	4'	72	11.9
	R6.30	487'	6'	325	54.1
	R6.35	80'	4'	36	5.9
	R6.39	71'	4'	32	5.3
	R6.40	340'	12'	472	78.6
	R6.48	70'	10'	80	13.3
	R6.49	310'	2'	73	12.1
	R6.50	132'	4'	59	9.8
	R6.52	106'	10'	118	19.6
	R6.538	47'	6'	31	5.2
	R6.539	367'	10'	408	67.9
	R6.542	81'	6'	54	9.0
	R6.543	296'	10'	329	54.8
	R6.545	159'	10'	177	29.4
	R7.00	22'	4'	10	1.6
	R7.05	103'	10'	114	19.1
	R7.10	737'	10'	819	136.3
	R7.25	46'	6'	31	5.1
	R7.28	117'	10'	130	21.6
	R7.31	216'	10'	240	40.0
	R7.36	139'	2'	31	5.1
	R7.40	415'	10'	461	76.8
	R7.63	42'	4'	19	3.1
	R7.638	236'	10'	262	43.7
	R7.741	77'	4'	34	5.7
	R7.843	437'	10'	486	80.8
SUBTOTAL 1				4966	826.8

TRAVEL LANES

LOCATION	PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
				SQYD	TON
2 (WB)	R8.00	88'	10'	98	16.3
	R7.96	49'	10'	54	9.1
	R7.97	98'	10'	109	18.1
	R7.90	116'	10'	129	21.5
	R7.89	32'	6'	21	3.6
	R7.70	81'	4'	36	6.0
	R7.65	52'	4'	23	3.8
	R7.63	31'	10'	34	5.7
	R7.60	140'	10'	156	25.9
	R7.55	45'	4'	20	3.3
	R7.53	205'	10'	228	37.9
	R7.40	28'	4'	12	2.1
	R7.39	32'	10'	36	5.9
	R7.38	81'	4'	36	6.0
	R7.37	138'	4'	61	10.2
	R7.35	62'	10'	69	11.5
	R7.30	110'	2'	24	4.1
	R7.27	44'	10'	49	8.1
	R7.25	89'	4'	40	6.6
	R7.22	122'	10'	136	22.6
	R7.21	350'	10'	26	4.3
	R7.20	80'	10'	70	11.7
	R7.17	246'	10'	273	45.5
	R7.10	112'	4'	50	8.3
	R6.95	52'	2'	12	1.9
	R6.93	18'	10'	20	3.3
	R6.92	54'	10'	60	10.0
	R6.88	609'	10'	677	112.7
	R6.80	67'	10'	74	12.4
	R6.79	64'	4'	28	4.7
	R6.77	80'	4'	36	5.9
	R6.70	500'	10'	556	92.5
R6.48	782'	10'	869	144.7	
R6.30	79'	4'	35	5.8	
R6.29	288'	10'	320	53.3	
R6.10	90'	2'	20	3.3	
SUBTOTAL 2				4496	748.5
SUBTOTAL 1				4966	826.8
TOTAL				9462*	1576*

**SUMMARY OF QUANTITIES
 Q-1**

REVISOR: BS
 DATE: 8/16/10

DESIGNED BY: BRUCE SUMIDA
 CHECKED BY: THOA HUYNH

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

PROJECT: UNIT 2593

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	104	R4.3/10.0	7	18

Bruce G. Sumida 1/3/11
 REGISTERED CIVIL ENGINEER DATE
 1/3/11
 PLANS APPROVAL DATE

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CONFORM TAPERS

	LOCATION	PM	SIDE	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	HMA (TYPE A)
						SQYD	TON
1	ROUTE 104 (Beg Const)	R4.3		30'	44'	147'	9.8
	MULE CREEK BRIDGE	R4.44		30'	28'	93	6.2
	MULE CREEK BRIDGE	R4.46		30'	28'	93	6.2
	CASTLE OAKS DRIVE	R4.7	R+	19'	40'	84	5.6
	FORESTRY ROAD	R5.0	L+	20'	38'	84	5.6
	PRESTON SCHOOL ENTRANCE	R5.4	L+	10'	28'	31	2.1
	SUTTER LANE	R5.4	R+	4'	75'	33	2.2
	WATERMAN ROAD	R5.5	L+	7'	48'	37	2.5
	CRAIG STREET	R5.5	R+	7'	27'	21	1.4
	JUNCTION 124	R5.77	L+	7'	76'	59	3.9
	SHAKELY LANE	R5.77	R+	10'	35'	39	2.6
	SUTTER CREEK BRIDGE	R5.86		30'	36'	120	8.0
2	IONE STREET	R6.01	R+	30'	40'	133	8.9
	JACKSON STREET	R6.05	L+	30'	30'	100	6.7
	JACKSON STREET	R6.05	R+	28'	30'	93	6.2
	MARKET STREET	R6.11	L+	19'	40'	84	5.6
	MARKET STREET	R6.11	R+	29'	40'	129	8.6
	MARLETTE STREET	R6.16	L+	18'	20'	40	2.7
	IONE STREET	R6.14	R+	7'	157'	122	8.1
	AROYO SECO, WASHINGTON	R6.21	L+	7'	66'	51	3.4
	FOOTHILL BOULEVARD	R6.33	L+	22'	55'	134	9.0
	FOOTHILL BOULEVARD	R6.55	L+	19'	53'	112	7.5
	AMADOR CENTRAL RR CROSSING	R7.27		30'	28'	93	6.2
	AMADOR CENTRAL RR CROSSING	R7.29		30'	28'	93	6.2
3	ROUTE 104 (AT Rte 88)	R8.20		30'	40'	133	8.9
	ROUTE 104 (AT Rte 88)	8.39		30'	40'	133	8.9
	LOCOMOTIVE Ln	8.83	R+	372'	5.5'	227	15.1
	AMPIRE-FIBERFORM Rd	9.34	R+	186'	5.5'	114	7.6
	BUSINESS PARK DRIVE	9.75	R+	20'	101'	224	14.9
	FOREST PRODUCTS Rd	9.83	R+	25'	63'	175	11.7
ROUTE 104 (End Const)	10.0		30'	70'	233	15.5	
TOTAL						3270*	218*

CONFORM TAPERS AT CURB & GUTTER

LOCATION	Dir	PM/PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvm+	RHMA (GAP GRADED)
					SQYD	TON
1	EB	R5.37/R5.8	2270'	5.5'	1387	92
	WB	R5.37/R5.8	2270'	5.5'	1387	92
2	EB	R6.0/R6.12	634'	5.5'	387	26
	WB	R6.0/R6.21	1109'	5.5'	678	45
3	WB	8.56/8.66	400'	5.5'	467	31
	WB	9.83/10.0	898'	5.5'	549	37
TOTAL					4855*	323*

SUMMARY OF QUANTITIES Q-2

LAST REVISION DATE PLOTTED => 25-JAN-2011
 00-00-00 TIME PLOTTED => 14:36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - MAINTENANCE
 Bruce Sumida
 Thoa Huynh
 Alvin Mangindin
 Functional Supervisor
 Calculated/Designed By
 Checked By
 Revised By
 Date Revised
 BS
 1/3/11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Ama	104	R4.3/10.0	8	18

1/3/11
 REGISTERED CIVIL ENGINEER DATE
BRUCE G. SUMIDA
 No. 51870
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA
 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.

ADJUST MANHOLE TO GRADE

LOCATION	PM	SIDE	DESCRIPTION	EA
1	R5.50	L+	STORM	1
	R5.52	L+	STORM	1
	R5.52	R+	SEWER	1
	R5.62	L+	STORM	1
	R5.62	R+	SEWER	1
	R5.64	R+	SEWER	1
	R5.7	L+	STORM	1
	R5.71	R+	SEWER	1
	R5.76	L+	STORM	1
	R5.766	R+	SEWER	1
	R5.786	R+	SEWER	1
	R5.8	L+	STORM	1
	R5.8	R+	SEWER	1
	R5.82	L+ & R+	SEWER	2
2	R6.05	L+	SEWER	1
	R6.1	L+	STORM	1
TOTAL				17

ROADWAY ITEMS

LOCATION (ROUTE 104)	RHMA (GAP GRADED)	HMA (TYPE A)	TACK COAT	IMPORTED MATERIAL (SHOULDER BACKING)	COLD PLANE AC PAVEMENT
	TON				SQYD
PM R4.3/10.0 TRAVEL LANES	8795	1576	59.0	1078	9462
CONFORM TAPERS		218	1.4		3270
CURB & GUTTER	323		2.1		4855
DRIVEWAYS		10			
TOTAL	9118	1804	62.5	1078	17,587

ADJUST WATER VALVE COVER TO GRADE

LOCATION	PM	SIDE	DESCRIPTION	EA
1	R5.63	R+	GAS	1
	R5.76	L+	WATER	2
2	R6.04	R+	WATER	1
	R6.06	R+	WATER	2
	R6.09	R+	WATER	1
	R6.10	R+	WATER	1
	R6.11	R+	WATER	2
	R6.15	R+	WATER	1
3	R9.8	L+	WATER	2
	R9.81	L+	WATER	3
TOTAL				16

