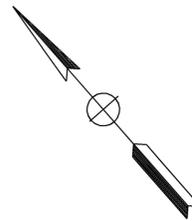


SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-4	LAYOUTS
5	EROSION CONTROL DETAILS
6-7	DRAINAGE DETAILS AND QUANTITIES
8	CONSTRUCTION AREA SIGNS
9-11	PAVEMENT DELINEATION PLANS AND QUANTITIES
12	SUMMARY OF QUANTITIES
13-17	ELECTRICAL PLANS
18-30	REVISED STANDARD PLANS

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

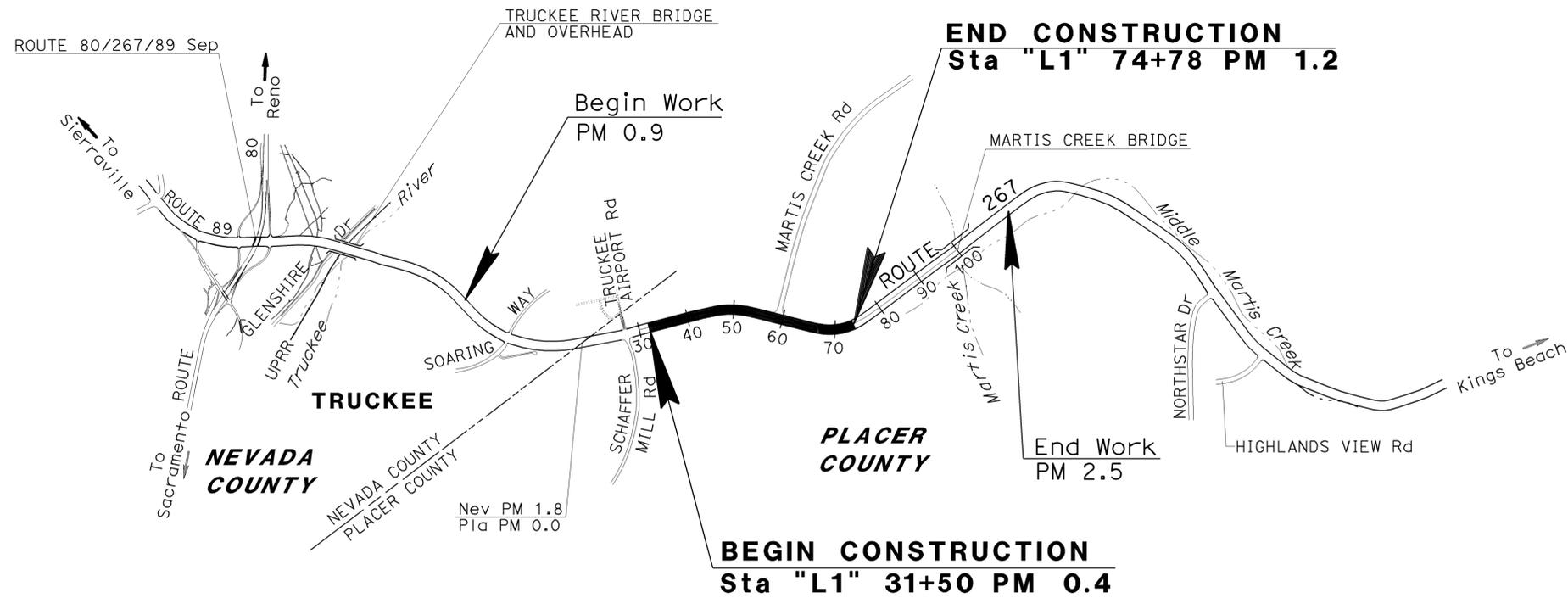
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**PROJECT PLANS FOR CONSTRUCTION ON
 STATE HIGHWAY**
**IN PLACER COUNTY
 NEAR TRUCKEE FROM
 0.6 MILE NORTH OF MARTIS CREEK ROAD
 TO 0.2 MILE SOUTH OF MARTIS CREEK ROAD**

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	1	30

LOCATION MAP

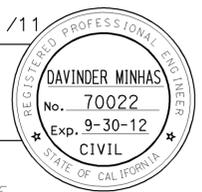


PROJECT MANAGER
NAJED DAKAK
 DESIGN ENGINEER
DEANN SPANGLER

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

NO SCALE

Davinder Minhas 12/1/11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
December 19, 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.	03-0F0104
PROJECT ID	0300020154

DATE PLOTTED => 22-FEB-2012
 TIME PLOTTED => 14:26
 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	2	30
Davinder Minhas 12-1-11 REGISTERED CIVIL ENGINEER DATE					
12-19-11 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTE:

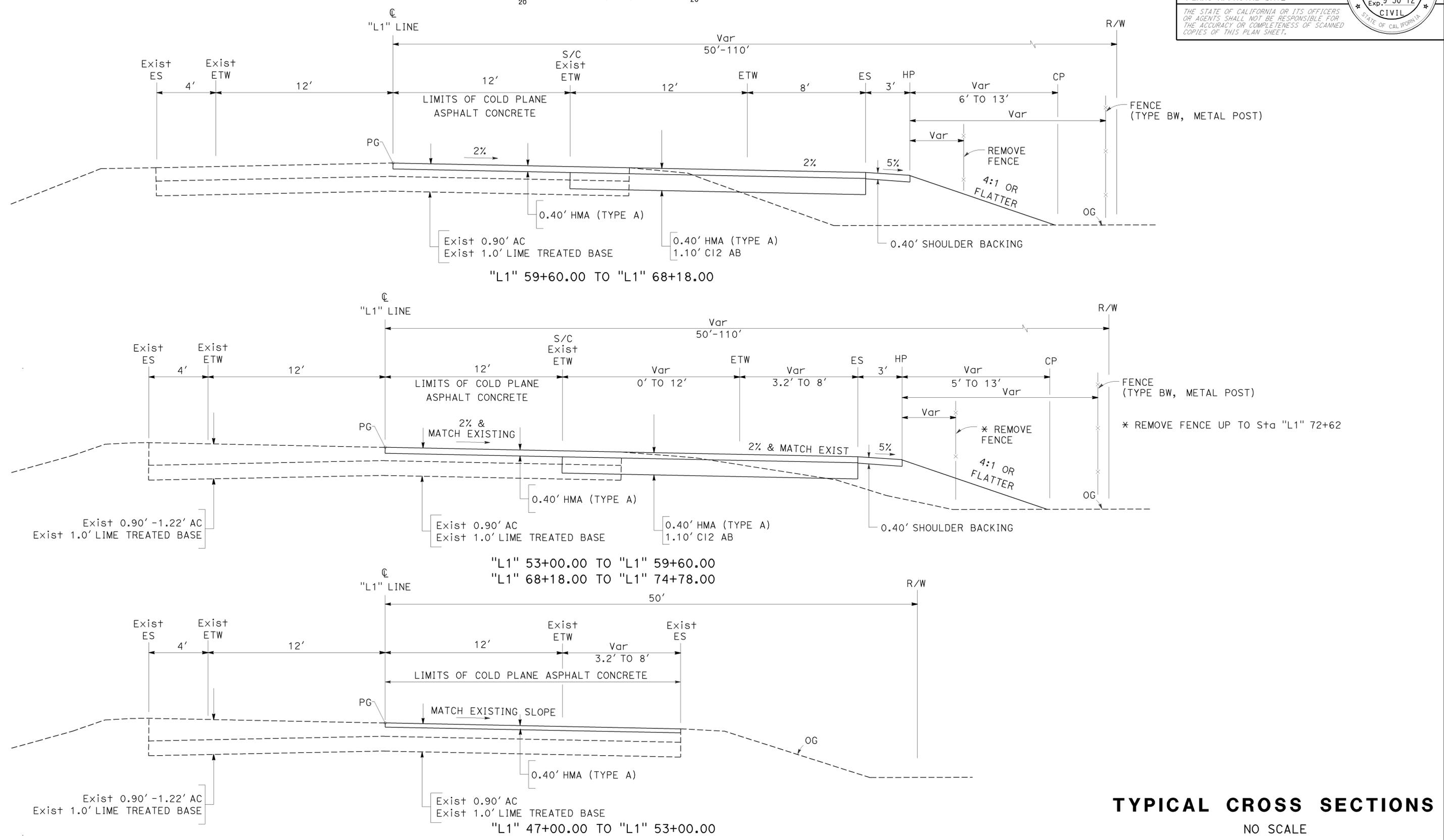
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.

DESIGN DESIGNATION

ADT (2011)	11,700	D	60%
ADT (2031)	17,800	T	2.0%
DHV	2,230	V	55 mph
ESAL ₂₀	1,015,860	TI ₂₀	9.0

LEGEND

CP CATCH POINT
S/C SAWCUT



TYPICAL CROSS SECTIONS
NO SCALE

ROUTE 267

X-1

REVISOR: DAVINDER MINHAS, DEANN SPANGLER
 CALCULATED/DESIGNED BY: DAVINDER MINHAS, DEANN SPANGLER
 CHECKED BY: DAVINDER MINHAS, DEANN SPANGLER
 FUNCTIONAL SUPERVISOR: DEANN SPANGLER
 DEPARTMENT OF TRANSPORTATION - NORTH REGION OFFICE OF DESIGN SOUTH DESIGN BRANCH S1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	3	30

REGISTERED CIVIL ENGINEER DATE 12-1-11
 No. 70022
 Exp. 9-30-12
 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.

NOTES:

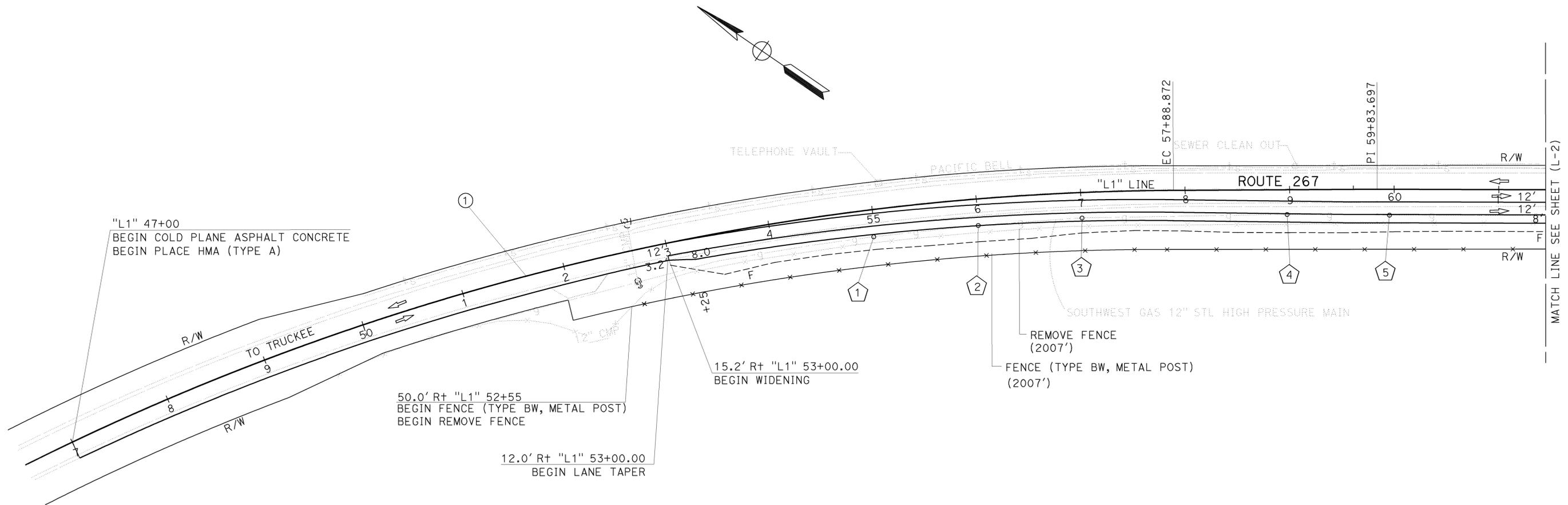
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

POSITIVE LOCATION INFORMATION

No.	LOCATION	ELEVATION	DEPTH TO TOP OF PIPE	ELEVATION @ TOP OF PIPE	METHOD
1	25.9' Rt Sta "L1" 54+98.3	5870.93	6'-11"	5864.0	ELECTRONIC DETECTION
2	25.3' Rt Sta "L1" 56+00.0	5871.52	5'-10"	5865.7	ELECTRONIC DETECTION
3	24.3' Rt Sta "L1" 57+00.4	5872.73	5'-6"	5867.2	ELECTRONIC DETECTION
4	23.6' Rt Sta "L1" 58+97.5	5873.49	6'-4"	5867.2	POTHOLING
5	24.7' Rt Sta "L1" 59+95.5	5873.81	5'-8"	5868.1	ELECTRONIC DETECTION

LEGEND

← DIRECTION OF TRAVEL



CURVE DATA

(X)	R	Δ	T	L
1	2491	28°46'43"	639.09'	1251.19'

LAYOUT
SCALE: 1" = 50'

L-1

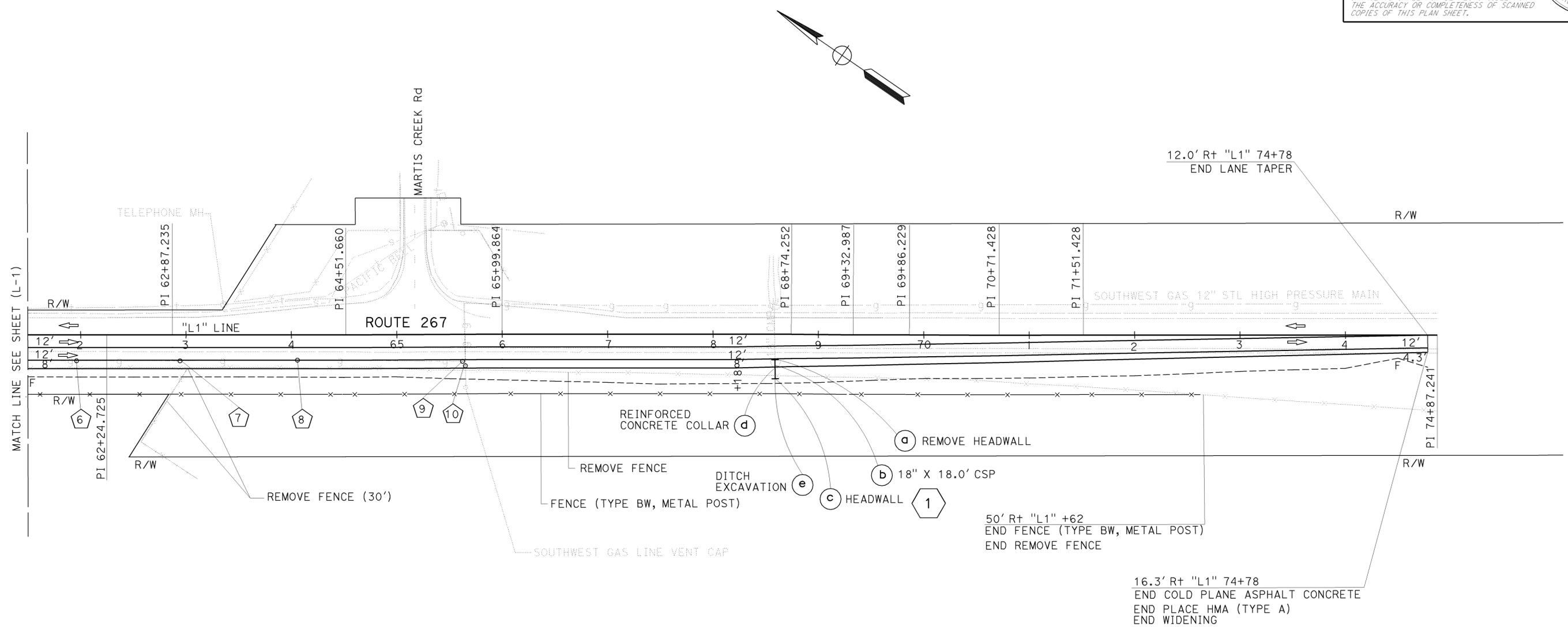
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN SOUTH
 DESIGN BRANCH S1
 Davinder Minhas
 Deann Spangler
 Deann Spangler
 Deann Spangler

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	4	30

REGISTERED CIVIL ENGINEER: **Davinder Minhas** 12-1-11
 DATE: 12-19-11
 PLANS APPROVAL DATE: 12-19-11
 No. 70022
 Exp. 9-30-12
 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.

