Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	9	1.6/5.3	1	38

INDEX OF PLANS

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

STATE OF CALIFORNIA

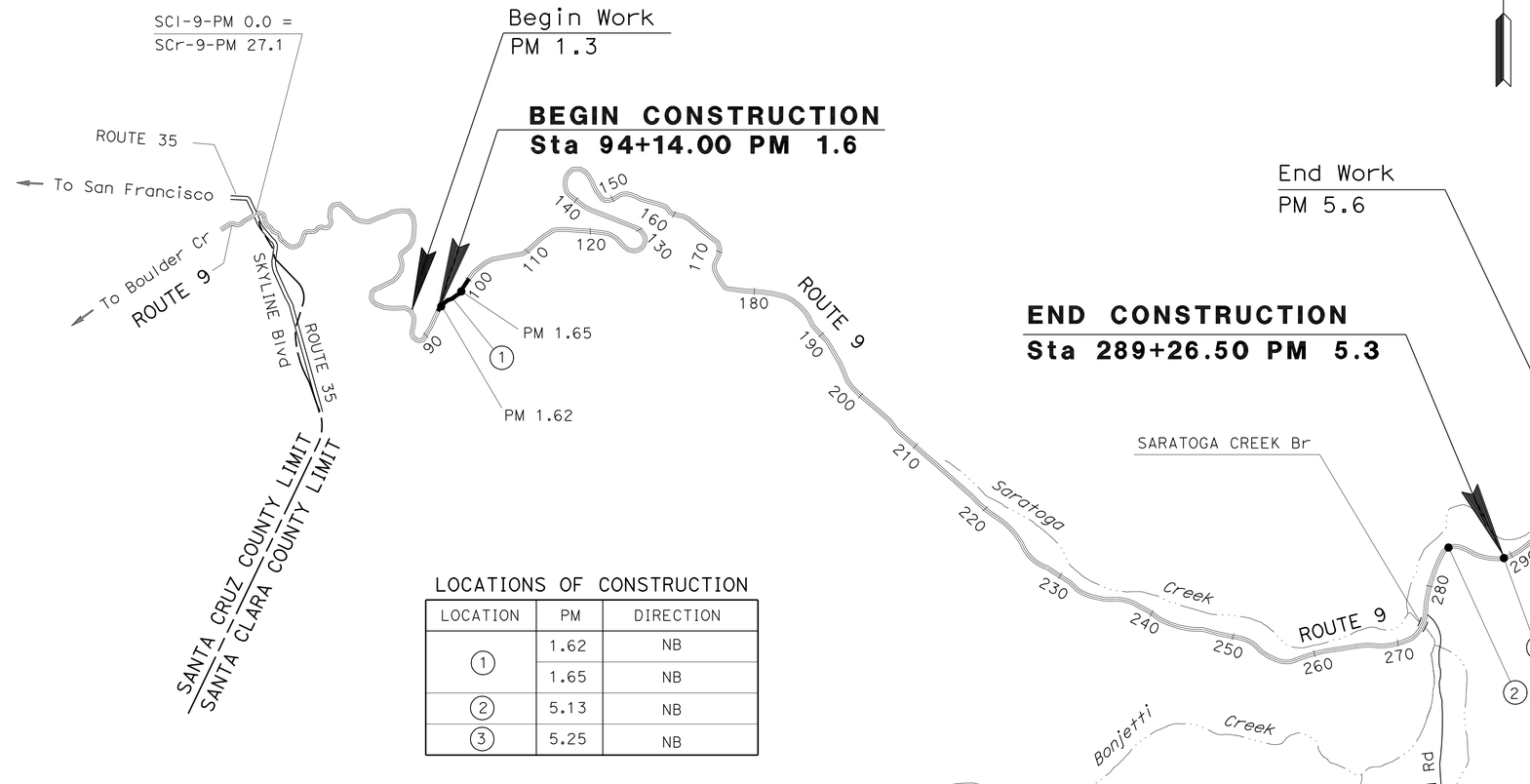
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN SANTA CLARA COUNTY NEAR SARATOGA AT VARIOUS LOCATIONS FROM 1.6 MILES NORTH OF ROUTE 35 TO 0.4 MILE SOUTH OF PIERCE ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



LOCATIONS OF CONSTRUCTION

LOCATION	PM	DIRECTION
1	1.62	NB
	1.65	NB
2	5.13	NB
3	5.25	NB

NO SCALE

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

PROJECT MANAGER: FARIBA ZOHOURY

DESIGN ENGINEER: STEPHEN SAKATA

Mark Taketa — 2-10-11

PROJECT ENGINEER
REGISTERED CIVIL ENGINEER

DATE

REGISTERED PROFESSIONAL ENGINEER — MARK I. TAKETA — No. 64391 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

May 23, 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.	04-3S6204
PROJECT ID	0400001014

LAST REVISION 03-22-11

DATE PLOTTED => 26-MAY-2011
TIME PLOTTED => 10:15

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	2	38

Mark Takata 2-10-11
REGISTERED CIVIL ENGINEER DATE

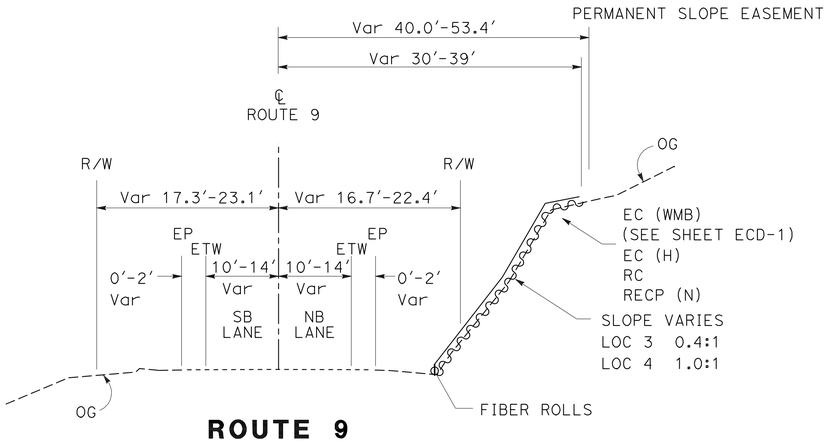
5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK I. TAKETA
No. 64391
Exp. 6-30-13
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.

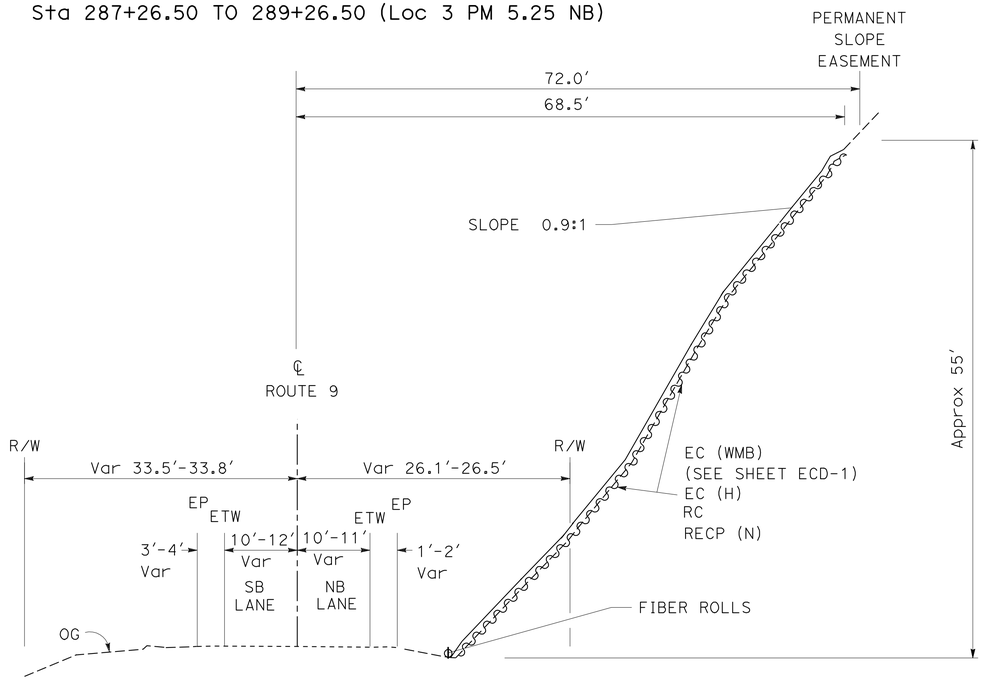
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. STATIONING IS FOR CONSTRUCTION PURPOSES ONLY.



ROUTE 9

Sta 281+07.70 TO 282+72.70 (Loc 2 PM 5.13 NB)
Sta 287+26.50 TO 289+26.50 (Loc 3 PM 5.25 NB)

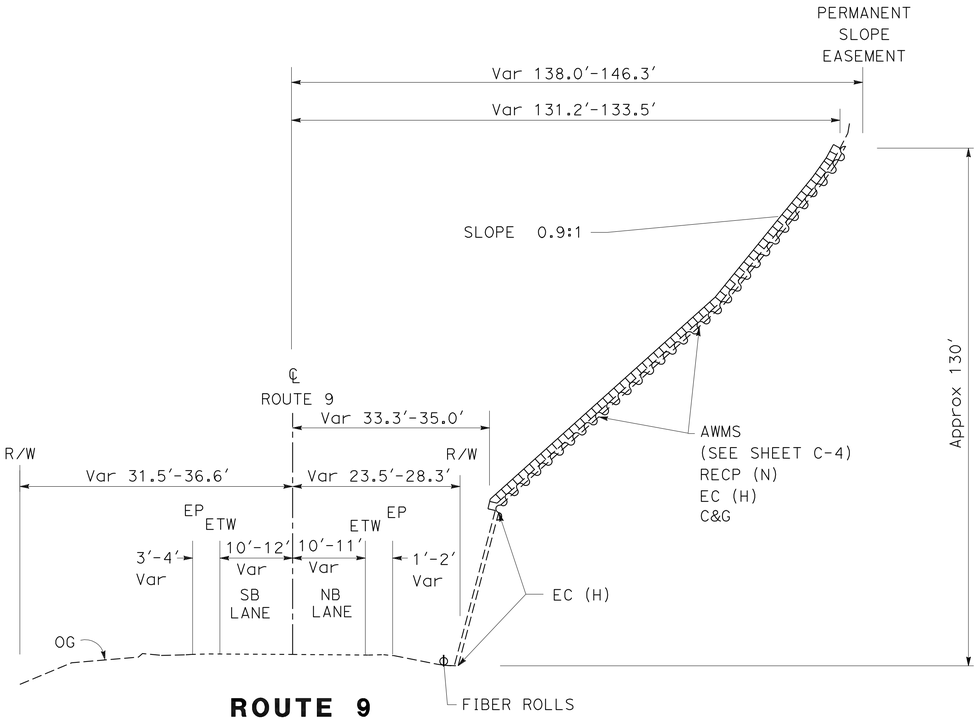


ROUTE 9

Sta 95+22.20 TO 95+83.40 (Loc 1 PM 1.62 NB)

ABBREVIATIONS:

AWMS - ANCHORED WIRE MESH SYSTEM
C&G - CLEARING AND GRUBBING
EC (WMB) - EROSION CONTROL (WIRE MESH BLANKET)
EC (H) - EROSION CONTROL (HYDROSEED)
RC - ROADSIDE CLEARING
RECP(N) - ROLLED EROSION CONTROL PRODUCT (NETTING)



ROUTE 9

Sta 97+53.70 TO 98+28.90 (Loc 1 PM 1.65 NB)

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-DESIGN
FUNCTIONAL SUPERVISOR: STEPHEN SAKATA
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: PKD
DATE REVISED: 10/10

LAST REVISION DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 13:06
01-11-11

BORDER LAST REVISED 7/2/2010
USERNAME => trpierce
DGN FILE => 43S620ca001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1474
PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	3	38

Mark Taketa 2-10-11
REGISTERED CIVIL ENGINEER DATE

MARK I. TAKETA No. 64391 Exp. 6-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

5-23-11
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.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. COORDINATE AND ELEVATION VALUES ARE BASED ON LOCAL SURVEY CONTROL DATA AS SHOWN.
3. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM OWNERS RECORDS.
4. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
5. STATIONING IS FOR CONSTRUCTION PURPOSES ONLY.

LEGEND:

- LOCAL SURVEY CONTROL POINT
- CURVE DATA
- AWMS, C&G, EC (H), RECP (N)
- EC (WMB), EC (H), RC, RECP (N)
- EC (H)
- REMOVE TREE
- TREES TO REMAIN
- FR FIBER ROLLS
- AT&T
- PG&E

ABBREVIATIONS:

AWMS - ANCHORED WIRE MESH SYSTEM
C&G - CLEARING AND GRUBBING
EC (WMB) - EROSION CONTROL (WIRE MESH BLANKET)
EC (H) - EROSION CONTROL (HYDROSEED)
RC - ROADSIDE CLEARING
RECP (N) - ROLLED EROSION CONTROL PRODUCT (NETTING)
TCE - TEMPORARY CONSTRUCTION EASEMENT
AT&T - AMERICAN TELEPHONE & TELEGRAPH CORPORATION
PG&E - PACIFIC GAS AND ELECTRIC COMPANY

EC (WMB), EC (H), RC, RECP (N)
LOCATION 1: PM 1.62 NB

POINTS	STATION	OFFSET	LOCATION
A	95+15.00	18.40′	R†
B	95+15.00	68.52′	R†
C	95+74.40	68.50′	R†
D	95+74.40	17.75′	R†
E	95+41.28	18.47′	R†

PERMANENT SLOPE EASEMENT
LOCATION 1: PM 1.62 NB

POINTS	STATION	OFFSET	LOCATION
F	95+08.00	30.00′	R†
G	95+08.00	72.00′	R†
H	95+84.50	72.00′	R†
I	95+84.50	30.00′	R†

AWMS, C&G, EC (H), RECP (N)
LOCATION 1: PM 1.65 NB

POINTS	STATION	OFFSET	LOCATION
K	97+55.15	19.28′	R†
L	97+53.70	133.50′	R†
M	98+28.90	131.20′	R†
N	98+08.90	19.00′	R†

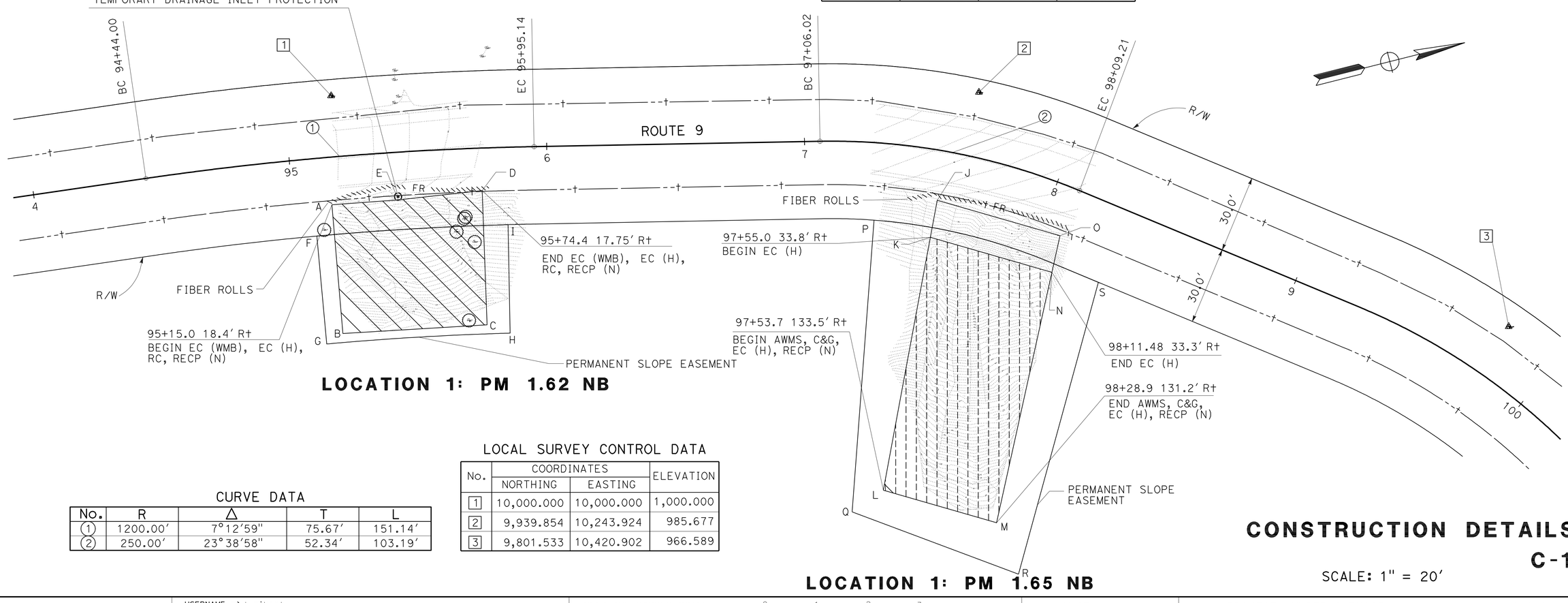
PERMANENT SLOPE EASEMENT
LOCATION 1: PM 1.65 NB