TRAFFIC MANAGEMENT SYSTEM ELEMENTS (EXISTING)

LOCATION	PM	Dir	LOCATION	TYPE	DESCRIPTION
(ROUTE 104)	R8.201	EB,WB	WEST OF JUNCTION ROUTE 88	TMS	TRAFFIC MONITORING STATION
	8.386	EB,WB	EAST OF JUNCTION ROUTE 88	TMS	

TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

ADJUST FRAME AND COVER TO GRADE (SURVEY MONUMENT)

LOCATION	PM	SIDE	EA
1	R5.5	L+	1
2	R6.0	L+	1
TOTAL			2

PAVEMENT DELINEATION ITEMS

LOCATION	REMOVE THERMOPLASTIC TRAFFIC STRIPE *	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)									REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)	THERMOPLASTIC PAVEMENT MARKING															REMOVE PAVEMENT MARKER (N)	PAVEMENT MARKER (RETROREFLECTIVE)									
		4" YELLOW			4" WHITE			8" WHITE					STOP	AHEAD	RAILROAD CROSSING SYMBOL	TRANSVERSE LINE	TYPE III (L) ARROW	TYPE III (R) ARROW	TYPE V ARROW	LIMIT LINE	KEEP	CLEAR	PED	XING	SIGNAL	CROSSWALK	SLOW (YELLOW)		SCHOOL (YELLOW)	XING (YELLOW)	CROSSWALK (YELLOW)	TYPE D	TYPE G		TYPE H			
		Det 6	Det 19	Det 22	Det 29	Det 27B	Det 27C	Det 37B	Det 38	Det 38A			SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT	SQFT		SQFT	SQFT	SQFT	EA	EA	EA	EA			
Rte 104	6952	2323	528	23,836	1297	52,483	1559	203	3250	184	2595	756	352	155	140	48	420	210	66	516	48	48	18	21	64	489	110	175	105	366	2335	49	12	1988	110	16	136	23
TOTAL	6952	86,104									2595	756	3351															2335	2335									

* - 8" WHITE

SUMMARY OF QUANTITIES Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: ALT BAKHDOUD
 CALCULATED/DESIGNED BY: JASPAL SINGH
 CHECKED BY: FRED IYASERE
 REVISIONS:
 1/4/11 JS

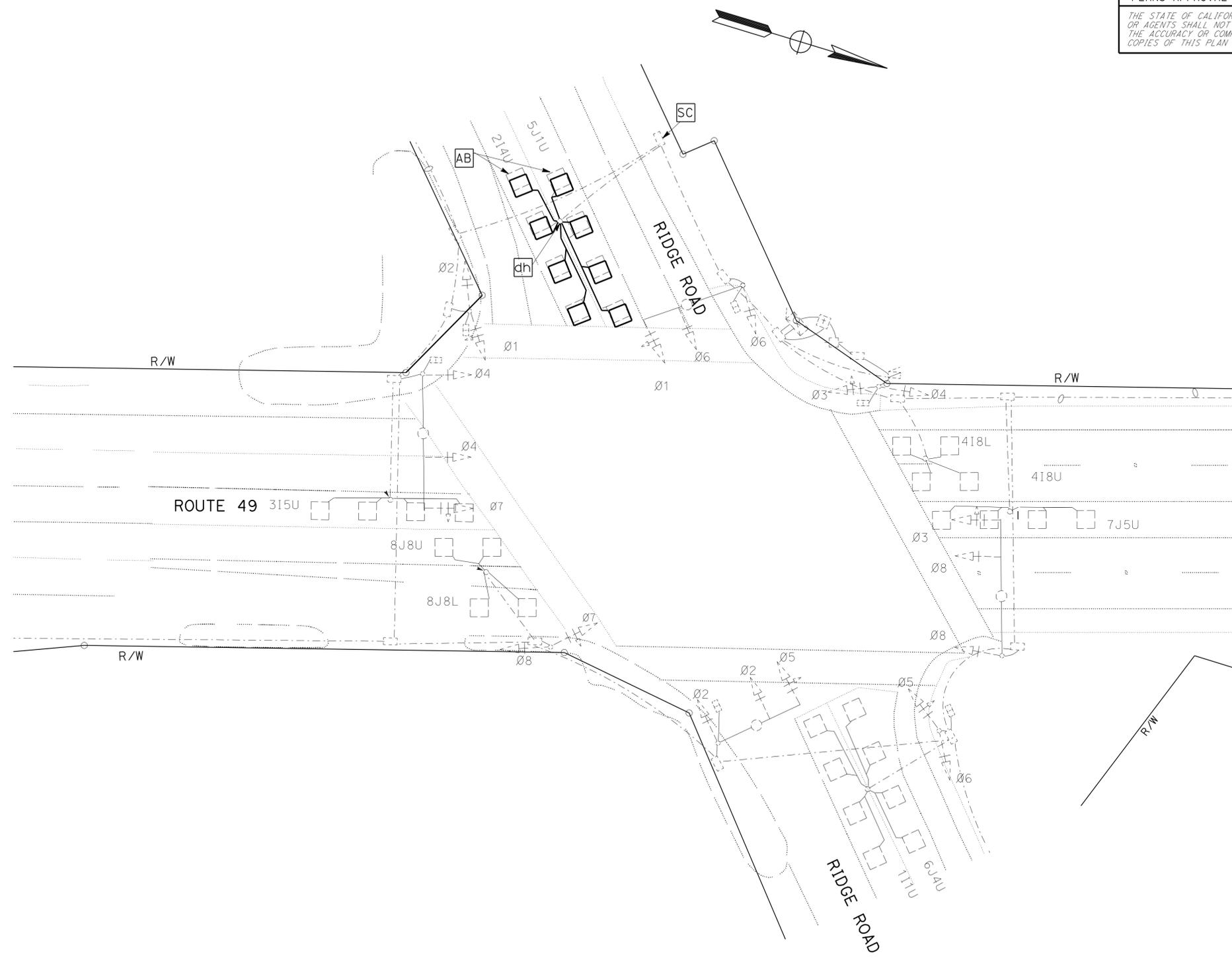
NOTES:

- 1 [AB] Exist LOOP DETECTORS AND INSTALL LOOP DETECTORS AS SHOWN.
- 2 DETAILS OF Exist TRAFFIC SIGNAL NOT SHOWN.
- 3 FOR ACCURATE RIGHT OF WAY DATA CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Amg	104	R4.3/10.0	9	18

REGISTERED ELECTRICAL ENGINEER: Jaspal Singh
 No. 16657
 Exp. 6/30/12
 DATE: 1/3/11
 PLANS APPROVAL DATE: 1/3/11

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THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MODIFY SIGNAL
 NO SCALE
E-1

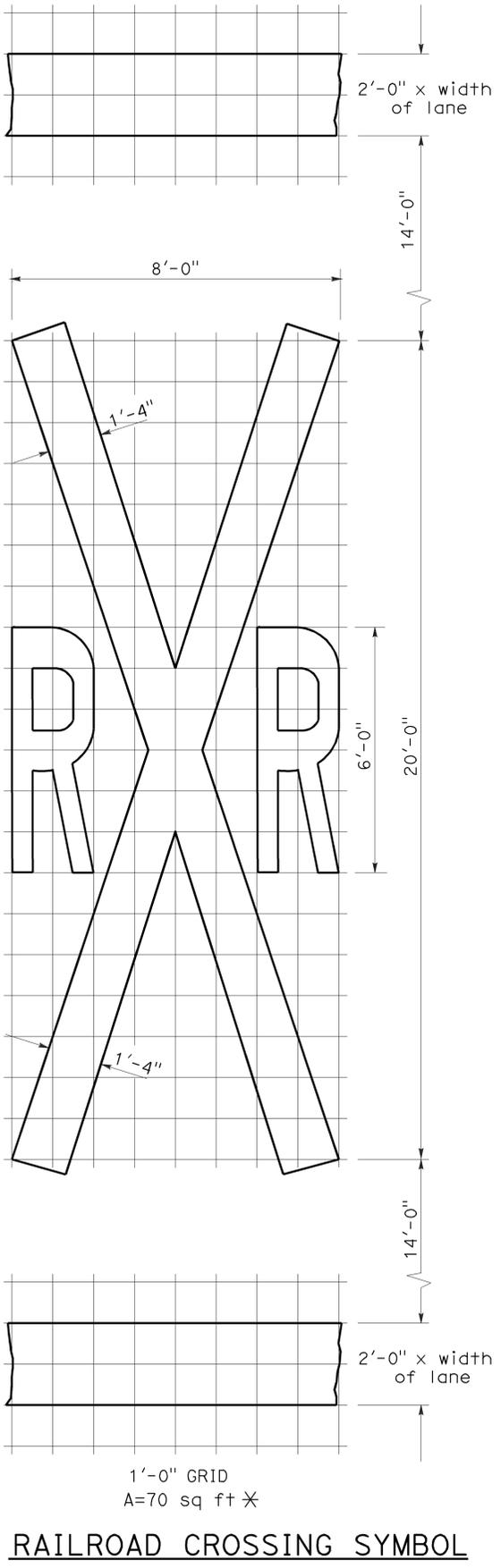
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 12-01-10 TIME PLOTTED => 14:36

