

INDEX OF PLANS

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

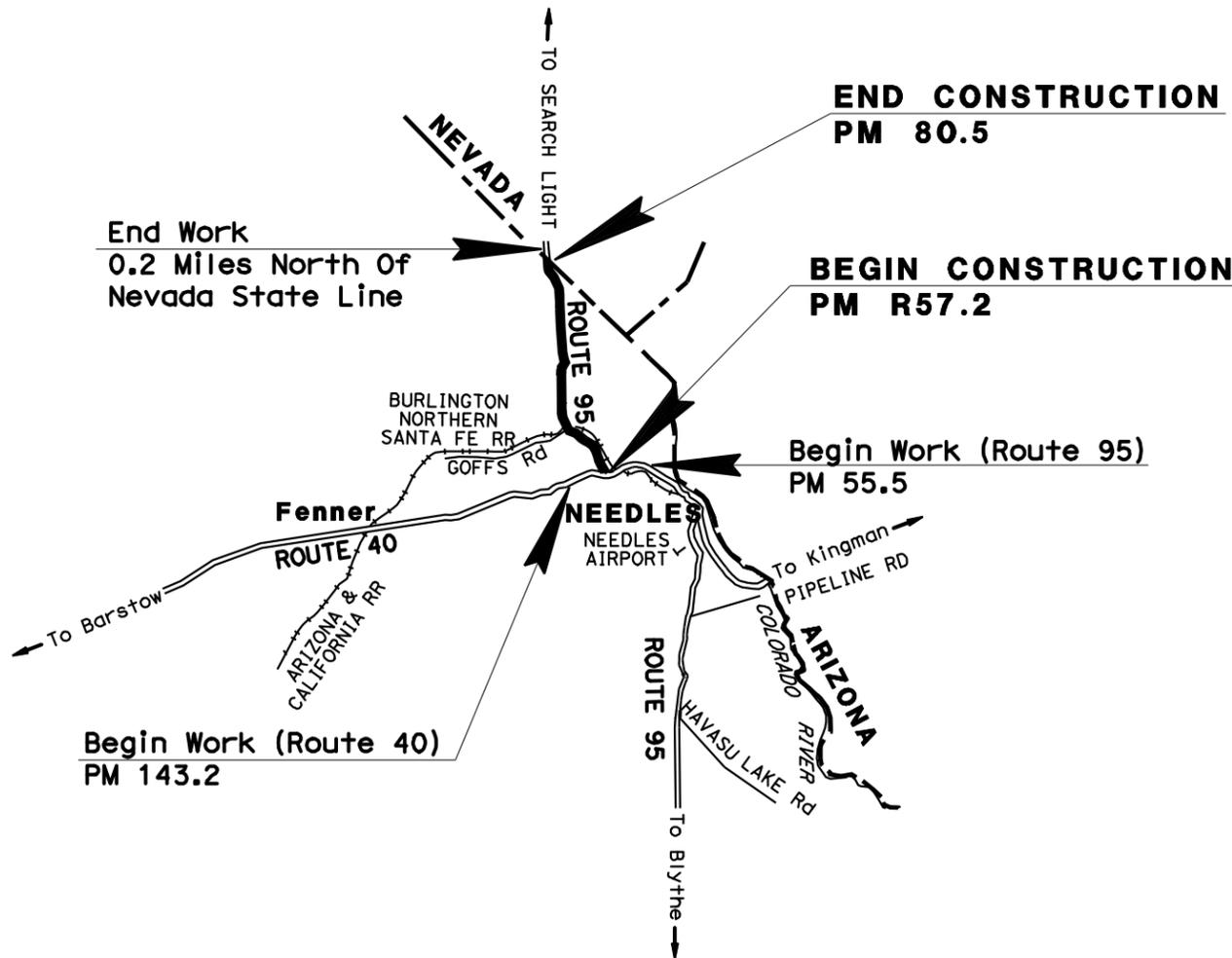
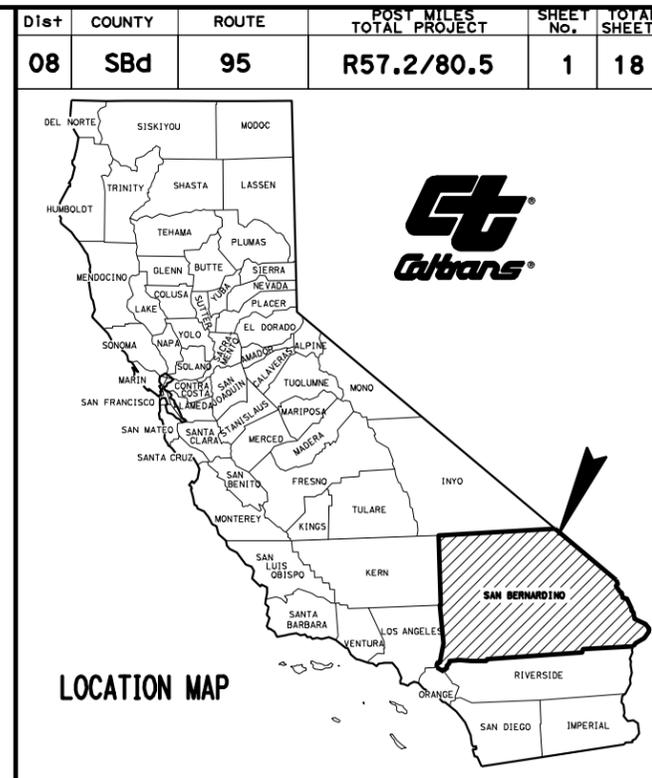
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNH-P095(022)E

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN SAN BERNARDINO COUNTY NEAR NEEDLES
FROM ROUTE 40 WEST JUNCTION
TO NEVADA STATE LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
CATALINO PINING

DESIGN ENGINEER
RHEA VILLARAMA

Michael P. Ristic 02-22-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER



February 22, 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.	08-0P6404
PROJECT ID	0800001037

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

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.5	2	18
			02-22-11	DATE	
			02-22-11	PLANS APPROVAL DATE	
REGISTERED CIVIL ENGINEER MICHAEL P. RISTIC No. 69429 Exp. 06-30-11 CIVIL STATE OF CALIFORNIA					
<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>					

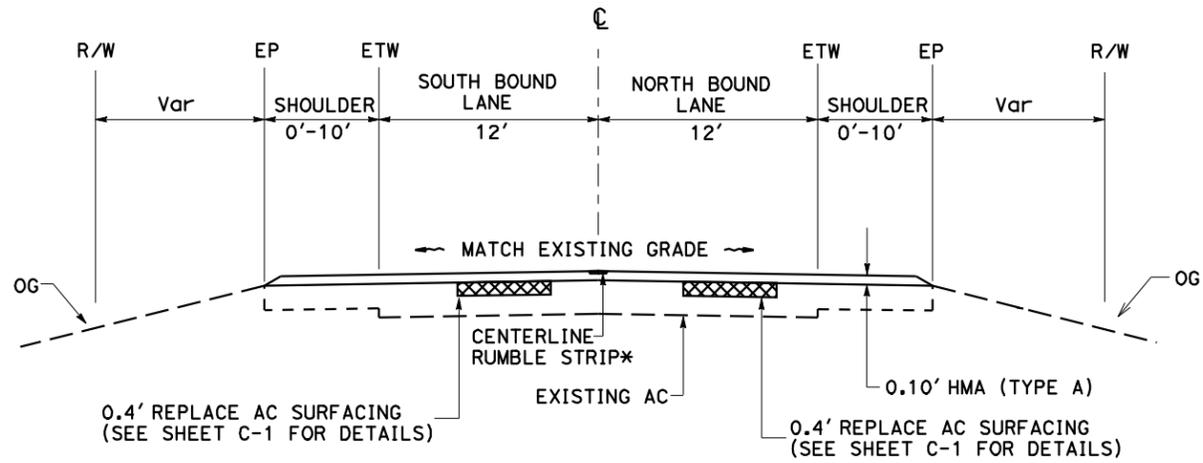
NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. NO WORK SHALL BE ALLOWED ON BRIDGES AND WITHIN TWENTY FIVE FEET OF RAILROAD CROSSING.
4. SEE PLAN SHEET C-3 FOR DETAILS OF CENTERLINE RUMBLE STRIP.
5. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
6. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.

LEGEND:

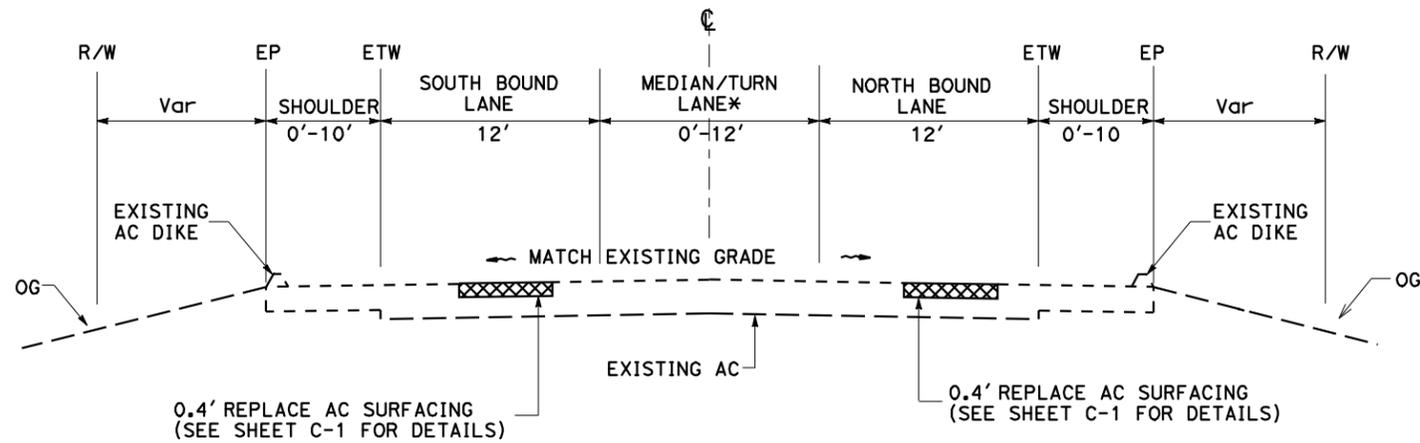
 REPLACE AC SURFACING

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR
 MICHAEL P. RISTIC
 CALCULATED-DESIGNED BY
 CHECKED BY
 RHEA VILLARAMA
 MICHAEL P. RISTIC
 REVISED BY
 DATE REVISED