POINTS	STATION	OFFSET	LOCATION
P	97+29.20	30.00′	R†
Q	97+28.50	138.00′	R†
R	98+44.40	146.30′	R†
S	98+29.60	30.00′	R†

EC (H)
LOCATION 1: PM 1.65 NB

POINTS	STATION	OFFSET	LOCATION
J	97+55.15	19.28′	R†
K	97+55.04	33.86′	R†
N	98+11.48	33.34′	R†
O	98+08.90	19.00′	R†

TEMPORARY DRAINAGE INLET PROTECTION



LOCATION 1: PM 1.62 NB

LOCATION 1: PM 1.65 NB

CURVE DATA

No.	R	Δ	T	L
(1)	1200.00′	7°12′59"	75.67′	151.14′
(2)	250.00′	23°38′58"	52.34′	103.19′

LOCAL SURVEY CONTROL DATA

No.	COORDINATES		ELEVATION
	NORTHING	EASTING	
1	10,000.000	10,000.000	1,000.000
2	9,939.854	10,243.924	985.677
3	9,801.533	10,420.902	966.589

CONSTRUCTION DETAILS
C-1

SCALE: 1" = 20′

CALCULATED- DESIGNED BY	PKD	REVISED BY	10/10	DATE REVISED	
CHECKED BY	MARK TAKETA	STEVE FUKAGAWA			
FUNCTIONAL SUPERVISOR	STEPHEN SAKATA				

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 24-MAY-2011
01-27-11 | TIME PLOTTED => 14:11

BORDER LAST REVISED 7/2/2010 | USERNAME => trmikesl | DGN FILE => 43S620ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1474 | PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	4	38

Mark Taketa 2-10-11
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK I TAKETA
No. 64391
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

NOTE:

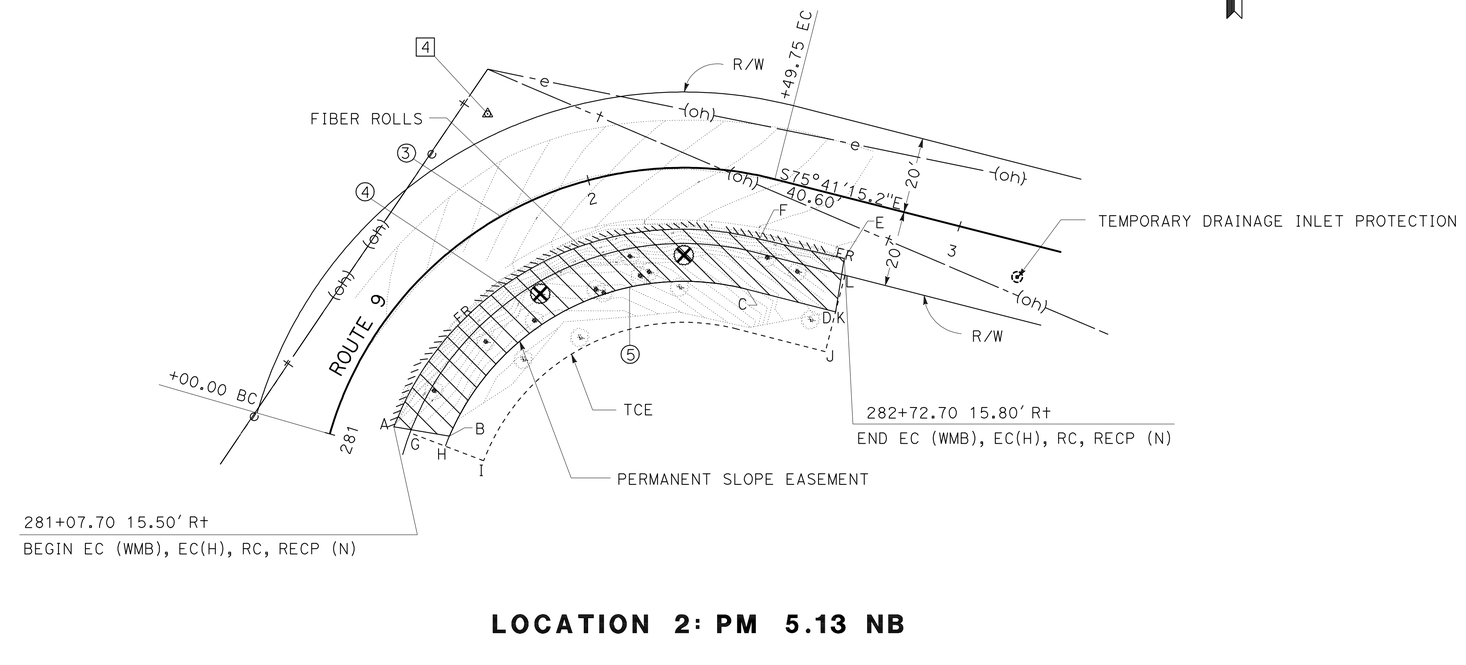
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
③	97.27′	88°12′38"	94.27′	149.75′
④	81.46′	83°31′40"	72.74′	118.86′
⑤	67.26′	81°12′36"	57.66′	95.34′

LOCAL SURVEY CONTROL DATA

No.	COORDINATES		ELEVATION
	NORTHING	EASTING	
4	5,965.379	5,354.881	241.981



LOCATION 2: PM 5.13 NB

EC (WMB), EC (H), RC, RECP (N)
LOCATION 2

POINTS	STATION	OFFSET	LOCATION
A	281+07.74	15.46′	Rt
B	281+11.88	30.00′	Rt
C	282+49.75	30.00′	Rt
D	282+73.95	30.00′	Rt
E	282+72.73	15.75′	Rt
F	282+49.75	16.34′	Rt

EASEMENT
LOCATION 2

POINTS	STATION	OFFSET	LOCATION
G	281+07.74	20.00′	Rt
H	281+07.74	30.00′	Rt
I	281+07.74	40.00′	Rt
J	282+74.00	40.00′	Rt
K	282+74.00	30.00′	Rt
L	282+74.00	20.00′	Rt

CONSTRUCTION DETAILS

SCALE: 1" = 20′

C-2

CALCULATED-DESIGNED BY			
CHECKED BY			
REVISED BY	PKD		
DATE REVISED	10/10		
STEVE FUKAGAWA			
MARK TAKETA			
FUNCTIONAL SUPERVISOR			
STEPHEN SAKATA			
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION			
06-DESIGN			
Caltrans			

LAST REVISION | DATE PLOTTED => 24-MAY-2011
12-13-10 | TIME PLOTTED => 13:06

BORDER LAST REVISED 7/2/2010 | USERNAME => trpierce | DGN FILE => 43S620ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1474 | PROJECT NUMBER & PHASE | 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	5	38

Mark Taketa 2-10-11
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK I TAKETA
No. 64391
Exp. 6-30-13
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.

NOTE:

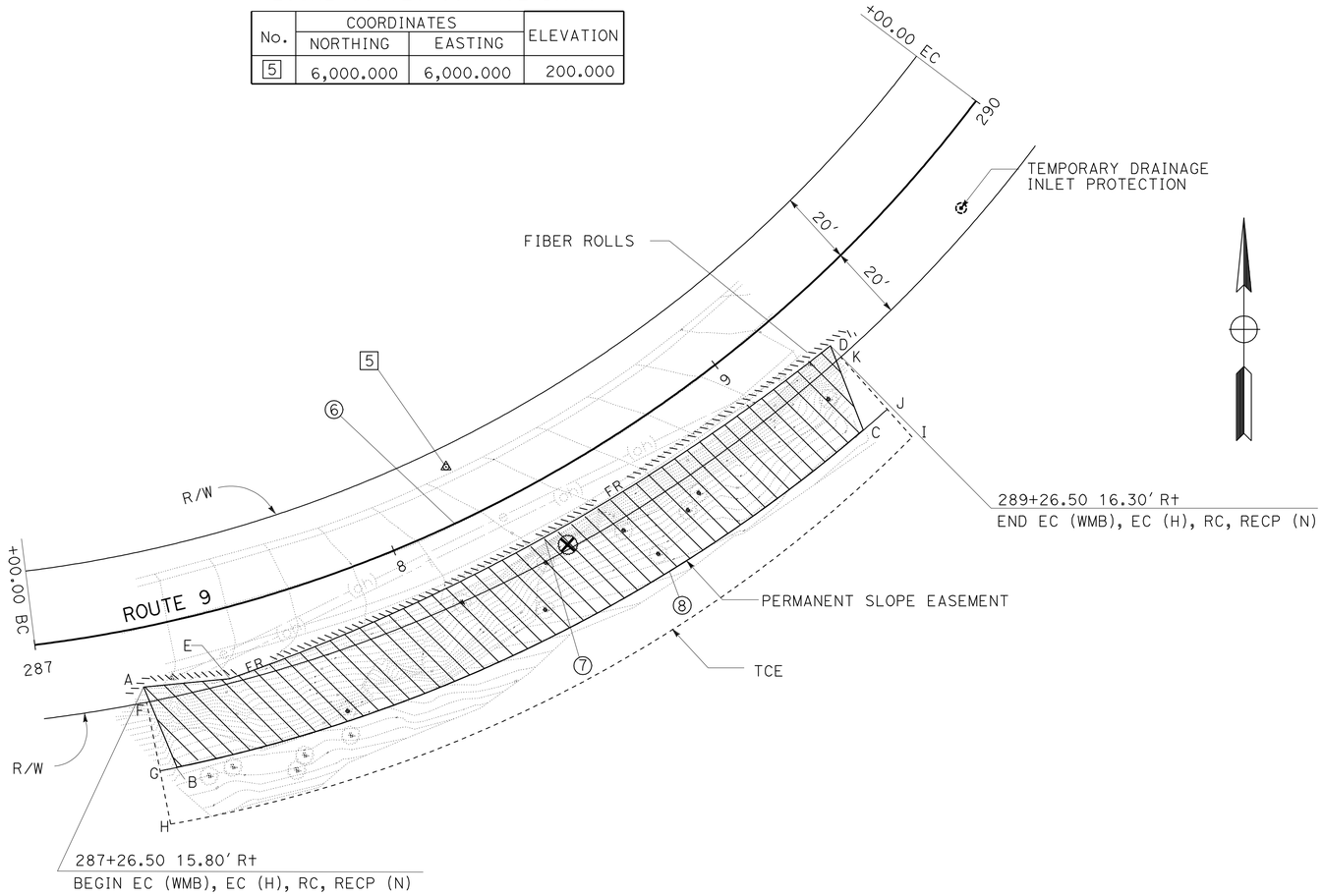
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
⑥	374.51′	45°53′46"	158.57′	300.00′
⑦	549.47′	19°19′34"	93.56′	185.34′
⑧	413.22′	28°47′03"	106.04′	207.60′

LOCAL SURVEY CONTROL DATA

No.	COORDINATES		ELEVATION
	NORTHING	EASTING	
5	6,000.000	6,000.000	200.000



LOCATION 3: PM 5.25 NB

EC (WMB), EC (H), RC, RECP (N)
LOCATION 3

POINTS	STATION	OFFSET	LOCATION
A	287+26.52	15.82′	Rt
B	287+30.71	38.71′	Rt
C	289+18.86	38.71′	Rt
D	289+26.57	15.86′	Rt
E	287+48.61	18.77′	Rt

EASEMENT
LOCATION 3

POINTS	STATION	OFFSET	LOCATION
F	287+26.50	20.00′	Rt
G	287+26.50	38.70′	Rt
H	287+26.50	53.36′	Rt
I	289+26.60	48.82′	Rt
J	289+26.60	38.70′	Rt
K	289+26.60	20.00′	Rt

CONSTRUCTION DETAILS

SCALE: 1" = 20′

C-3

CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
CHECKED BY	PKD	10/10
STEVE FUKAGAWA		
MARK TAKETA		

FUNCTIONAL SUPERVISOR: STEPHEN SAKATA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN

LAST REVISION 03-22-11 | DATE PLOTTED => 24-MAY-2011 | TIME PLOTTED => 13:06

BORDER LAST REVISED 7/2/2010 | USERNAME => trpierce | DGN FILE => 43S620ga003.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1474 | PROJECT NUMBER & PHASE 04000010141

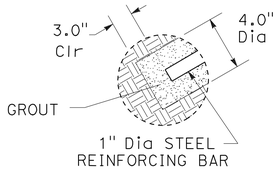
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	9	1.6/5.3	6	38

2-14-11
CERTIFIED ENGINEERING GEOLOGIST DATE

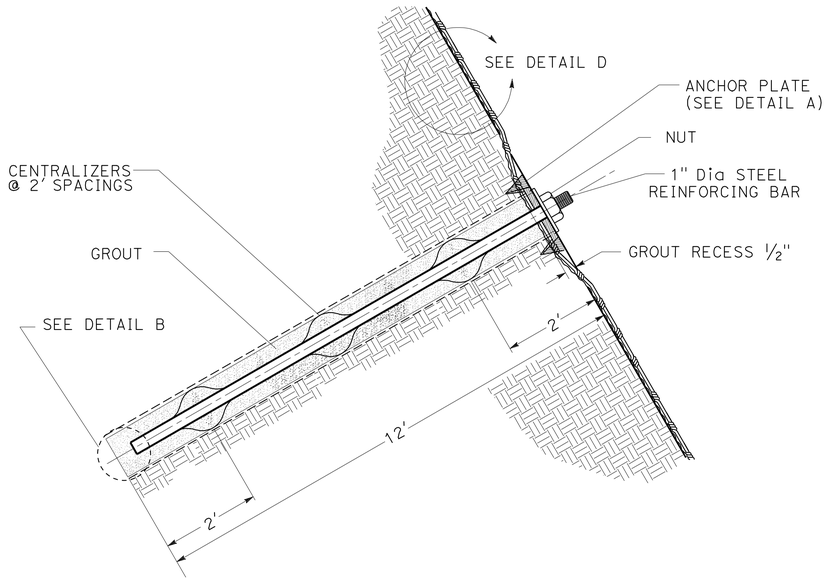
REGISTERED GEOLOGIST
Thomas G. Whitman
No. 2155
Exp. 6-30-12
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

5-23-11
PLANS APPROVAL DATE

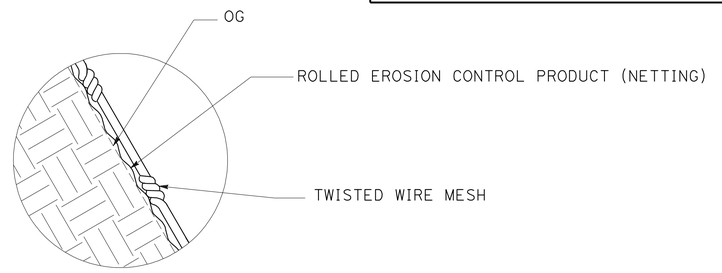
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