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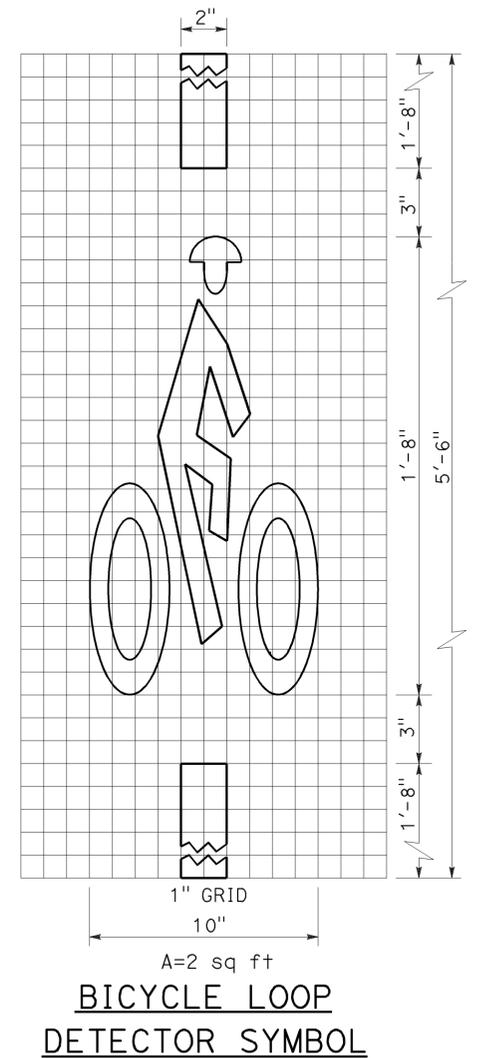
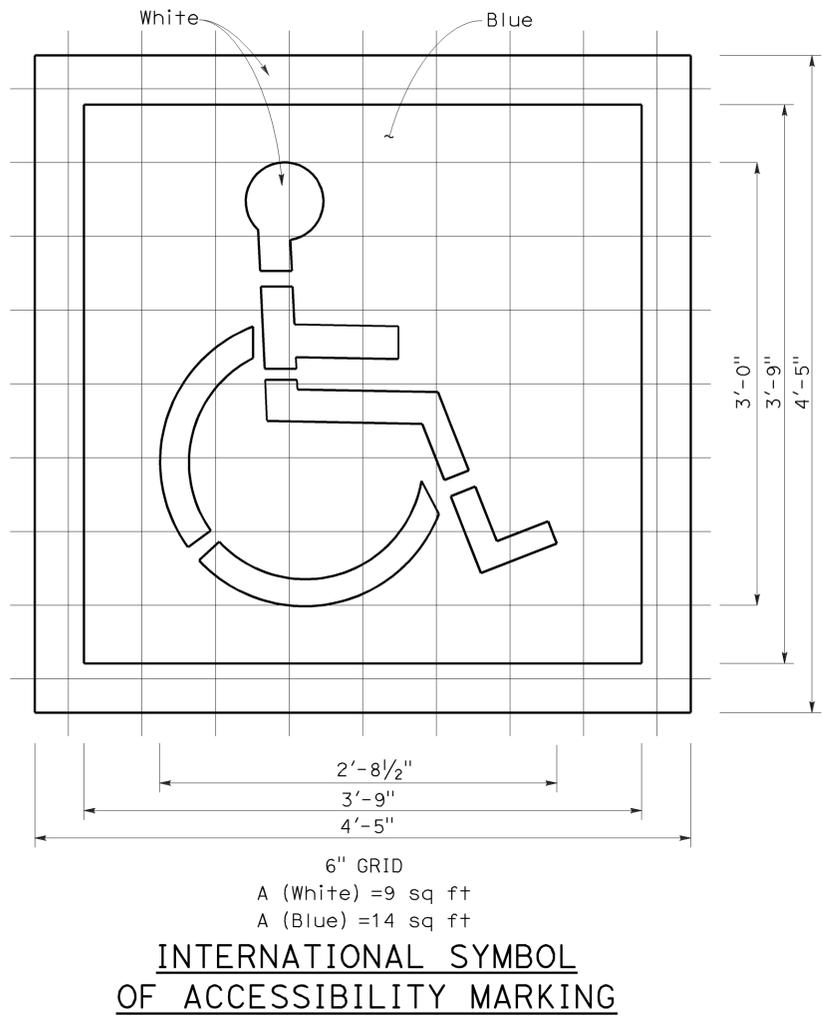
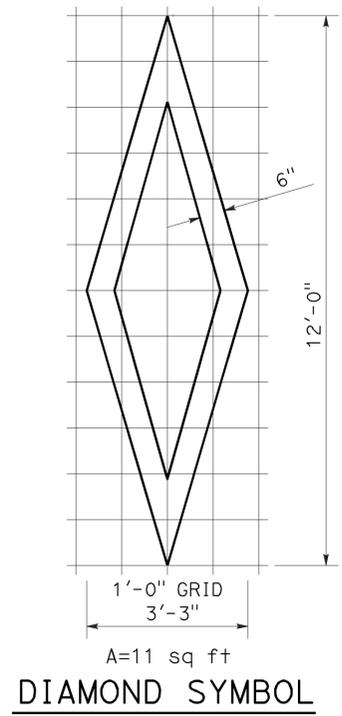
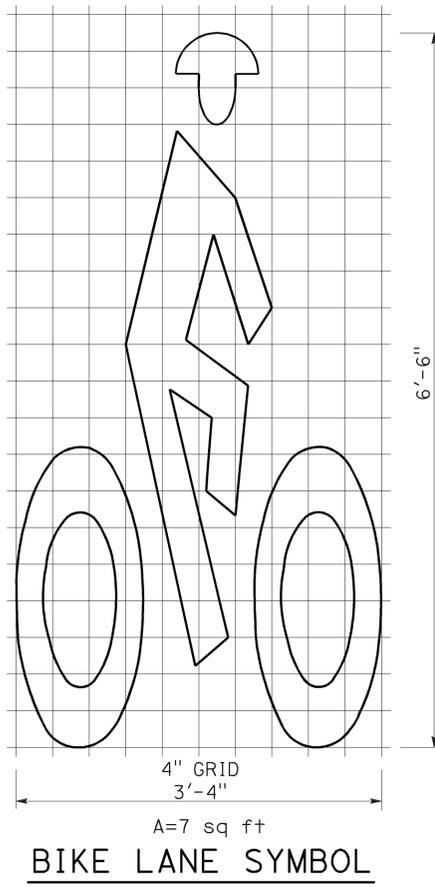
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED PROFESSIONAL ENGINEER
 Donald E. Howe
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

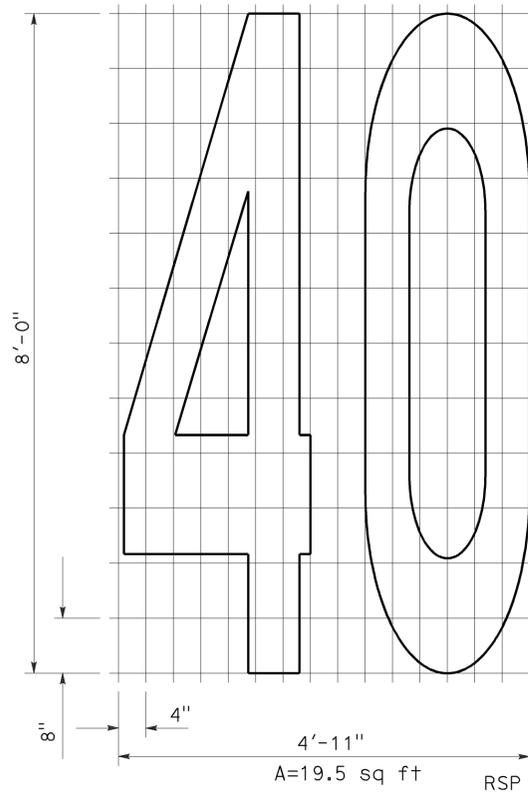
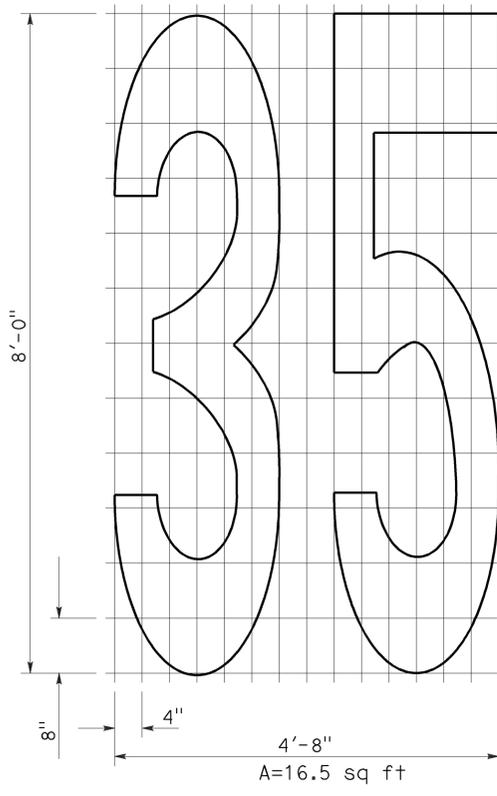
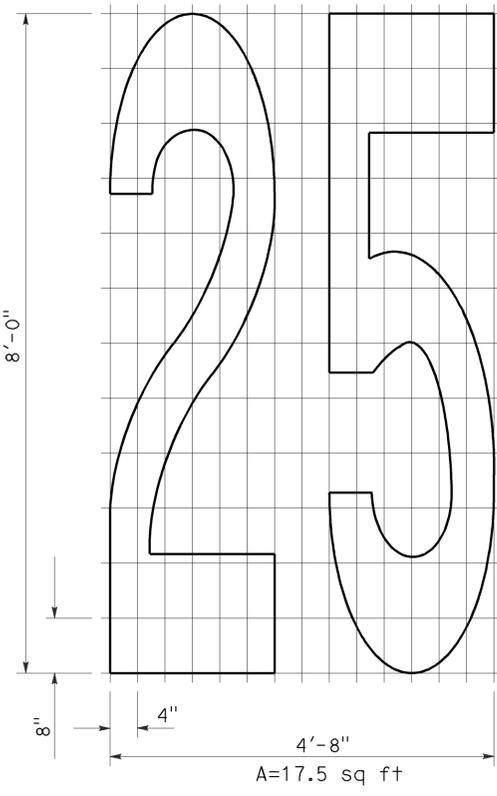
To accompany plans dated 1/3/11