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



POSITIVE LOCATION INFORMATION

No.	LOCATION	ELEVATION	DEPTH TO TOP OF PIPE	ELEVATION @ TOP OF PIPE	METHOD
6	24.5' Rt Sta "L1" 61+96.2	5874.03	4'-6"	5869.5	POTHOLING
7	24.8' Rt Sta "L1" 62+94.4	5874.46	5'-0"	5869.5	ELECTRONIC DETECTION
8	24.0' Rt Sta "L1" 64+05.8	5874.68	5'-8"	5869.0	ELECTRONIC DETECTION
9	25.6' Rt Sta "L1" 65+62.2	5874.06	4'-6"	5869.6	ELECTRONIC DETECTION
10	29.8' Rt Sta "L1" 65+64.7	5873.26	3'-10"	5869.4	POTHOLING (VENT PIPE)

LAYOUT
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 NORTH REGION
 OFFICE OF DESIGN SOUTH
 DESIGN BRANCH S1
 Davinder Minhas
 Deann Spangler
 Deann Spangler
 Deann Spangler
 REVISIONS: 00-00-00 DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 14:26

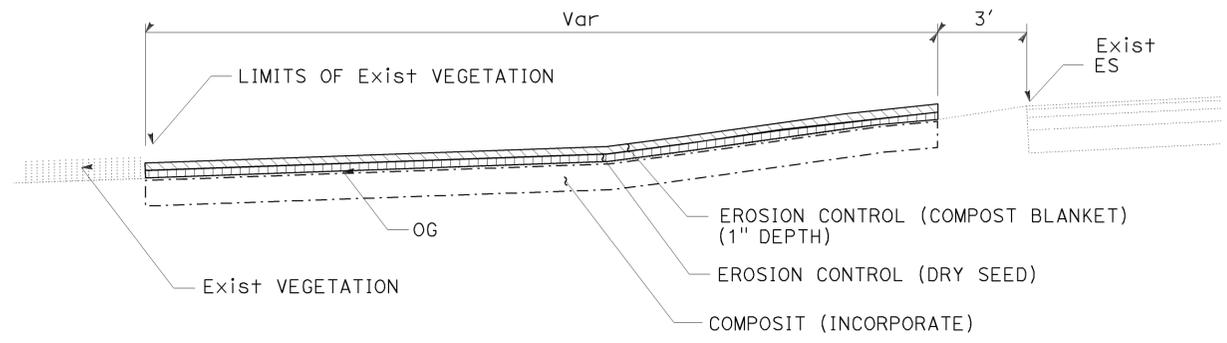
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	5	28


 LICENSED LANDSCAPE ARCHITECT
 12-19-11
 PLANS APPROVAL DATE

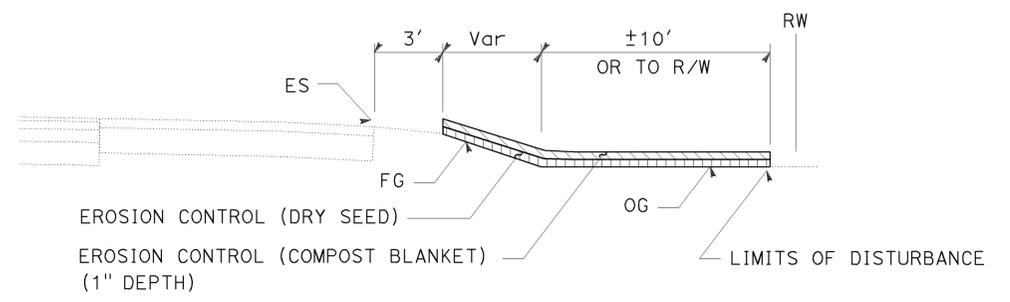


THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

- LEGEND**
-  - EROSION CONTROL (DRY SEED)
 -  - COMPOST, INCORPORATE
 -  - EROSION CONTROL (COMPOST BLANKET)



"L1" 64+18.0 TO 65+06.0 L+
 "L1" 65+29.0 TO 66+03.0 L+
 EROSION CONTROL DETAIL
 TYPICAL SECTION



"L1" 52+90.0 TO 74+88.0 R+
 EROSION CONTROL DETAIL
 TYPICAL SECTION

EROSION CONTROL QUANTITY TABLE

STATION	LOCATION	COMPOST (INCORPORATE)	EROSION CONTROL (DRY SEED)	EROSION CONTROL (COMPOST BLANKET)
		SQYD	SQFT	CY
"L1" 52+90.0 TO 74+88.0	R+		42,190	151
"L1" 64+18.0 TO 65+06.0	L+	316	2,847	10
"L1" 65+29.0 TO 66+03.0	L+	293	2,637	9
TOTAL		609	47,674	170

EROSION CONTROL DETAILS

NO SCALE

ECD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 T. CHRIS JOHNSON
 J. WILLIAMSON
 T. C. JOHNSON
 REVISIONS BY DATE
 CALCULATED/DESIGNED BY CHECKED BY
 USERNAME => s128589
 DGN FILE => 0300020154gf001.dgn
 BORDER LAST REVISED 7/2/2010

APPROVED FOR EROSION CONTROL WORK ONLY



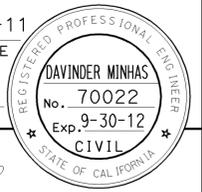
UNIT 0327

PROJECT NUMBER & PHASE

03000201541

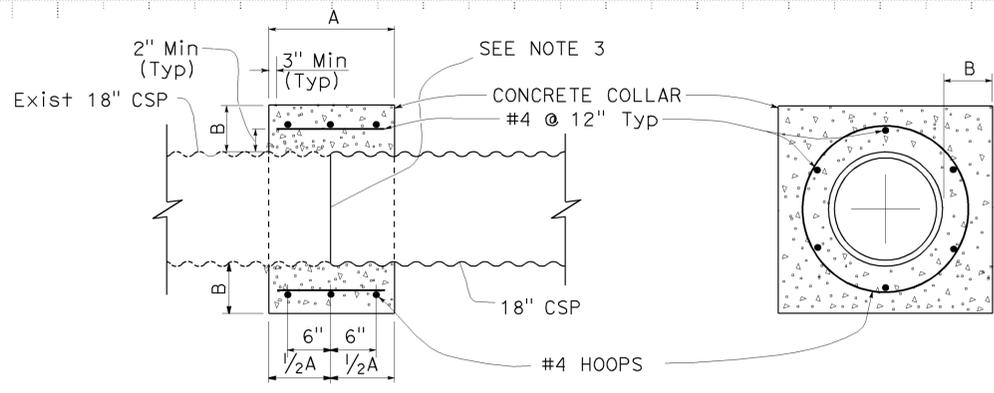
LAST REVISION | DATE PLOTTED => 22-FEB-2012
 00-00-00 | TIME PLOTTED => 1:4:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	6	28
Davinder Minhas 12-1-11 REGISTERED CIVIL ENGINEER DATE					
12-19-11 PLANS APPROVAL DATE					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

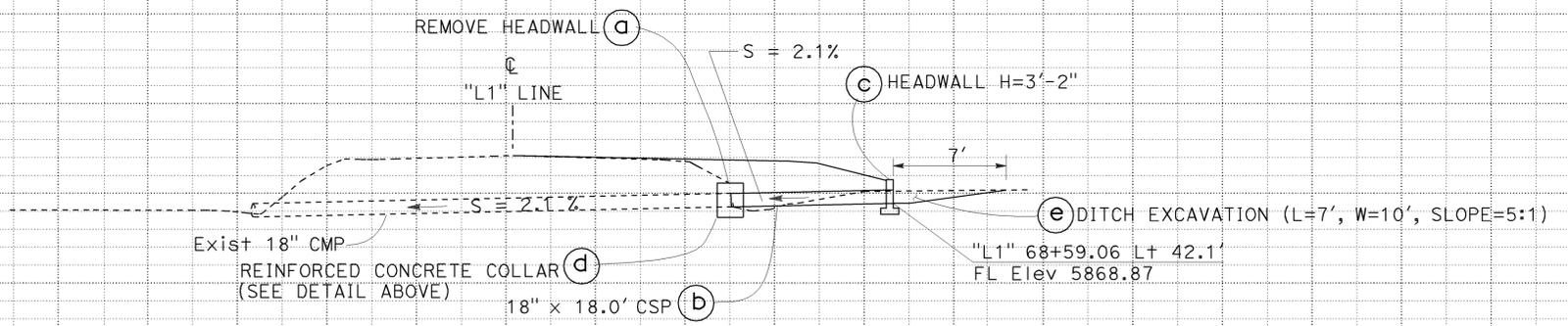


NOTES:

1. ALL X-SECTIONS SHOWN ALONG FLOWLINE.
2. PIPE EXTENSION SHALL BE POSITIONED TO PROVIDE FOR A SMOOTH TRANSITION AT THE PIPE FLOW LINE. INTERIOR FORM SHALL BE PLACED TO PREVENT CONCRETE INTRUSION INTO PIPE INTERIOR.
3. REMOVE 12" OF Exist CSP AT THE EXTENSION LOCATION IN ORDER TO ACHIEVE A SMOOTH EDGE, OR AS DIRECTED BY THE ENGINEER.



REINFORCED CONCRETE COLLAR
NO SCALE



DRAINAGE SYSTEM NO. 1
"L1"68+58

5880	5880
5875	5875
5870	5870
5865	5865
5860	5860

DRAINAGE DETAILS
SCALE: Horiz 1"=10'
Vert 1"=10'
DD-1

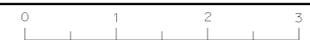
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DAVIDER MINHAS	REVISOR
NORTH REGION	DEANN SPANGLER	DATE
OFFICE OF DESIGN SOUTH		
DESIGN BRANCH S1		
FUNCTIONAL SUPERVISOR		
DESIGNED BY		
CHECKED BY		
STATION		
CY	Exc	
	Emb	
		TOTAL

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 NORTH REGION
 OFFICE OF DESIGN SOUTH
 DESIGN BRANCH S1

BORDER LAST REVISED 7/2/2010

USERNAME => s128589
 DGN FILE => 0300020154id001.dgn

RELATIVE BORDER SCALE
 IS IN INCHES



UNIT 0327

PROJECT NUMBER & PHASE 03000201541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	7	30

Davinder Minhas 12-1-11
 REGISTERED CIVIL ENGINEER DATE

12-19-11
 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.

DRAINAGE QUANTITIES

LAYOUT PLAN No.	DRAINAGE SYSTEM No. 	DRAINAGE UNIT 	REMOVE HEADWALL	18" CORRUGATED STEEL PIPE (0.109" THICK)	BAR REINFORCING STEEL (N)	MINOR CONCRETE (MINOR STRUCTURE)	DITCH EXCAVATION	DESCRIPTION	COMMENTS
			EA	LF	LB	CY	CY		
2	1	a	1					REMOVE HEADWALL	"L1" 68+58
		b		18				18" CSP	
		c			50	0.91		HEADWALL (H=3'-2")	"L1" 68+58
		d			25	0.34		REINFORCED CONCRETE COLLAR	
		e					5	DITCH EXCAVATION	
TOTAL			1	18	75	1.25	5		

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

DRAINAGE QUANTITIES

DQ-1

LAST REVISION | DATE PLOTTED => 22-FEB-2012
 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	267	0.4/1.2	8	28

Jeffrey Jewett 12-1-11
 REGISTERED CIVIL ENGINEER DATE

12-19-11
 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.

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

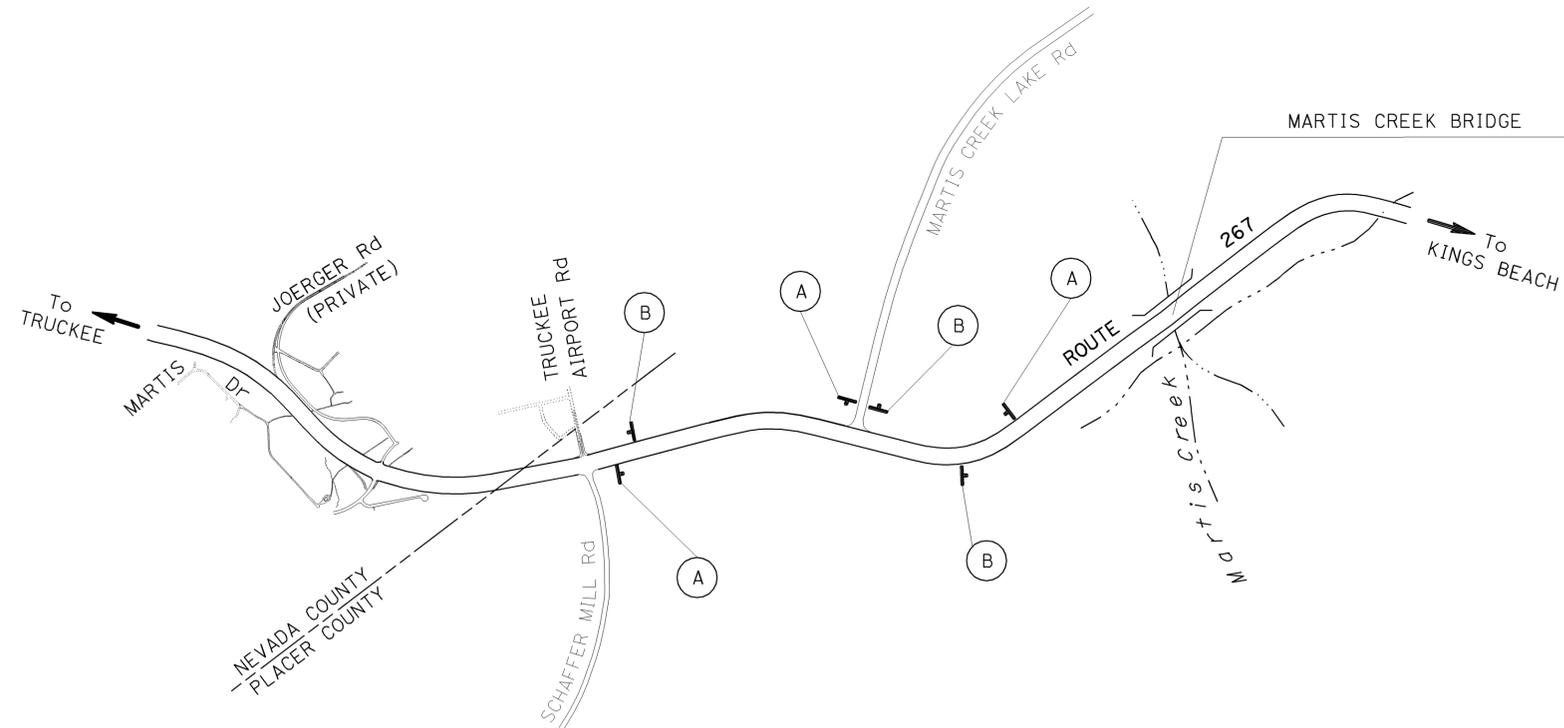
SIGN LETTER	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POST AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1	C23	48" X 48"	ROAD WORK AHEAD	1 - 6" x 6"	3
B	G20-2	C14	36" x 18"	END ROAD WORK	1 - 4" x 4"	3

NOTES:
 LOCATION OF CONSTRUCTION AREA SIGNS ARE APPROXIMATE.
 EXACT SIGN LOCATIONS WILL BE DETERMINED BY THE ENGINEER.



LEGEND

- (X) CONSTRUCTION AREA SIGN LETTER
- ┆ SIGN - SINGLE POST



CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

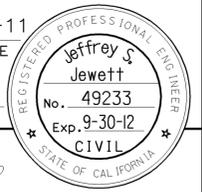
APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 FUNCTIONAL SUPERVISOR: SERGIO ACEVES
 TRAFFIC
 REVISIONS: Jeff Jewett (X)
 CALCULATED/DESIGNED BY: [Blank]
 CHECKED BY: [Blank]

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	9	28

12-1-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 PLANS APPROVAL DATE

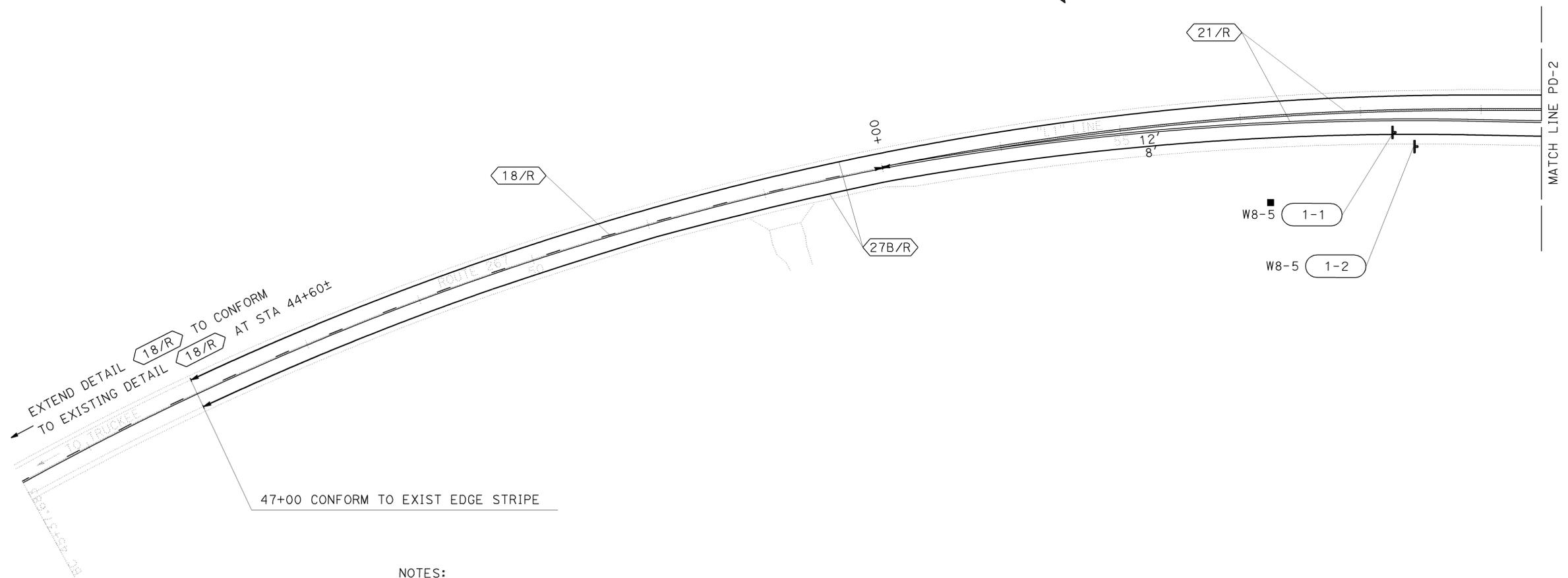
THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.