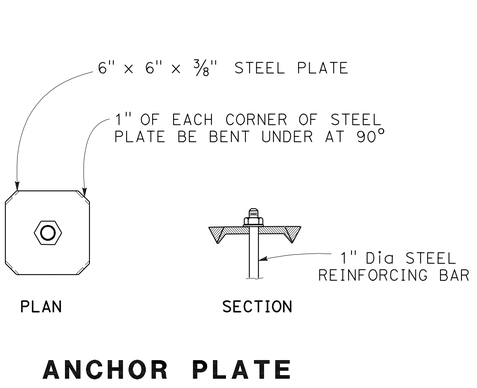
DETAIL B



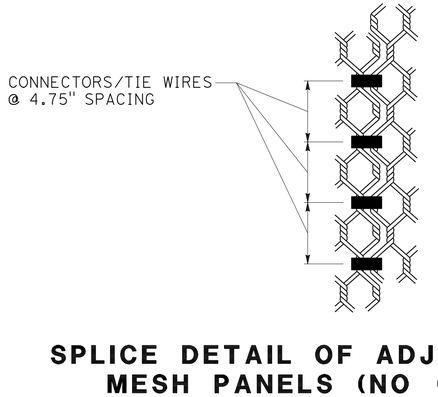
ANCHOR ASSEMBLY DETAILS



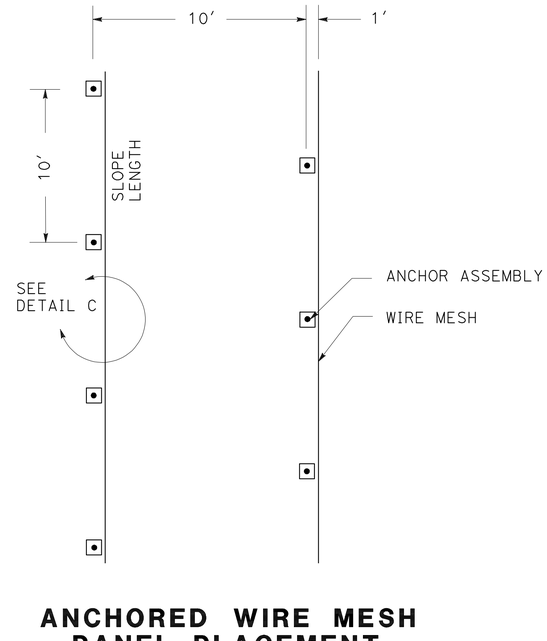
DETAIL D



ANCHOR PLATE
DETAIL A



SPLICE DETAIL OF ADJACENT WIRE MESH PANELS (NO OVERLAP)
DETAIL C



ANCHORED WIRE MESH PANEL PLACEMENT

ANCHORED WIRE MESH SYSTEM

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans GEOTECHNICAL DESIGN - WEST

		REVISED BY	DATE REVISED
CALCULATED-DESIGNED BY	THOMAS WHITMAN	MR	06/07
CHECKED BY	TIM POKRYWKA		
FUNCTIONAL SUPERVISOR	HOOSHMAND NIKOUI		

LAST REVISION DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 13:06 12-22-10

BORDER LAST REVISED 7/2/2010 | USERNAME => trpierce | DGN FILE => 43S620ga004.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 3660 | PROJECT NUMBER & PHASE EA04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	7	38

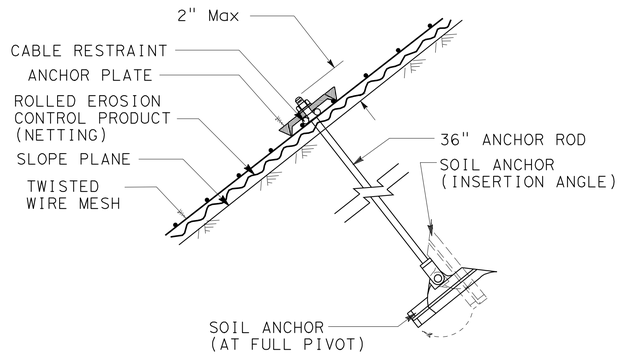
LICENSED LANDSCAPE ARCHITECT

5-23-11
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — DAVID WARREN YAM No. 1949 — Signature — 11-30-11 Renewal Date — 2-15-11 Date — STATE OF CALIFORNIA

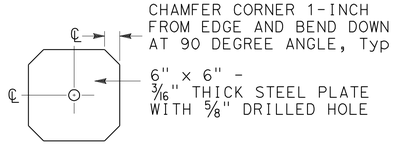
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:
ROLLED EROSION CONTROL PRODUCT (NETTING) SHOWN FOR REFERENCE PURPOSES ONLY.
SEE NSP H53 FOR ROLLED EROSION CONTROL PRODUCT (NETTING) INSTALLATION.

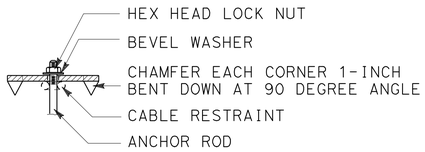


SECTION

SLOPE ANCHOR

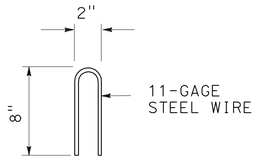


PLAN



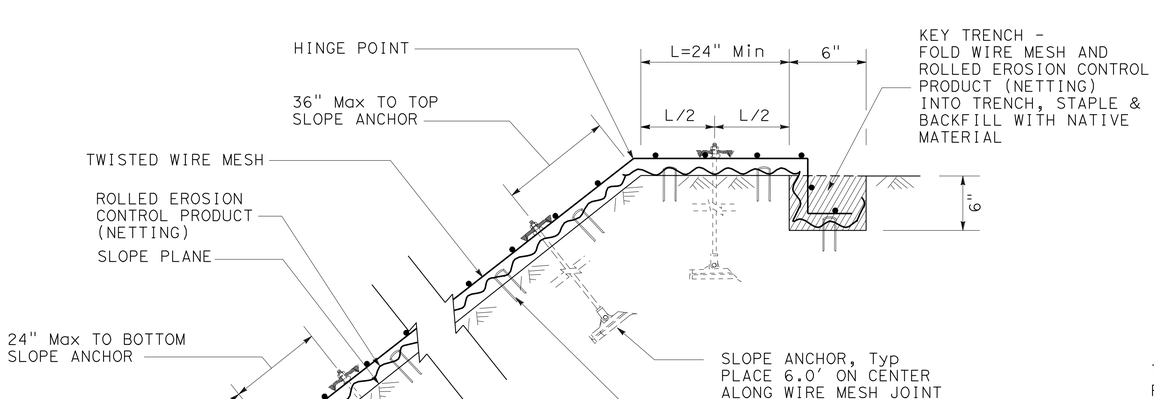
SECTION

ANCHOR PLATE & ASSEMBLY DETAIL



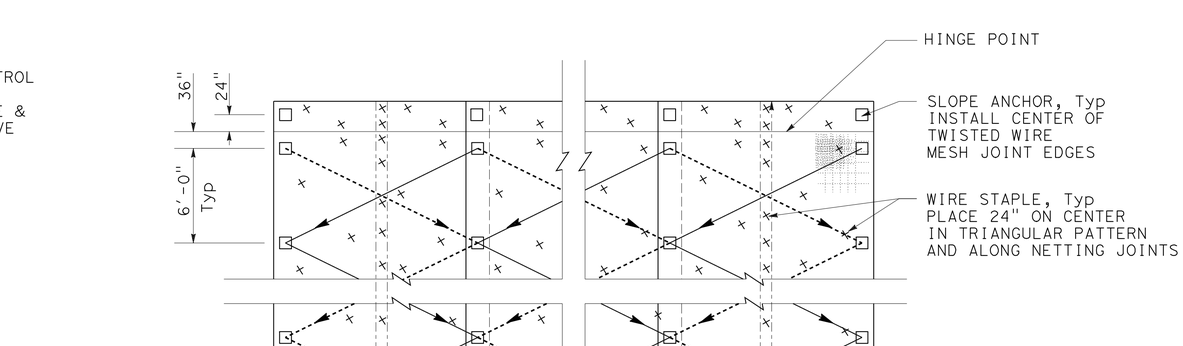
ELEVATION

STAPLE DETAIL



SECTION

EROSION CONTROL (WIRE MESH BLANKET)



PLAN

SLOPE ANCHOR AND CABLE RESTRAINT PATTERN

EROSION CONTROL DETAILS
NO SCALE

ECD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY
SENIOR LANDSCAPE ARCHITECT: DAVID W. YAM
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY: JENNIFER EGAWA
DATE REVISED: ALEX MCDONALD

LAST REVISION 01-04-11
DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 12:58

BORDER LAST REVISED 7/2/2010
USERNAME => s135318
DGN FILE => 43S620gf001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0792
PROJECT NUMBER & PHASE 0400001014

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	9	1.6/5.3	8	38

Hassan Taha 10-30-10
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

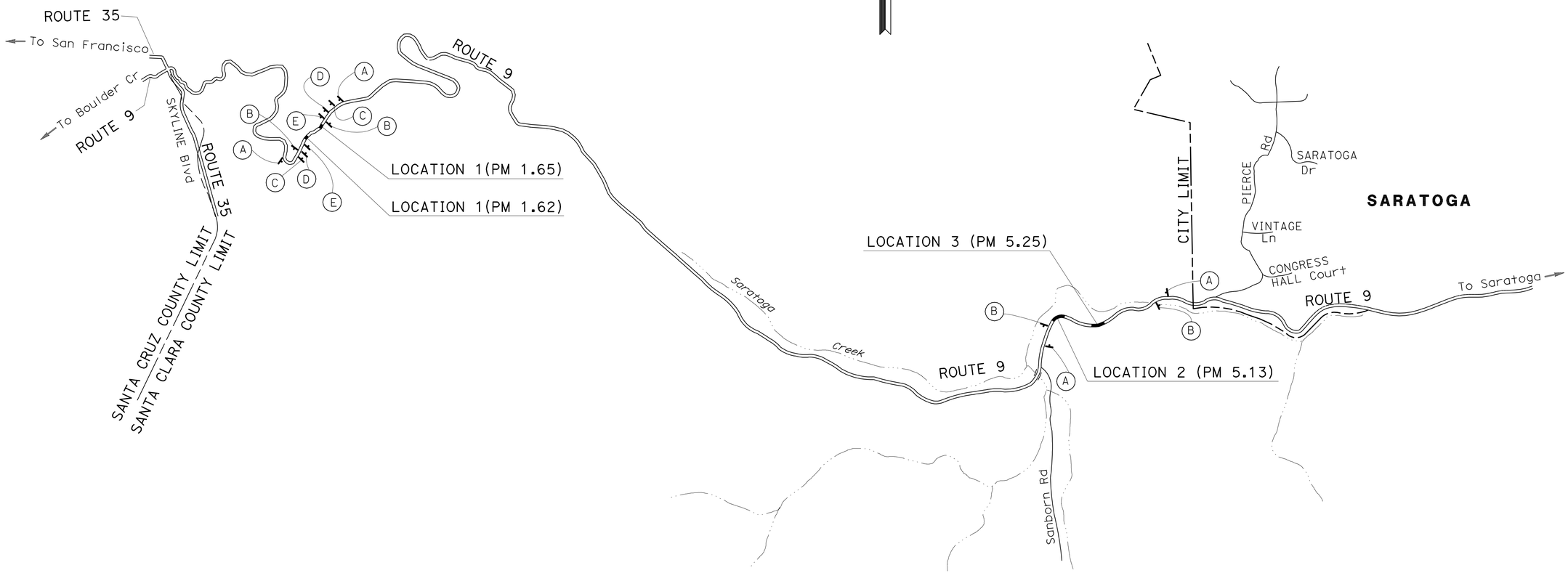
REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS	POST SIZE	No. OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1	6" x 6"	4
B	G20-2	48" x 24"	END ROAD WORK	1	4" x 6"	4
C	W20-4	36" x 36"	ONE LANE ROAD AHEAD	1	4" x 6"	2
D	W20-4	36" x 36"	ONE LANE ROAD	1	4" x 6"	2
E	W13-1(20)	30" x 30"	20 MPH	1	4"x 4"	2

NOTES: 1. EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.
2. SEE TRAFFIC HANDLING PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE **CS-1**

REVISED BY | DATE REVISED
KEVIN N NGUYEN | HASSAN TAHA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-TRAFFIC DESIGN
Caltrans

LAST REVISION | DATE PLOTTED => 24-MAY-2011
01-11-11 | TIME PLOTTED => 12:58

BORDER LAST REVISED 7/2/2010 | USERNAME => s135318 | DGN FILE => 43S6201a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1513 | PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	9	38

Hassan Taha 10-30-10
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

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

REVISED BY | DATE REVISED

KEVIN N NGUYEN | HASSAN TAHA

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR

MOHAMMED QATAMI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

06-TRAFFIC DESIGN

Caltrans

LEGEND:

- ROADSIDE SIGN ONE-POST
- DIRECTION OF TRAFFIC
- Temp RAILING (TYPE K)
- CHANNELIZER (SURFACED MOUNTED)
- CONSTRUCTION AREA
- SIGN MOUNTED ON BEACON
- SIGN MOUNTED ON SIGNAL POLE

NOTES:

1. SEE CONSTRUCTION AREA SIGN PLAN FOR ADDITIONAL CONSTRUCTION AREA SIGNS.
2. EXACT SIGN LOCATIONS TO BE DETERMNED BY THE ENGINEER.
3. ALL CONSTRUCTION AREA SIGNS SHOWN ON THIS SHEET ARE STATIONARY MOUNTED EXCEPT SIGN CODE W3-3, AND R10-6.

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	EA
TH-1	14

TEMPORARY CRASH CUSHION MODULE

SHEET No.	EA
TH-1	22

TEMPORARY RAILING (TYPE K)

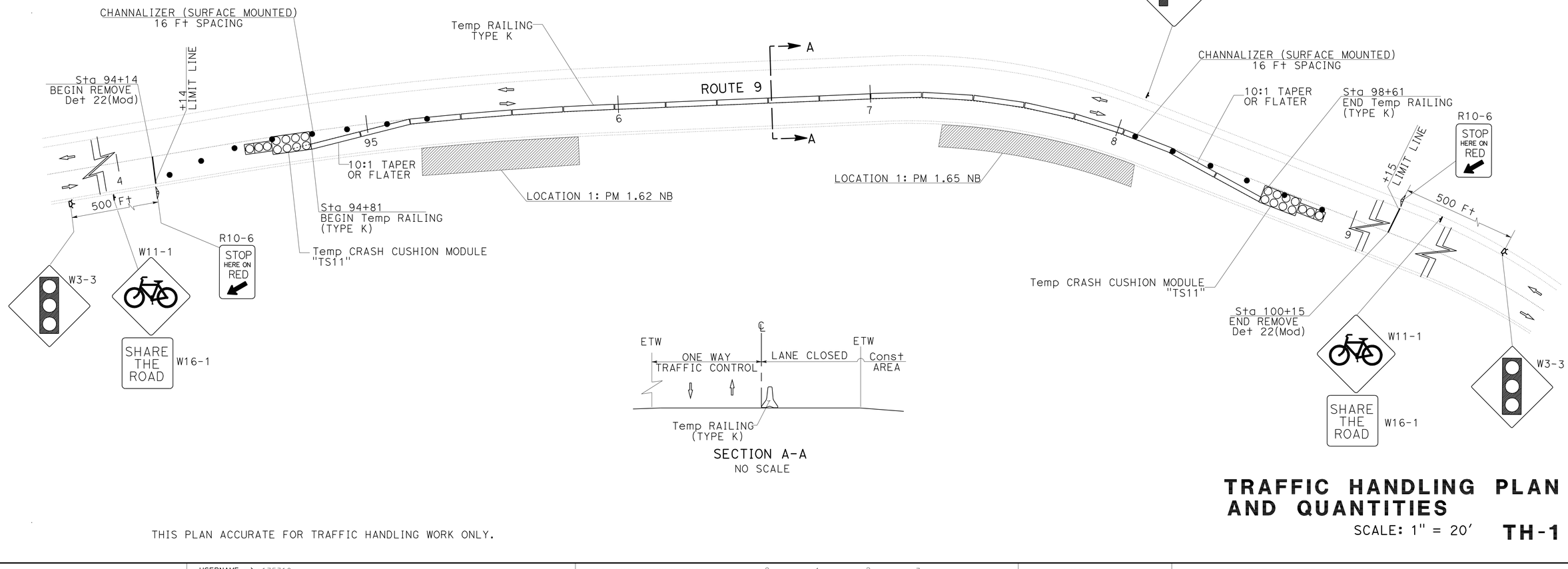
SHEET No.	Sta TO Sta	LF
TH-1	94+81 to 98+61	380

TEMPORARY PAVEMENT DELINEATION

SHEET No.	LOCATION Sta TO Sta	DETAIL No.	REMOVE PAVEMENT MARKER	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	Temp PAVEMENT MARKING (TAPE)	
			EA	LF	DESCRIPTION	SQFT
TH-1	94+14 TO 100+15	22(Mod)	162	1202	LIMIT LINE	24

CONSTRUCTION AREA SIGNS

SHEET No.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POST AND SIZE	No. OF SIGNS
TH-1	W3-3	AS SHOWN ON PLAN	36" x 36"	MOUNT ON BEACON	2
	R10-6	AS SHOWN ON PLAN	36" x 24"	MOUNT ON SIGNAL POLE	2
	W1-4	AS SHOWN ON PLAN	30" x 30"	1-4" x 4"	1
	W11-1	AS SHOWN ON PLAN	36" x 36"	1-4" x 6"	2
	W16-1	AS SHOWN ON PLAN	36" x 30"	1-4" x 4"	2



SECTION A-A
NO SCALE

THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.