PM 64.5 TO 80.5

NOTE: * - CENTERLINE RUMBLE STRIP AT PM 78.9 TO 79.4



PM R57.2 TO 64.5

NOTE: * - MEDIAN/TURN LANE AT PM 63.4

TYPICAL CROSS SECTIONS

NO SCALE

X-1



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	Sbd	95	R57.2/80.5	3	18

<i>Michael P. Ristic</i>	02-22-11
REGISTERED CIVIL ENGINEER	DATE
02-22-11	
PLANS APPROVAL DATE	

MICHAEL P. RISTIC
No. 69429
Exp. 06-30-11
CIVIL

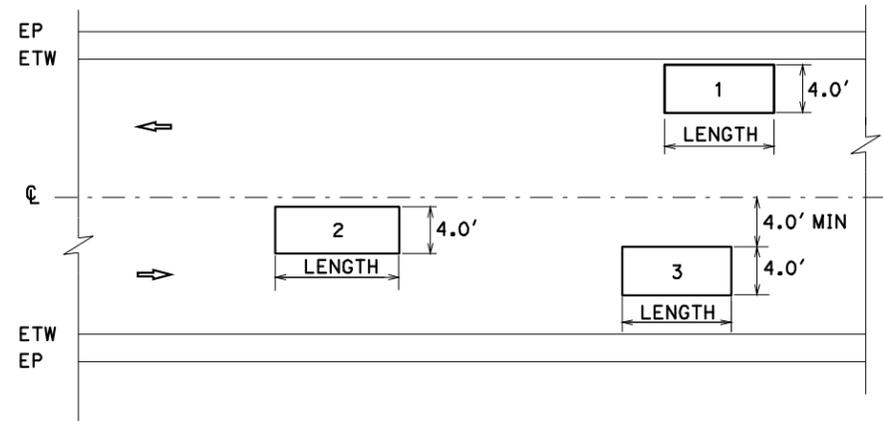
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. LENGTH OF REPLACE ASPHALT SURFACING SHALL BE A MINIMUM LENGTH 50' AND A MAXIMUM OF 500' AT EACH LOCATION.
2. MINIMUM THICKNESS SHOULD MATCH THE THICKNESS OF THE TOP LIFT.
3. FOR REPLACE ASPHALT CONCRETE SURFACING LOCATIONS, SEE SHEET Q-1.

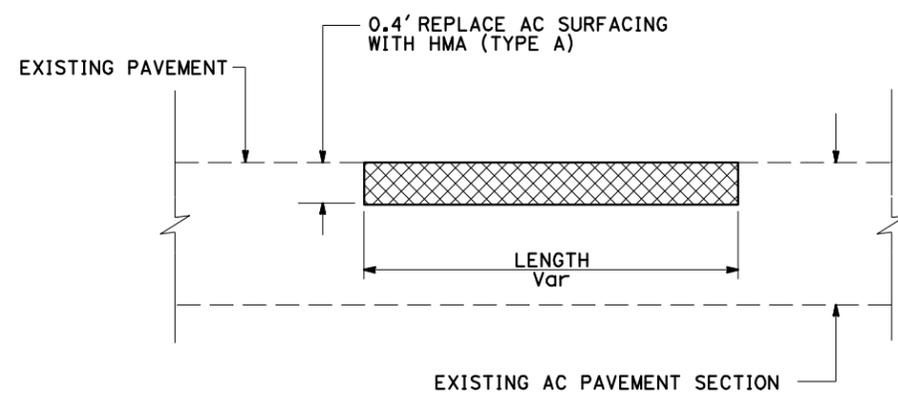
LEGEND

 REPLACE AC SURFACING

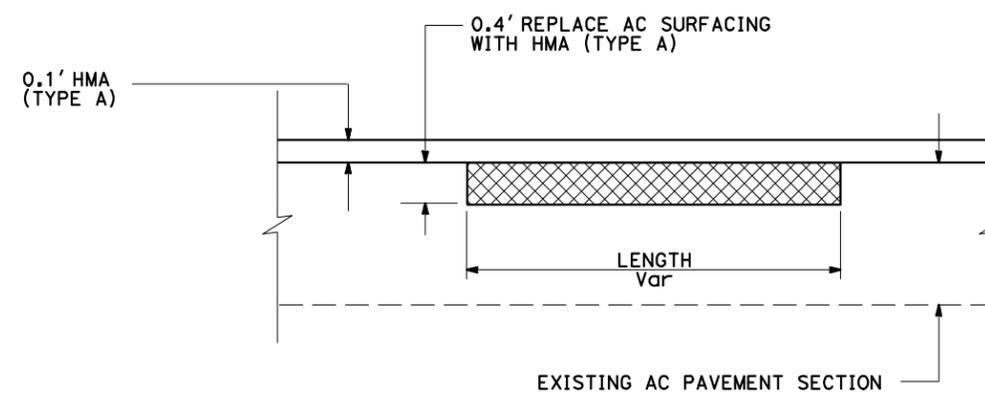


REPLACE ASPHALT CONCRETE SURFACING (LAYOUT)

- CASE 1: RIGHT WHEEL TRACK (R)
- CASE 2: LEFT WHEEL TRACK (L)
- CASE 3: CENTER OF TRAVELED WAY (C)



TYPICAL SECTION FOR REPLACE AC SURFACING (PROFILE)
PM 57.2 TO 64.5



TYPICAL SECTION FOR REPLACE AC SURFACING (PROFILE)
PM 64.5 TO 80.5

CONSTRUCTION DETAILS

NO SCALE

C-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
MICHAEL P. RISTIC

CALCULATED-DESIGNED BY
CHECKED BY

RHEA VILLARAMA
MICHAEL P. RISTIC

REVISED BY
DATE REVISED

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.5	4	18

REGISTERED CIVIL ENGINEER	DATE	02-22-11
PLANS APPROVAL DATE		02-22-11

REGISTERED PROFESSIONAL ENGINEER	No.	69429
Exp.	06-30-11	
CIVIL		

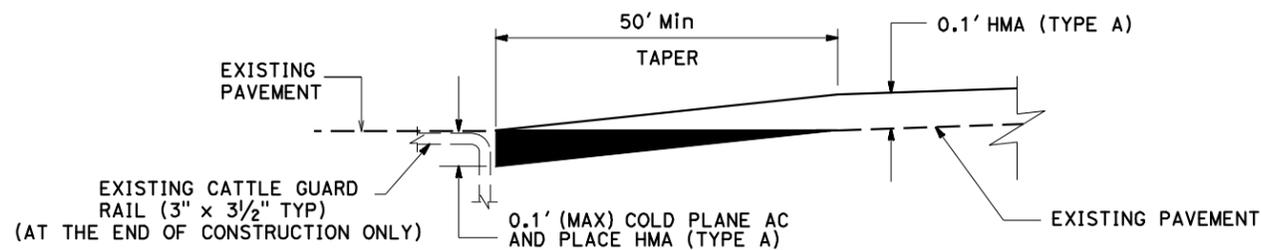
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

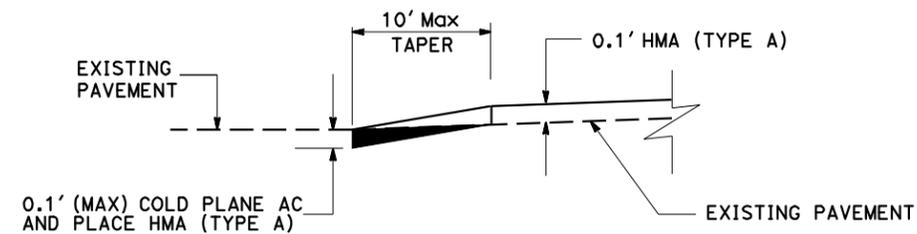
- EXACT LIMITS SHALL BE DETERMINED BY THE ENGINEER.
- PROTECT IN PLACE EXISTING CATTLE GUARD CROSSING.

LEGEND

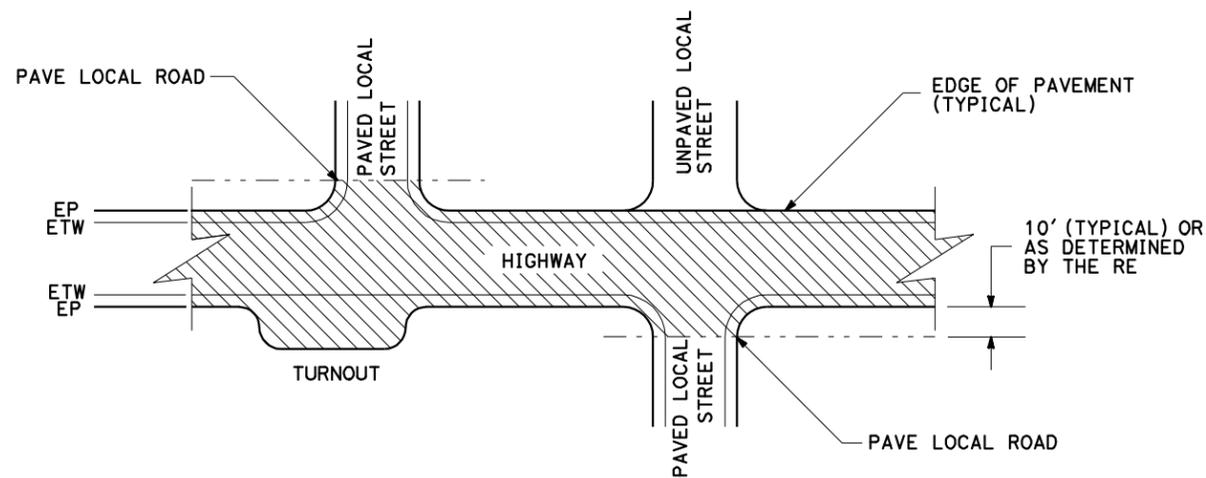
-  COLD PLANE
-  LIMITS OF WORK



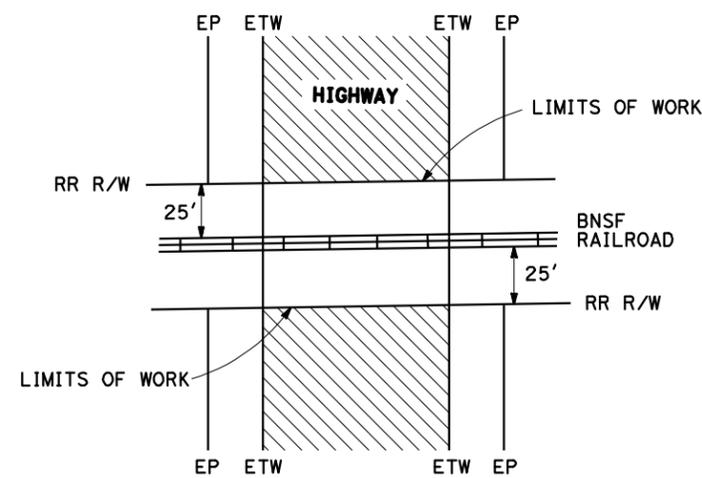
PAVING CONFORM FOR HMA OVERLAY
BEGIN CONSTRUCTION AND END CONSTRUCTION



PAVING CONFORM FOR HMA OVERLAY
PAVED LOCAL ROAD



PAVING LIMITS OF WORK
TYPICAL



LIMITS OF WORK FOR RAILROAD
AT-GRADE CROSSING
BNSF RAILROAD CROSSING ON SR 95 AT PM 64.04

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: MICHAEL P. RISTIC
 CALCULATED/DESIGNED BY: MICHAEL P. RISTIC
 CHECKED BY:
 REVISIONS: RHEA VILLARAMA, MICHAEL P. RISTIC
 REVISED BY: DATE REVISED:

CONSTRUCTION DETAILS

NO SCALE

C-2



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.5	5	18

<i>Michael P. Ristic</i>	02-22-11
REGISTERED CIVIL ENGINEER	DATE
02-22-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
MICHAEL P. RISTIC
No. 69429
Exp. 06-30-11
CIVIL
STATE OF CALIFORNIA

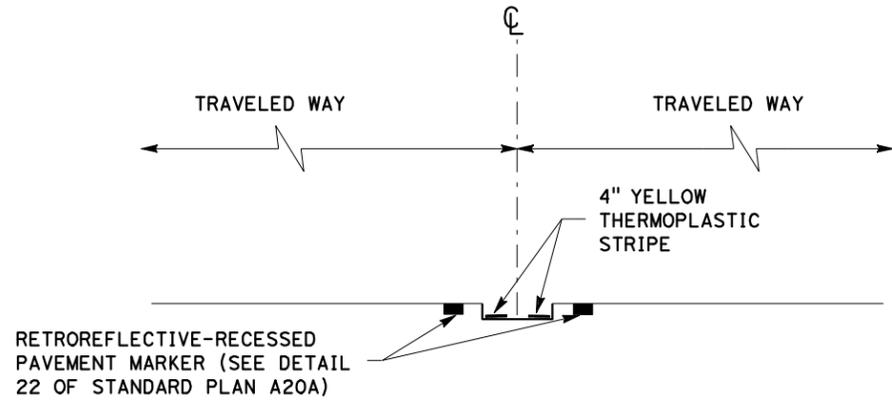
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

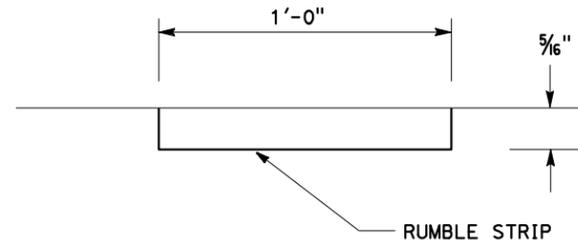
1. ALL TRAFFIC STRIPING AND DELINEATION WILL BE THE SAME AS EXISTING.
2. RUMBLE STRIP TO BE GROUND-IN AFTER HMA OVERLAY.
3. FOR PROPOSED PAVEMENT DELINEATION, SEE DETAIL 22 OF STANDARD PLAN A20A.

LEGEND:

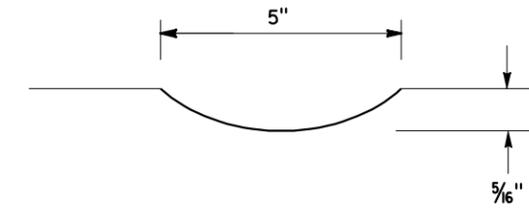
- ➔ DIRECTION OF TRAVEL
- TYPE D, TWO-WAY YELLOW RETROREFLECTIVE-RECESSED PAVEMENT MARKER
- ▨ 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE



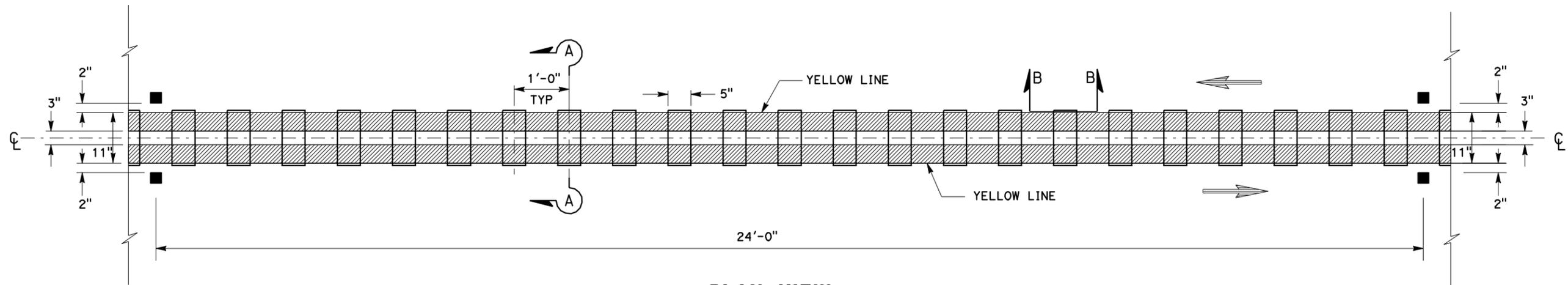
**TYPICAL CROSS SECTION
(DETAIL 22)**



SECTION A-A



SECTION B-B



PLAN VIEW

GROUND-IN CENTERLINE RUMBLE STRIP

PM 78.9 TO PM 79.4

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR BY
Caltrans MAINTENANCE DESIGN	MICHAEL P. RISTIC	CHECKED BY	DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN B

FUNCTIONAL SUPERVISOR
 LARRY SARTORI

CALCULATED-DESIGNED BY
 CHECKED BY

J. WILLIAM
 C. HARDIMON

REVISED BY
 DATE REVISED

NOTES:

- (S) = DENOTES STATIONARY MOUNTED SIGN
- LOCATIONS OF CONSTRUCTION SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 - USE REVERSIBLE TRAFFIC CONTROL WITH STD PLAN T13 FOR TRAFFIC CONTROL.

LEGEND:

-  CONSTRUCTION AREA SIGN (ONE POST)
-  CONSTRUCTION AREA SIGN (TWO POST)
-  CONSTRUCTION AREA
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  CONSTRUCTION AREA SIGN LETTER

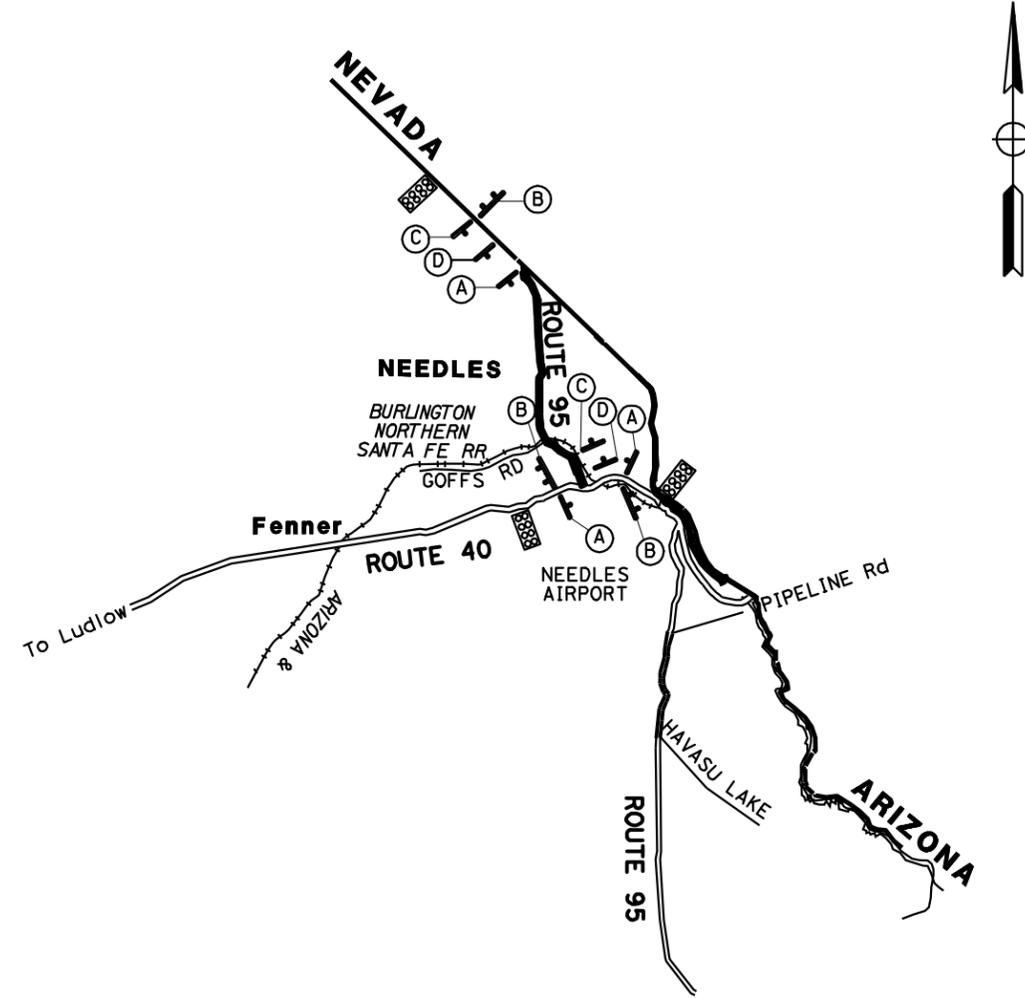
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.20/80.45	6	18

REGISTERED CIVIL ENGINEER DATE 02-22-11

PLANS APPROVAL DATE 02-22-11

Chris Hardimon
 No. C66092
 Exp. 06/30/12
 CIVIL

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PORTABLE CHANGEABLE MESSAGE SIGN

EA
3

CONSTRUCTION AREA SIGNS (S)					
SIGN No.	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	TOTAL No. OF SIGNS	SIGN MESSAGE
A	W 20-1	48" X 48"	1 - 6" X 6"	3	ROAD WORK AHEAD
B	C14(CA)	48" X 24"	1 - 4" X 6"	3	END ROAD WORK
C	C40(CA)	48" X 48"	1 - 6" X 6"	2	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES
D	C11(CA)	90" X 36"	2 - 4" X 6"	2	ROAD WORK NEXT 24 MILES

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	7	18

02-22-11
 REGISTERED CIVIL ENGINEER DATE
 02-22-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 CHRIS HARDIMON
 No. C66092
 Exp. 06/30/12
 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.