LEGEND

- CHANGE IN STRIPING PATTERN
- PAVEMENT DELINEATION DETAIL NUMBER
- TYPE III ARROW
- ROADSIDE SIGN NUMBER
- CALIFORNIA SIGN CODE
- SIGN - SINGLE POST
- SIGN - TWO POST
- REMOVE ROADSIDE SIGN
- RELOCATE ROADSIDE SIGN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	DESIGNED BY	REVISOR
TRAFFIC	SERGIO ACEVES	JEFF JEWETT	JEFF JEWETT
		CHECKED BY	DATE REVISED



EXTEND DETAIL 18/R TO CONFORM TO EXISTING DETAIL 18/R AT STA 44+60±
 47+00 CONFORM TO EXIST EDGE STRIPE

- NOTES:
- ALL LANES SHALL BE 12' WIDE UNLESS OTHERWISE SHOWN.
 - ALL EXISTING SIGNS NOT SHOWN FOR REMOVAL OR RELOCATION SHALL REMAIN IN PLACE.
 - ALL SIGN CODES SHOWN ARE FEDERAL SIGN CODES UNLESS OTHERWISE DESIGNATED AS CALIFORNIA SIGN CODES.

PAVEMENT DELINEATION AND SIGN PLAN

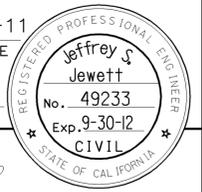
SCALE: 1"=50'

PD-1

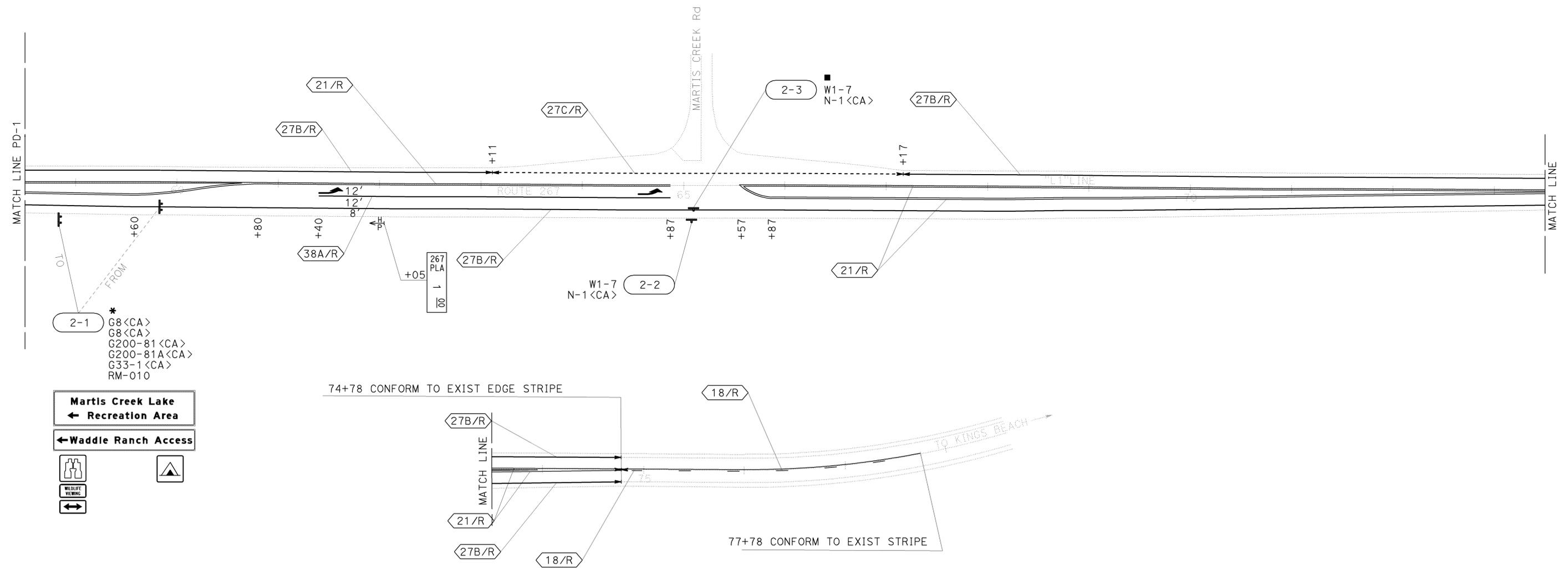
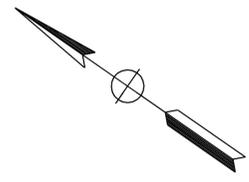
APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	10	28

REGISTERED CIVIL ENGINEER DATE 12-1-11
 PLANS APPROVAL DATE 12-19-11
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR
Caltrans	SERGIO ACEVES	JEFF JEWETT	JEFF JEWETT
TRAFFIC		CHECKED BY	DATE REVISED
		X	



- * 2-1
- G8 <CA>
- G8 <CA>
- G200-81 <CA>
- G200-81A <CA>
- G33-1 <CA>
- RM-010

Martis Creek Lake
 ← Recreation Area
 ← Waddle Ranch Access

PAVEMENT DELINEATION AND SIGN PLAN

SCALE: 1"=50'

PD-2

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

LAST REVISION | DATE PLOTTED => 22-FEB-2012
 11-14-11 | TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	11	28

12-1-11
 REGISTERED CIVIL ENGINEER DATE
 12-19-11
 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.



ROADSIDE SIGN QUANTITIES

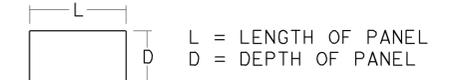
SIGN NUMBER (SHT-NO.)	SIGN CODE		PANEL SIZE INCHES	"C" DIM IN FEET	POST SIZE AND LENGTH				ROADSIDE SIGN	RELOCATE ROADSIDE SIGN	REMOVE ROADSIDE SIGN	REMARKS
	FEDERAL	CALIFORNIA			4"x4"	4"x6"	6"x6"	6"x8"	ONE POST EA	EA	EA	
1-1	W8-5	W42								1		
1-2	W8-5	W42	36 X 36	7		16'				1		
2-1	RM-010	G8 G8 G200-81 G200-81A G33-1 G200-38								1		
2-2	W1-7	W56 N-1	48 X 24 18 X 18	7		14'				1		
2-3	W1-7	W56 N-1									1	
TOTAL									2	1	2	

NOTES:

- EXACT LOCATION AND POSITION OF ROADSIDE SIGNS TO BE DETERMINED BY THE ENGINEER.
- POST LENGTHS GIVEN ARE APPROXIMATE.
- "C" DIM = VERTICAL CLEARANCE EP TO BOTTOM OF SIGN PANEL.

ROADSIDE SIGN PANEL QUANTITIES (CONTRACTOR-FURNISHED)

SIGN CODE	SIGN MESSAGE/DESCRIPTION	PANEL SIZE L x D	PANEL AREA SQFT	NUMBER OF PANELS	BACKGROUND		LEGEND		PROTECTIVE OVERLAY	FURNISH SINGLE SHEET ALUMINUM SIGN		
					SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	SHEETING COLOR	RETROREFLECTIVE ASTM TYPE	PREMIUM	UNFRAMED		
FEDERAL	CALIFORNIA	INCHES	SQFT							0.063"	0.080"	
W8-5		36 X 36	9.00	1	YELLOW	III	BLACK		X	9.00		
W1-7		48 X 24	12.00	1	YELLOW	III	BLACK		X		12.00	
	N-1	18 X 18	2.25	1	YELLOW	III			X	2.25		
TOTAL											11.25	12.00



PAVEMENT DELINEATION QUANTITIES, HIGHWAY POST MARKER

DETAIL NO.	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	4" THERMOPLASTIC TRAFFIC STRIPE (RECESSED, BROKEN 36-12)	8" THERMOPLASTIC TRAFFIC STRIPE (RECESSED)	TWO-COMPONENT PAINT PAVEMENT MARKING	HIGHWAY POST MARKER	DESCRIPTION/ COMMENTS
	LF	LF	LF	SQFT	EA	
18/R	1,140	1,140				
21/R	6,684					
27B/R	5,030					
38A/R			407			
				84		TYPE III (L) ARROW
					1	SHEET PD-2
TOTAL	12,854	1,140	407	84	1	

PAVEMENT DELINEATION AND SIGN QUANTITIES

PDQ-1

APPROVED FOR PAVEMENT DELINEATION AND SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Jeff Jewett
 REVISIONS: 11-14-11
 TRAFFIC
 SERGIO ACEVES
 FUNCTIONAL SUPERVISOR
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISOR
 DATE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 NORTH REGION
 OFFICE OF DESIGN SOUTH
 DESIGN BRANCH S1

FUNCTIONAL SUPERVISOR
 DEANN SPANGLER

CALCULATED/DESIGNED BY
 CHECKED BY

DAVINDER MINHAS
 DEANN SPANGLER

REVISED BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	12	30

Davinder Minhas 12-1-11
 REGISTERED CIVIL ENGINEER DATE

12-19-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DAVINDER MINHAS
 No. 70022
 Exp. 9-30-12
 CIVIL
 STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

STATION	ROADWAY EXCAVATION	(N) EMBANKMENT	HMA (TYPE A)	CLASS 2 AGGREGATE BASE	SHOULDER BACKING	COLD PLANE ASPHALT CONCRETE	TACK COAT
	CY	CY	TON	CY	TON	SQYD	TON
"L1" 47+00 TO "L1" 53+00			313			1067	1.00
"L1" 53+00 TO "L1" 74+78	1350	1260	1970	1396	190	2904	3.83
TOTAL	1350	1260	2283	1396	190	3971	4.83

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

FENCE QUANTITIES

STATION LIMITS	REMOVE FENCE	FENCE (TYPE BW, METAL POST)
	LF	LF
"L1" 52+55 TO "L1" 72+62 Rt	2037	2007
TOTAL	2037	2007

TEMPORARY WATER POLLUTION CONTROL

ITEM DESCRIPTION	Qty	UNIT
TEMPORARY FIBER ROLL	4360	LF
TEMPORARY CONSTRUCTION ENTRANCE/EXIT	1	EA
TEMPORARY COVER	680	SQYD

SUMMARY OF QUANTITIES

Q-1

LAST REVISION | DATE PLOTTED => 22-FEB-2012 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plac	267	0.4/1.2	13	30
R. P. Gill		12-1-11		REGISTERED ELECTRICAL ENGINEER DATE	
12-19-11		PLANS APPROVAL DATE			
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

PROJECT NOTES: (THIS SHEET ONLY)

- 1 Exist TYPE III-AF SERVICE EQUIPMENT ENCLOSURE. CT ID#03192670000240, 120/240 V.
 EXISTING LOAD: SIGNAL: 1100 W
 HAR: 40 W
 FB: 300 W
 LIGHTING: 800 W
 TMS: 500 W
 CMS: 3000 W

NEW LOAD ADDED: 2-200 W LUMINAIRES

- 2 Exist 2"C, 2#10, 3 dlc, 2#4, 1#4G.
- 3 Exist TELEPHONE VAULT.
- 4 Exist 2"C, 1 tc.
- 5 Exist 2"C, 2#4, 1#4G.
- 6 Exist SUBPANEL C (TYPE III-AF SERVICE EQUIPMENT ENCLOSURE, 120/240 V)

GENERAL NOTES:

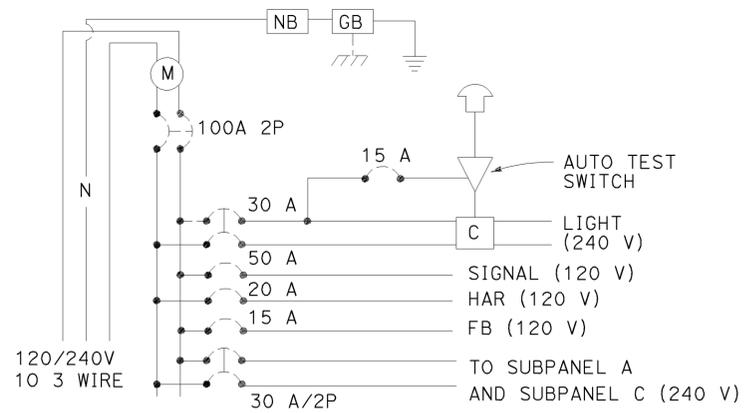
- 1. FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORDS AT DISTRICT OFFICE.
- 2. EXACT LOCATION AND ORIENTATION OF ELECTRICAL EQUIPMENT TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 3. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND PROTECT EXISTING UTILITIES DURING CONSTRUCTION.

ABBREVIATION:

CTID CALTRANS IDENTIFICATION
 tc EXISTING TELEPHONE CABLE

LEGEND:

— DBC — DIRECT BURIED CABLE 

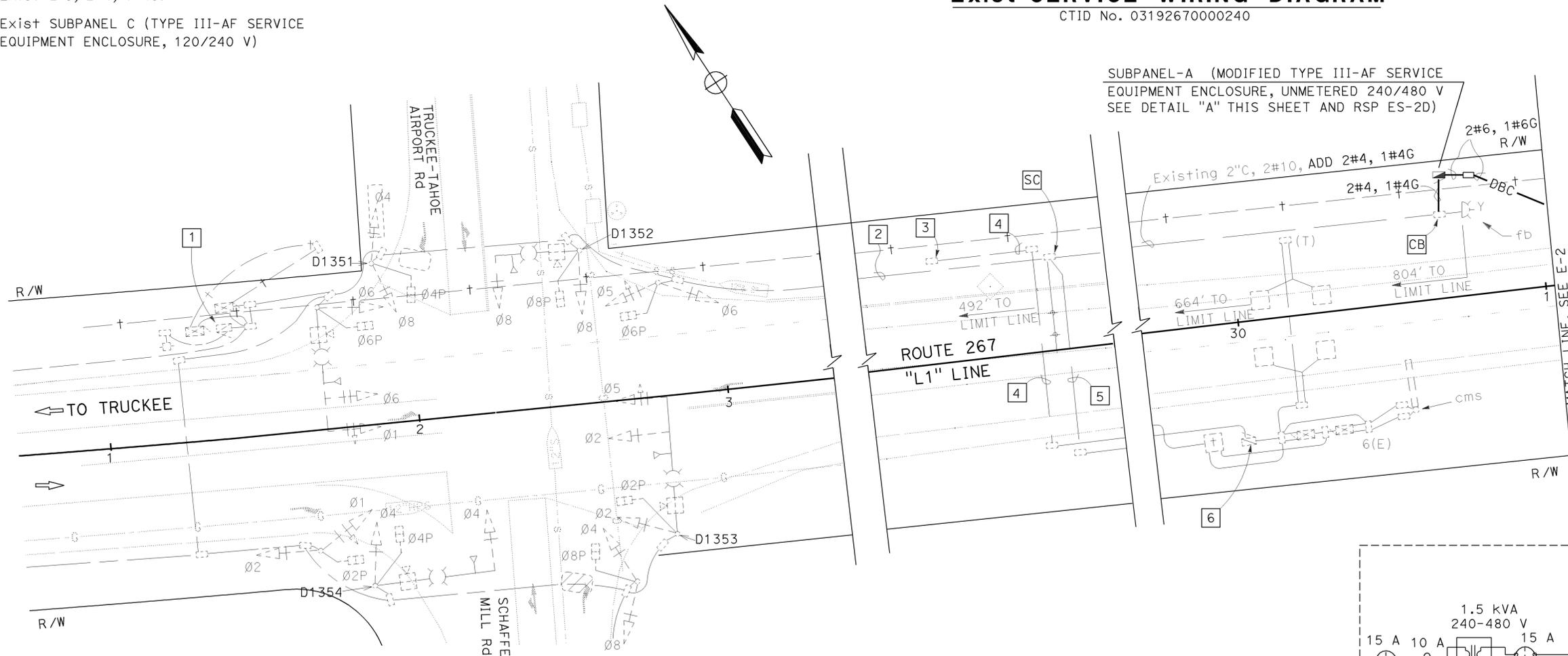


Exist SERVICE WIRING DIAGRAM

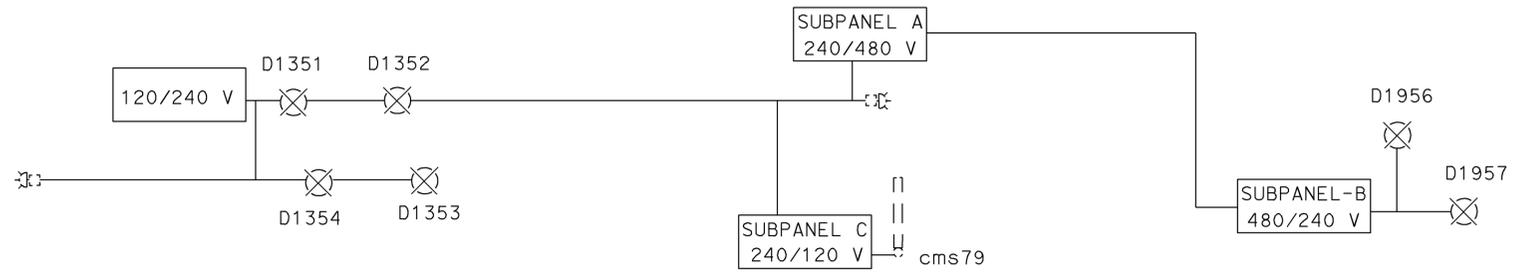
CTID No. 03192670000240

WIRING DIAGRAM LEGEND:

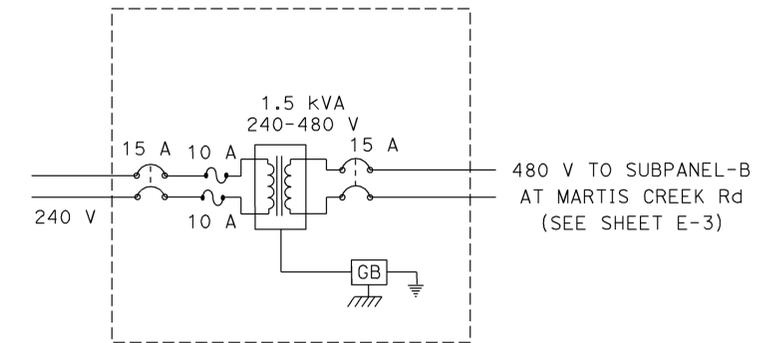
-  GB GROUND BUS
-  NB NEUTRAL BUS
-  M METER
-  C CONTACTOR
-  AUTO TEST SWITCH
-  PHOTOELECTRIC UNIT