TRAFFIC HANDLING PLAN AND QUANTITIES

SCALE: 1" = 20'

TH-1

LAST REVISION | DATE PLOTTED => 24-MAY-2011
01-11-11 | TIME PLOTTED => 12:58

BORDER LAST REVISED 7/2/2010

USERNAME => s135318
DGN FILE => 43S620md001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 1513

PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCl	9	1.6/5.3	10	38

Hassan Taha 10-30-10
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp. 6-30-12
CIVIL
STATE OF CALIFORNIA

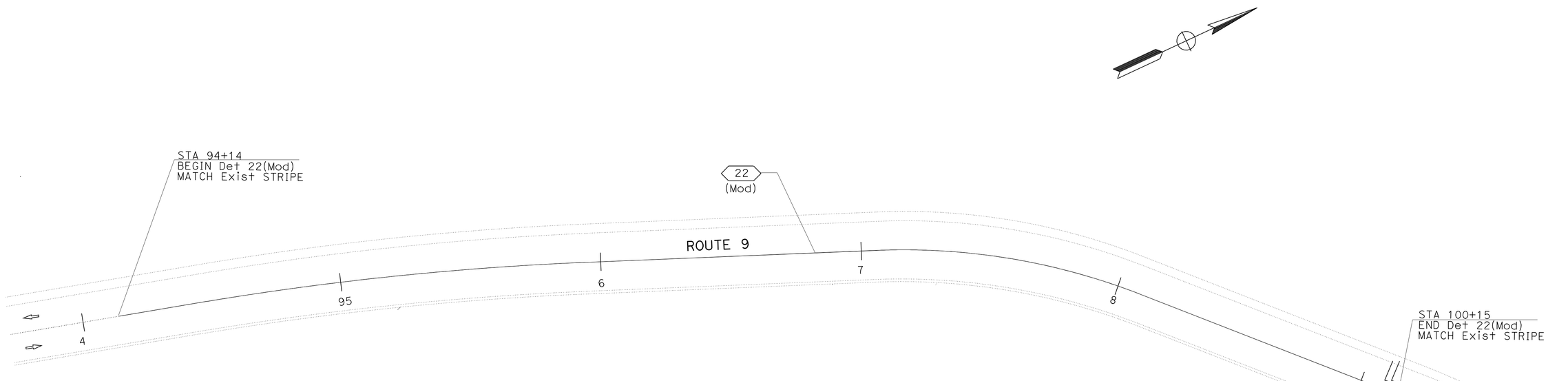
LEGEND:

XX TRAFFIC STRIPE DETAIL No.

DIRECTION OF TRAFFIC

PAVEMENT DELINEATION

SHEET No.	LOCATION Sta TO Sta	DETAIL No.	PAVEMENT MARKER (RETRO-REFLECTIVE)	4" THERMOPLASTIC TRAFFIC STRIPE
			TYPE D	YELLOW
			EA	LF
PD-1	94+14 TO 100+15	22(Mod)	162	1202
	TOTAL		162	1202



PAVEMENT DELINEATION PLAN AND QUANTITIES

SCALE: 1" = 20' **PD-1**

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION WORK ONLY.

CALCULATED-DESIGNED BY KEVIN N NGUYEN
CHECKED BY HASSAN TAHA
FUNCTIONAL SUPERVISOR MOHAMMED QATAMI
REVISED BY
DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
06-TRAFFIC DESIGN

LAST REVISION 07-06-10
DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 12:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	11	38

Hassan Taha 10-30-10
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
HASSAN M. TAHA
No. 60130
Exp 6-30-12
CIVIL
STATE OF CALIFORNIA

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LEGEND:

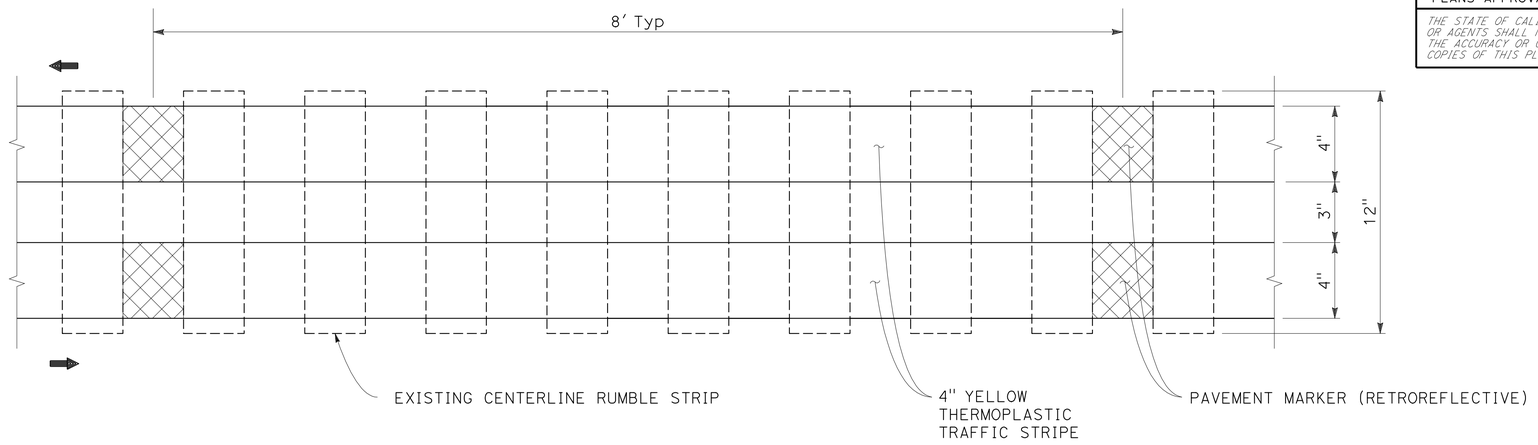
⟨No.⟩ TRAFFIC STRIPE DETAIL No.

DIRECTION OF TRAFFIC

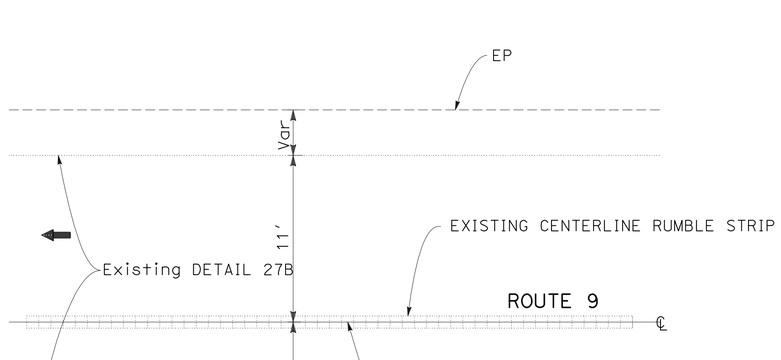
PAVEMENT MARKER TYPE D

NOTE:

EXACT LIMITS OF TRAFFIC STRIPE SHALL BE DETERMINED BY THE ENGINEER.



DETAIL 22 (MODIFIED)



STRIPING
(TYPICAL)

THIS PLAN ACCURATE FOR PAVEMENT DELINEATION DETAIL WORK ONLY.

PAVEMENT DELINEATION DETAILS

NO SCALE **PDD-1**

REVISED BY | DATE REVISED
KEVIN N NGUYEN | HASSAN TAHA
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: MOHAMMED QATAMI
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-TRAFFIC DESIGN

LAST REVISION 01-11-11
DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 12:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	12	38

Mark Taketa 2-10-11
REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MARK I. TAKETA
No. 64391
Exp 6-30-13
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.

ABBREVIATION:

DBH DIAMETER AT BREAST HEIGHT

WATER POLLUTION CONTROL

STATION	LOCATION	TEMPORARY CHECK DAM **	TEMPORARY DRAINAGE INLET PROTECTION **
		LF	EA
Sta 95+41.226, 17.2' Rt	LOCATION 1: PM 1.62 NB		1
Sta 98+4.335 TO Sta 98+13.335, 16.9' Rt	LOCATION 1: PM 1.65 NB	9	
Sta 281+17.075, 9.2' Rt	LOCATION 2: PM 5.13 NB		1
Sta 289+66.578 TO Sta 289+75.578, 15.0' Rt	LOCATION 3: PM 5.25 NB	9	
Sta 289+75.578, 15.0' Rt	LOCATION 3: PM 5.25 NB		1
TOTAL		18	3

** - EXACT LOCATION TO BE DETERMINED BY THE ENGINEER

SLOPE STABILIZATION

STATION	LOCATION	ANCHORED WIRE MESH SYSTEM
		SQFT
Sta 97+53.70 TO Sta 98+28.90 (Loc 1 PM 1.65 NB)	Rt	7,200

EROSION CONTROL

STATION	LOCATION	EROSION CONTROL (WIRE MESH BLANKET)	ROLLED EROSION CONTROL PRODUCT (NETTING)	FIBER ROLLS	EROSION CONTROL (HYDROSEED)	SEED (N)	FIBER (N)	ORGANIC FERTILIZER (N)	TACKIFIER (N)
		SQFT	SQFT	LF	ACRE	LB	LB	LB	LB
95+15.00 TO 95+74.40 (Loc 1 PM 1.62 NB)	Rt	4,400	4,400	70	0.11	7	63	110	14
97+53.70 TO 98+28.90 (Loc 1 PM 1.65 NB)	Rt		7,200	75	0.22	14	125	220	28
281+07.70 TO 282+72.70 (Loc 2 PM 5.13 NB)	Rt	2,500	2,500	155	0.08	5	46	80	10
287+26.50 TO 289+26.50 (Loc 3 PM 5.25 NB)	Rt	7,400	7,400	250	0.19	12	108	190	24
TOTAL		14,300	21,500	550	0.60	37	342	600	75

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

REMOVE TREE *

LOCATION	TYPE	DBH	REMOVE TREE (N)
		INCH	EA
Sta 281+73.47 22.88 Rt (Loc 2 PM 5.13 NB)	MADRONE	24	1
Sta 282+25.46 23.08 Rt (Loc 2 PM 5.13 NB)	FIR	29	1
Sta 288+41.78 18.80 Rt (Loc 3 PM 5.25 NB)	FIR	14	1

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY
* - INCLUDED IN ROADSIDE CLEARING

SUMMARY OF QUANTITIES
Q-1

REVISED BY	PKD
DATE REVISED	10/10
CALCULATED-DESIGNED BY	STEVE FUKAGAWA
CHECKED BY	MARK TAKETA
FUNCTIONAL SUPERVISOR	STEPHEN SAKATA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
06-DESIGN

LAST REVISION 12-07-10
DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 14:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	13	38

Paul Matos 05-09-11
REGISTERED ELECTRICAL ENGINEER

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/11
ELECTRICAL
STATE OF CALIFORNIA

NOTES:

1. LOWEST SAG POINT OF MESSENGER WIRE SHALL BE 25' MINIMUM CLEARANCE FROM FINISHED GRADE/ROADWAY.
2. OVERHEAD CONDUCTORS SHALL BE TIED ON MESSENGER WIRE AT EVERY 3' MAXIMUM WITH SELF-CLINGING NYLON TIES.
3. OVERHEAD ENTRANCE CONDUIT FITTING SHALL BE INSTALLED IN SUCH A WAY SO THAT RAINWATER SHALL NOT SEEP INTO ELECTRICAL EQUIPMENT THROUGH THE ENTRANCE FITTING. FORM A DRIP LOOP AT ENTRANCE FITTING.
4. PROVIDE GUY WIRE, GUY GUARDS AND ANCHOR AS REQUIRED. POLE GUY WIRE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
5. ESTABLISH CONTINUOUS GROUND WITH SYSTEM GROUND TO ALL METAL PARTS IN SYSTEM BY BONDING JUMPERS AND CONDUITS.
6. GROUNDING ELECTRODE SHALL BE INSTALLED IN PULL BOX ADJACENT TO WOOD POLES AND BOND TO RIGID METAL CONDUIT, UNLESS OTHERWISE NOTED.
7. SIGNS SHOWN ARE CONSTRUCTION AREA SIGNS. SEE TRAFFIC HANDLING PLANS FOR DETAILS.

LEGEND:

[1] POWER SHALL BE PROVIDED BY A GENERATOR WITH A BACKUP GENERATOR. SEE DETAIL 2 ON SHEET E-4. SEE DETAILS 5 AND 6 ON SHEET E-5 FOR NEMA 3R ENCLOSURE ON WOOD POST.

[2] INSTALL STATE-FURNISHED MODEL 170 CONTROLLER ASSEMBLY ON TEMPORARY FOUNDATION PLATFORM FOR MODEL 332 CABINET PER DETAIL 4 ON SHEET E-4. INSTALL UPS IN CONTROLLER CABINET.

[3] SEE DETAIL 1 ON SHEET E-4.

[4] SEE DETAIL 8 ON SHEET E-5.

[5] SEE DETAIL 3 ON SHEET E-4.

[6] 1½" CONDUIT RISER WITH ENTRANCE FITTING.

[7] SEE DETAIL 7 ON SHEET E-5.

INDEX TO ELECTRICAL PLANS:

ABBREVIATION:

UPS UNINTERRUPTIBLE POWER SUPPLY.

SYMBOLS:

PROPOSED

WOOD POLE WITH 200 W HPS LUMINAIRE (ON MASTARM), SIGNAL HEAD, PPB, R10-6 SIGN AND CONDUIT RISER. SEE DETAIL 3 ON E-4.

Y / Y — ADVANCE FLASHING BEACON WITH A W3-3 SIGN AND SIGN LIGHTING MOUNTED ON A WOOD POLE. SEE DETAIL 1 ON E-4.

OH — WOOD POLES WITH 200 W HPS LUMINAIRE (ON MASTARM), SIGNAL HEAD (ON MESSENGER WIRE AND WOOD POLES) AND CONDUIT RISERS. SEE DETAIL 7 AND 8 ON E-5.

WOOD POLE.

NEMA 3R ENCLOSURE ON WOOD POLE. SEE DETAIL 5 AND 6 ON E-5.

(G) GENERATOR WITH A BACKUP GENERATOR.

OH — OVERHEAD 5/8", 7 STRAND GALVANIZED MESSENGER WIRE WITH CONDUCTORS AS NOTED UNLESS OTHERWISE SPECIFIED.

FUEL — FUEL TANK.

—X—X— TEMPORARY CHAIN LINK FENCE WITH GATE.