*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



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



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS
NO SCALE

2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Am	104	R4.3/10.0	11	18

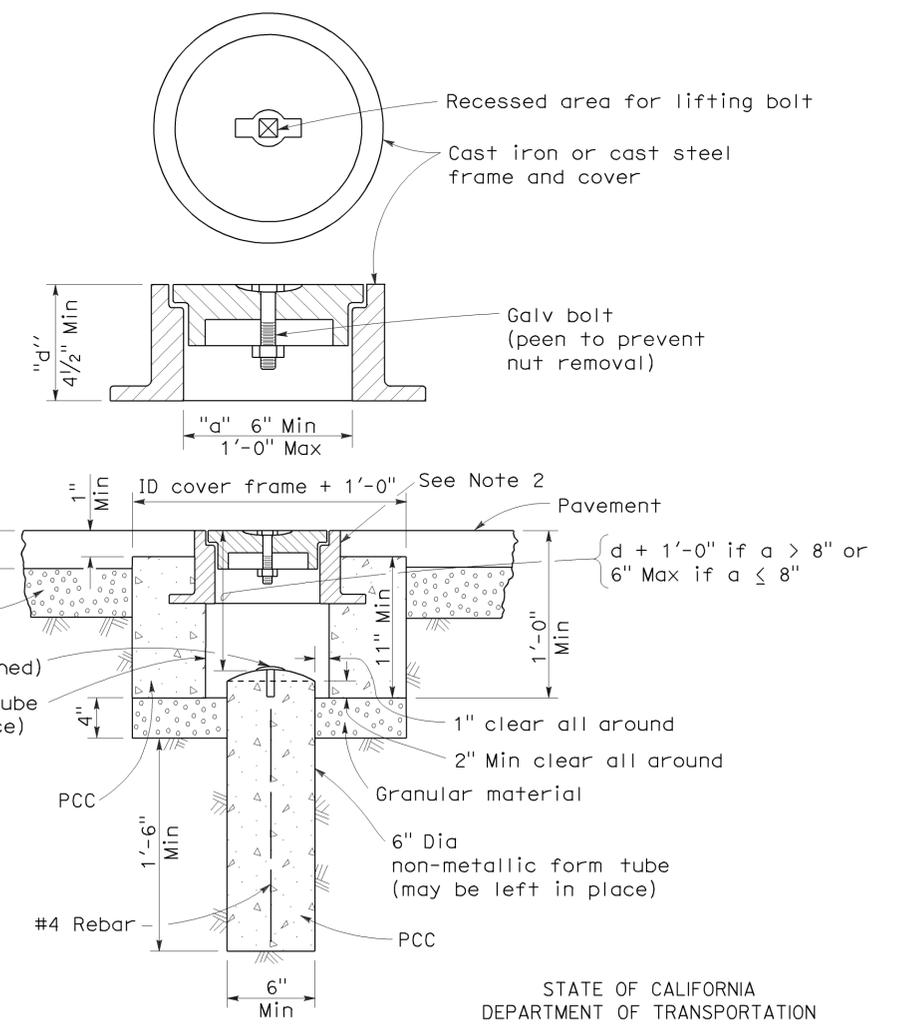
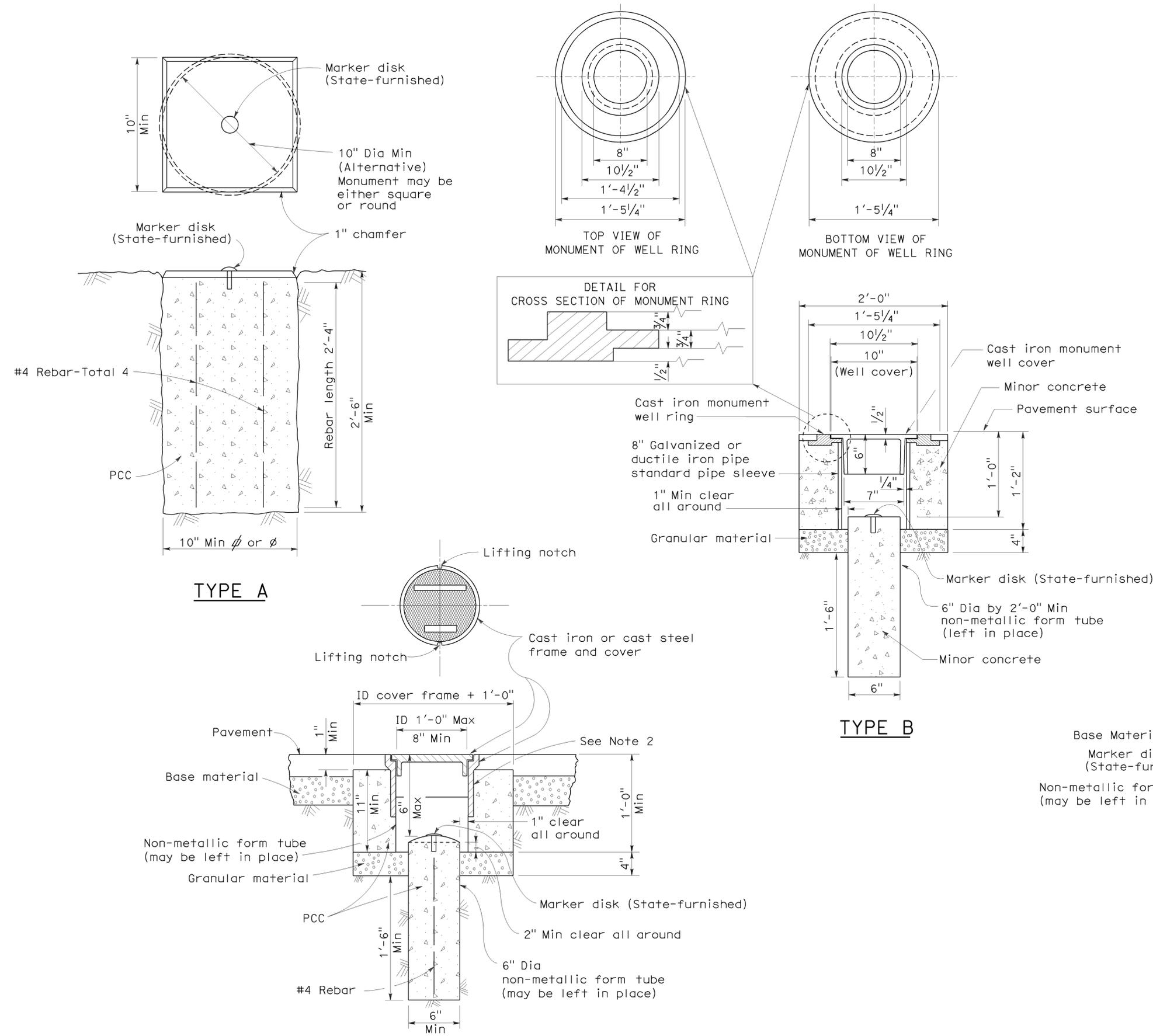
Mark S. Turner
 PROFESSIONAL LAND SURVEYOR
 June 30, 2006
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LAND SURVEYOR
 Mark S. Turner
 No. 6228
 Exp. 3-31-08
 STATE OF CALIFORNIA

To accompany plans dated 1/3/11

NOTES:

1. The configuration of the cast iron or cast steel frame and cover may vary from that shown.
2. Frame shall be embedded in the concrete a minimum of 3".
3. Type D monument shall be either Alternative No. 1 or Alternative No. 2 at the contractor's option.
4. All portland cement concrete shall be Class 2 or minor concrete with 1" maximum aggregate.