PAVEMENT DELINEATION QUANTITIES

LOCATION	DETAIL No.	STATION LIMITS	DISTANCE	REMOVE PAVEMENT MARKER (N)	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER NON-REFLECTIVE				PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC PAVEMENT MARKING		
					4in YELLOW	4in WHITE	TYPE A		TYPE D	TYPE G	TYPE H	TYPE D	TYPE G	TYPE H	WHITE	
					LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	SQ FT	
ROUTE 95 PM 57.20/80.45	27B	57.20 - 80.45	245520	-	-	245520	-	-	-	-	-	-	-	-	-	-
	19	57.20 - 57.93	3854	243	3854	-	-	81	-	162	-	-	-	-	-	-
	RUMBLE STRIP	57.20 - 57.93	-	204	-	-	204	-	-	-	-	-	-	-	-	-
	6	57.93 - 58.08	792	17	792	-	-	17	-	-	-	-	-	-	-	-
	22	58.08 - 58.87	4171	350	4171	-	-	350	-	-	-	-	-	-	-	-
	19	58.87 - 59.22	1848	118	1848	-	-	40	-	78	-	-	-	-	-	-
	22	59.22 - 59.49	1426	121	1426	-	-	121	-	-	-	-	-	-	-	-
	19	59.49 - 60.12	3326	210	3326	-	-	70	-	140	-	-	-	-	-	-
	6	60.12 - 60.17	264	7	264	-	-	7	-	-	-	-	-	-	-	-
	19	60.17 - 60.51	1795	114	1795	-	-	38	-	76	-	-	-	-	-	-
	6	60.51 - 60.56	264	7	264	-	-	7	-	-	-	-	-	-	-	-
	19	60.56 - 60.74	950	62	950	-	-	21	-	41	-	-	-	-	-	-
	22	60.74 - 60.79	264	24	264	-	-	24	-	-	-	-	-	-	-	-
	19	60.79 - 60.97	950	62	950	-	-	21	-	41	-	-	-	-	-	-
	6	60.97 - 61.47	2640	56	2640	-	-	56	-	-	-	-	-	-	-	-
	19	61.47 - 61.79	1690	108	1690	-	-	36	-	72	-	-	-	-	-	-
	6	61.79 - 62.59	4224	89	4224	-	-	89	-	-	-	-	-	-	-	-
	19	62.59 - 63.04	2376	150	2376	-	-	50	-	100	-	-	-	-	-	-
	22	63.04 - 63.10	317	28	317	-	-	28	-	-	-	-	-	-	-	-
	19	63.10 - 63.20	528	35	528	-	-	12	-	23	-	-	-	-	-	-
	22	63.20 - 63.85	3432	288	3432	-	-	288	-	-	-	-	-	-	-	-
	29	63.85 - 63.99	739	64	1478	-	-	64	-	-	-	-	-	-	-	-
	RR CROSSING	63.88 - 63.90	-	-	-	-	-	-	-	-	-	-	-	-	-	70
38	63.99 - 64.03	211	10	-	211	-	-	-	10	-	-	-	-	-	-	
TYPE IV ARROW (L)	63.99 - 64.03	-	-	-	-	-	-	-	-	-	-	-	-	-	30	
22	63.99 - 64.16	898	77	898	-	-	77	-	-	-	-	-	-	-	-	
RR CROSSING	64.05 - 64.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LIMIT LINE	64.07 - 64.08	-	-	-	-	-	-	-	-	-	-	-	-	-	140	
19	64.16 - 64.27	581	38	581	-	-	13	-	25	-	-	-	-	-	-	
SHEET-TOTAL				2482	38068	245731	204	1510	10	758	-	-	-	-	240	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 LARRY SARTORI
 J. WILLIAM
 C. HARDIMON
 REVISIONS BY DATE
 REVISIONS BY DATE

PAVEMENT DELINEATION QUANTITIES

NO SCALE

PDQ-1



PAVEMENT DELINEATION QUANTITIES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	8	18


 02-22-11
 REGISTERED CIVIL ENGINEER DATE
 02-22-11
 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.

LOCATION	DETAIL No.	STATION LIMITS	DISTANCE	REMOVE PAVEMENT MARKER (N)	THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)		PAVEMENT MARKER NON-REFLECTIVE				PAVEMENT MARKER (RETROREFLECTIVE -RECESSED)			THERMOPLASTIC PAVEMENT MARKING	
					4in YELLOW	4in WHITE	TYPE A	TYPE D	TYPE G	TYPE H	TYPE D	TYPE G	TYPE H	WHITE	
					LF	EA	LF	LF	EA	EA	EA	EA	EA	EA	EA
ROUTE 95 PM 57.20/80.45	LIMIT LINE	64.07 - 64.08	-	-	-	-	-	-	-	-	-	-	-	-	42
	RR CROSSING	64.09 - 64.10	-	-	-	-	-	-	-	-	-	-	-	-	70
	RR CROSSING	64.16 - 64.17	-	-	-	-	-	--	-	-	-	-	-	-	70
	6	64.27 - 65.68	7445	156	7445	-	-	-	-	-	156	-	-	-	-
	19	65.68 - 66.07	2059	131	2059	-	-	-	-	-	44	-	87	-	-
	6	66.07 - 67.53	7709	162	7709	-	-	-	-	-	162	-	-	-	-
	19	67.53 - 67.74	1109	71	1109	-	-	-	-	-	24	-	47	-	-
	6	67.74 - 68.83	5755	121	5755	-	-	-	-	-	121	-	-	-	-
	19	68.83 - 69.02	1003	65	1003	-	-	-	-	-	22	-	43	-	-
	22	69.02 - 69.90	4646	389	4646	-	-	-	-	-	389	-	-	-	-
	19	69.90 - 70.01	581	38	581	-	-	-	-	-	13	-	25	-	-
	6	70.01 - 70.33	1690	36	1690	-	-	-	-	-	36	-	-	-	-
	19	70.33 - 70.58	1320	85	1320	-	-	-	-	-	29	-	56	-	-
	22	70.58 - 70.77	1003	86	1003	-	-	-	-	-	86	-	-	-	-
	19	70.77 - 70.95	950	61	950	-	-	-	-	-	21	-	40	-	-
	6	70.95 - 71.08	686	15	686	-	-	-	-	-	15	-	-	-	-
	19	71.08 - 71.50	2218	141	2218	-	-	-	-	-	47	-	94	-	-
	6	71.50 - 77.61	32261	673	32261	-	-	-	-	-	673	-	-	-	-
	19	77.61 - 77.84	1214	78	1214	-	-	-	-	-	26	-	52	-	-
	22	77.84 - 77.93	475	42	475	-	-	-	-	-	42	-	-	-	-
19	77.93 - 78.16	1214	78	1214	-	-	-	-	-	26	-	52	-	-	
6	78.16 - 78.87	3749	79	3749	-	-	-	-	-	79	-	-	-	-	
22	78.87 - 79.38	2693	226	2693	-	-	-	-	-	226	-	-	-	-	
6	79.38 - 79.57	1003	22	1003	-	-	-	-	-	22	-	-	-	-	
19	79.57 - 79.80	1214	78	1214	-	-	-	-	-	26	-	52	-	-	
22	79.80 - 79.96	845	72	845	-	-	-	-	-	72	-	-	-	-	
19	79.96 - 80.16	1056	68	1056	-	-	-	-	-	23	-	45	-	-	
6	80.16 - 80.45	1531	33	1531	-	-	-	-	-	33	-	-	-	-	
SHEET-TOTAL				3006	85429	-	-	-	-	-	2413	-	593	182	
TOTAL				5488	369228	204	2278	3006	422						

(N) NOT A SEPERATE PAY ITEM, FOR INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 LARRY SARTORI
 J. WILLIAM C. HARDIMON
 REVISIONS: REVISED BY DATE

PAVEMENT DELINEATION QUANTITIES

NO SCALE PDQ-2

LAST REVISION DATE PLOTTED => 23-FEB-2011 02-22-11 TIME PLOTTED => 09:18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR
 MICHAEL P. RISTIC
 CALCULATED-DESIGNED BY
 CHECKED BY
 RHEA VILLARAMA
 MICHAEL P. RISTIC
 REVISED BY
 DATE REVISED

NOTES:

1. WIDTHS ARE NOMINAL. MATCH EXISTING WIDTHS IN THE FILED.
2. COLD PLANE AC PAVEMENT AT PAVED LOCAL ROAD INTERSECTIONS AND AT BEGIN AND END CONSTRUCTION.
3. EXACT LOCATION OF REPLACE AC SURFACING SHALL BE DETERMINE BY THE ENGINEER.
4. REPLACE AC SURFACING AT LOCATIONS OF INDUCTIVE LOOPS AT PM 57.8 AND PM 80.4 (SEE SHEET E-1).

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	R57.2/80.5	9	18

02-22-11
 REGISTERED CIVIL ENGINEER DATE
 02-22-11
 PLANS APPROVAL DATE

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ROADWAY QUANTITIES

PM	TOTAL WIDTH (FT)	COLD PLANE AC PAVEMENT (SQYD)	HMA (TON)	TACK COAT (TON)
64.5/80.3	28	187	18,103	76
80.3/80.45	44	293	270	1
TOTAL		480	18,373	77

REPLACE ASPHALT CONCRETE SURFACING

PM	REPLACE ASPHALT CONCRETE SURFACING (CY)
R57.2/60.0	208
60.0/65.0	682
65.0/70.0	197
70.0/75.0	442
75.0/80.45	1,447
TOTAL	2,976

CENTERLINE RUMBLE STRIP

PM	CENTERLINE RUMBLE STRIP (STA)
78.9/79.4	27

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans ELECTRICAL DESIGN B
 FUNCTIONAL SUPERVISOR: FERDINAND DE LA CRUZ
 REVISIONS: x x x x x x x x x x

NOTES: THIS SHEET ONLY

1. ALL DISTANCES ARE APPROXIMATE. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL LOOP LOCATIONS.
2. NEW DETECTOR LOOPS SHALL BE INSTALLED AT LOCATION OF EXISTING LOOPS.
3. EXISTING LOOPS THAT ARE TO BE REPLACED SHALL BE **AB**.
4. CONTACT THE ENGINEER 3 WORKING DAYS BEFORE STARTING ANY WORK ON **Exist** LOOPS.
5. SEE PLANSHEET Q-1 FOR THE LOCATIONS OF REPLACE AC SURFACING.