—F— FUEL LINE.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

TEMPORARY SIGNAL SYSTEM
(LEGEND, NOTES, SYMBOLS AND ABBREVIATIONS)

NO SCALE **E-1**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: PAUL MATOS
CHECKED BY: RAJPREET SINGH
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN

LAST REVISION: DATE PLOTTED => 24-MAY-2011
05-09-11 TIME PLOTTED => 13:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	14	38

Paul Matos 05-09-11
REGISTERED ELECTRICAL ENGINEER

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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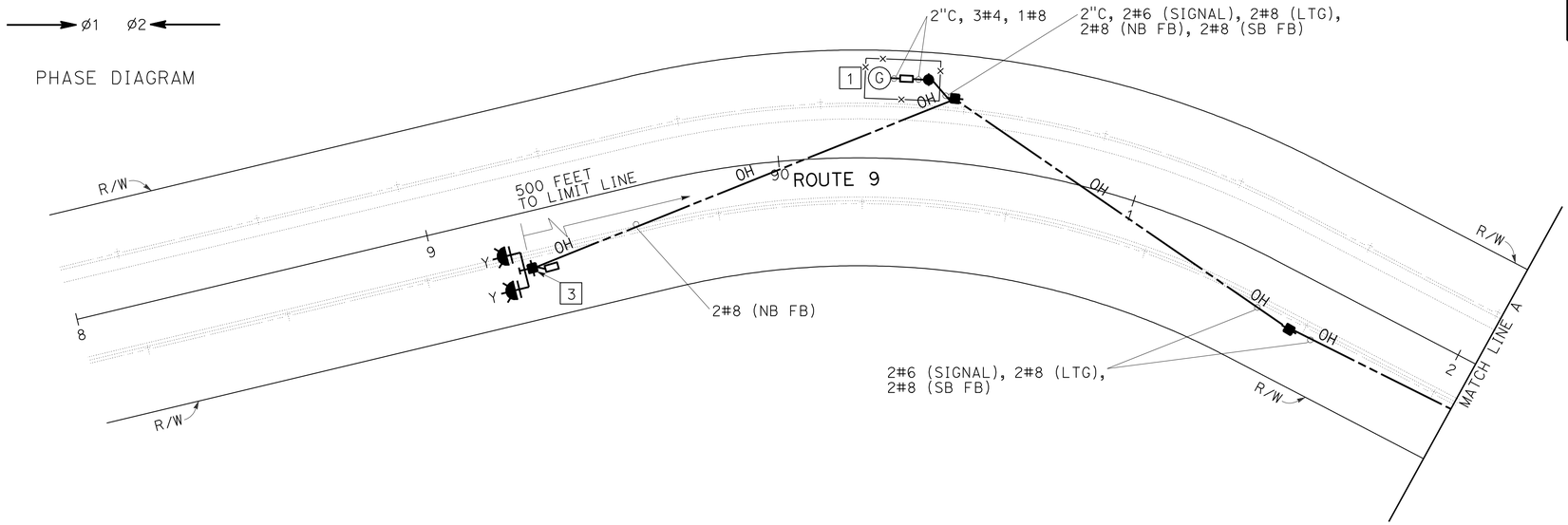
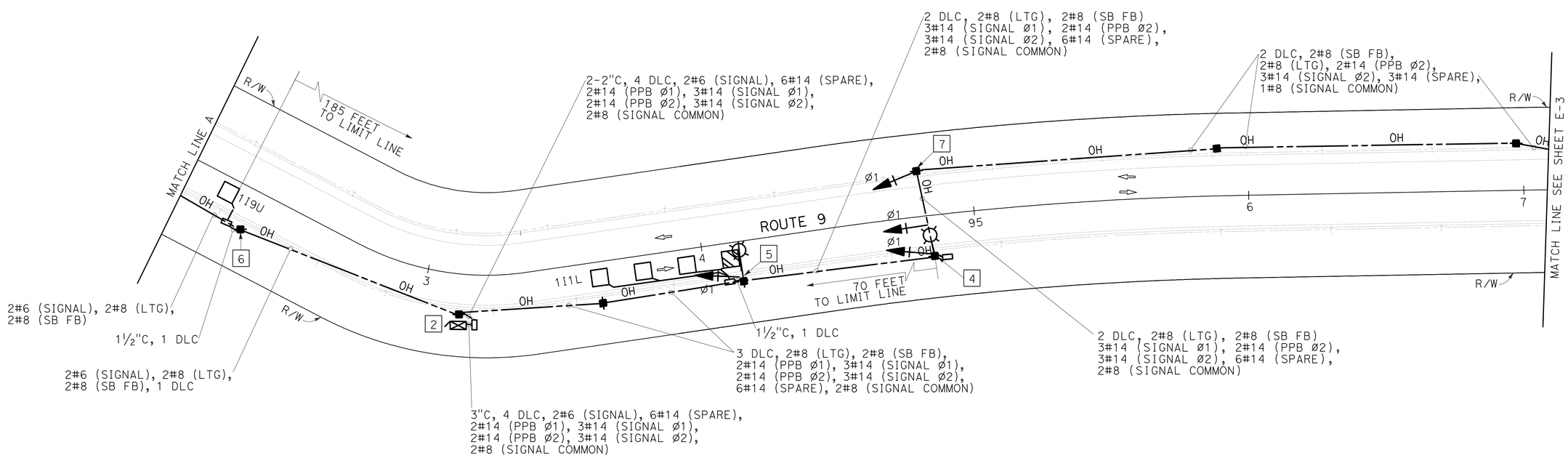
NOTE: FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

PHASE DIAGRAM





THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

TEMPORARY SIGNAL SYSTEM

SCALE: 1" = 20'

E-2

REVISED BY | DATE REVISED
PAUL MATOS | RAJPREET SINGH
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN

LAST REVISION 05-09-11 | DATE PLOTTED => 24-MAY-2011 | TIME PLOTTED => 13:26

BORDER LAST REVISED 7/2/2010 | USERNAME => trlim | DGN FILE => 43S620ua002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1515 | PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	15	38

Paul Matos 05-09-11
REGISTERED ELECTRICAL ENGINEER

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
PAUL MATOS
No. 18757
Exp. 6/30/11
ELECTRICAL
STATE OF CALIFORNIA

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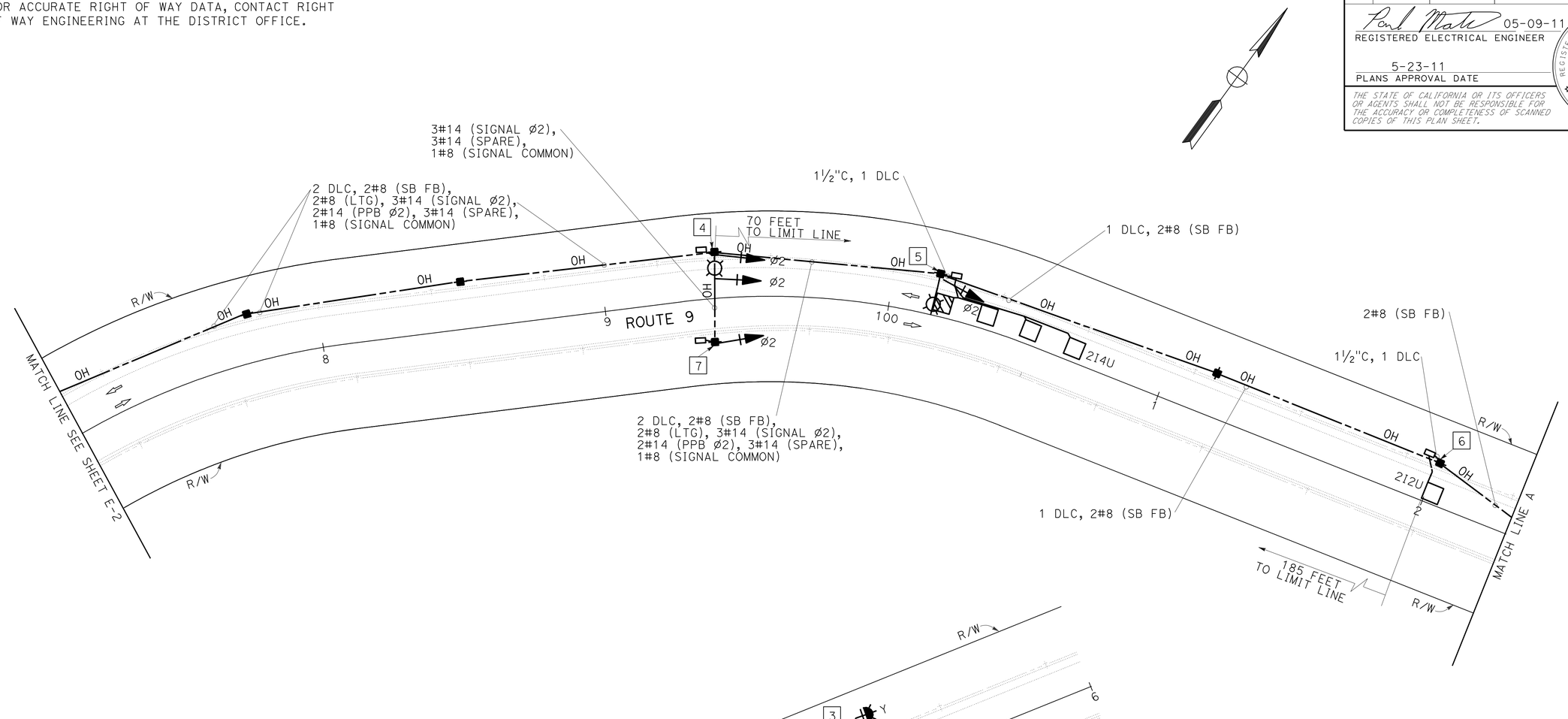
NOTE: FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

TEMPORARY SIGNAL SYSTEM

SCALE: 1" = 20′ **E-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: PAUL MATOS
CHECKED BY: RAJPREET SINGH
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 13:26

BORDER LAST REVISED 7/2/2010
USERNAME => trlim
DGN FILE => 43S620ua003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	16	38

Paul Matos 05-09-11
REGISTERED ELECTRICAL ENGINEER

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAUL MATOS — No. 18757 — Exp. 6/30/11 ELECTRICAL — STATE OF CALIFORNIA

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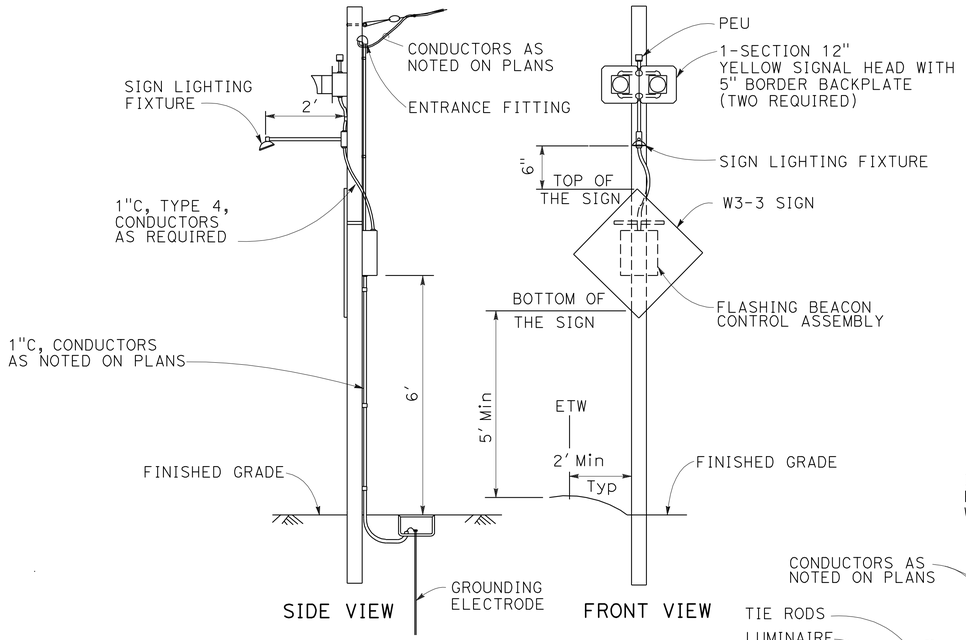
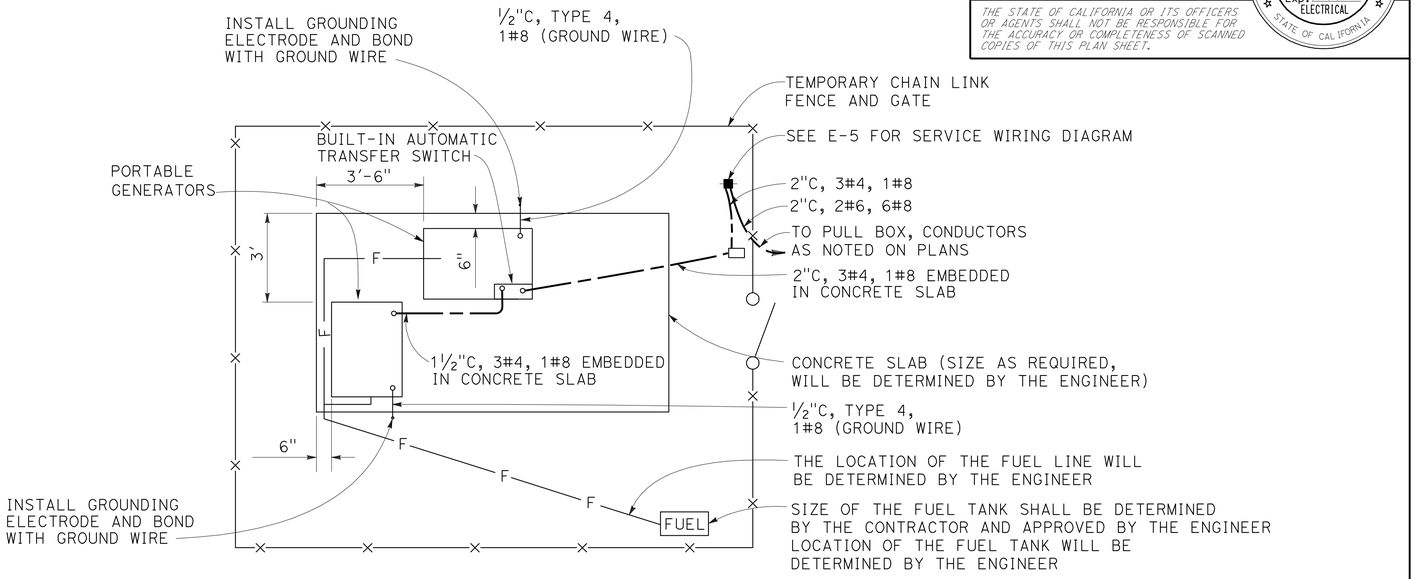
NOTE:

FOR POLE DETAILS, SEE SHEETS SES-1 AND SES-2.