TYPE D SURVEY MONUMENTS
 Alternative No. 2
 NO SCALE

RSP A74 DATED JUNE 30, 2006 SUPERSEDES STANDARD PLAN DATED MAY 1, 2006 - PAGE 28 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A74

2006 REVISED STANDARD PLAN RSP A74

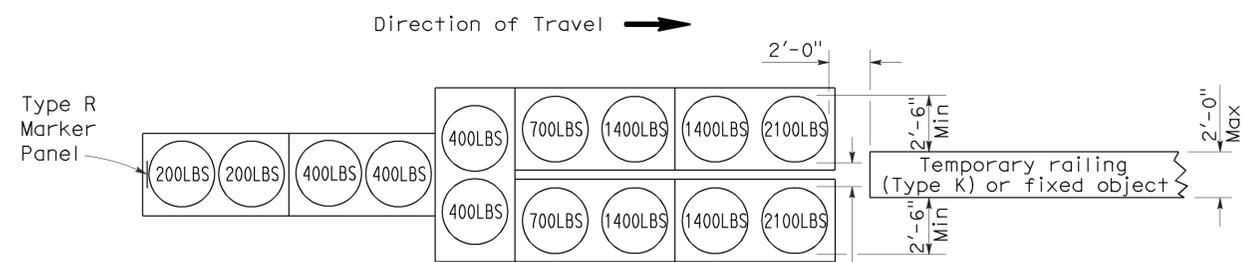
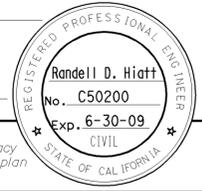
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amc	104	R4.3/10.0	12	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

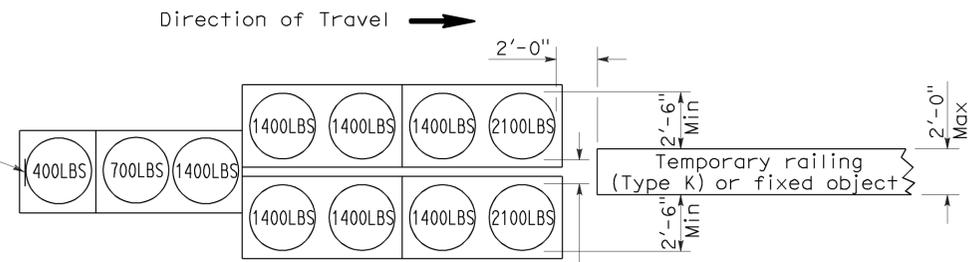
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 1/3/11



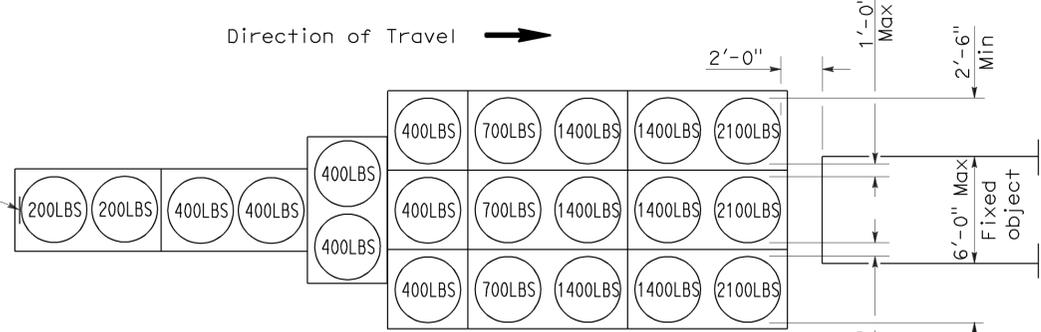
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Approach speed 45 mph or more



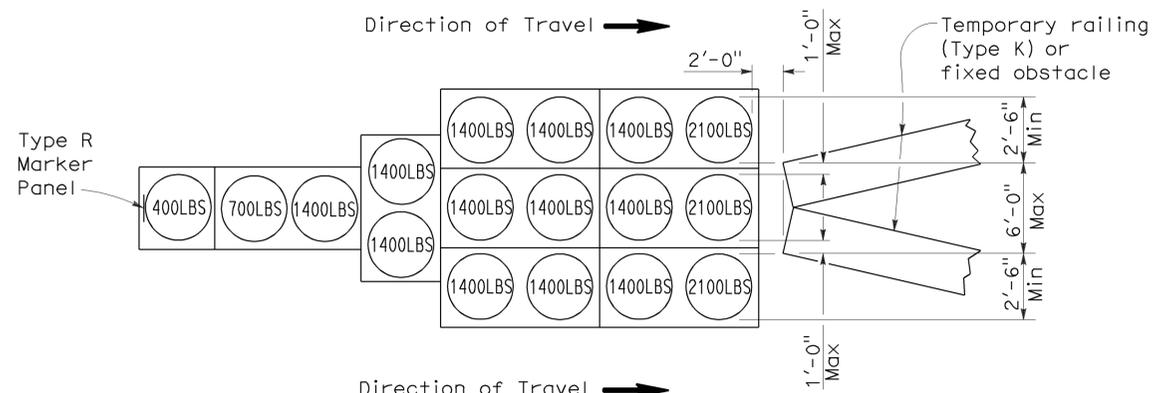
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

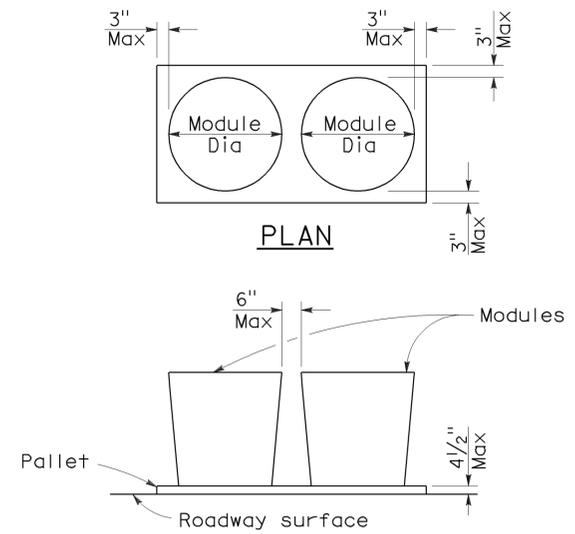


ARRAY 'TU17'

Approach speed less than 45 mph

NOTES:

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



CRASH CUSHION PALLET DETAIL
See Note 7

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amo	104	R4.3/10.0	13	18

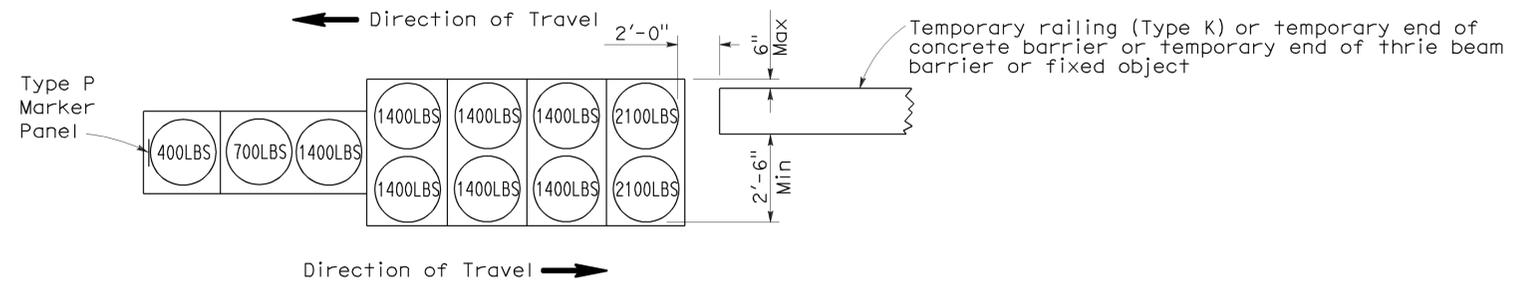
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