REVISED BY: _____
DATE REVISED: _____

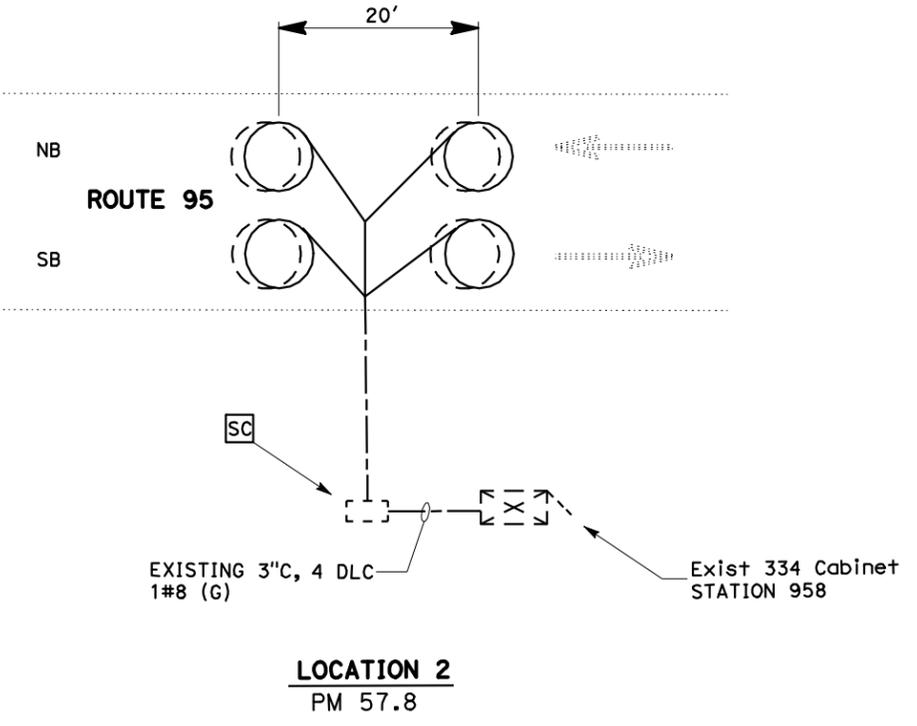
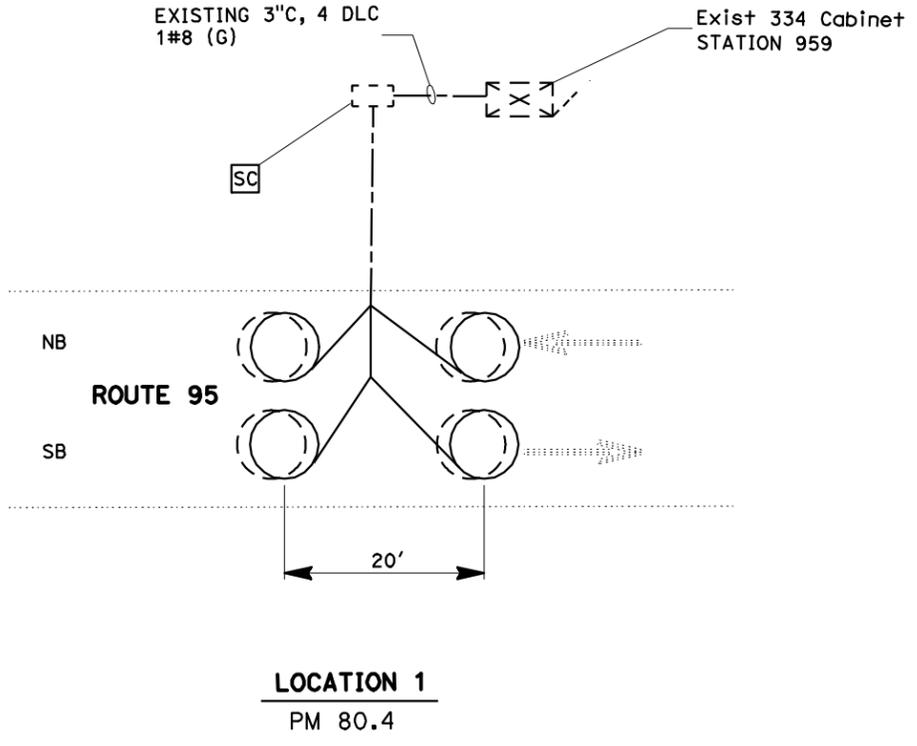
DESIGNED BY: JAIME ESTRADA
CHECKED BY: FERDINAND DE LA CRUZ

CALCULATED-DESIGNED BY: _____
CHECKED BY: _____

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	95	57.80/80.45	10	18

REGISTERED CIVIL ENGINEER: *Jaime Estrada*
 DATE: 02-22-11
 PLANS APPROVAL DATE: 02-22-11
 No. E 18351
 Exp. 06-30-12
 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.



INDUCTIVE LOOP DETECTOR

NO SCALE

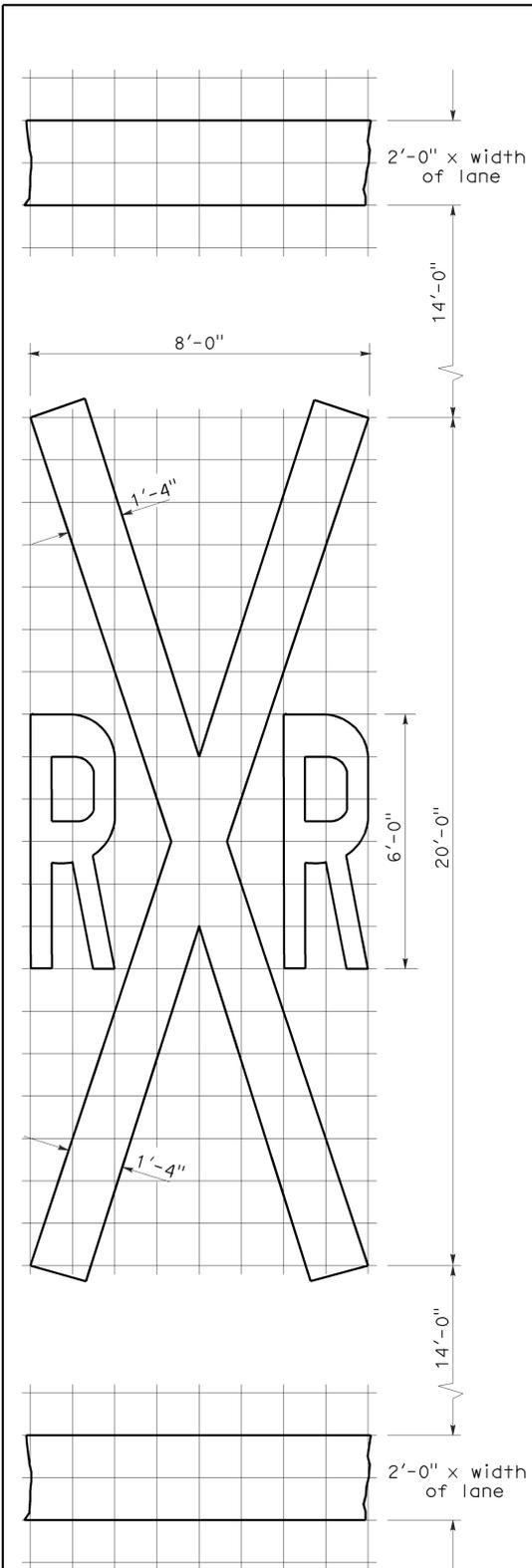
E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

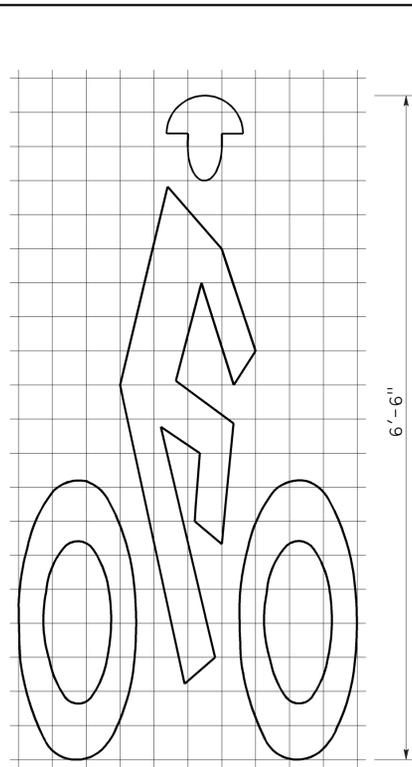
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	11	18

Donald E. Howe
 REGISTERED CIVIL ENGINEER
 June 6, 2008
 PLANS APPROVAL DATE
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

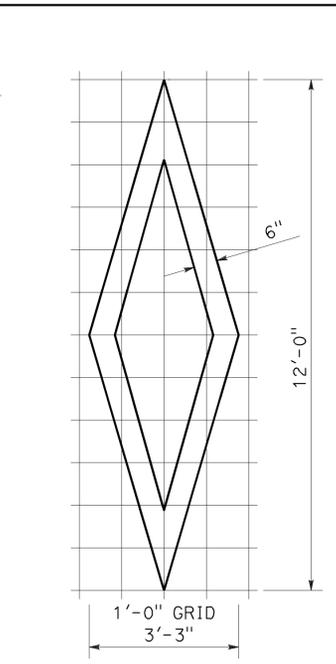
To accompany plans dated 02-22-11



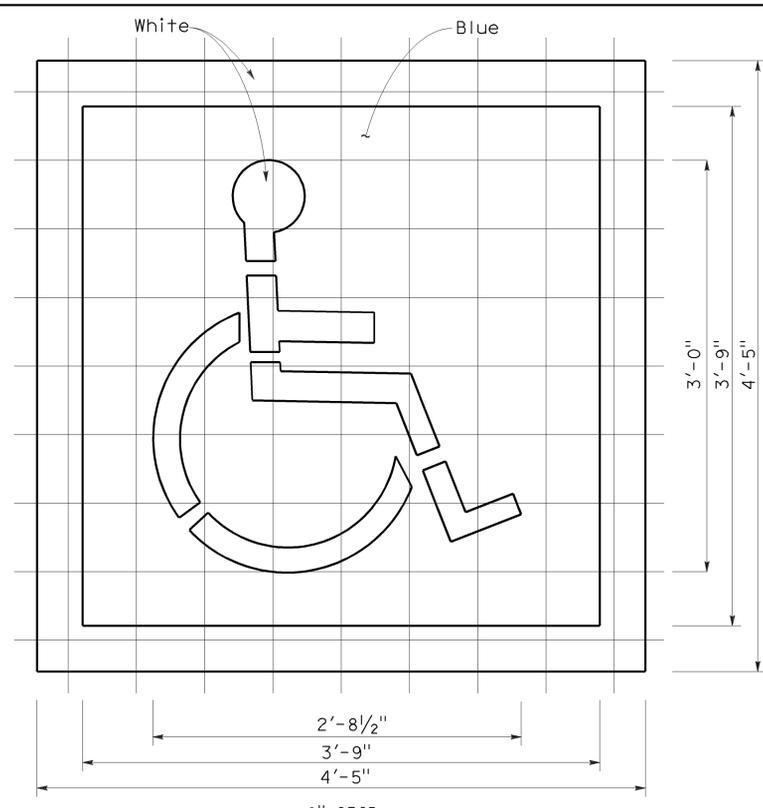
1'-0" GRID
A=70 sq ft *
RAILROAD CROSSING SYMBOL
*70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