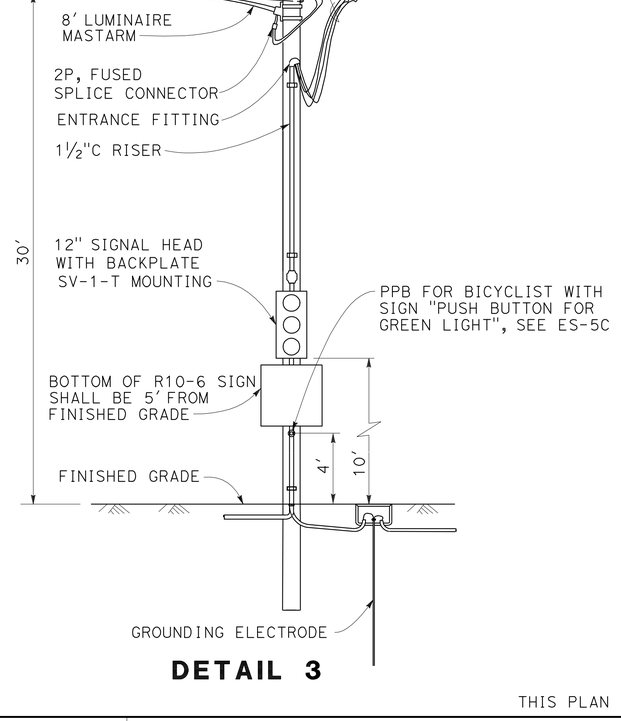


DETAIL 1

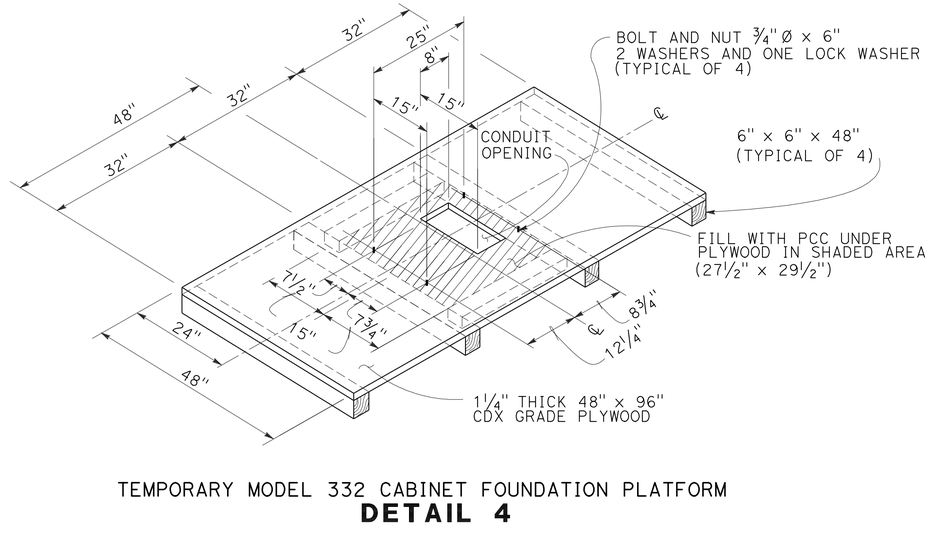


INSTALL CONDUIT RUNS AS DIRECTED BY THE ENGINEER

DETAIL 2



DETAIL 3



TEMPORARY MODEL 332 CABINET FOUNDATION PLATFORM

DETAIL 4

TEMPORARY SIGNAL SYSTEM
(ELECTRICAL DETAILS)

NO SCALE

E-4

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: RAJPREET SINGH
CHECKED BY: PAUL MATOS
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 24-MAY-2011
05-09-11 | TIME PLOTTED => 13:09

BORDER LAST REVISED 7/2/2010
USERNAME => trstrk
DGN FILE => 43S620ua004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 04000010141

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SCI	9	1.6/5.3	17	38

Paul Matos 05-09-11
REGISTERED ELECTRICAL ENGINEER

5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — PAUL MATOS — No. 18757 — Exp. 6/30/11 — ELECTRICAL — STATE OF CALIFORNIA

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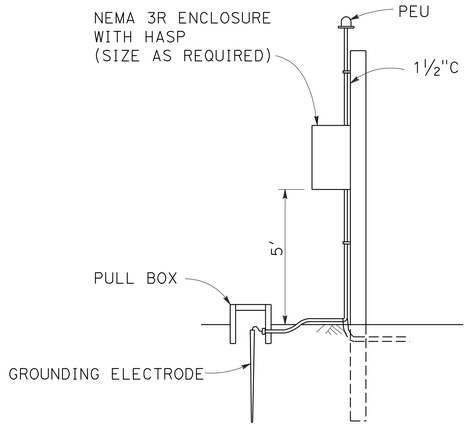
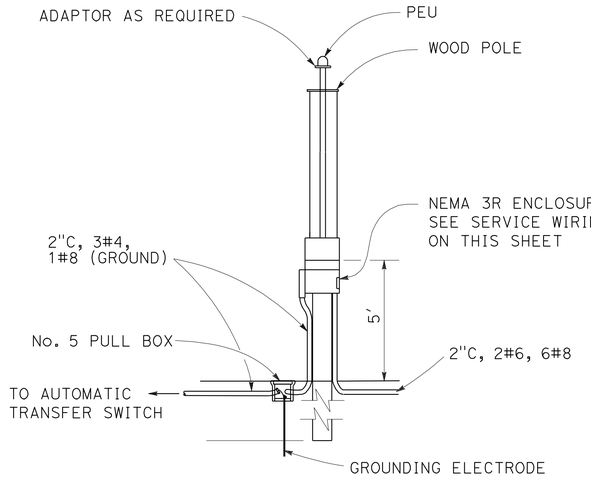
NOTE:

FOR POLE DETAILS, SEE SHEETS SES-1 AND SES-2.



SIDE VIEW

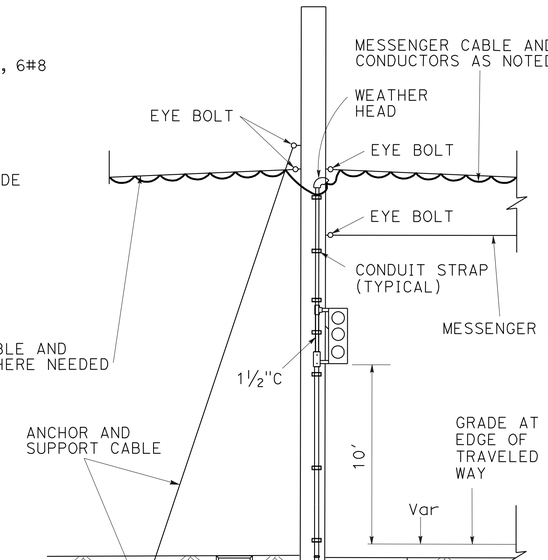
DETAIL 5



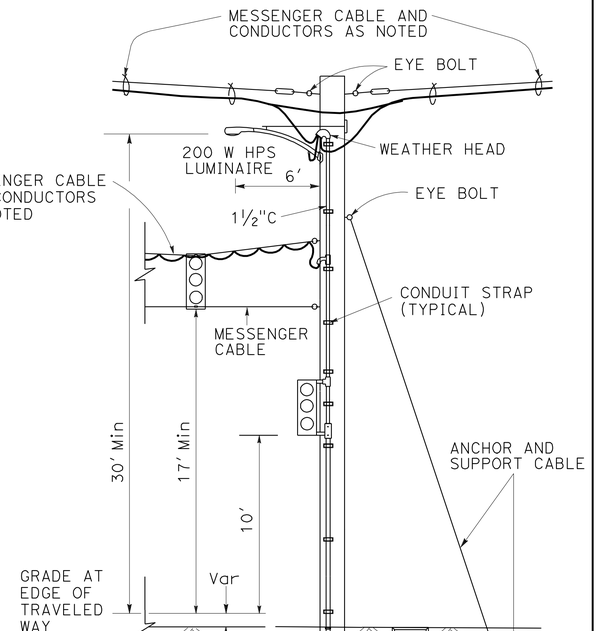
FRONT VIEW

DETAIL 6

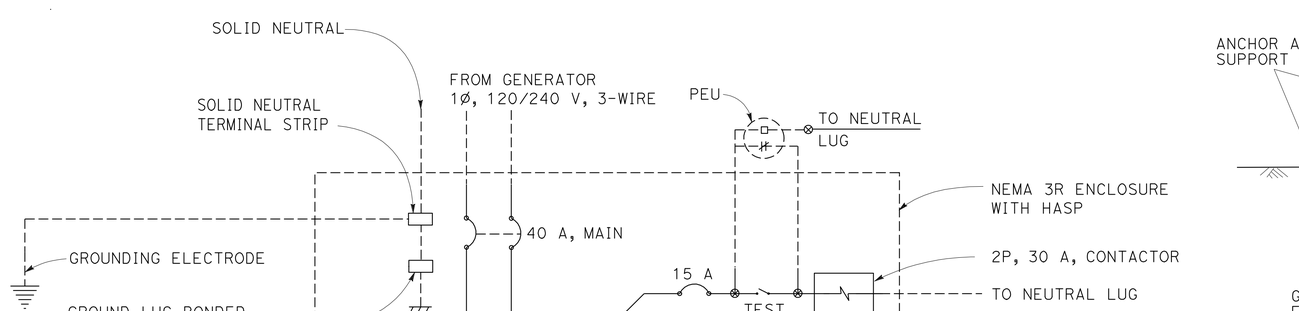
ELECTRICAL SERVICE ON WOOD POLE



DETAIL 7



DETAIL 8



PROVIDE ITEMS SHOWN IN THIS DIAGRAM
SEE RSP ES-2C AND RSP ES-2D FOR MORE INFORMATION.

120/240 V

SERVICE WIRING DIAGRAM

TEMPORARY SIGNAL SYSTEM
(ELECTRICAL DETAILS)

NO SCALE **E-5**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® 06-ELECTRICAL DESIGN
FUNCTIONAL SUPERVISOR: ALI BAKHOUD
CALCULATED-DESIGNED BY: PAUL MATOS
CHECKED BY: RAJPREET SINGH
REVISED BY
DATE REVISED

LAST REVISION 05-09-11
DATE PLOTTED => 24-MAY-2011
TIME PLOTTED => 13:09

BORDER LAST REVISED 7/2/2010
USERNAME => trstrk
DGN FILE => 43S620ua005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1515
PROJECT NUMBER & PHASE 04000010141

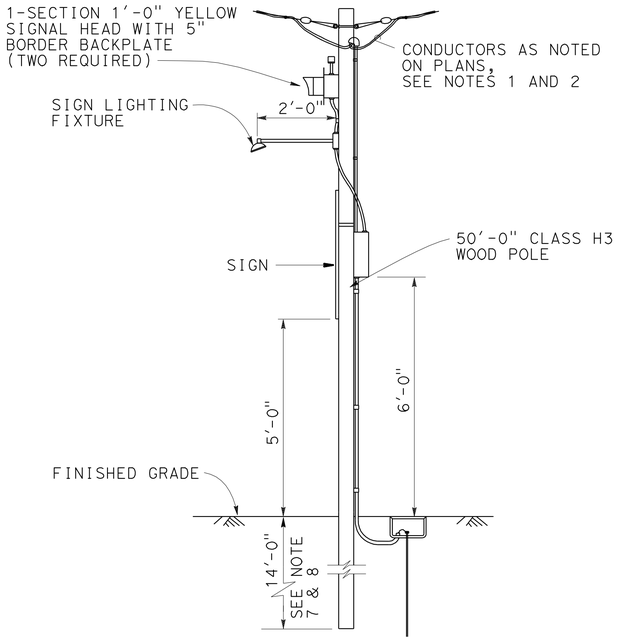
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SCI	9	1.6/5.3	18	38

REGISTERED CIVIL ENGINEER DATE

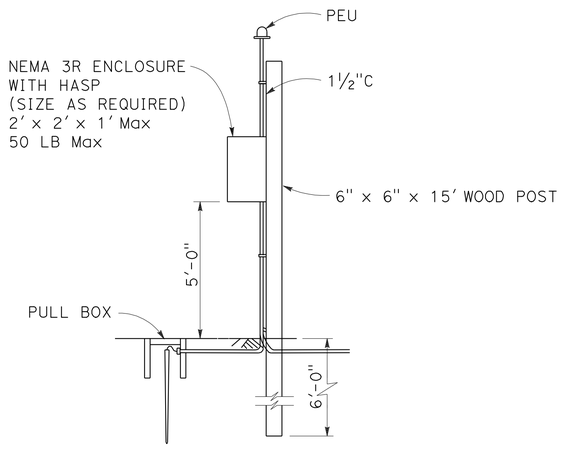
5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAMARA S. MARCHENKO — No. C76837 — Exp. 12/31/12 — CIVIL — STATE OF CALIFORNIA

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

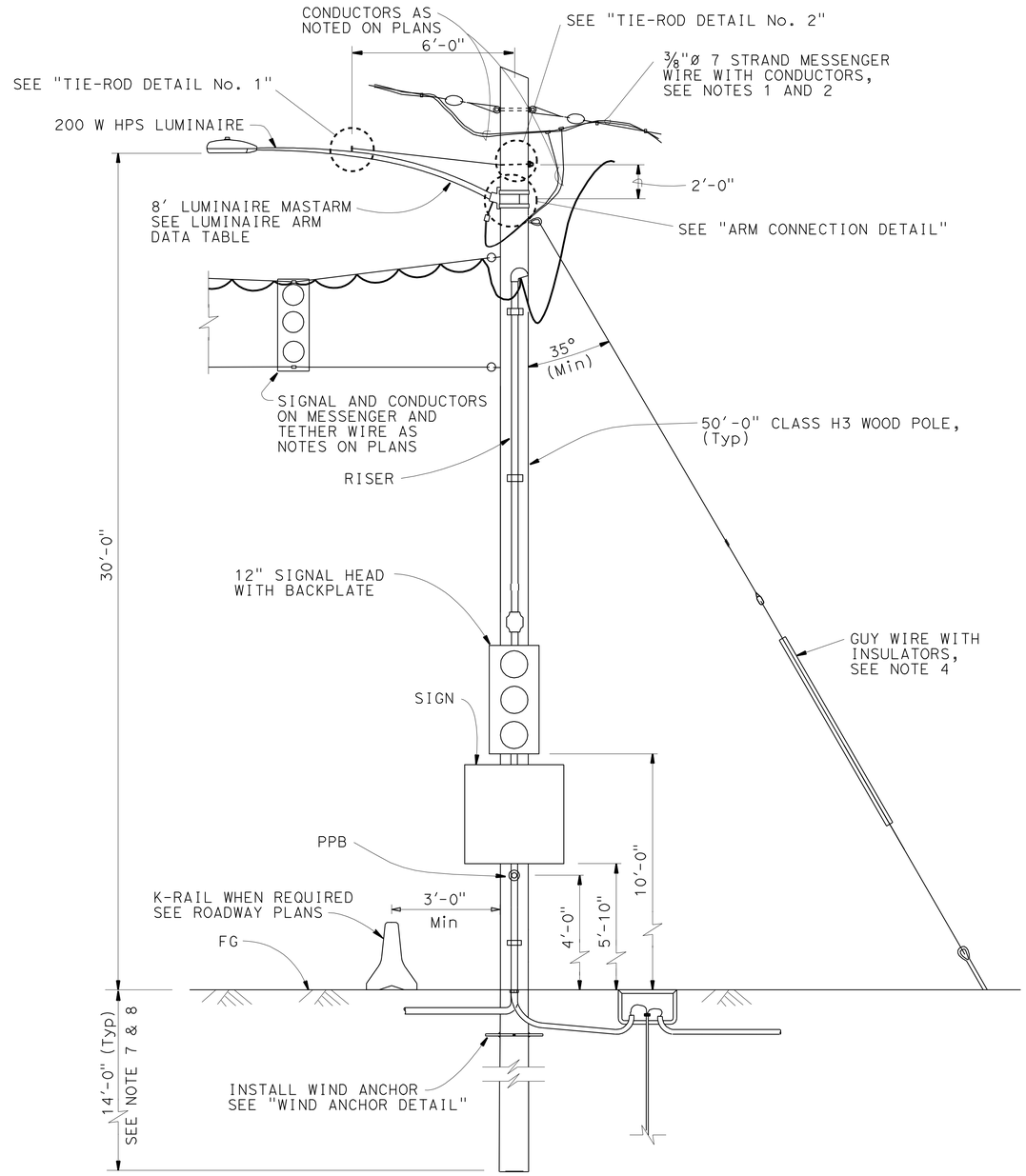


WOOD POLE SUPPORT WITHOUT LUMINAIRE



TEMPORARY WOOD POST DETAIL

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



LUMINAIRE ARM DATA			
Projected Length	N Rise	Min OD At Pole	Thickness
8'-0"	2'-6"	3½"	0.1196"

Refer to ES-6D for Luminaire arm details

TYPICAL WOOD POLE SUPPORT WITH LUMINAIRE

NO SCALE

GENERAL NOTES:

SPECIFICATIONS

Design: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals dated 2001.

LOADING

Wind Loadings: 85 MPH

UNIT STRESSES

Timber Poles: Fb = 1850 Tapered treated round pole
Fv = 110 psi ASTM D2899 Standard
E = 1500 x 10^3 psi

TREATMENT

To conform with Section 86 Standard Specifications

SPECIFICATIONS

Caltrans Standard Specifications May 2006
ANSI Wood Poles
Utility Grade Wires

NOTES:

1. All overhead cables shall be slack spanned with 25'-0" minimum overhead clearance.
2. Conductors shall be suspended from span-wire as follows: A) Main run ⅜" span-wire with 4.5%± sag and ¼" tether wire with 2% sag where required. No spare conductors allowed except as noted.
3. Overhead line construction not specifically covered here shall conform with the provisions of General Order No. 95 of Public Utilities Commission.
4. Wood poles shall be stabilized using guy wires, breast blocks or rakes at each dead end, corner, drop or line deviation more than 15° from straight line. The direction of the guy shall counteract the resultant of unbalanced force applied to pole. Where space or conflict prevent guy installation, a diagonal brace shall be used. The brace shall be wood and shall be connected to the pole by means to satisfy structural and electrical requirements. The direction of the brace shall counteract the resultant of unbalanced horizontal force of 4000 pounds (Min) applied to the pole.
5. Guy shall be attached to pole as nearly as practical to the center of conductors load, or 3'-0" Max otherwise, See Note 4.
6. All attachments shall be mounted with stainless steel straps or other manufacturers methods without drilling holes in pole, except as shown. Drilling through pole will require the Engineer's approval.
7. Foundation design is based on AASHTO 2001 article 13.6 Broms' approximate procedure assuming a cohessionless material. The angle of Internal friction used is 30° and unit weight of soil used is 120 lb/ft^3. The Contractor to verify actual soil condition.
8. If pole is located on a steep slope add 2 feet extra for embedment.
9. See Sheets SES-2 and SES-3 for details.
10. For details not shown, see "2006 STANDARD PLANS" and "2006 REVISED STANDARD PLANS"
11. All temporary poles support OH Conductors. Attach luminaire mast arm and/or combination of attachments as specified at locations where indicated on Electrical Sheets.