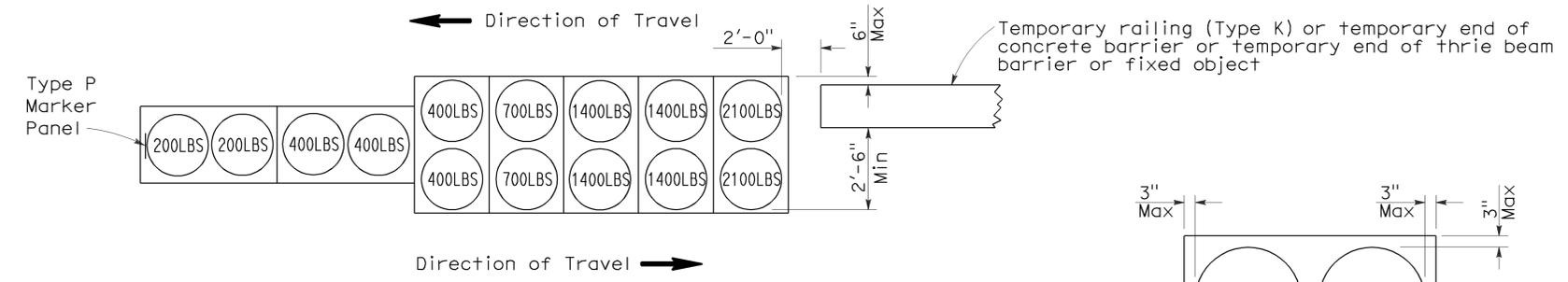
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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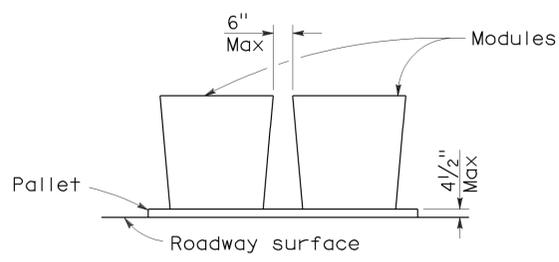
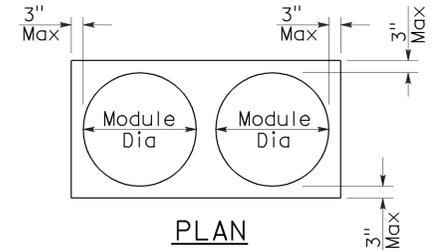
To accompany plans dated 1/3/11



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

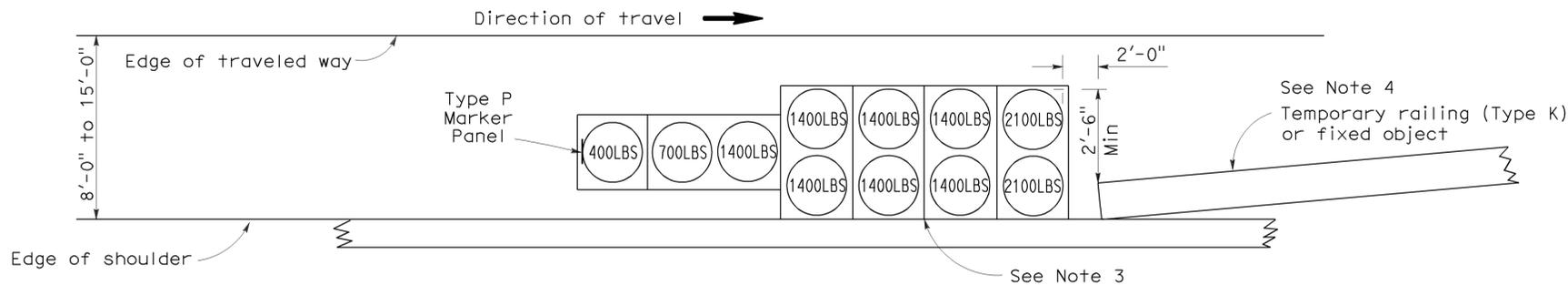
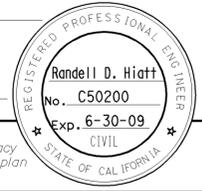
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amo	104	R4.3/10.0	14	18

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

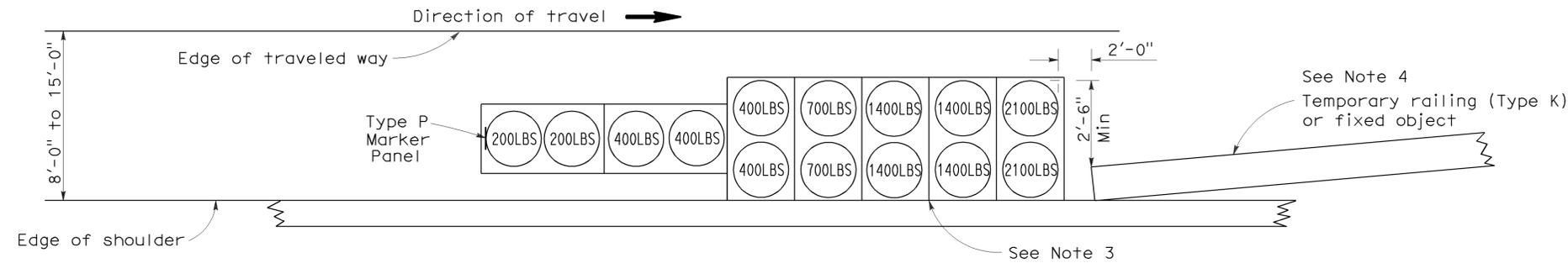
June 6, 2008
PLANS APPROVAL DATE

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

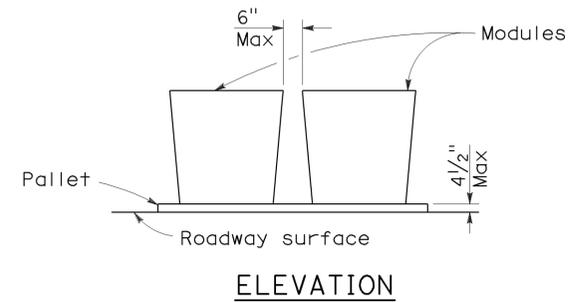
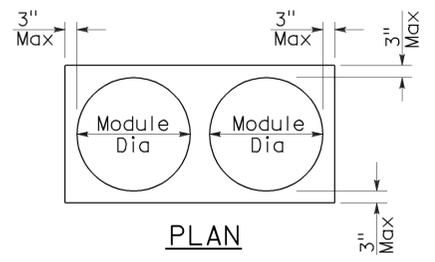
To accompany plans dated 1/3/11



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



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



CRASH CUSHION PALLET DETAIL
See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY CRASH CUSHION,
SAND FILLED
(SHOULDER INSTALLATIONS)**
NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

ELECTROLIERS

STANDARD TYPES	Symbol	Description
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
31		NOTES: 1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified. 2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified. 3. Variations noted adjacent to symbol on project plans.
32		
35		
36-20A		

- Electrolier (see project notes or project plans)
- Luminaire on wood pole

STANDARD NOTES:

- 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 wire or rope.
- 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.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

BBS	bbs	Battery backup system
BC	bc	Bolt circle
C	C	Conduit
CCTV	cctv	Closed circuit television
CKT	ckt	Circuit
CMS	cms	Changeable message sign
DLC	dlc	Loop detector lead-in cable
EMS	ems	Extinguishable message sign
EVC	evc	Emergency vehicle cable
EVD	evd	Emergency vehicle detector
FB	fb	Flashing beacon
FBCA	fbca	Flashing beacon control assembly
FBS	fbs	Flashing beacon with slip base
FO	fo	Fiber optic
G	G	Ground (Equipment Grounding Conductor)
GFCI	GFCI	Ground fault circuit interrupt
HAR	har	Highway advisory radio
HEX	hex	Hexagonal
HPS	hps	High pressure sodium
IISNS	iisns	Internally illuminated street name sign
ISL	isl	Induction sign lighting
LED	led	Light emitting diode
LMA	lma	Luminaire mast arm
LPS	lps	Low pressure sodium
LTG	ltg	Lighting
LUM	lum	Luminaire
MAT	mat	Mast arm mounting vehicle signal faces, top attachment
MAS	mas	Mast arm mounting vehicle signal faces, side attachment
MAS-4A	mas-4A	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4B	mas-4B	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-4C	mas-4C	Mast arm mounting vehicle signal faces, side attachment - 4 signal section
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amo	104	R4.3/10.0	15	18

REGISTERED ELECTRICAL ENGINEER
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

October 5, 2007
 PLANS APPROVAL DATE

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

To accompany plans dated 1/3/11

SOFFIT AND WALL MOUNTED LUMINAIRES

- Pendant, 70 W HPS unless otherwise specified.
- Flush, 70 W HPS unless otherwise specified.
- Wall surface, 70 W HPS unless otherwise specified.
- Existing soffit or wall luminaire to remain unmodified.
- Existing soffit or wall luminaire to be modified as specified.

NOTE:

Arrow indicates "street side" of luminaire.