SUBPANEL-A (MODIFIED TYPE III-AF SERVICE EQUIPMENT ENCLOSURE, UNMETERED 240/480 V SEE DETAIL "A" THIS SHEET AND RSP ES-2D)



WIRING DIAGRAM



DETAIL "A"
NO SCALE

LIGHTING

SCALE: 1" = 20'

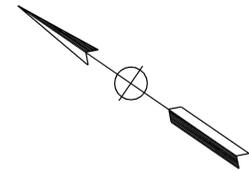
APPROVED FOR ELECTRICAL WORK ONLY

E-1

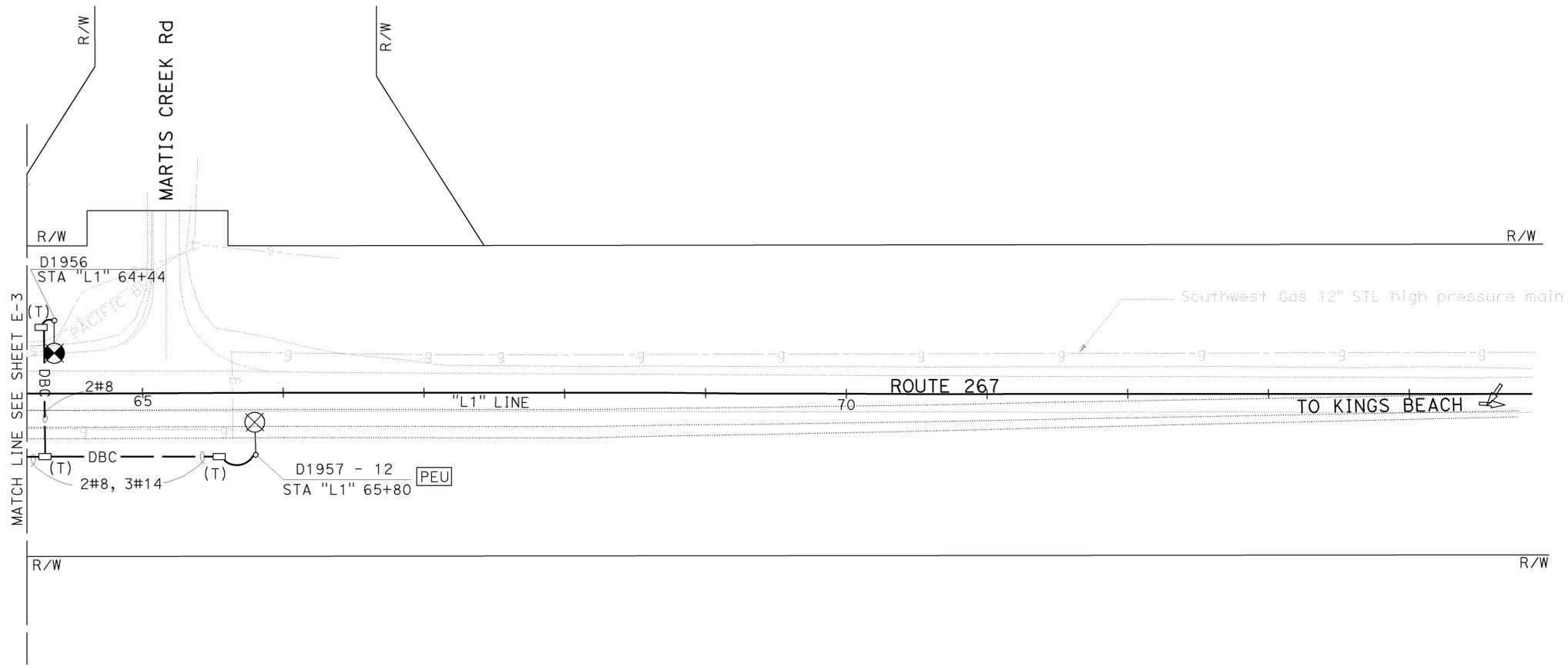
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - ELECTRICAL DESIGN
 ALT HASSANI RUPINDER PAL GILL
 REVISIONS: 00-00-00 DATE PLOTTED => 22-FEB-2012 TIME PLOTTED => 14:26



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Plā	267	0.4/1.2	16	30
		R. P. gill		12-1-11	
		REGISTERED ELECTRICAL ENGINEER		DATE	
		12-19-11		PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



NOTE:
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans ELECTRICAL DESIGN	STEVEN BLOCK	ALY HASSANI RUPINDER PAL GILL	ALY HASSANI RUPINDER PAL GILL	

LIGHTING
SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-4

LAST REVISION | DATE PLOTTED => 22-FEB-2012
00-00-00 | TIME PLOTTED => 14:26

ELECTROLIERS

STANDARD TYPES		
15, 15D		High mast light pole
15 STRUCTURE		Double Arm lighting standard
21, 21D STRUCTURE		Existing electrolier
30		Electrolier foundation (Future installation)
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
03	Pla	267	0.4/1.2	18	30

Jeffrey G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 12-19-11

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
03	Pla	267	0.4/1.2	19	30

Jeffrey G. McRae
 REGISTERED ELECTRICAL ENGINEER
 October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated 12-19-11

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

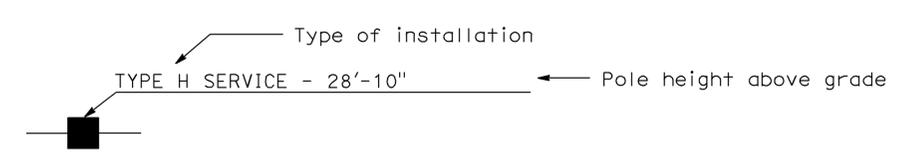
SIGNAL EQUIPMENT

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 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	
---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

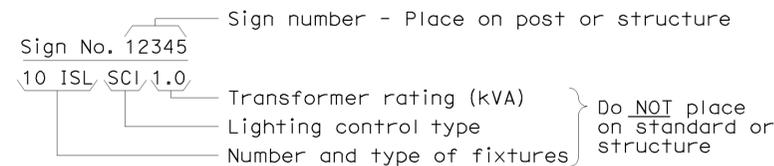
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

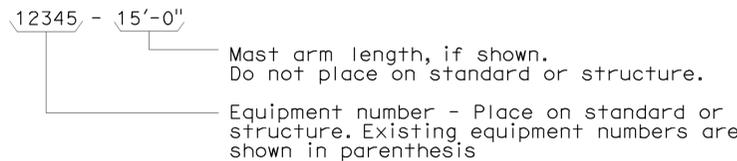
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

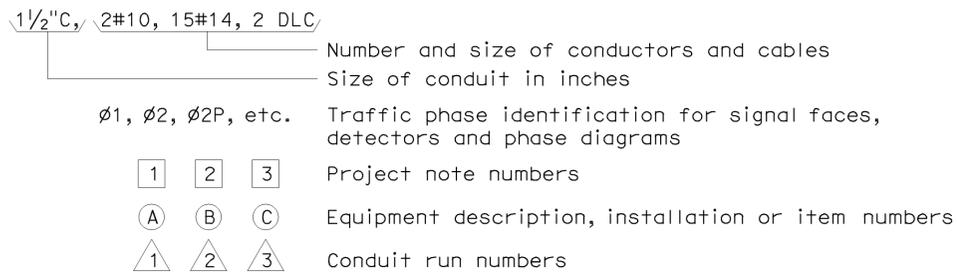
ILLUMINATED SIGN IDENTIFICATION NUMBER:



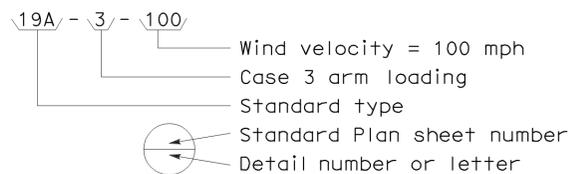
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



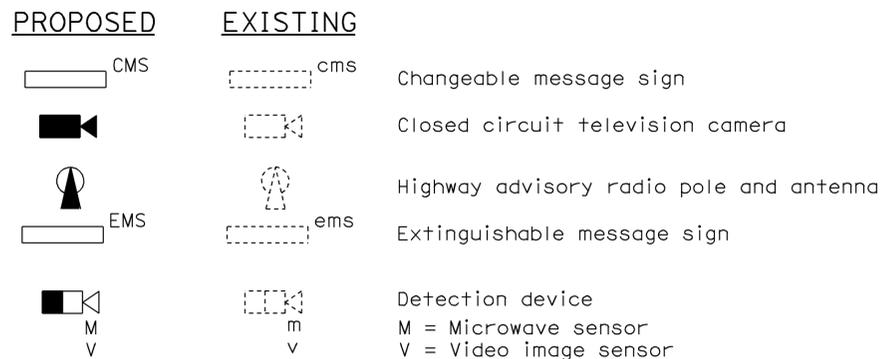
CONDUIT AND CONDUCTOR IDENTIFICATION:



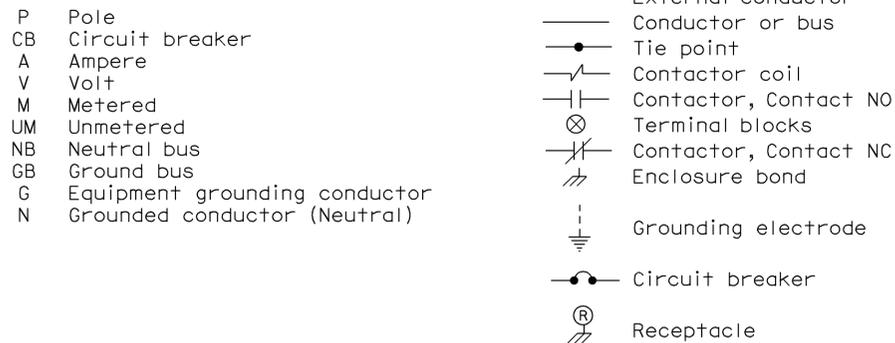
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



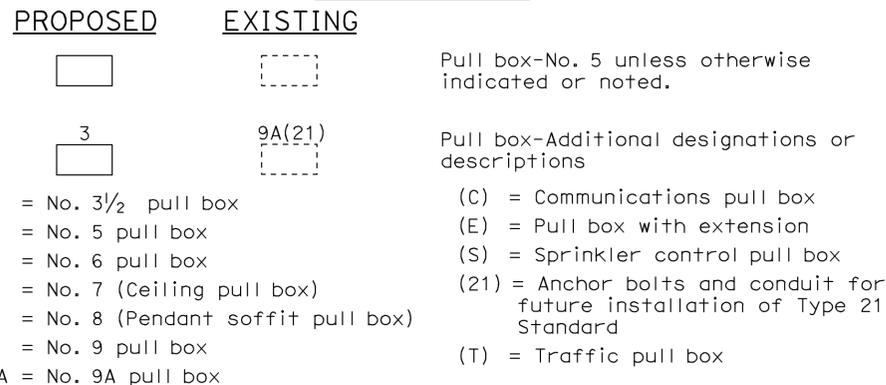
MISCELLANEOUS EQUIPMENT



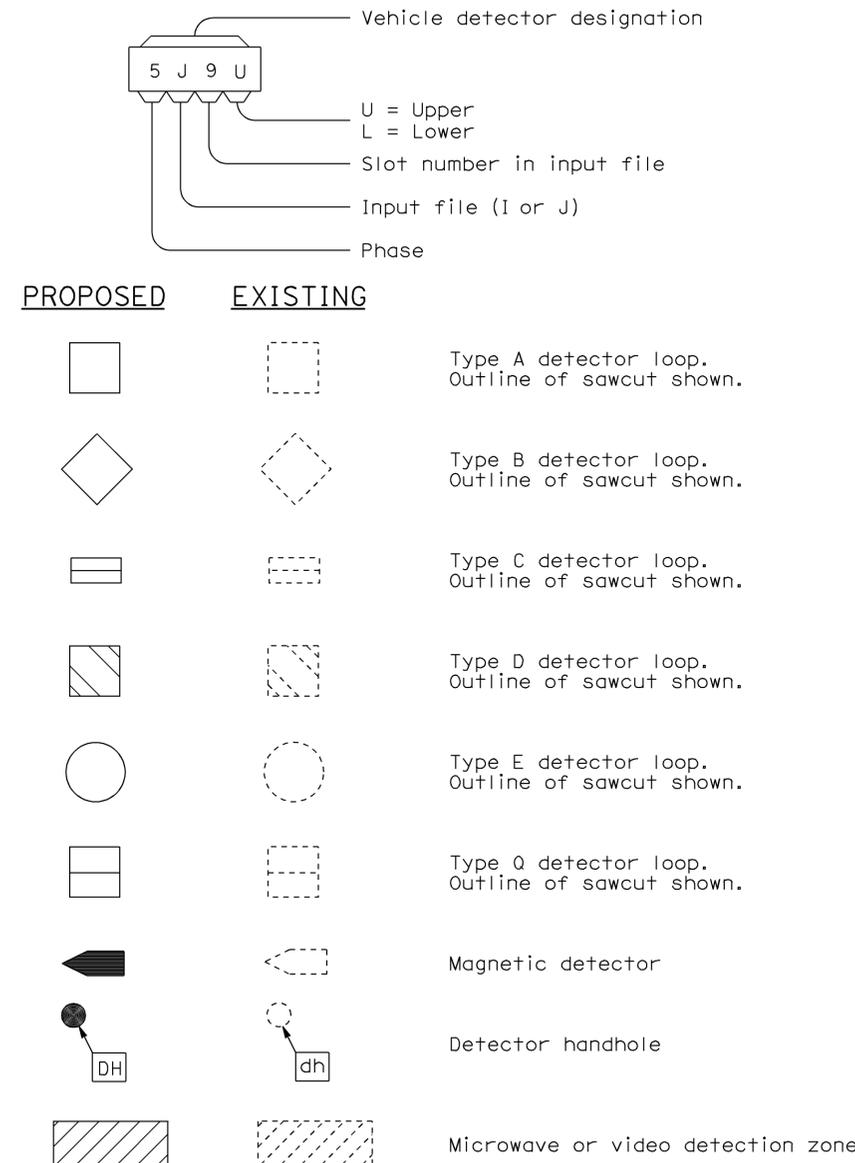
WIRING DIAGRAM LEGEND



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.

REVISED STANDARD PLAN RSP ES-1C

2006 REVISED STANDARD PLAN RSP ES-1C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2	21	30

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.

NOTES-TYPE III SERVICE EQUIPMENT ENCLOSURES:

1. Service equipment enclosure and metering equipment shall meet the requirements of the service utility. The meter area shall have a sealable, lockable, weathertight cover that can be removed without the use of tools.
2. Service equipment enclosures shall be factory wired and conform to NEMA standards.
3. Dimensions of service equipment enclosures shall meet the requirements of the service utility.
4. The dead front panels on Type III service equipment enclosures shall have a continuous stainless steel or aluminum piano hinge. The panel in front of the breakers shall be secured with a latch or captive screws. No live parts shall be mounted on the dead front panel.
5. The exterior door shall have provisions for padlocking. The padlock hole shall be a minimum diameter of $\frac{7}{16}$ ".
6. Enclosures housing transformers of more than one kVA shall have effective screened ventilation louver of not less than 50 square inches. Screen shall be stainless steel No. 304, with a No. 10 size mesh. Framed screen shall be secured with at least four bolts.
7. Fasteners on the exterior of the enclosure shall be vandal-resistant and shall not be removable from the exterior. Exterior screws, nuts, bolts and washers shall be stainless steel.
8. Landing lugs for incoming service conductors shall be compatible with either copper or aluminum conductors sized to suit the conductors shown on the plan. Landing lugs shall be copper or tin-plated aluminum. Neutral bus shall be rated for 125 A and be suitable for copper or aluminum conductors unless otherwise specified. The terminal shall include but not be limited to:
 - a) Incoming terminals (landing lugs)
 - b) Neutral lugs
 - c) Solid neutral terminal strip
9. At least 6 standard single pole circuit breaker spaces, $\frac{3}{4}$ " nominal, shall be provided for branch circuits. Circuit breaker interiors shall be copper. Interiors of enclosure shall accept plug-in or cable-in/cable-out circuit breakers.
10. Control wiring shall be 600 V, 14 stranded machine tool wire. Where subject to flexing, 19 strand wire shall be used.
11. Main bus shall be rated for 125 A and shall be tin-plated copper.
12. A plastic laminated wiring diagram shall be provided with brass mounting eyelets and attached to the inside of the enclosure and the wiring diagram shall be affixed to the interior with a UL or ETL approved method.

13. An engraved phenolic nameplate on the dead front panel indicating the function of each circuit or device shall be installed with stainless steel rivets or stainless steel screws:
 - a) Adjacent to the breaker or device with character size a minimum of $\frac{1}{8}$ ".
 - b) At the top of the exterior door panel indicating State system number, voltage level and number of phases with character size a minimum of $\frac{3}{16}$ ".
14. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.
15. In unpaved areas a raised portland cement concrete pad 2'-0" x 4" x width of foundation shall be constructed in front of new service equipment enclosure installation. Pad shall be set to elevation of foundation.
16. Foundation shall extend 2" minimum beyond edge of service equipment enclosure.
17. Internal bus, where shown, is typical only. Alternative design of proposed service equipment enclosure shall be submitted to the Engineer for approval.
18. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.
19. Type III-AF and Type III-BF service equipment enclosures shall have the meter viewing windows located on the front side of the service equipment enclosures.
20. Type III-AR and Type III-BR service equipment enclosures shall be similarly constructed as Type III-AF and Type III-BF respectively, except the meter viewing windows shall be located on the back side of the service equipment enclosures.
21. Minimum clearance shall be required for front and back of service equipment enclosure per National Electrical Code, Article 110.26, "Spaces About Electric Equipment (600 Volts, Nominal, or Less)."