BRANCH CHIEF	JAMES SAGAR		
DESIGN	BY T MARCHENKO	CHECKED N KANEPATHIPILLAI	
DETAILS	BY H NGUYEN	CHECKED N KANEPATHIPILLAI	
QUANTITIES	BY	CHECKED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH B

BRIDGE NO. N/A
POST MILE 1.6/5.3

TEMPORARY SIGNAL SYSTEM
TEMPORARY WOOD POLE

SES-1

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0400001014
CONTRACT NO.: 04-3S6201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
4-27-11					

FILE => spec_des_br_prj/2011sd/04-3s6201_ses1.dgn

USERNAME => tfrstrk DATE PLOTTED => 24-MAY-2011 TIME PLOTTED => 13:26

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SCI	9	1.6/5.3	19	38

REGISTERED CIVIL ENGINEER — DATE

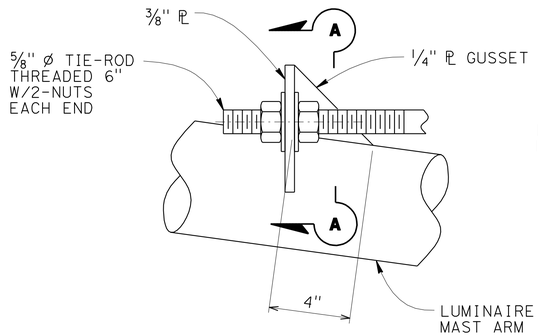
5-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAMARA S. MARCHENKO — No. C76837 — Exp. 12/31/12 — CIVIL — STATE OF CALIFORNIA

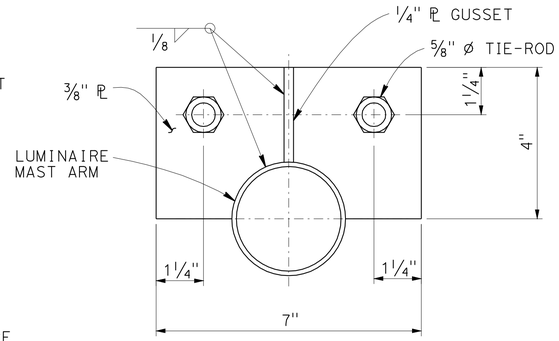
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

NOTES:

1. All hardware and steel shall be galvanized after fabrication.
2. Arm Base connection details shall be in compliance with Standard Plans Detail Sheet ES-6D with noted modifications.
3. 2000 LB Min capacity strap system shall be used for top and bottom of plate.
4. The Contractor to verify pole dimensions at Tie-Rod attachment height. Fabricate 8" flat bar with "L" Dimension to maintain an open gap between encasement in finished installation.

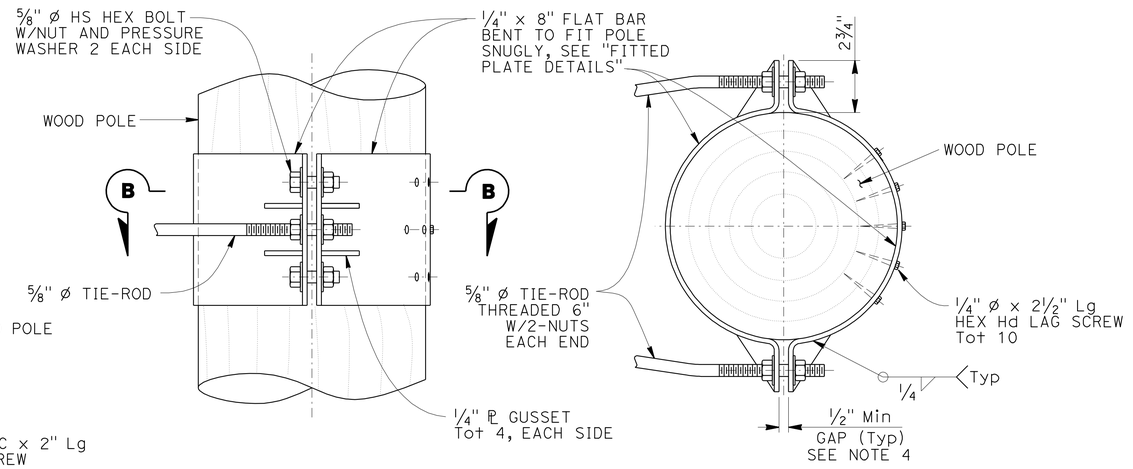


ELEVATION



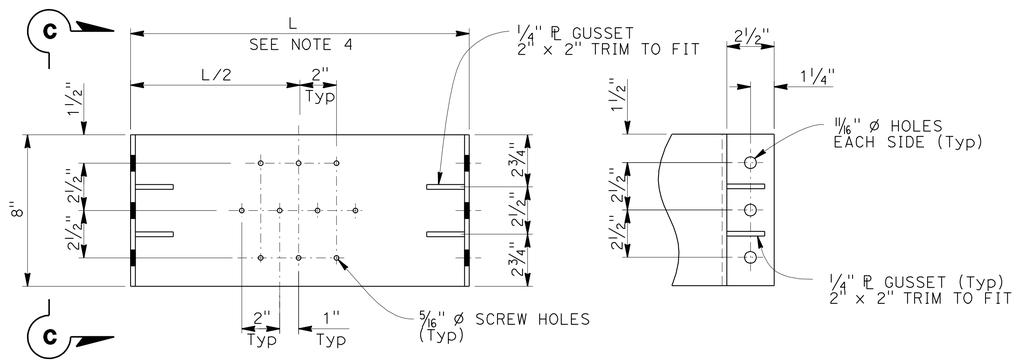
SECTION A-A

TIE-ROD DETAIL No.1



ELEVATION **SECTION B-B**

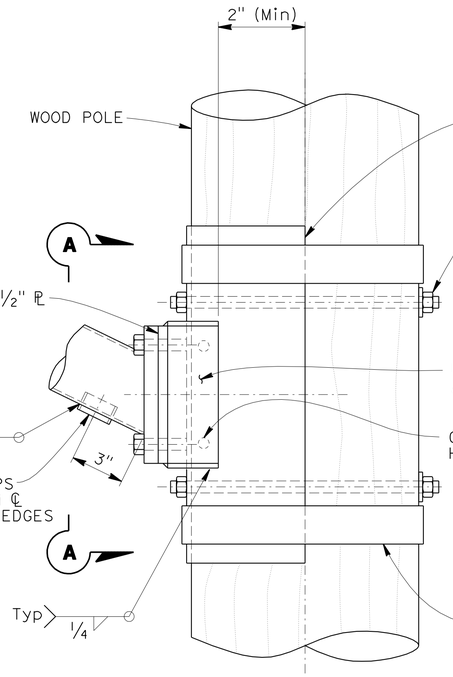
TIE-ROD DETAIL No. 2



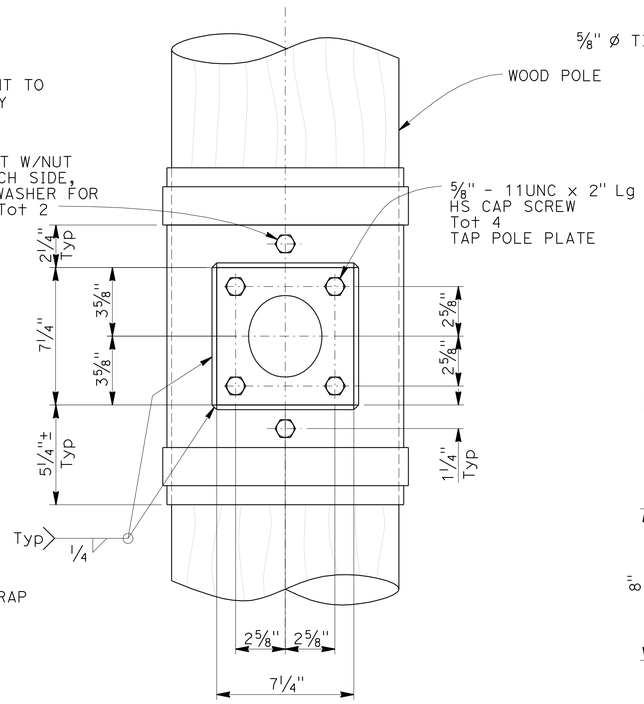
ELEVATION **SECTION C-C**

FITTED PLATE DETAILS

Note: 2 Required (1 w/screw holes, 1 without)



ELEVATION



VIEW A-A

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

ARM CONNECTION DETAIL

NO SCALE

BRANCH CHIEF	JAMES SAGAR		
DESIGN	BY T MARCHENKO	CHECKED N KANEPATHIPILLAI	
DETAILS	BY H NGUYEN	CHECKED N KANEPATHIPILLAI	
QUANTITIES	BY	CHECKED	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH **B**

BRIDGE NO.	TEMPORARY SIGNAL SYSTEM	SES-2
N/A	WOOD POLE MOUNTING DETAILS	
POST MILE 1.6/5.3		

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0400001014 CONTRACT NO.: 04-3S6201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
4-27-11					

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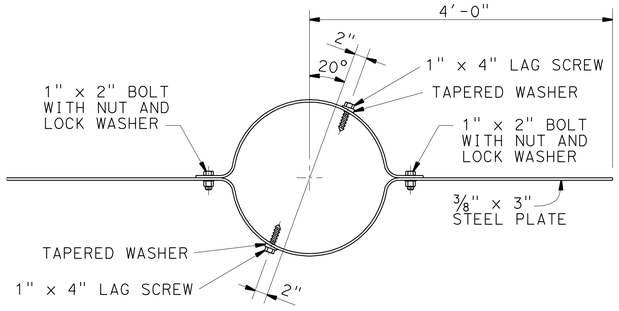
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SCI	9	1.6/5.3	20	38

REGISTERED CIVIL ENGINEER DATE

5-23-11
PLANS APPROVAL DATE

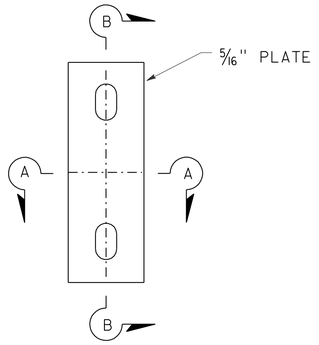
REGISTERED PROFESSIONAL ENGINEER — TAMARA S. MARCHENKO — No. C76837 — Exp. 12/31/12 — CIVIL — STATE OF CALIFORNIA

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



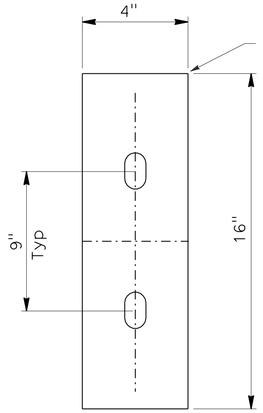
WIND ANCHOR

To be installed perpendicular to mast arms and 2'-0" Min below grade



COMPARTMENT PLATE

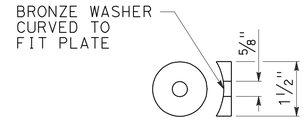
Modified pole plate see Standard Detail "POLE PLATE" for side mountings



BACK PLATE

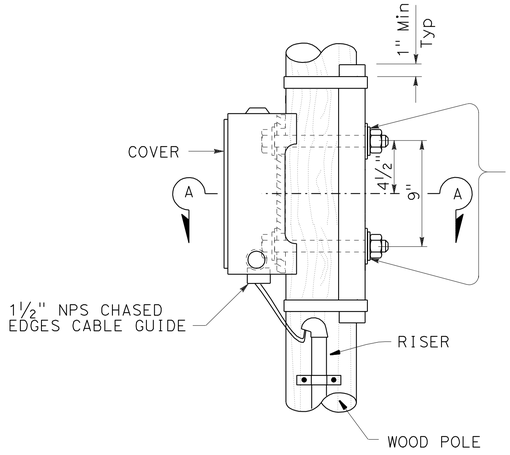
NOTE:

1. The Contractor to verify soil condition, slope, and adjust anchoring to satisfy basic design requirements Note 7 SES-1

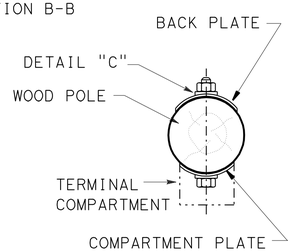


DETAIL "C"

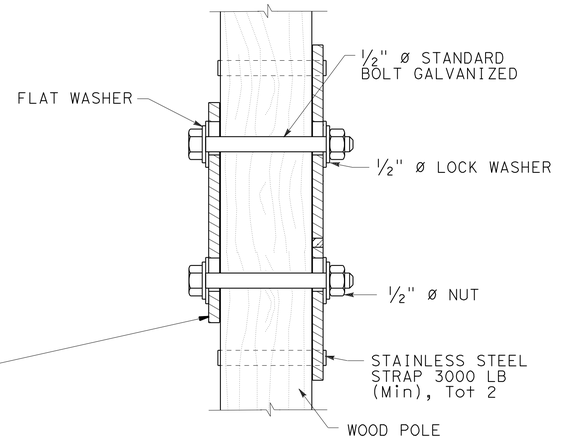
GUY WIRE INSTALLATION DETAIL



SIDE MOUNTING
TERMINAL COMPARTMENT



SECTION A-A



SECTION B-B

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

SIGNAL HEADS MOUNTING

For Details Not Shown See RSP-ES-4D Sheet

NO SCALE

BRANCH CHIEF JAMES SAGAR

	BY	CHECKED
DESIGN	TAMARA MARCHENKO	N KANEPATHIPILLAI
DETAILS	HUNG NGUYEN	N KANEPATHIPILLAI
QUANTITIES	BY	CHECKED

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH B

BRIDGE NO. N/A
POST MILE 1.6/5.3

TEMPORARY SIGNAL SYSTEM
WOOD POLE DETAILS

SES-3

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0400001014 CONTRACT NO.: 04-3S6201

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES: 4-21-11

SHEET OF

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USERNAME => trstrk DATE PLOTTED => 24-MAY-2011 TIME PLOTTED => 13:26

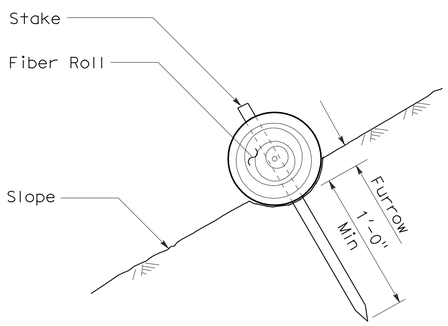
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	21	38

LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

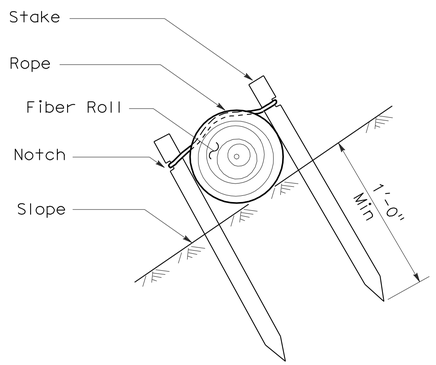
LICENSED LANDSCAPE ARCHITECT
Gregory A. Bolzer 3578
Signature
02-28-11
Renewal Date
03-04-09
Date
STATE OF CALIFORNIA