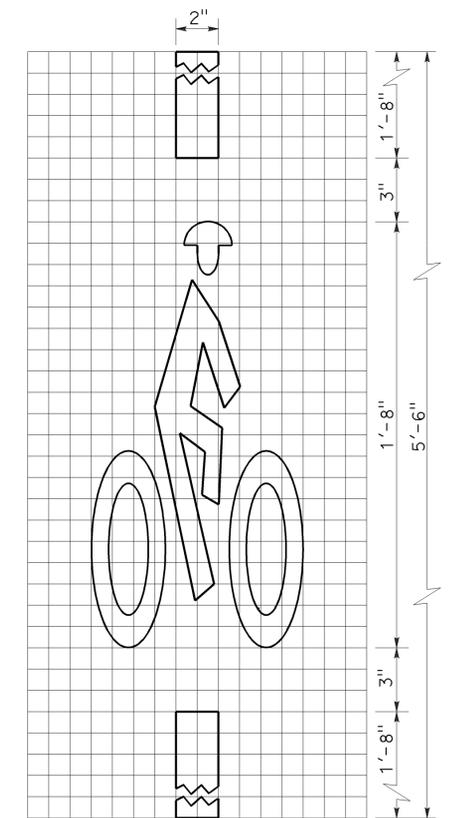
4" GRID
3'-4"
A=7 sq ft
BIKE LANE SYMBOL



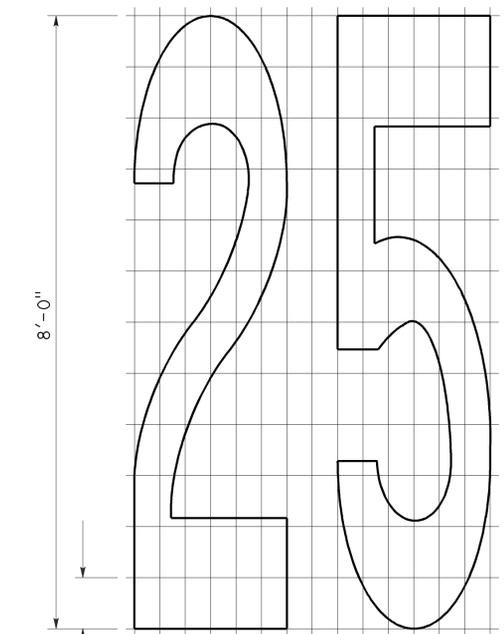
1'-0" GRID
3'-3"
A=11 sq ft
DIAMOND SYMBOL



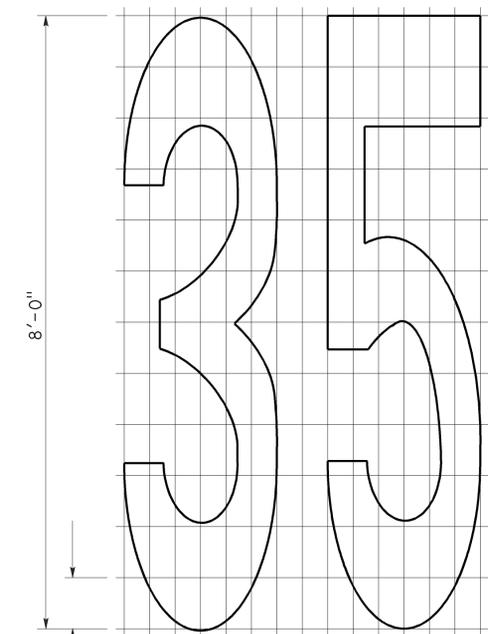
6" GRID
A (White) = 9 sq ft
A (Blue) = 14 sq ft
INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



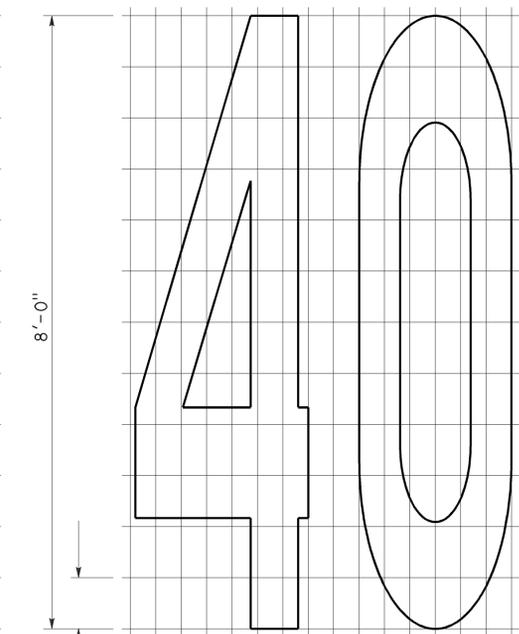
1" GRID
10"
A=2 sq ft
BICYCLE LOOP DETECTOR SYMBOL



8'-0"
8"
4"
4'-8"
A=17.5 sq ft



8'-0"
8"
4"
4'-8"
A=16.5 sq ft



8'-0"
8"
4"
4'-11"
A=19.5 sq ft

NUMERALS

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

ELECTROLIERS

STANDARD TYPES	High mast light pole
15, 15D	
15 STRUCTURE	
21, 21D STRUCTURE	
30	
31	
32	
35	
36-20A	

NOTES:

- 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.
- Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
- Variations noted adjacent to symbol on project plans.

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	
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces, side attachment - 5 signal section
MAS-5B	mas-5B	
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
08	SBd	95	R57.2/80.45	12	18

REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
 No. E14512
 Exp. 6-30-08
 STATE OF CALIFORNIA
 ELECTRICAL

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 02-22-11

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
08	SBd	95	R57.2/80.45	13	18

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Jeffrey G. McRae
 No. E14512
 Exp. 6-30-08
 ELECTRICAL
 STATE OF CALIFORNIA

To accompany plans dated 02-22-11

CONDUIT

PROPOSED	EXISTING	
		Lighting Conduit, unless otherwise indicated or noted
		Traffic signal conduit
		Communication conduit
		Telephone conduit
		Fire alarm conduit
		Fiber optic conduit
		Conduit termination
		Conduit riser in/on structure or service pole

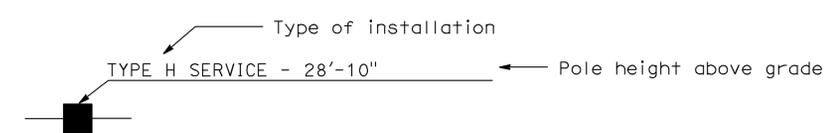
SIGNAL EQUIPMENT

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 lowered "LG" indicates lowered 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	
		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:

1. All signal sections shall be 12" unless shown otherwise.
2. Signal heads shall be provided with backplates unless shown otherwise.
3. 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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	14	18

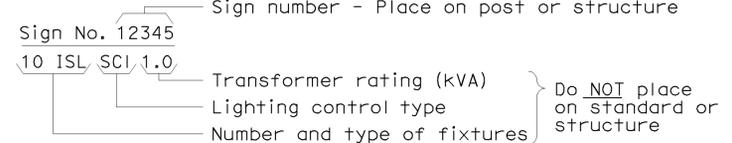
Jeffery G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



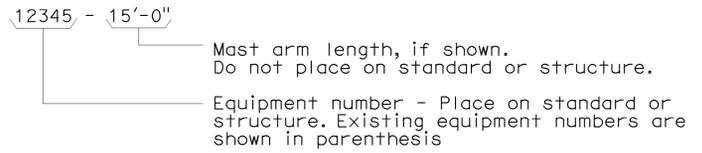
To accompany plans dated 02-22-11

EQUIPMENT IDENTIFICATION

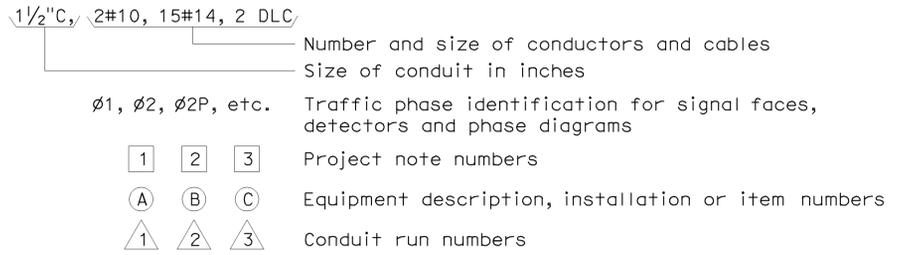
ILLUMINATED SIGN IDENTIFICATION NUMBER:



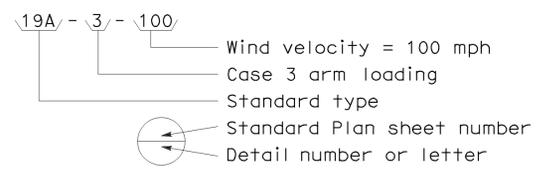
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



CONDUIT AND CONDUCTOR IDENTIFICATION:



SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
		Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
		Extinguishable message sign
		Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole	----	External conductor
CB	Circuit breaker	—●—	Conductor or bus
A	Ampere	—●—	Tie point
V	Volt	—/—	Contactor coil
M	Metered	— —	Contactor, Contact NO
UM	Unmetered	— —	Terminal blocks
NB	Neutral bus	— —	Contactor, Contact NC
GB	Ground bus	— —	Enclosure bond
G	Equipment grounding conductor	— —	Grounding electrode
N	Grounded conductor (Neutral)	— —	Circuit breaker
		Ⓜ	Receptacle

PULL BOXES

PROPOSED	EXISTING	
		Pull box-No. 5 unless otherwise indicated or noted.
		Pull box-Additional designations or descriptions
3	9A(21)	(C) = Communications pull box
5		(E) = Pull box with extension
6		(S) = Sprinkler control pull box
7		(21) = Anchor bolts and conduit for future installation of Type 21 Standard
8		(T) = Traffic pull box
9		
9A		

VEHICLE DETECTORS

PROPOSED	EXISTING	
		Vehicle detector designation
U	L	U = Upper L = Lower
5		Slot number in input file
J		Input file (I or J)
9		Phase
		Type A detector loop. Outline of sawcut shown.
		Type B detector loop. Outline of sawcut shown.
		Type C detector loop. Outline of sawcut shown.
		Type D detector loop. Outline of sawcut shown.
		Type E detector loop. Outline of sawcut shown.
		Type Q detector loop. Outline of sawcut shown.
		Magnetic detector
		Detector handhole
		Microwave or video detection zone

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.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	15	18