To accompany plans dated 12-19-11

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT NOTES
 TYPE III SERIES)**

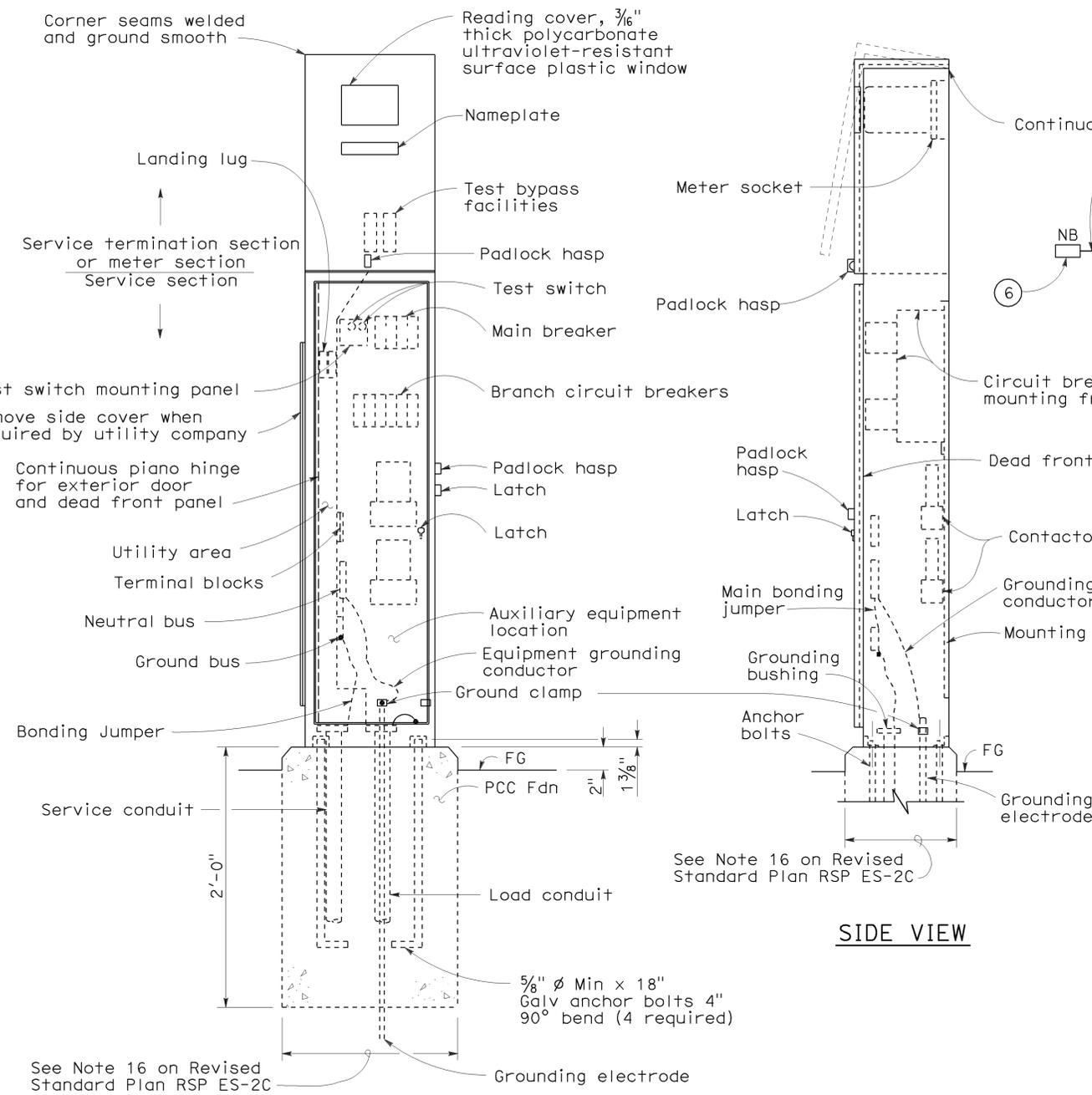
NO SCALE

RSP ES-2C DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2C
 DATED MAY 1, 2006 - PAGE 405 OF THE STANDARD PLANS BOOK DATED MAY 2006.

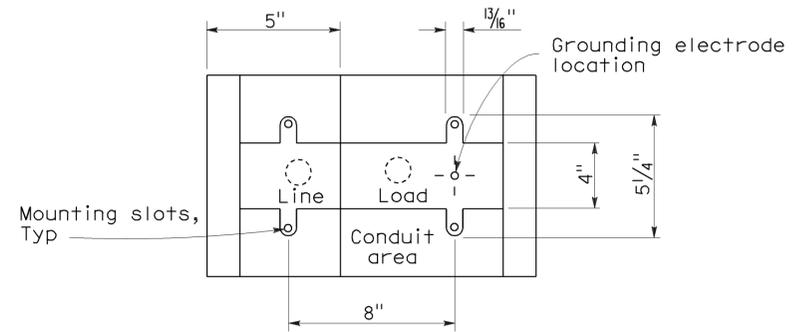
REVISED STANDARD PLAN RSP ES-2C

2006 REVISED STANDARD PLAN RSP ES-2C

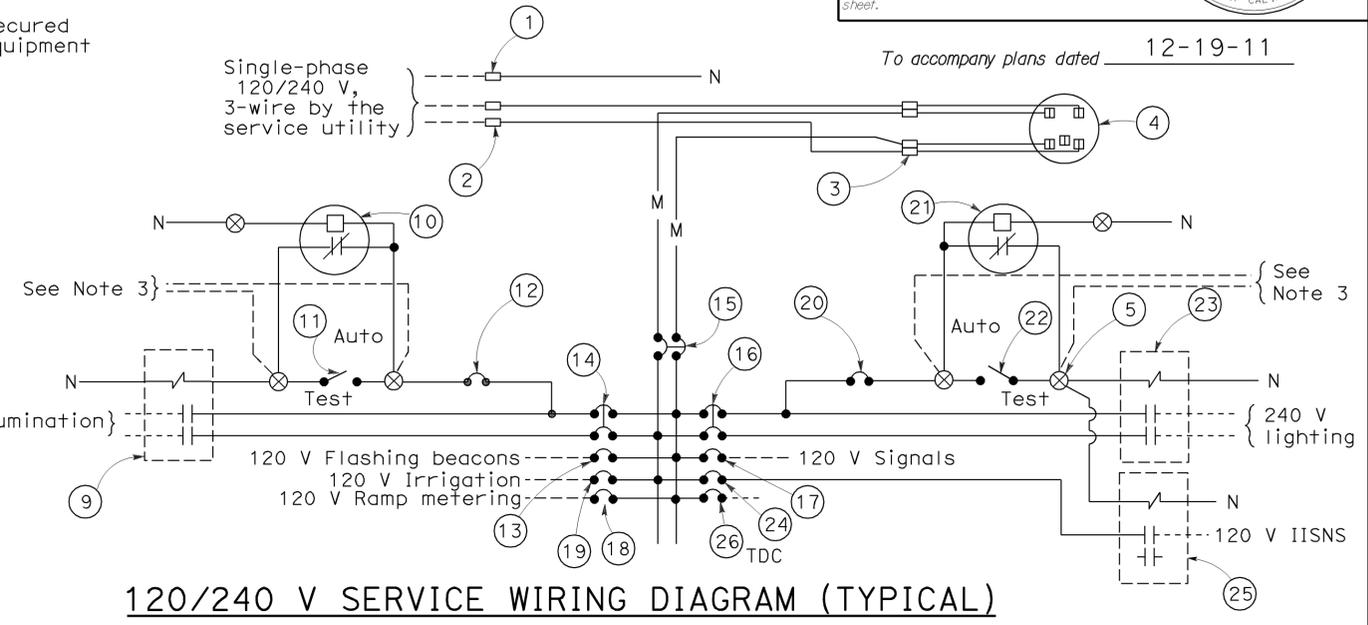
2006 REVISED STANDARD PLAN RSP ES-2D



TYPE III-AF SERVICE EQUIPMENT ENCLOSURE (TYPICAL)



BASE FOR TYPE III-A SERVICE EQUIPMENT ENCLOSURE



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

TYPE III-A SERVICE (120/240 V) EQUIPMENT LEGEND					
ITEM No.	COMPONENT	NAME PLATE DESCRIPTION	ITEM No.	COMPONENT	NAME PLATE DESCRIPTION
1	Neutral lug		14	30 A, 240 V, 2P, CB	Sign Illumination
2	Landing lug (Note 6)		15	100 A, 240 V, 2P, CB	Main Breaker
3	Test bypass facility		16	30 A, 240 V, 2P, CB	Lighting
4	Meter socket and support		17	50 A, 120 V, 1P, CB	Signals
5	Terminal blocks		18	30 A, 120 V, 1P, CB	Ramp Metering
6	Neutral bus		19	20 A, 120 V, 1P, CB	Irrigation
7	Ground bus		20	15 A, 120 V, 1P, CB	Lighting Control
8	Grounding electrode		21	Photoelectric unit (Note 7)	
9	30 A, 2PNO Contactor	Sign Illumination	22	15 A, 1P, Test switch	Lighting Test Switch
10	Photoelectric unit (Note 7)		23	60 A, 2PNO Contactor	Lighting
11	15 A, 1P, Test switch	Sign Illumination Test Switch	24	15 A, 120 V, 1P, CB	IISNS
12	15 A, 120 V, 1P, CB	Sign Illumination Control	25	30 A, 2PNO Contactor	IISNS
13	15 A, 120 V, 1P, CB	Flashing Beacon	26	20 A, 120 V, 1P, CB	Telephone Demarcation Cabinet

NOTES: (FOR SERVICE EQUIPMENT ENCLOSURE)

- Voltage ratings of service equipment shall conform to the service voltages indicated on the plans.
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
- Connect to remote test switch mounted on lighting standards, sign post or structure when required.
- Items No. 1 and 6 shall be isolated from the service equipment enclosure.
- Meter sockets shall be 5 clip type.
- The landing lug shall be suitable for multiple conductors.
- Type I photoelectric control shall be used unless otherwise indicated on the plans.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT AND
 TYPICAL WIRING DIAGRAM,
 TYPE III-A SERIES)**

NO SCALE

RSP ES-2D DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-2D DATED MAY 1, 2006 - PAGE 406 OF THE STANDARD PLANS BOOK DATED MAY 2006.



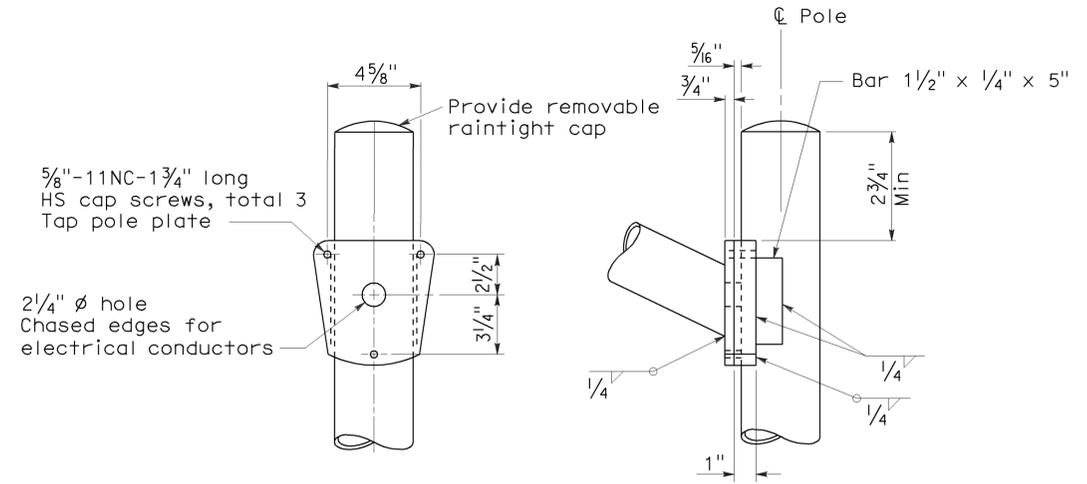
 Stanley P. Johnson
 REGISTERED CIVIL ENGINEER
 January 18, 2008
 PLANS APPROVAL DATE
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To accompany plans dated 12-19-11

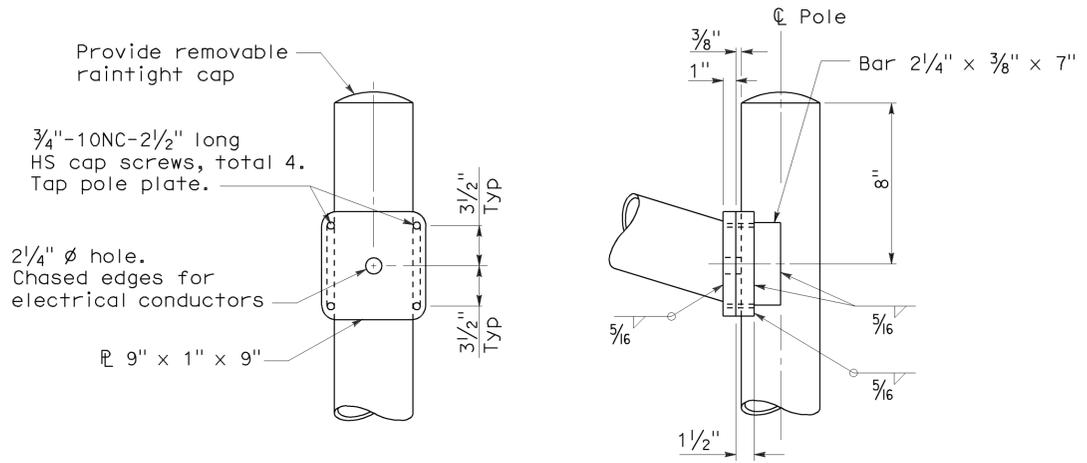
LUMINAIRE ARM DATA

PROJECTED LENGTH	THICKNESS	MINIMUM OD @ POLE	MOUNTING HEIGHT
* 6'-0"	0.1196"	3 1/4"	36'-9"±
8'-0"		3 1/2"	37'-3"±
10'-0"		3 3/4"	38'-0"±
12'-0"		3 3/4"	39'-0"±
15'-0"		4 1/4"	39'-6"±
** 20'-0"	0.1793"	5"	37'-0"±

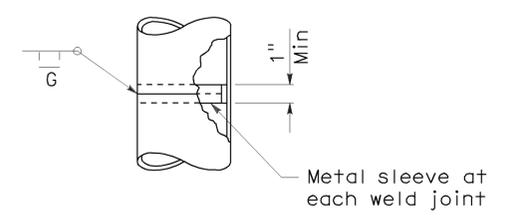
* Type 30 - arm length 6'-0" - 15'-0" maximum
 ** Type 31 - arm lengths 20'-0"



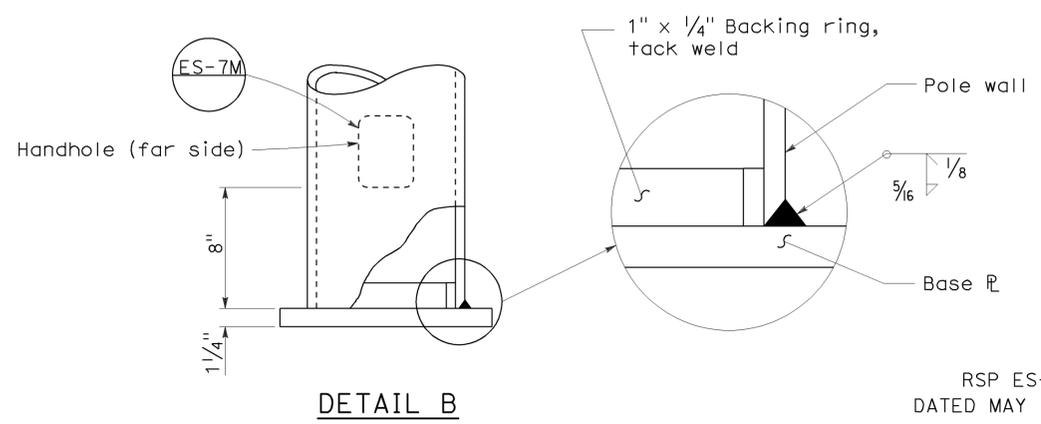
DETAIL A - TYPE 30



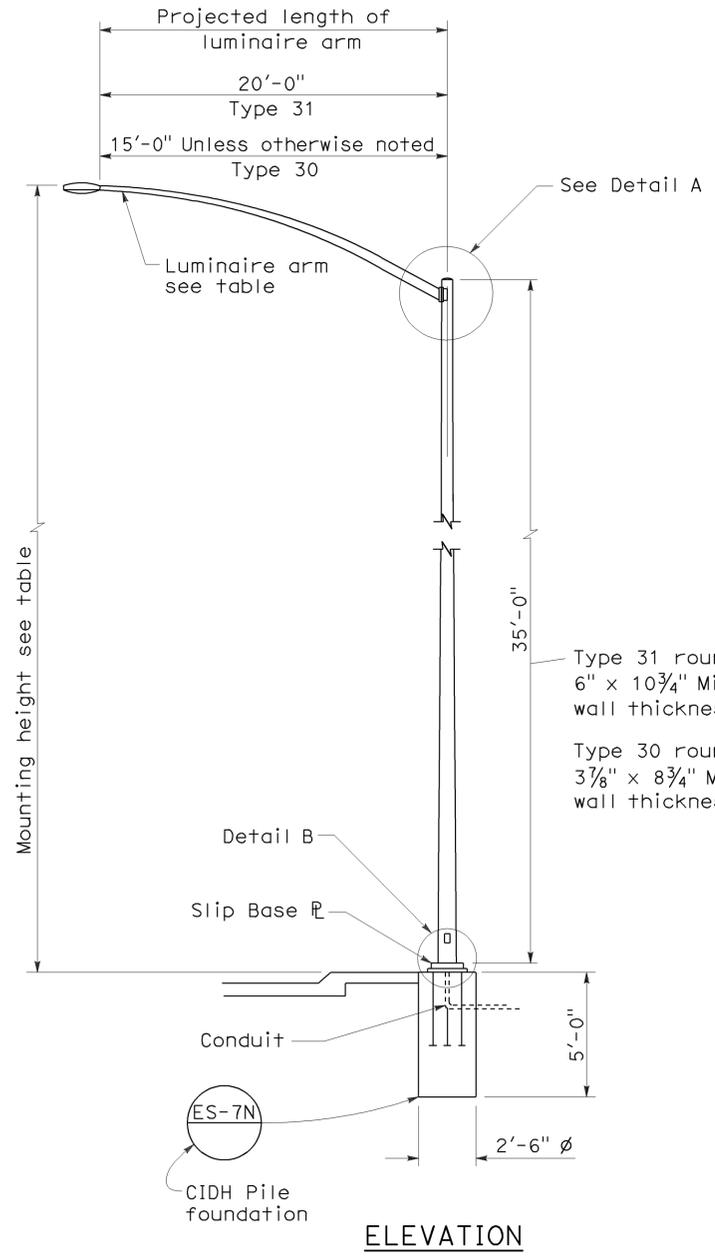
DETAIL A - TYPE 31



POLE SPLICE



DETAIL B



ELEVATION

NOTES:

- Sheet steel shall have a minimum yield of 48,000 psi.
- For slip base details see Standard Plan ES-6F.
- For Type 30 fixed base use Type 15 base plate, and foundation shown on Revised Standard Plan RSP ES-6A. Use 1 1/4 inch Dia x 3'-6 inch x 4 inch anchor bolts.
- For Type 31 fixed base use Type 32 base plate, anchor bolts and foundation on Standard Plan ES-6G.
- Handhole shall be located on downstream side of traffic unless noted otherwise on plans.
- For additional general notes refer to Standard Plan ES-7M.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (LIGHTING STANDARD
 TYPES 30 AND 31)**
 NO SCALE

RSP ES-6E DATED JANUARY 18, 2008 SUPERCEDES STANDARD PLAN ES-6E
 DATED MAY 1, 2006 - PAGE 430 OF THE STANDARD PLANS BOOK DATED MAY 2006.