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

NO SCALE

RSP ES-1A DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN ES-1A
 DATED MAY 1, 2006 - PAGE 400 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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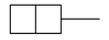
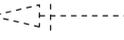
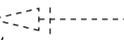
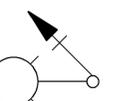
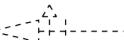
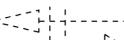
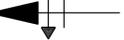
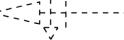
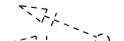
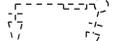
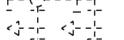
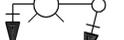
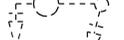
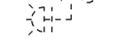
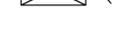
Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

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CONDUIT

PROPOSED	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 in/on structure or service pole

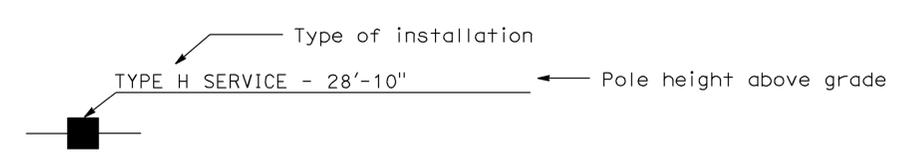
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections louvered "LG" Indicates louvered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign
		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon, Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SERVICE EQUIPMENT

PROPOSED	EXISTING	
---OH	---oh	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

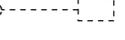
POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

PROPOSED	EXISTING	
		Overhead sign - Single post
		Overhead sign - Two post
		Overhead sign - Mounted on structure
		Overhead sign with electrolier

SIGNAL EQUIPMENT Cont

PROPOSED	EXISTING	
		Guard post
		Type 1 Standard with "Meter On" sign
		Emergency Vehicle detector

NOTES:

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SYMBOLS AND ABBREVIATIONS)**
 NO SCALE

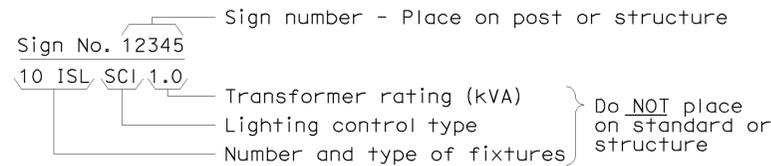
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

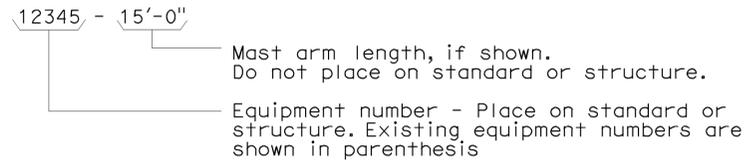
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

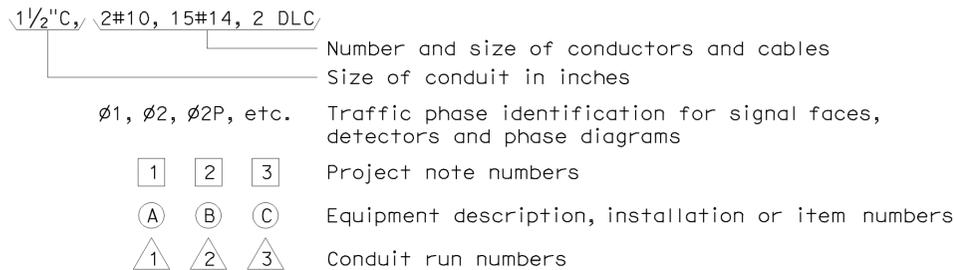
ILLUMINATED SIGN IDENTIFICATION NUMBER:



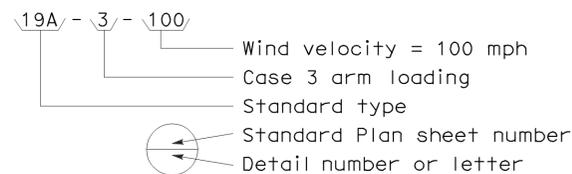
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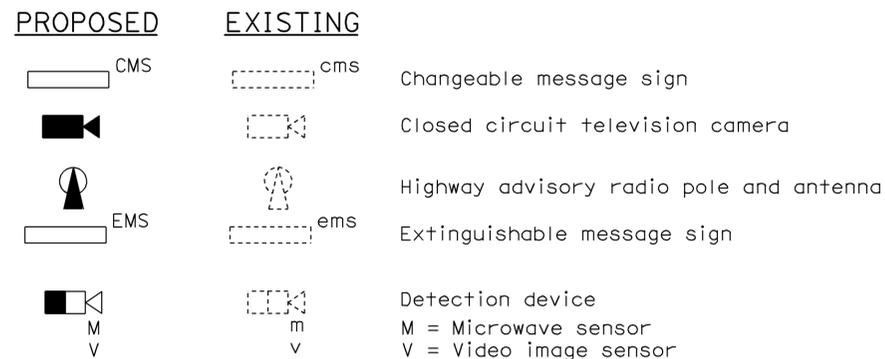
CONDUIT AND CONDUCTOR IDENTIFICATION:



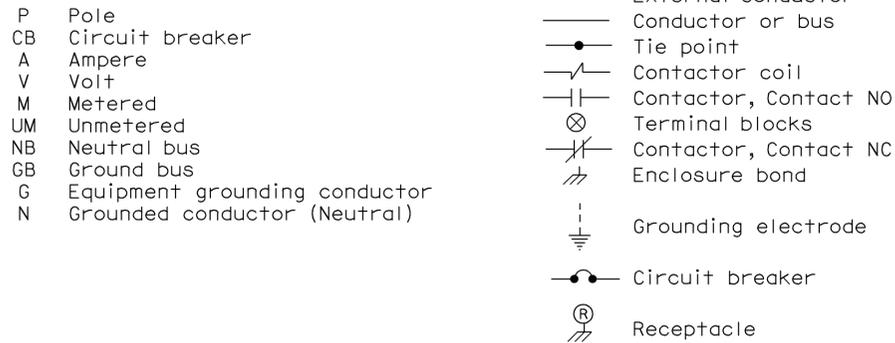
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



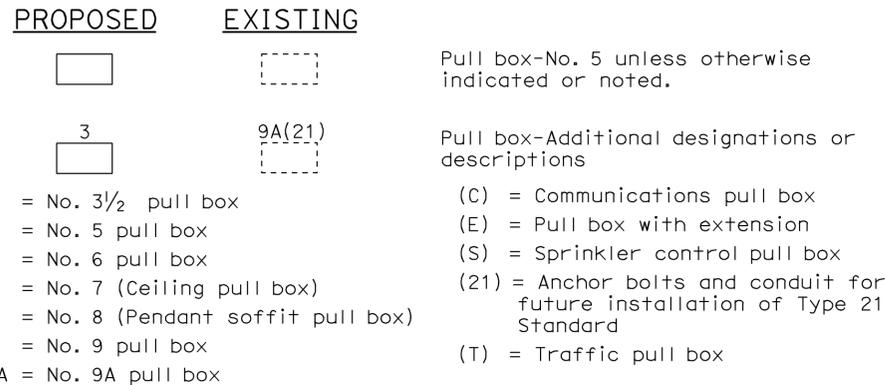
MISCELLANEOUS EQUIPMENT



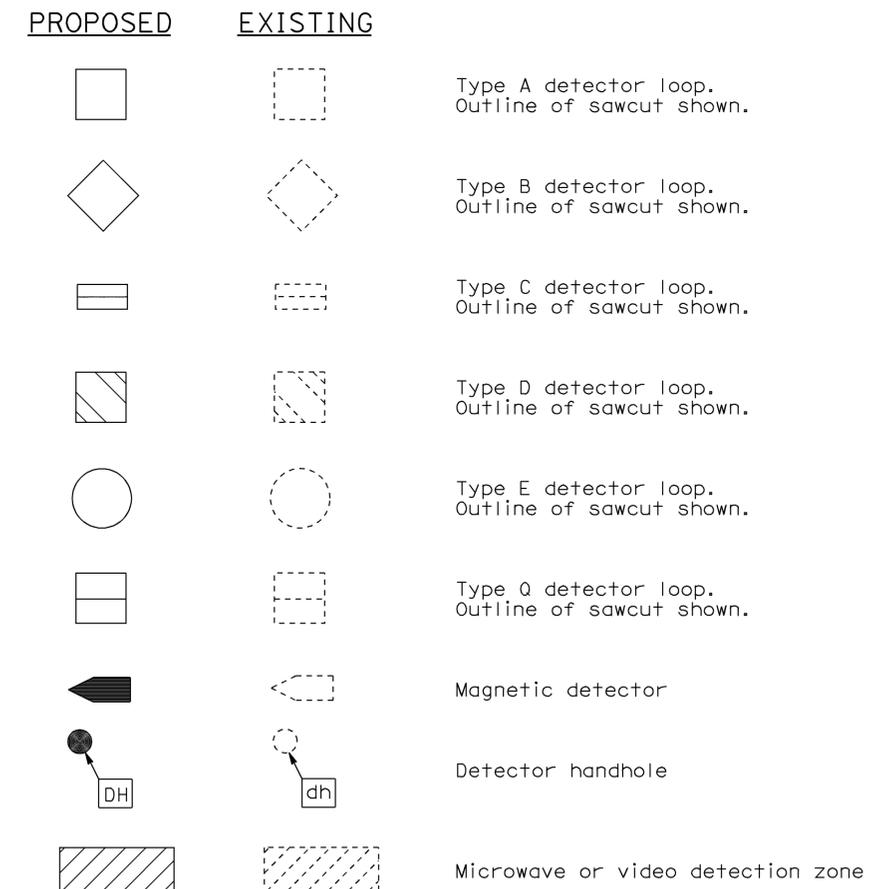
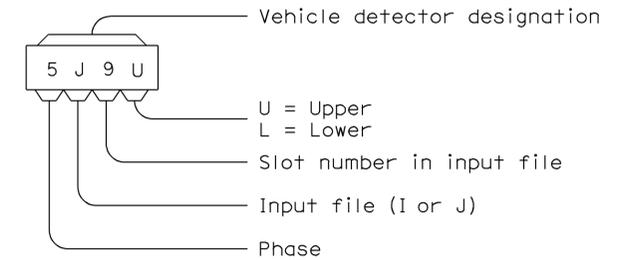
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1C
DATED MAY 1, 2006 - PAGE 402 OF THE STANDARD PLANS BOOK DATED MAY 2006.