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

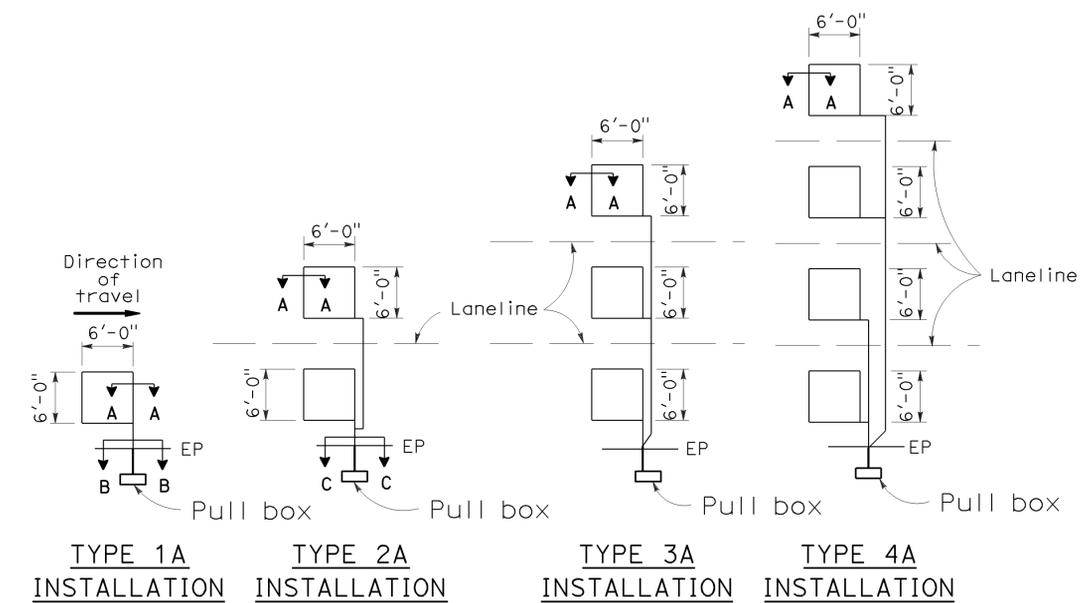
October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated 02-22-11

LOOP INSTALLATION PROCEDURE

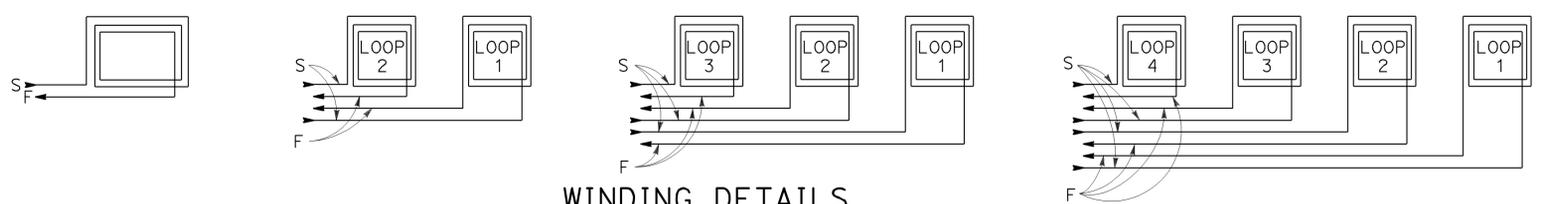
- Loops shall be centered in lanes.
- Saw slots in pavement for loop conductors as shown in details.
- Distance between side of loop and a lead-in saw cut from adjacent detectors shall be 2'-0" minimum. Distance between lead-in saw cuts shall be 6" minimum.
- Bottom of saw slot shall be smooth with no 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

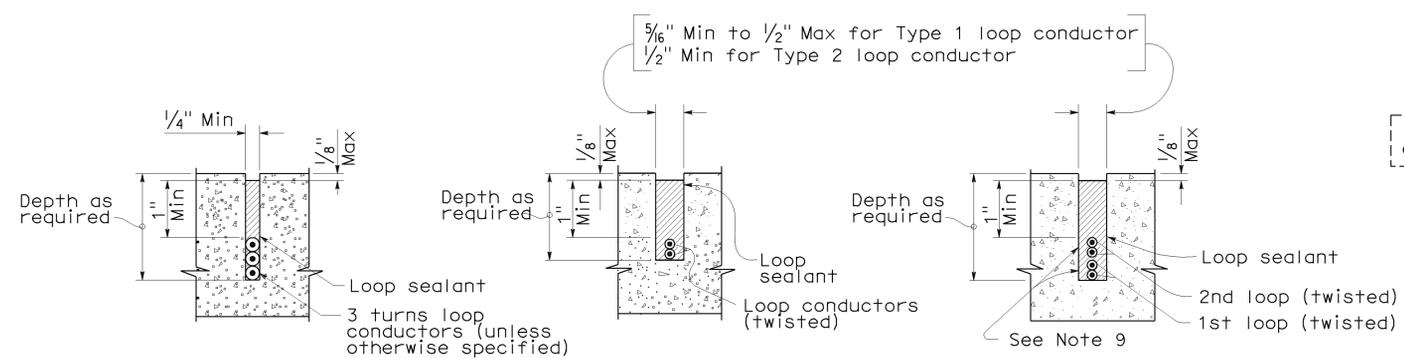
SAWCUT DETAILS

- (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)

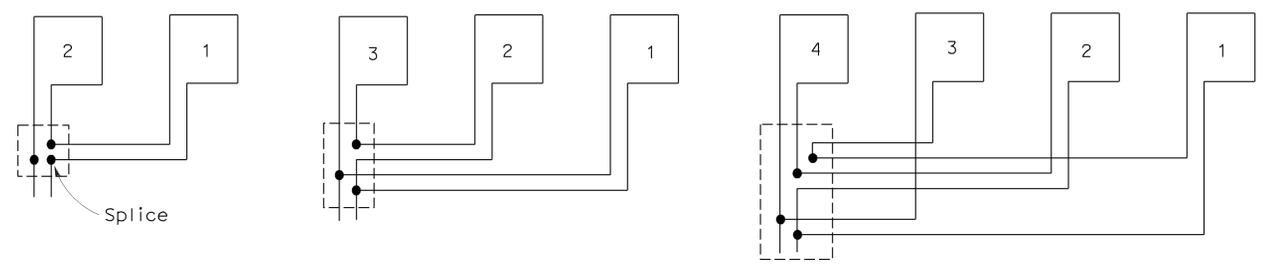


WINDING DETAILS

See Notes 6 and 7



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



TYPICAL LOOP CONNECTIONS
 (Dashed lines represent the pull box)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (DETECTORS)

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.

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	95	R57.2/80.45	16	18

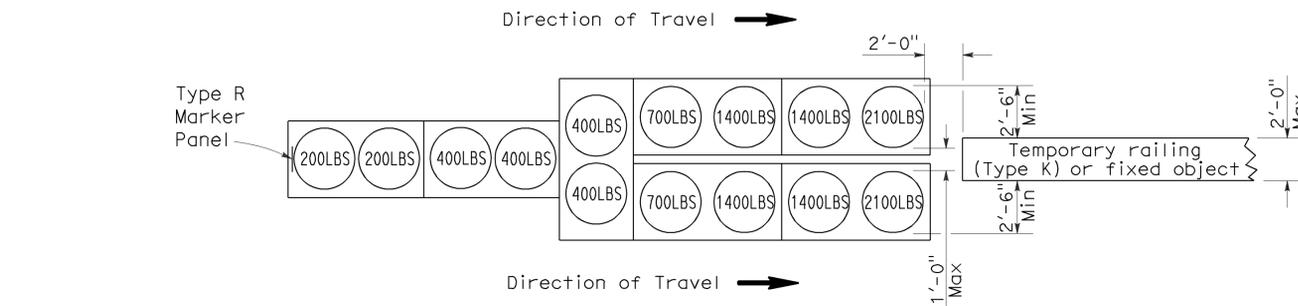
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

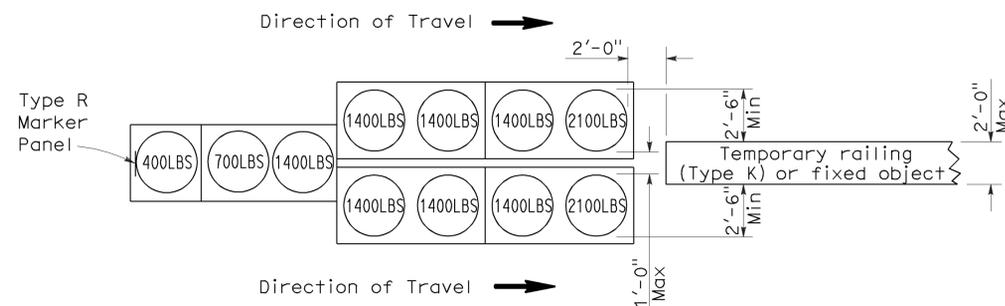
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REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

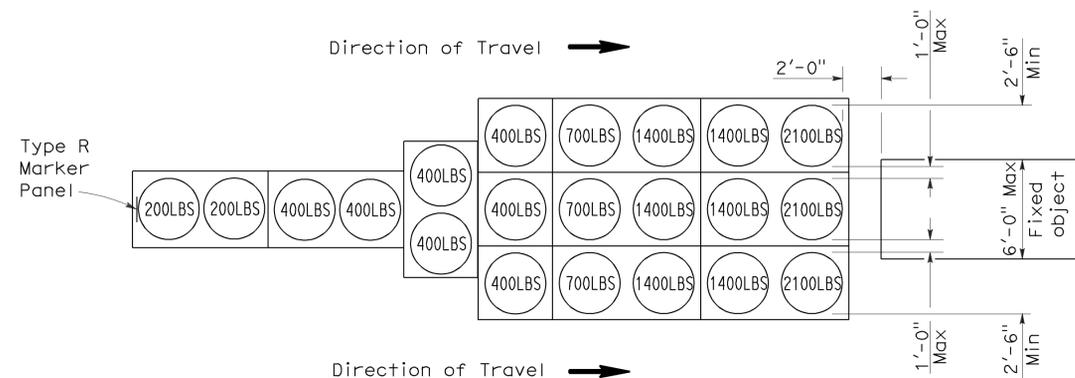
To accompany plans dated 02-22-11



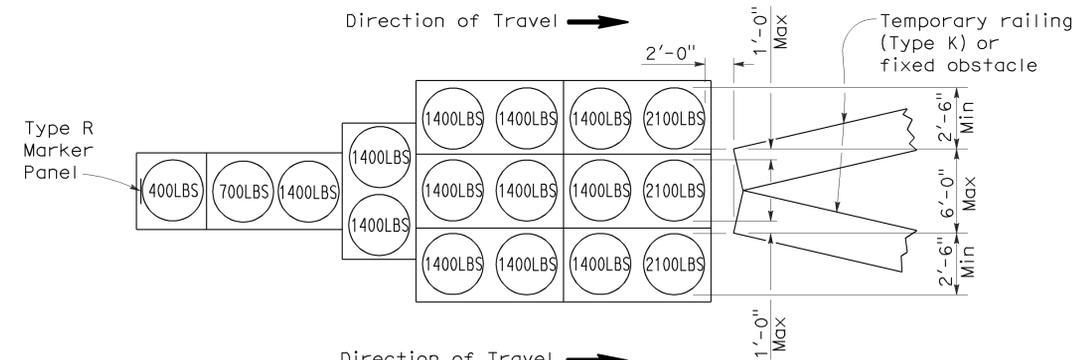
ARRAY 'TU14'
Approach speed 45 mph or more