2006 REVISED STANDARD PLAN RSP ES-6E



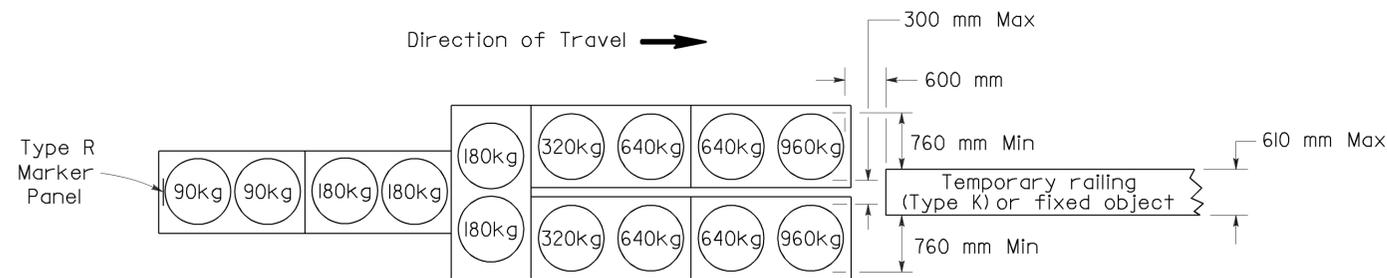
DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2		24	30

RANDALL D. HIATT
 REGISTERED CIVIL ENGINEER
 No. C50200
 Exp. 6-30-09
 CIVIL
 STATE OF CALIFORNIA

June 6, 2008
 PLANS APPROVAL DATE

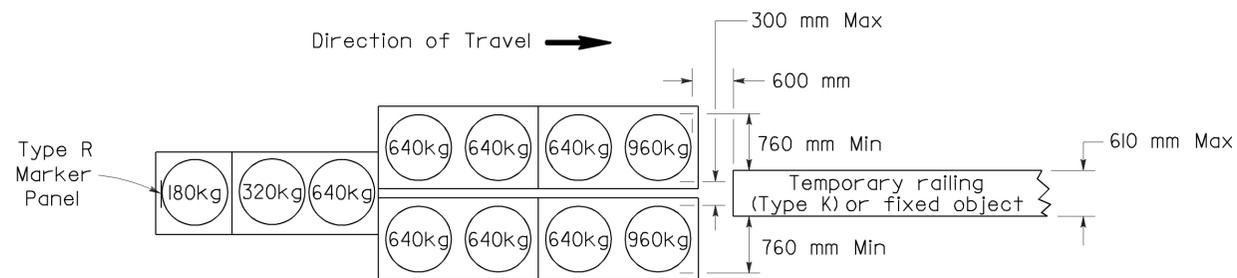
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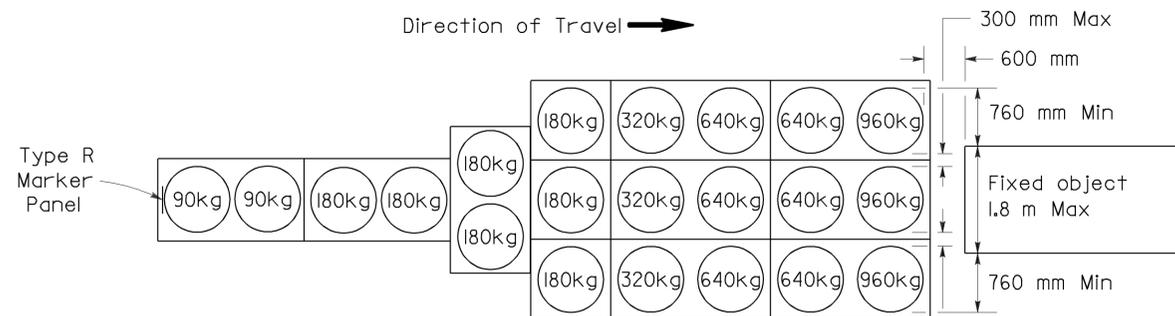
Direction of Travel →

ARRAY 'TUI4'
Approach speed 70 km/h or more



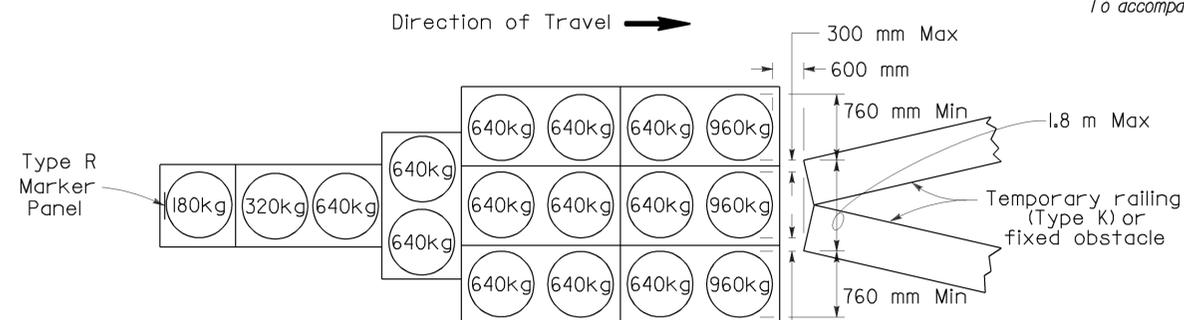
Direction of Travel →

ARRAY 'TUI1'
Approach speed less than 70 km/h



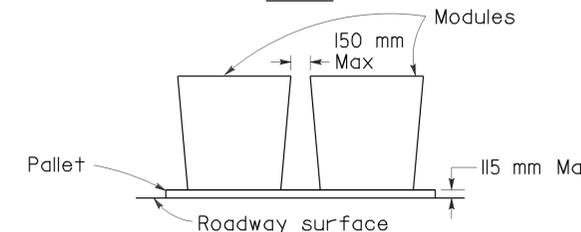
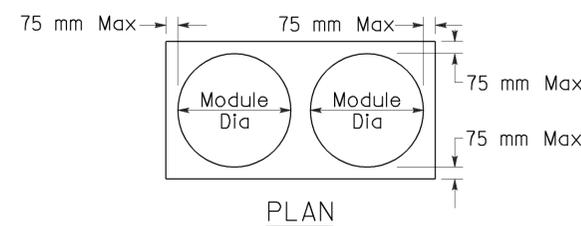
Direction of Travel →

ARRAY 'TU21'
Approach speed 70 km/h or more



Direction of Travel →

ARRAY 'TUI7'
Approach speed less than 70 km/h



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES

- (XXX) Indicates sand filled module location and mass of sand in kilograms for each module. Module spacing is based on the greater diameter of the module.
- All sand masses are nominal.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Place the top of Type R marker panel 25 mm 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
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A
DATED July 1, 2004 - PAGE 211 OF THE STANDARD PLANS BOOK DATED July 2004.

REVISED STANDARD PLAN RSP T1A

2004 REVISED Std PLAN RSP T1A



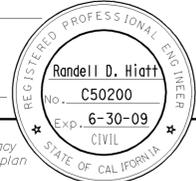
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2	25	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

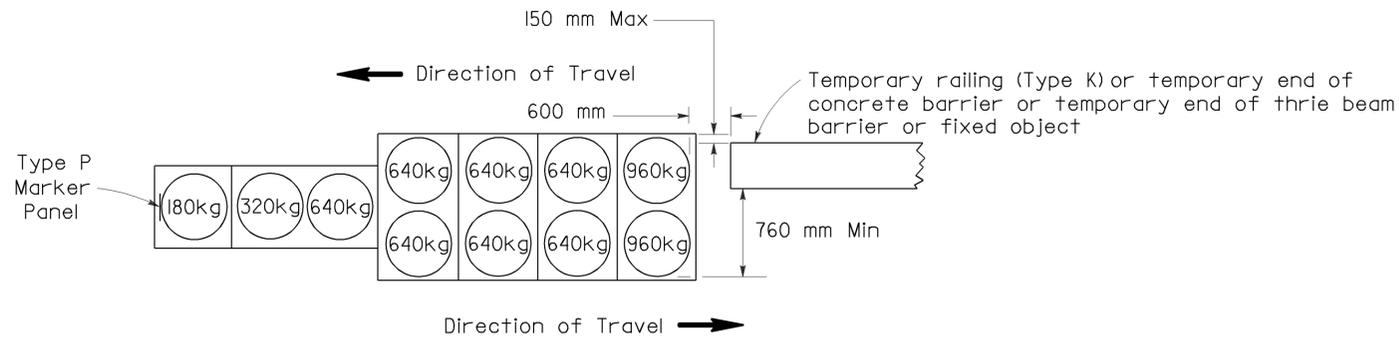
June 6, 2008
PLANS APPROVAL DATE

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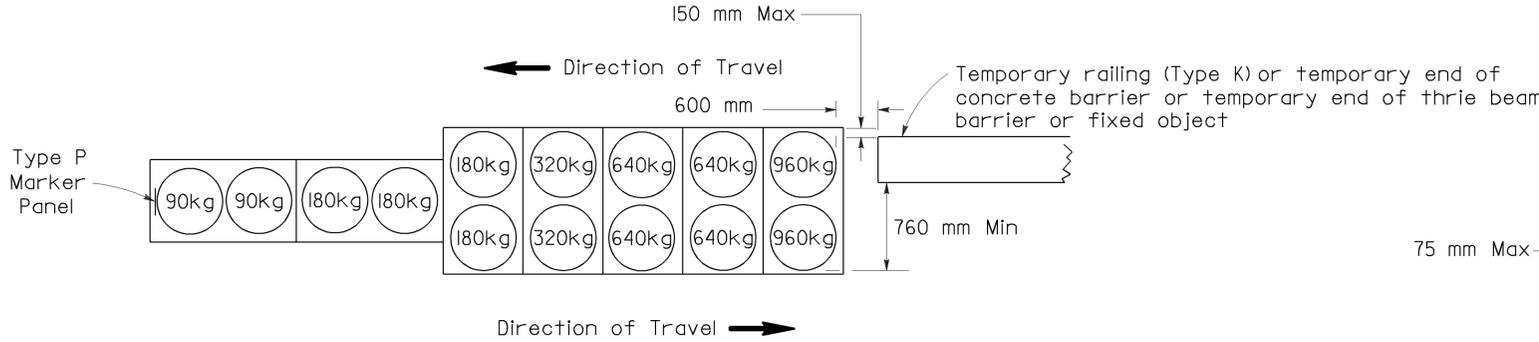


To accompany plans dated 12-19-11



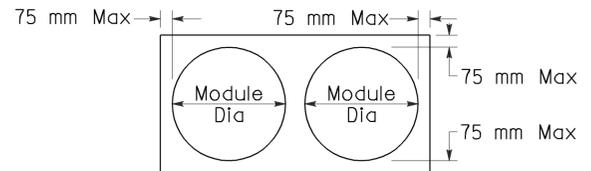
ARRAY 'TBI1'

Approach speed less than 70 km/h

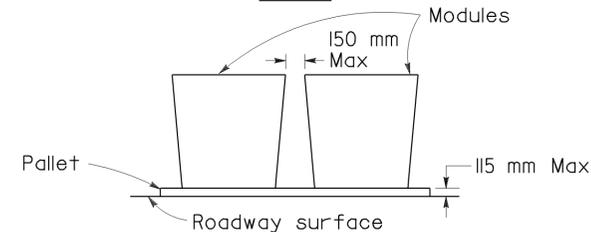


ARRAY 'TBI4'

Approach speed 70 km/h or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES

1. (XXX) Indicates sand filled module location and mass of sand in kilograms for each module. Module spacing is based on the greater diameter of the module.
2. All sand masses 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

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B DATED July 1, 2004 - PAGE 212 OF THE STANDARD PLANS BOOK DATED July 2004.

REVISED STANDARD PLAN RSP T1B

2004 REVISED Std PLAN RSP T1B

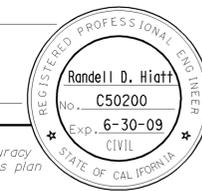


DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2	26	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

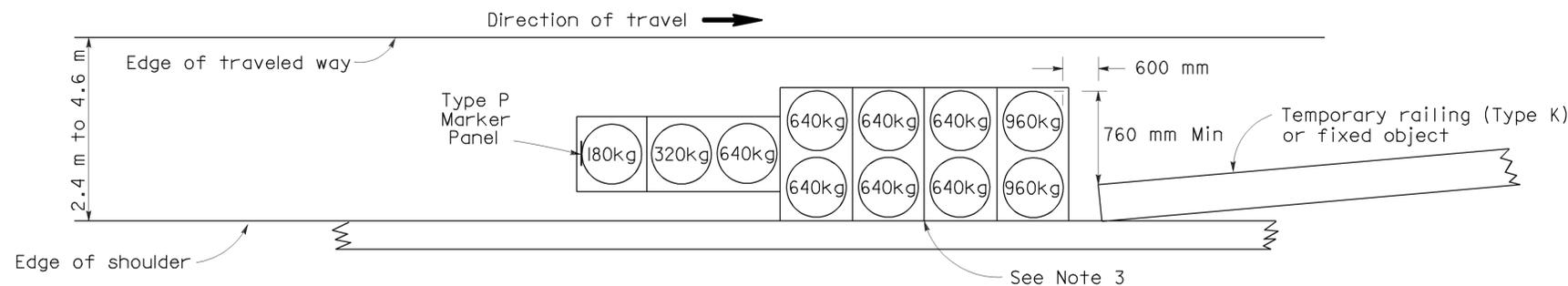
June 6, 2008
PLANS APPROVAL DATE

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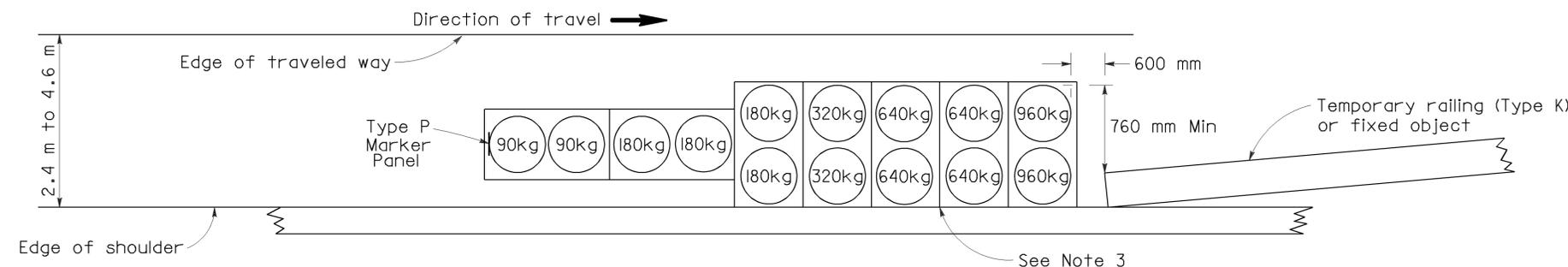
To get to the Caltrans web site, go to: <http://www.dot.ca.gov>

To accompany plans dated 12-19-11



ARRAY 'TSII'

Approach speed less than 70 km/h
See Note 9

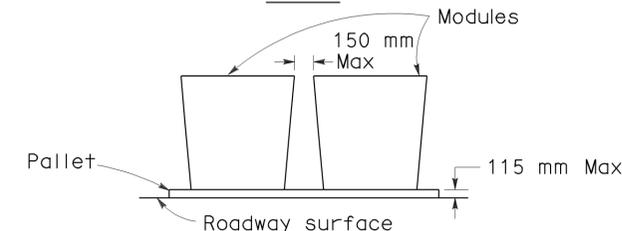
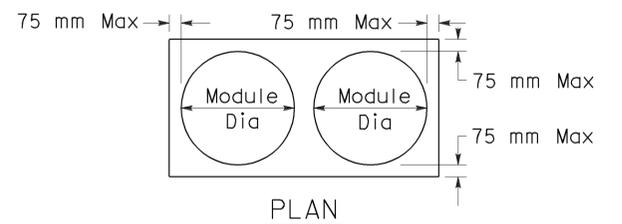


ARRAY 'TSI4'

Approach speed 70 km/h or more
See Note 9

NOTES

- (XXX) Indicates sand filled module location and mass of sand in kilograms for each module. Module spacing is based on the greater diameter of the module.
- All sand masses 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 4.60 meters from the edge of traveled way, a temporary crash cushion is required.
- 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 rest upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 2.4 m, 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.