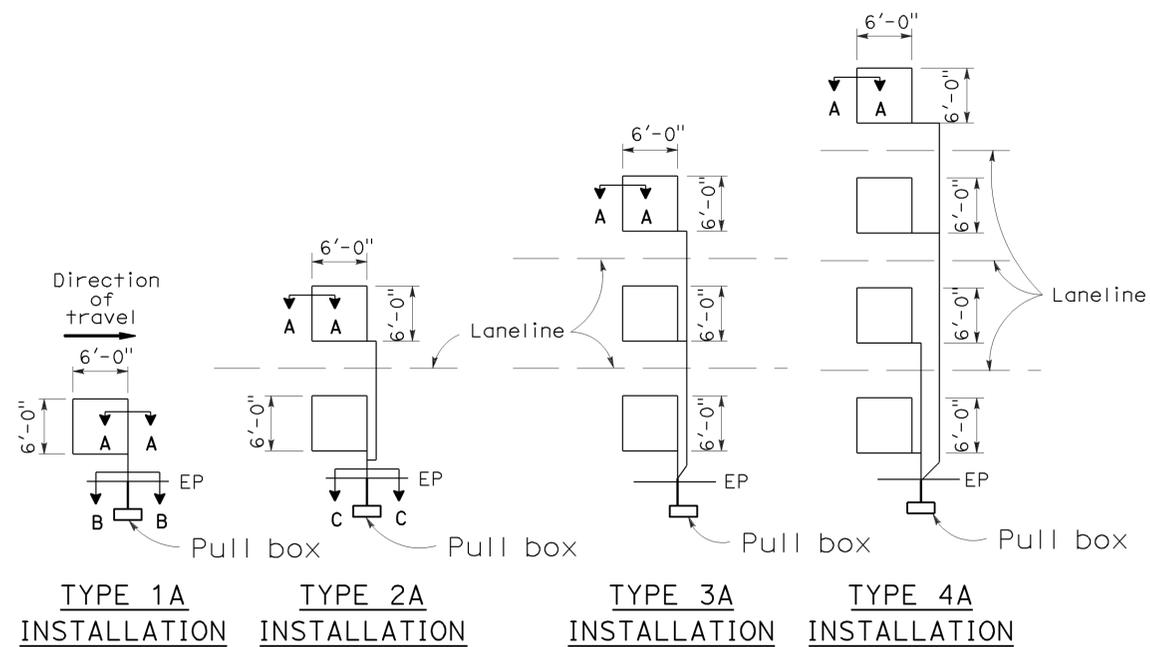
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Amo	104	R4.3/10.0	18	18

Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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To accompany plans dated 1/3/11

LOOP INSTALLATION PROCEDURE

- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no sharp edges.
- Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
- Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
- Identify and tag loop circuit pairs in the pull box with loop number, start (S) and finish (F) of conductor. Identify and tag lead-in-cable with sensor number and phase.
- Install loop conductor in slot using a 3/16" to 1/4" thick wood paddle. Hold loop conductors with wood paddles (at the bottom of the sawed slot) during sealant placement.
- No more than 2 twisted pairs shall be installed in one sawed slot.
- Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
- The additional length of each conductor for each loop shall be twisted together into a pair (6 turns per 3'-4" minimum) before being placed in the slot and conduit leading to pull box.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
- Fill slots as shown in details.
- Splice loop conductors to lead-in-cable. Splices shall be soldered.
- End of lead-in-cable and Type 2 loop conductor shall be waterproofed prior to installing in conduit to prevent moisture from entering the cable.
- Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
- Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
- Where loop conductors are not to be spliced to a lead-in-cable, the ends of the conductors shall be taped and waterproofed with electrical insulating coating.

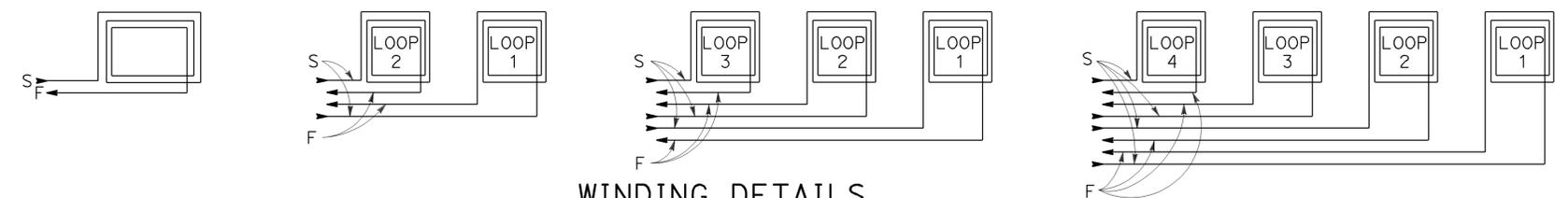


TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION

SAWCUT DETAILS

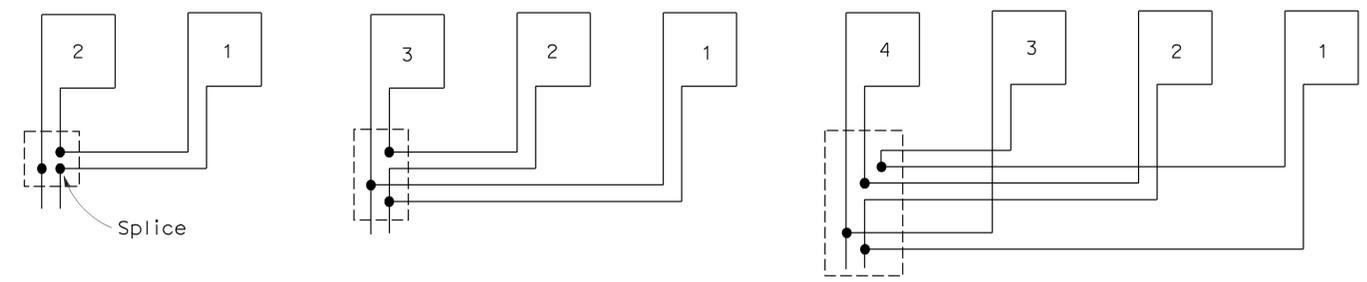
(Type A loop detector configurations illustrated)

- 1A thru 4A = 1 Type A loop configuration in each lane.
 - 1B thru 4B = 1 Type B loop configuration in each lane.
 - 1C = 1 Type C loop configuration entering lanes as required.
 - 1D thru 4D = 1 Type D loop configuration in each lane.
 - 1E thru 4E = 1 Type E loop configuration in each lane.
 - 1Q thru 4Q = 1 Type Q loop configuration in each lane.
- (Use Type A, B, C, D, E or Q loop detector configurations only when specified or shown on plans)



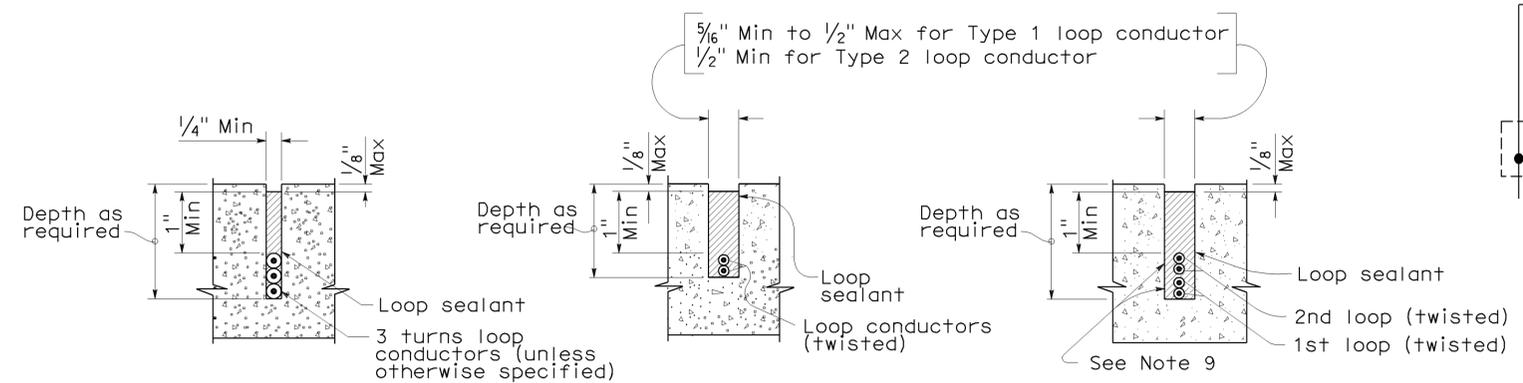
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



SECTION A-A SECTION B-B SECTION C-C
 SLOT DETAILS - TYPE 1 AND TYPE 2 LOOP CONDUCTOR

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

RSP ES-5A DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-5A DATED MAY 1, 2006 - PAGE 423 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-5A