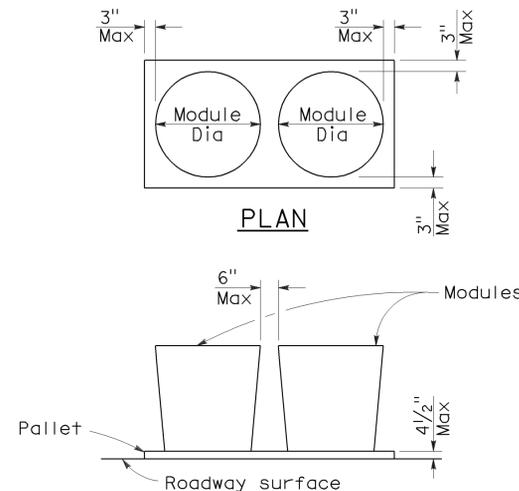
ARRAY 'TU11'
Approach speed less than 45 mph



ARRAY 'TU21'
Approach speed 45 mph or more



ARRAY 'TU17'
Approach speed less than 45 mph



PLAN
ELEVATION
CRASH CUSHION PALLET DETAIL
See Note 7

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.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Place the top of Type R marker panel 1" below the module lid.
- Refer to Standard Plan A73B for marker details.
- 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
(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
08	SBd	95	R57.2/80.45	17	18

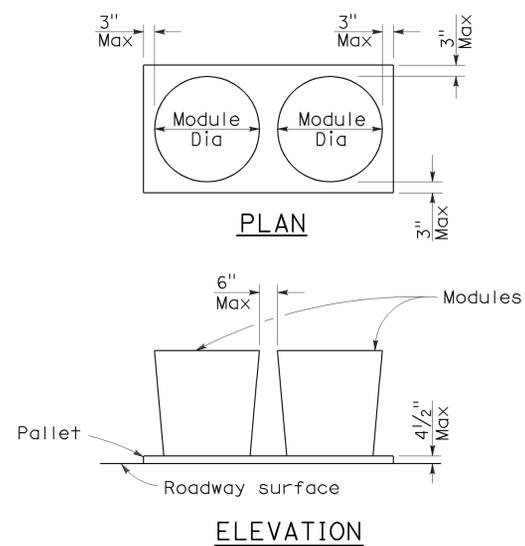
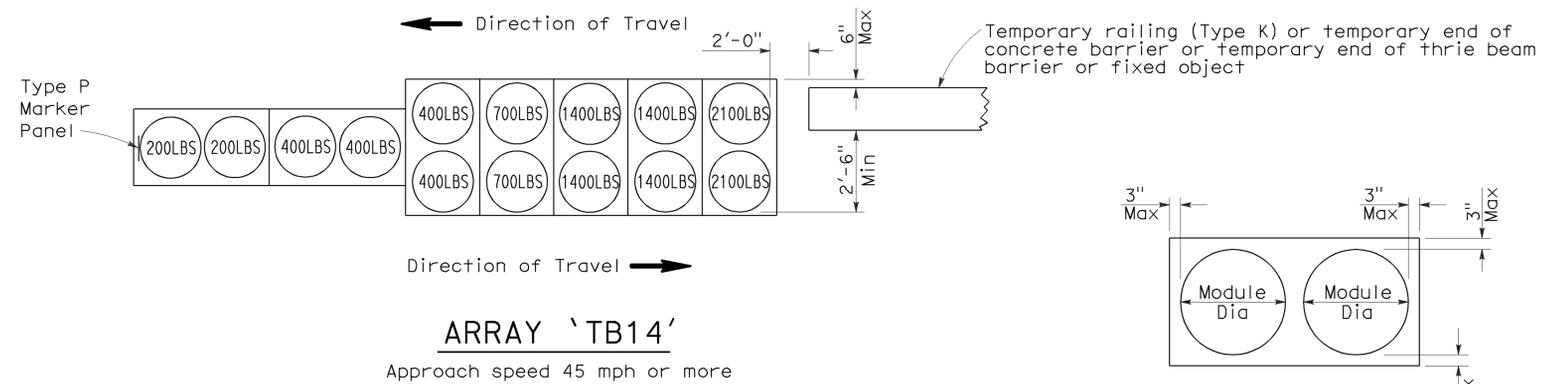
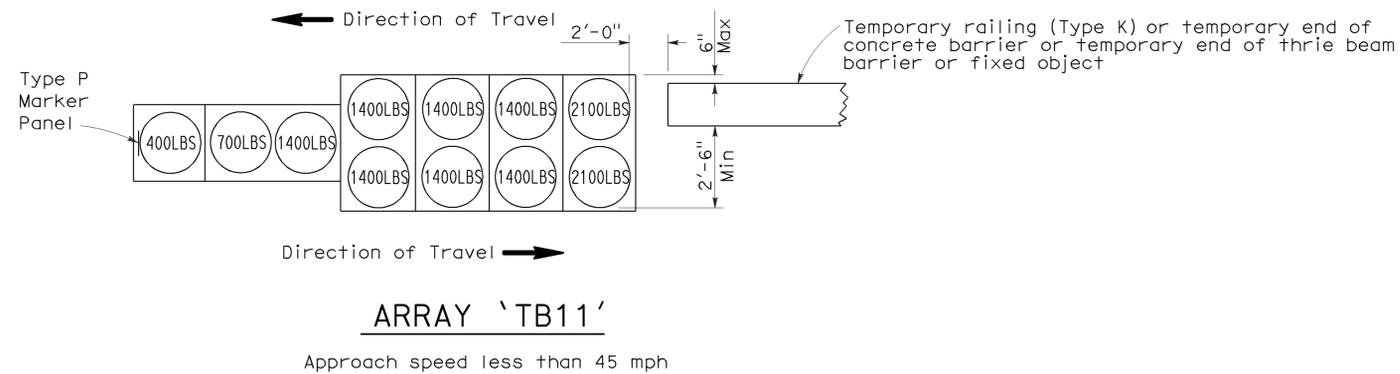
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

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

To accompany plans dated 02-22-11



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
08	SBd	95	R57.2/80.45	18	18

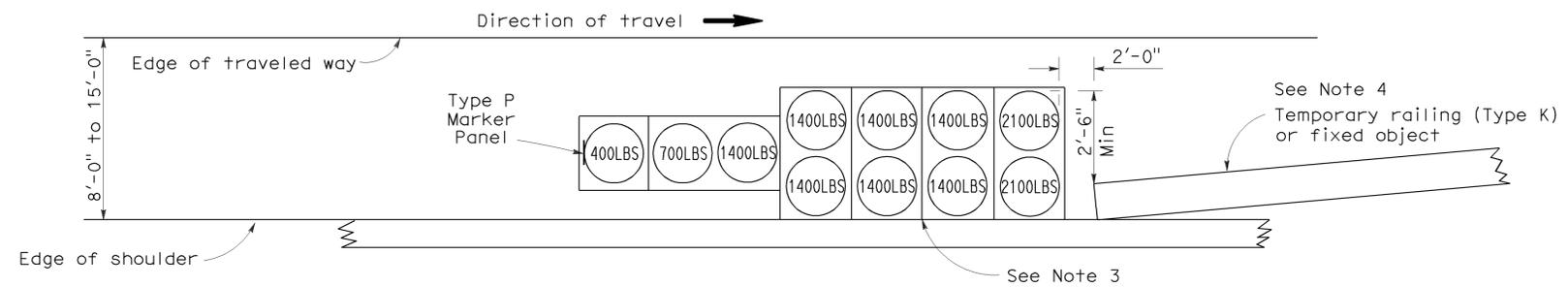
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

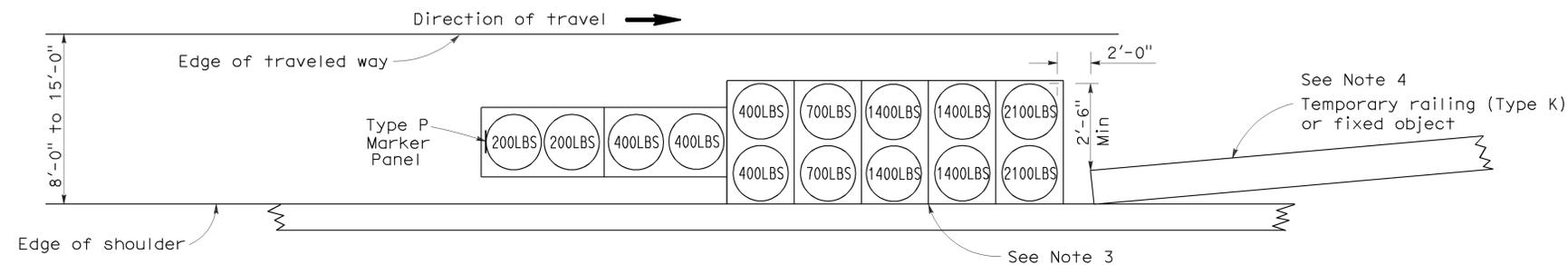
Randell D. Hiatt
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

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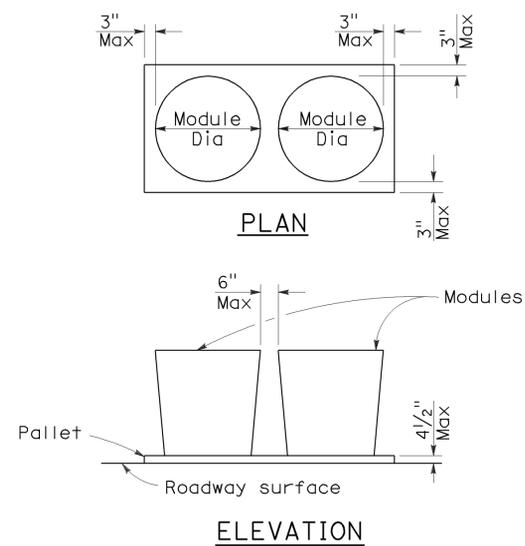
To accompany plans dated 02-22-11



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