CRASH CUSHION PALLET DETAIL

See Note 11

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

NO SCALE
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED July 1, 2004 - PAGE 213 OF THE STANDARD PLANS BOOK DATED July 2004.

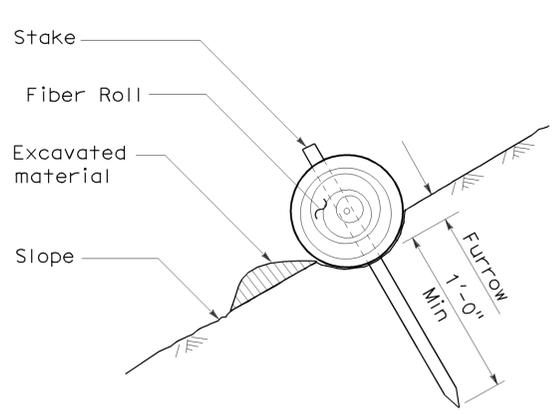
REVISED STANDARD PLAN RSP T2

2004 REVISED Std PLAN RSP T2

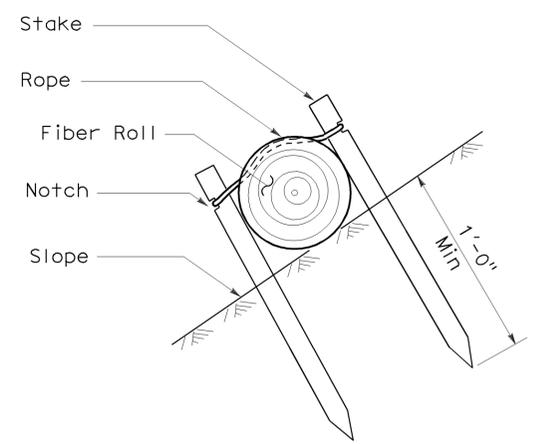
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2	27	30

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
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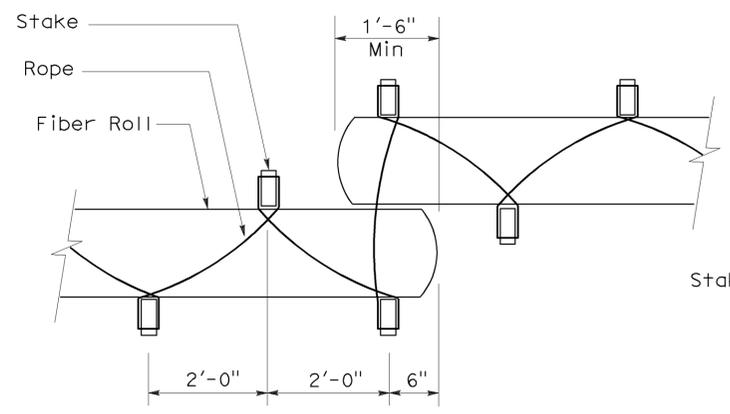
To accompany plans dated 12-19-11



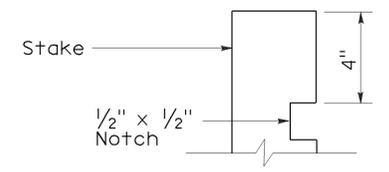
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



SECTION
TEMPORARY FIBER ROLL
(TYPE 2)



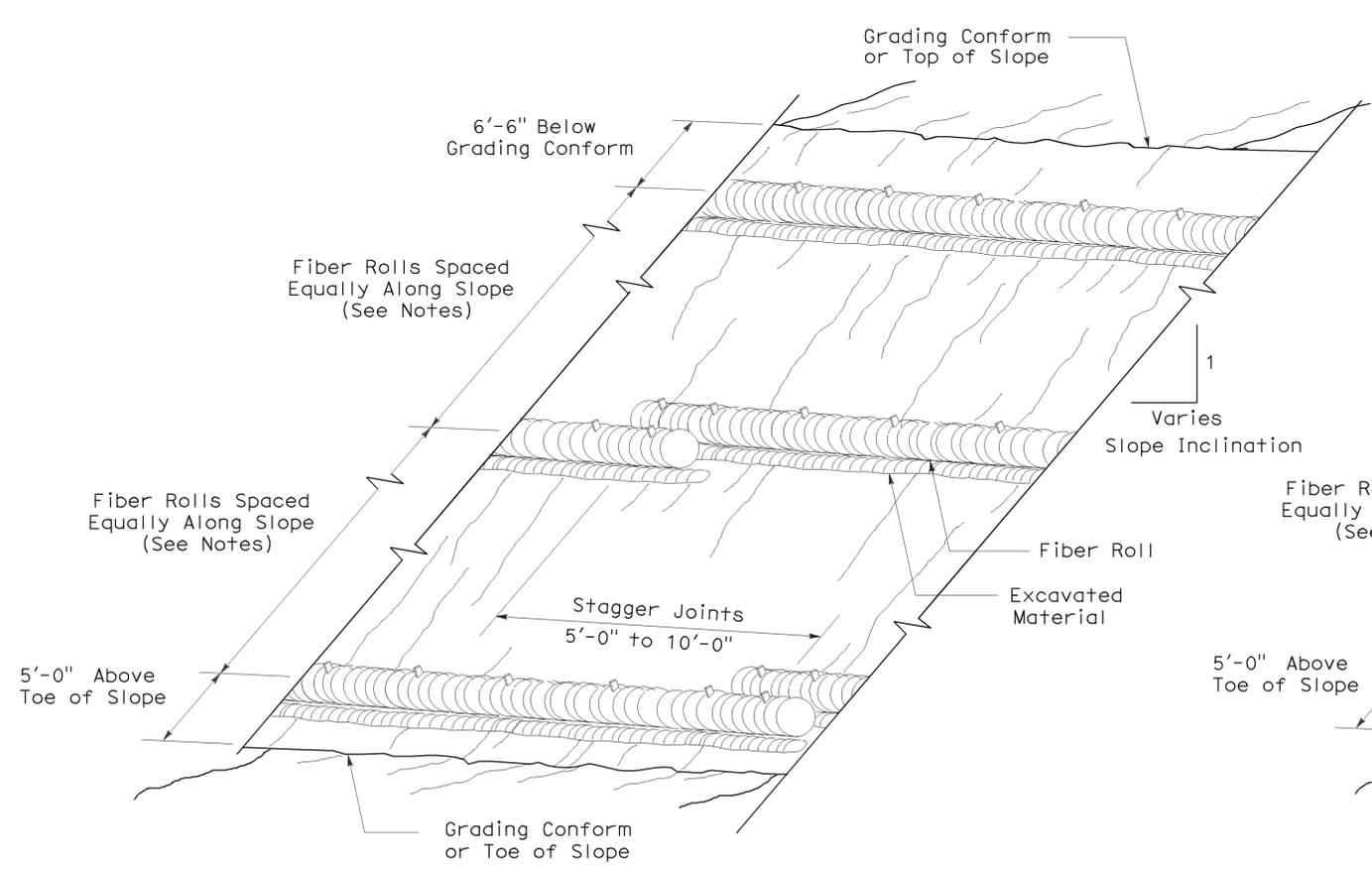
PLAN



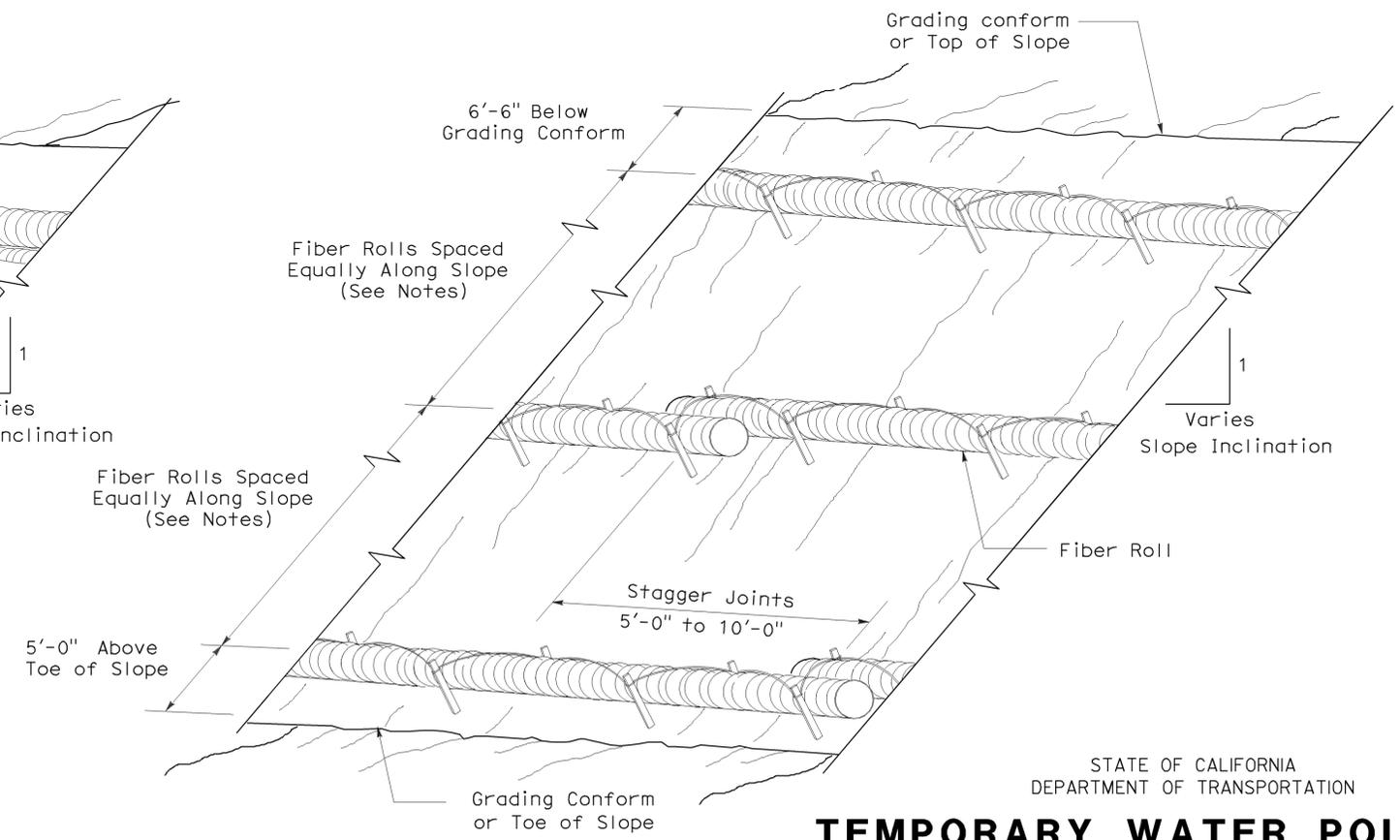
ELEVATION
STAKE NOTCH DETAIL

NOTES:

1. Temporary fiber roll spacing varies depending upon slope inclination.
2. Installations shown in the perspectives are for slope inclination of 10:1 and steeper.



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS
(TEMPORARY FIBER ROLL)

NO SCALE

RSP T56 DATED APRIL 3, 2009 SUPERSEDES STANDARD PLAN T56
 DATED MAY 1, 2006 - PAGE 232 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T56

232

2006 REVISED STANDARD PLAN RSP T56

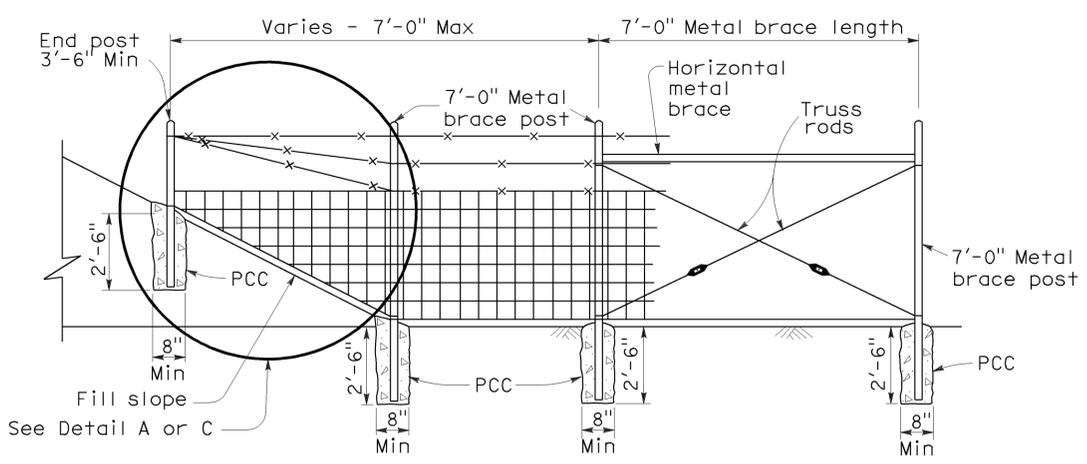
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	Pla	267	0.4/1.2	28	30

REGISTERED CIVIL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-09
 CIVIL
 STATE OF CALIFORNIA

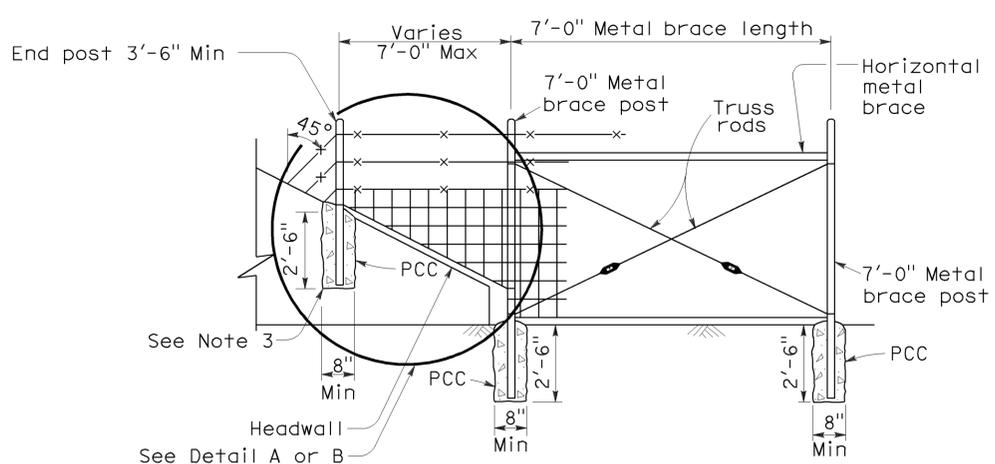
June 5, 2009
 PLANS APPROVAL DATE

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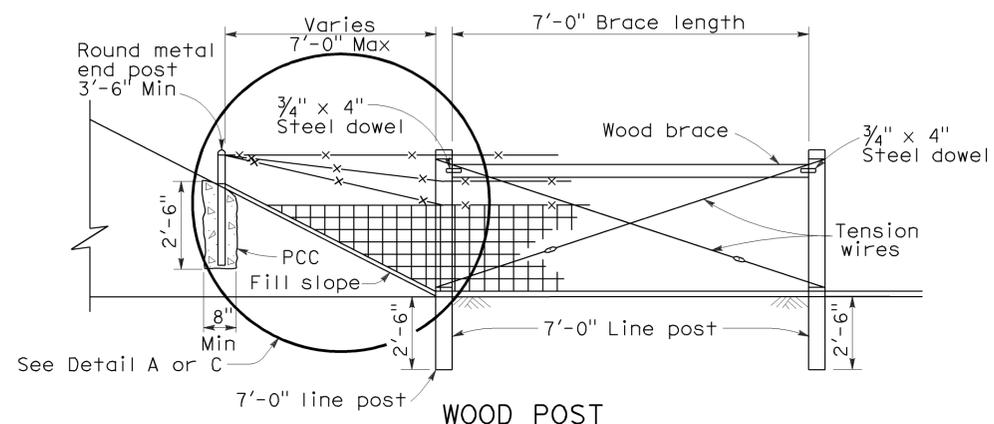
To accompany plans dated 12-19-11



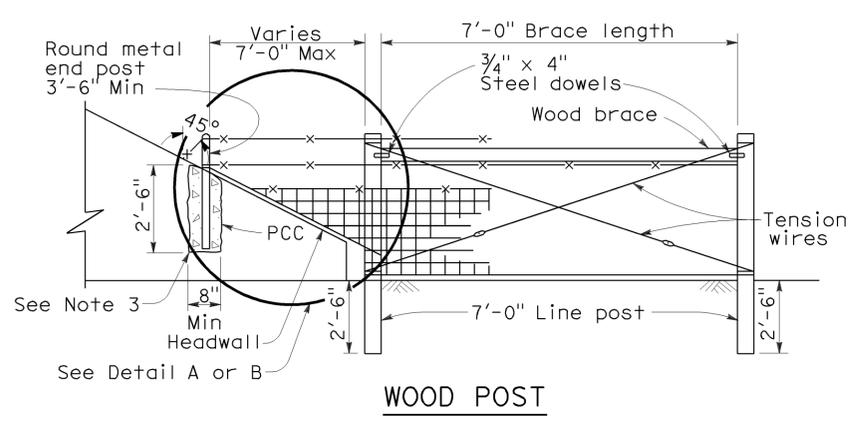
METAL POST



METAL POST



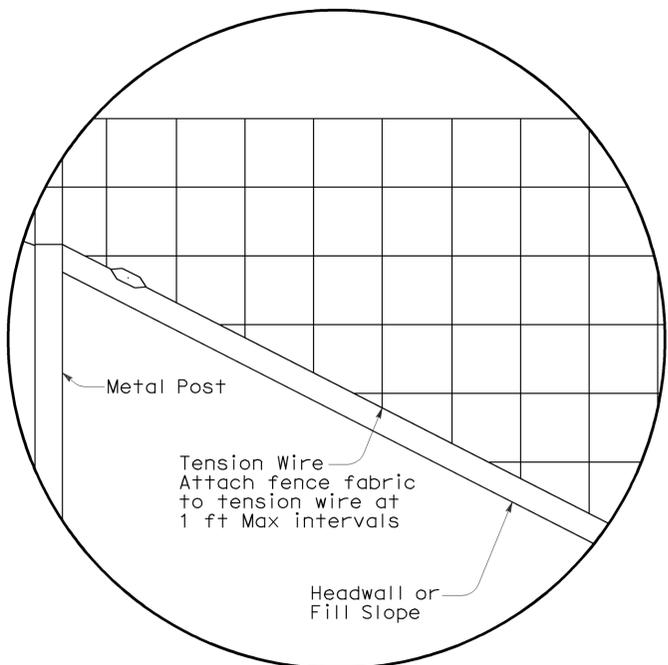
WOOD POST



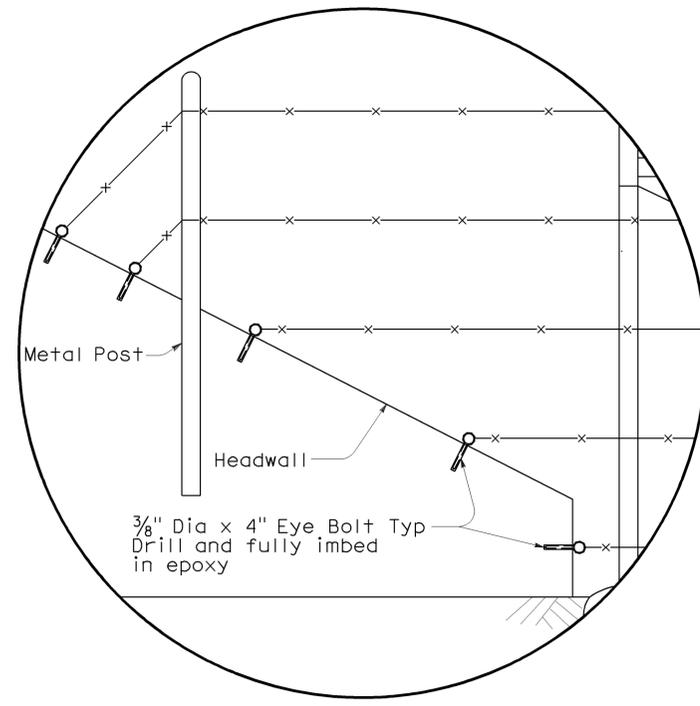
WOOD POST

METHOD OF ERECTING FENCE FOR FILL SLOPE

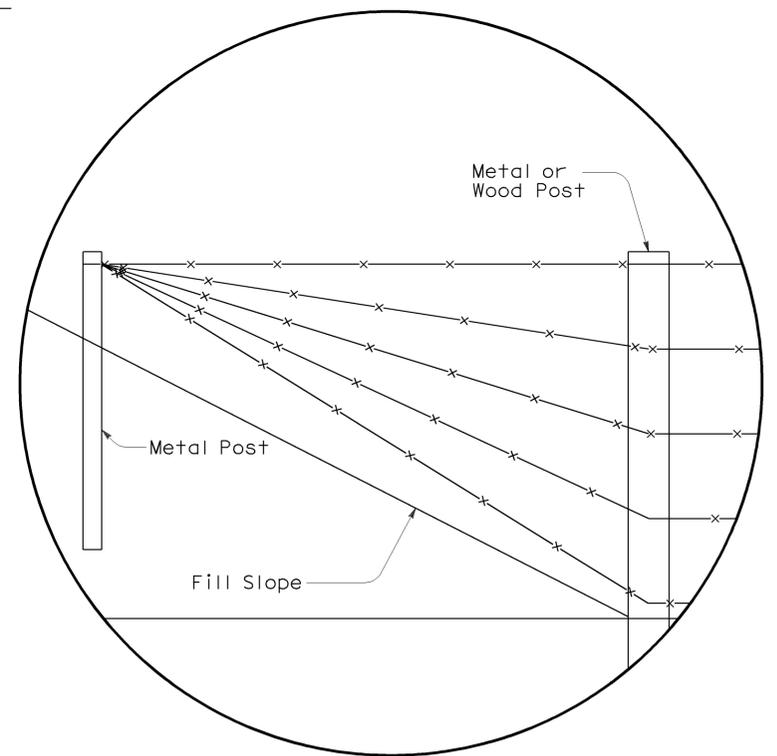
METHOD OF TYING FENCE TO HEADWALL



DETAIL A



DETAIL B



DETAIL C

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**BARBED WIRE AND WIRE MESH
FENCE DETAILS**

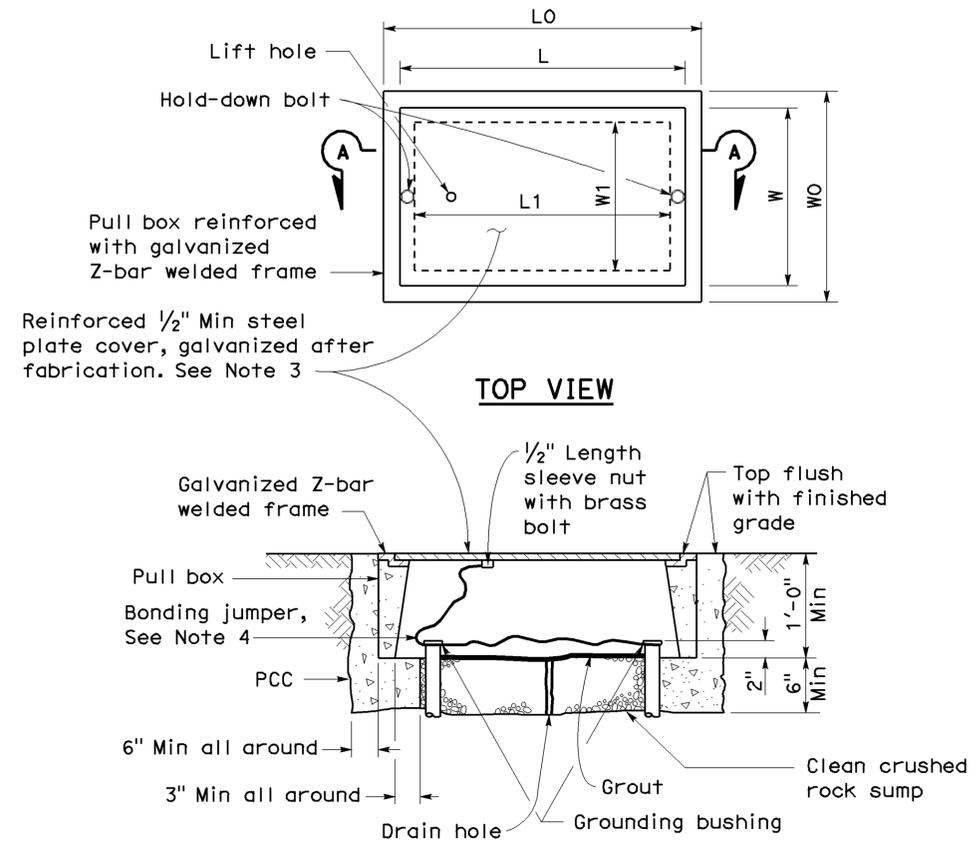
NSP A86B DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP A86B

2006 NEW STANDARD PLAN NSP A86B

To accompany plans dated 12-19-11

2006 NEW STANDARD PLAN NSP ES-8B



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

NOTES ON PULL BOXES:

- Traffic pull box shall be provided with steel cover and special concrete footing. Steel cover shall have embossed non-skid pattern.
- Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.
- Pull box covers must be marked as follows: "SERVICE" Service circuits between service point and service disconnect; "SPRINKLER-CONTROL" Sprinkler control circuits, 50 V or less; "CALTRANS" On all pull boxes, except pull boxes marked "SPRINKLER-CONTROL"; and "TELEPHONE" Telephone service.
 - No. 3 1/2(T) pull box.
 - "SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "ST LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - No. 5(T) or 6(T) pull box.
 - "TRAFFIC SIGNAL" - Traffic signal circuits with or without street or sign lighting circuits.
 - "STREET LIGHTING" - Street or sign lighting circuits where voltage is under 600 V.
 - "STREET LIGHTING-HIGH VOLTAGE" - Street or sign lighting circuits where voltage is above 600 V.
 - "IRRIGATION" - Circuits to irrigation controller 120 V or more.
 - "RAMP METER" - Ramp meter circuits.
 - "COUNT STATION" - Count or speed monitor circuits.
 - "COMMUNICATION" - Communication circuits.
 - "TOS COMMUNICATIONS" - TOS communications line.
 - "TOS POWER" - TOS power.
 - "TDC POWER" - Telephone demarcation cabinet power.
 - "CCTV" - Closed circuit television circuits.
 - "TMS" - Traffic monitoring station circuits.
 - "CMS" - Changeable message sign circuits.
 - "HAR" - Highway advisory radio circuits.
- Bonding jumper for metal covers shall be 3' long, minimum.
- The nominal dimensions of the opening in which the cover sets must be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
- Covers and boxes must be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces must be flush within 1/8".

PULL BOX	BOX						COVER				
	Minimum * Thickness	Minimum Depth Box and Extension	W0	L0	L1	W1	L **	W **	R	Edge Thickness	Edge Taper
No. 3 1/2(T)	1 1/2"	1'-0"	1'-5"± 1"	1'-8 7/8"±	1'-2 1/2"±	10 5/8"± 1"	1'-8"±	1'-1 3/4"±	0"	1/2"	None
No. 5(T)	1 3/4"	1'-0"	1'-11 1/2"± 1"	2'-5 1/2"±	1'-7"±	1'-1"± 1"	2'-3"±	1'-4"±	0"	1/2"	None
No. 6(T)	2"	1'-0"	2'-6"± 1"	2'-11 1/2"±	1'-11 1/2"±	1'-5"± 1"	2'-9"±	1'-8"±	0"	1/2"	None

* Excluding conduit web ** Top dimension

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

NSP ES-8B DATED JANUARY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	267	0.4/1.2	30	30

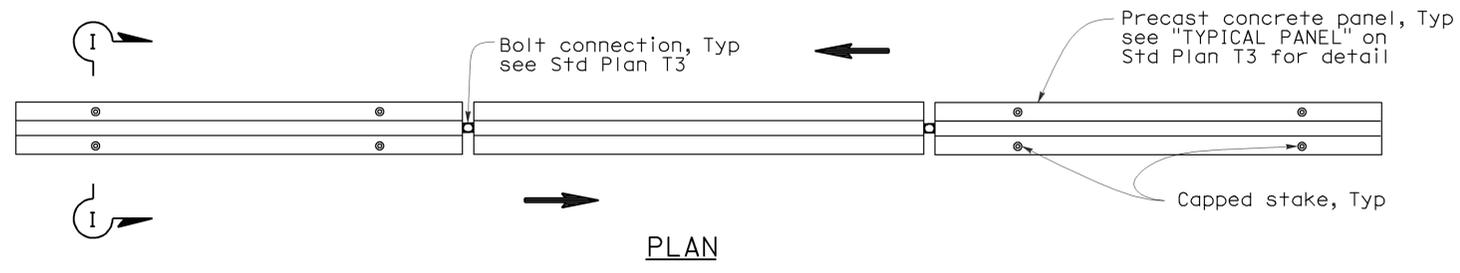
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

May 20, 2011
PLANS APPROVAL DATE

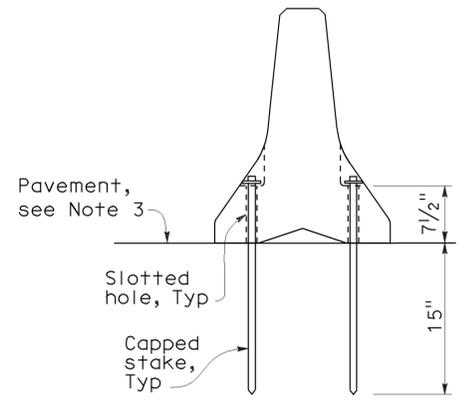
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REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

To accompany plans dated 12-19-11



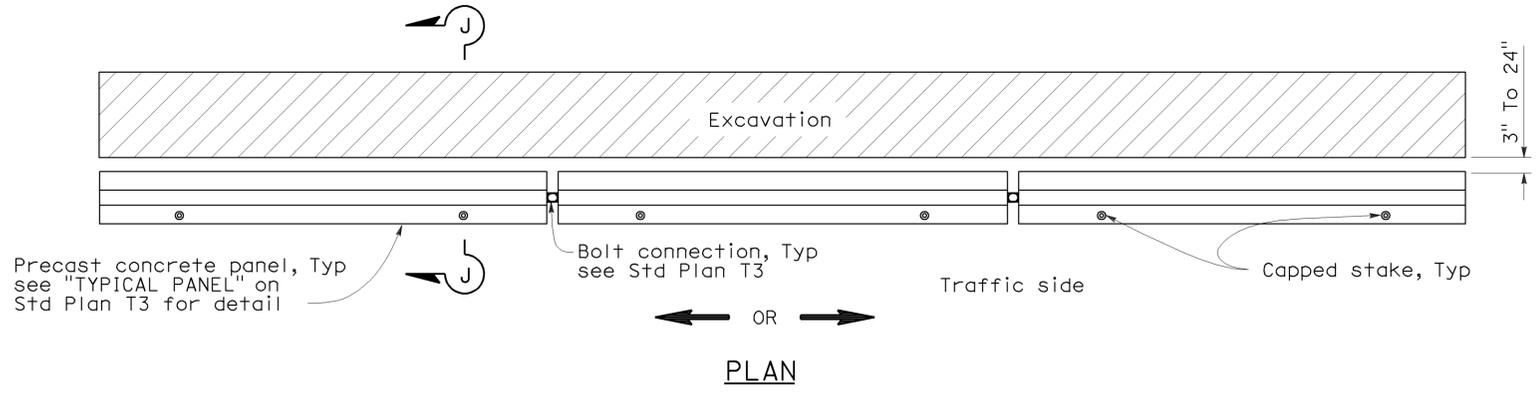
RAILING STAKING CONFIGURATION FOR TWO-WAY TRAFFIC
See Note 1



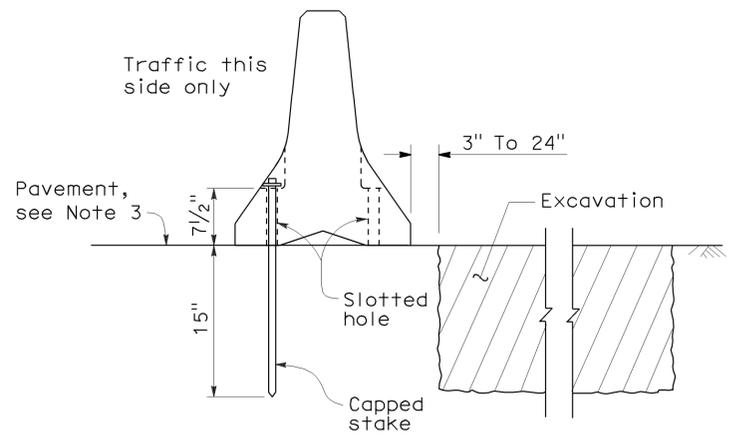
SECTION I-I

NOTES:

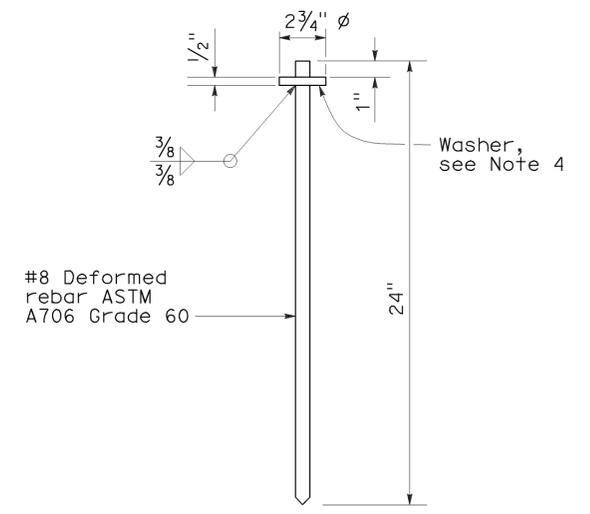
1. Where Type K Temporary Railing is placed as a temporary or long term barrier in two-way traffic on highways with less than 24" from the edge of traveled way, use four capped stakes per every other panel with end panels staked.
2. Where Type K Temporary Railing is placed 3" to 24" from the edge of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



RAILING STAKING CONFIGURATION ADJACENT TO AN EXCAVATION
See Note 2



SECTION J-J



CAPPED STAKE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY RAILING
(TYPE K)**
NO SCALE

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

NEW STANDARD PLAN NSP T3A

2006 NEW STANDARD PLAN NSP T3A