To accompany plans dated 5-23-11



SECTION

FIBER ROLL (TYPE 1)



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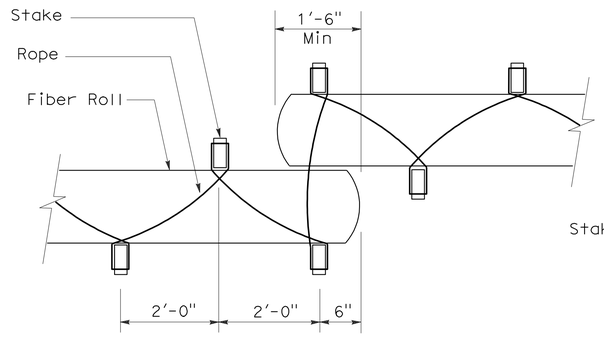
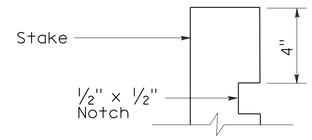


PLAN

FIBER ROLL (TYPE 2)

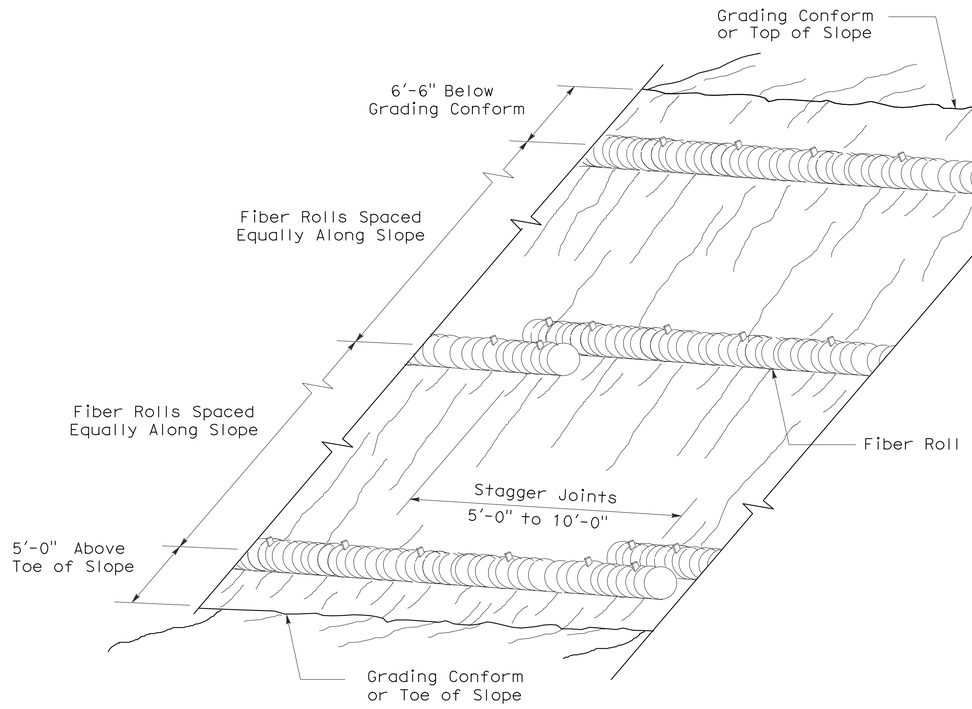


ELEVATION

STAKE NOTCH DETAIL

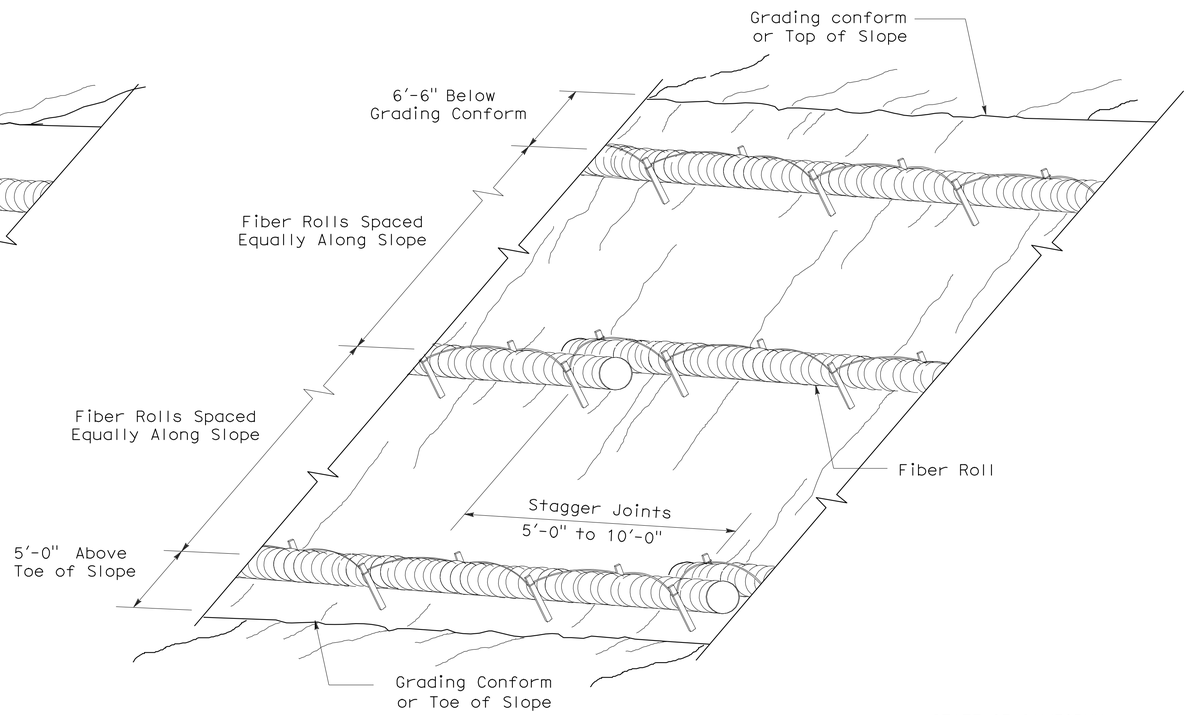
NOTES:

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



PERSPECTIVE

FIBER ROLL (TYPE 1)



PERSPECTIVE

FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS (FIBER ROLL)

NO SCALE

RNSP H51 DATED APRIL 3, 2009 SUPERSEDES NSP H51 DATED DECEMBER 1, 2006 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED NEW STANDARD PLAN RNSP H51

2006 REVISED NEW STANDARD PLAN RNSP H51

3-4-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	22	38

Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

June 5, 2009
PLANS APPROVAL DATE

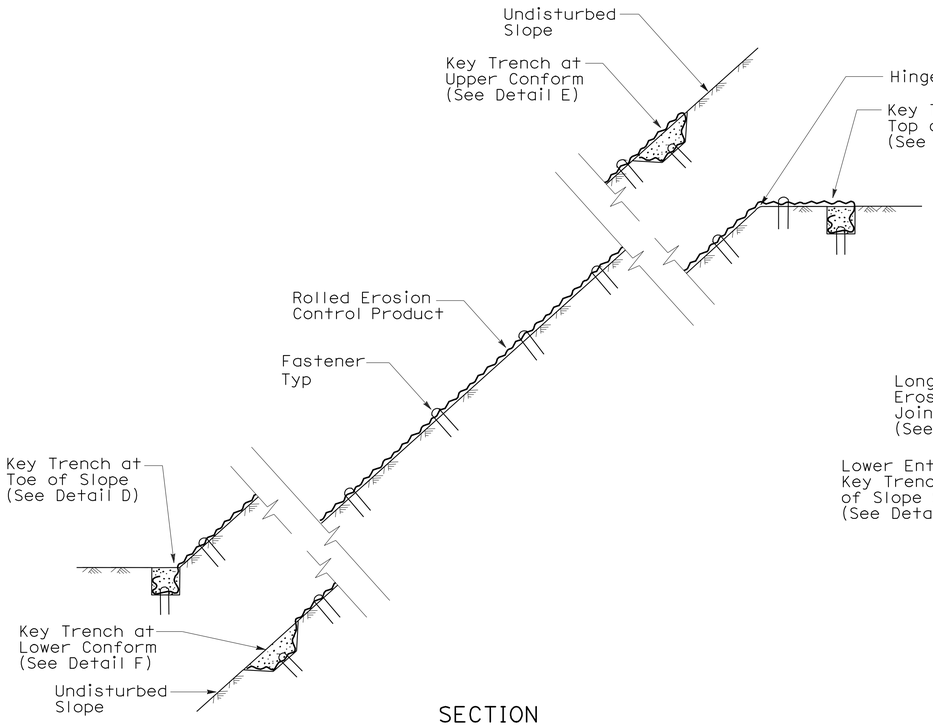
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer 2578 — Signature 2-28-11 Renewal Date 5-14-09 Date — STATE OF CALIFORNIA

To accompany plans dated 5-23-11

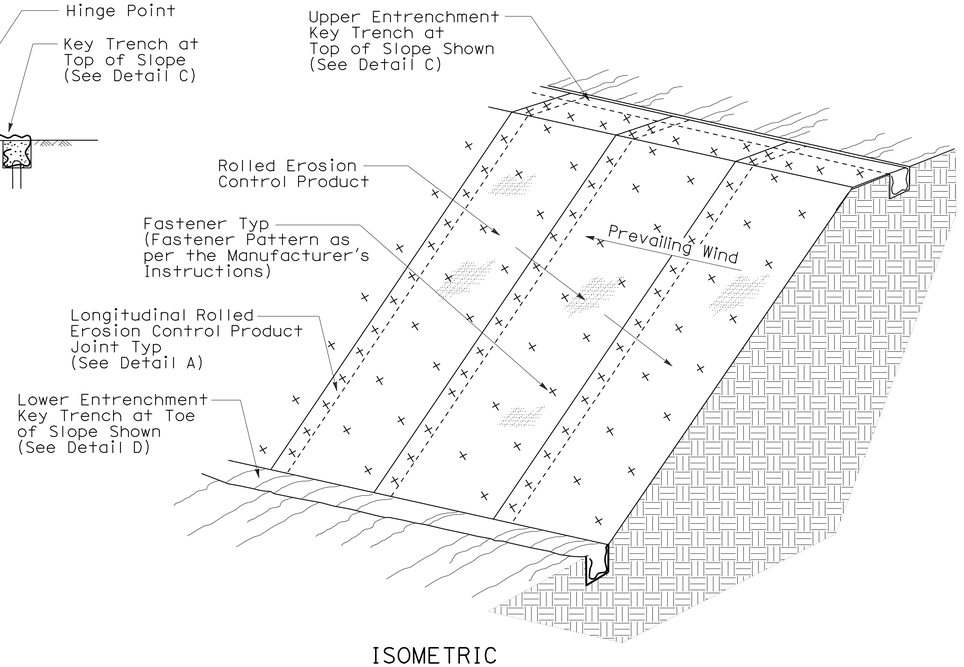
NOTE:

1. Fiber Roll/Compost Sock shown for reference purposes only.
2. If transverse rolled erosion control product joints are required on slopes, see Detail B.



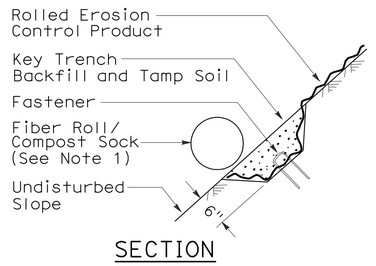
SECTION

ROLLED EROSION CONTROL PRODUCT ON SLOPE WITH VARIOUS KEY ENTRENCHMENTS



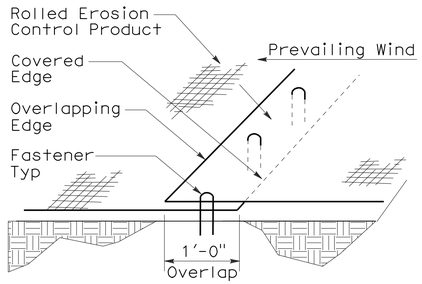
ISOMETRIC

ROLLED EROSION CONTROL PRODUCT ON SLOPE



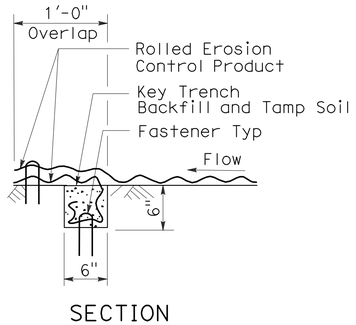
SECTION

DETAIL F KEY TRENCH AT LOWER CONFORM



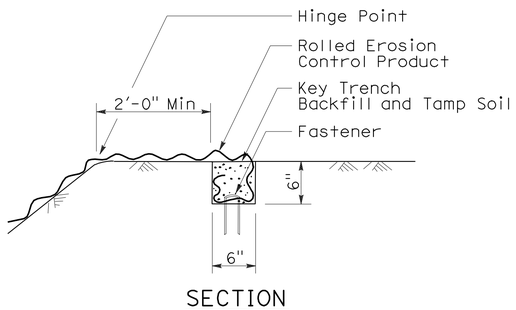
PERSPECTIVE

DETAIL A LONGITUDINAL ROLLED EROSION CONTROL PRODUCT JOINT



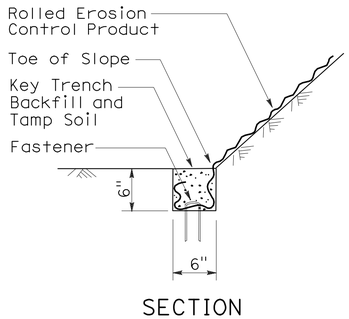
SECTION

DETAIL B TRANSVERSE ROLLED EROSION CONTROL PRODUCT JOINT



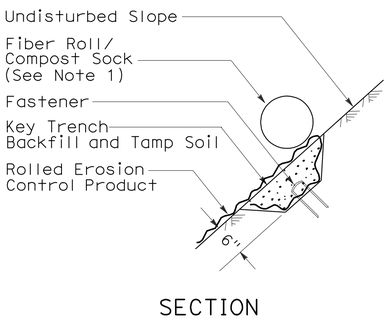
SECTION

DETAIL C KEY TRENCH AT TOP OF SLOPE



SECTION

DETAIL D KEY TRENCH AT TOE OF SLOPE



SECTION

DETAIL E KEY TRENCH AT UPPER CONFORM

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ROLLED EROSION CONTROL PRODUCT

NO SCALE

NSP H53 DATED JUNE 5, 2009 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP H53

2006 NEW STANDARD PLAN NSP H53

3-4-09

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	23	38

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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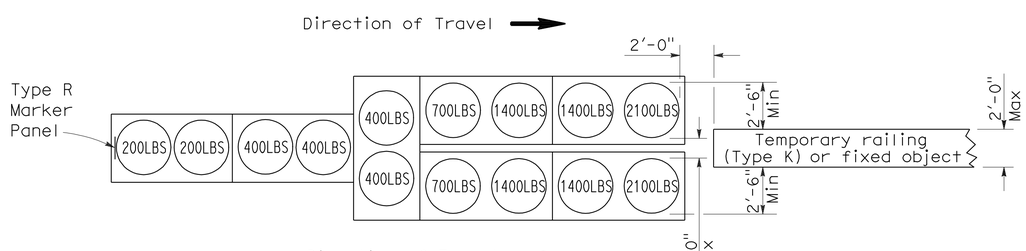
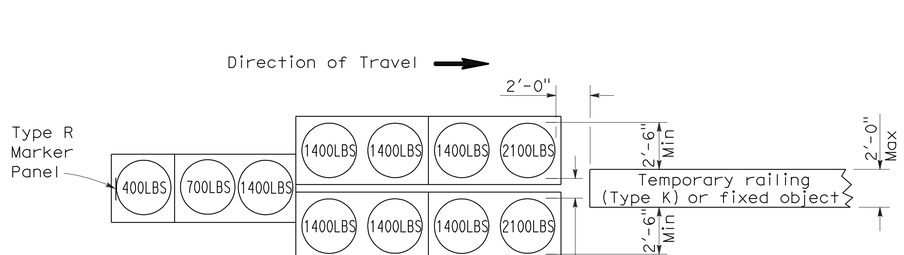
To accompany plans dated 5-23-11



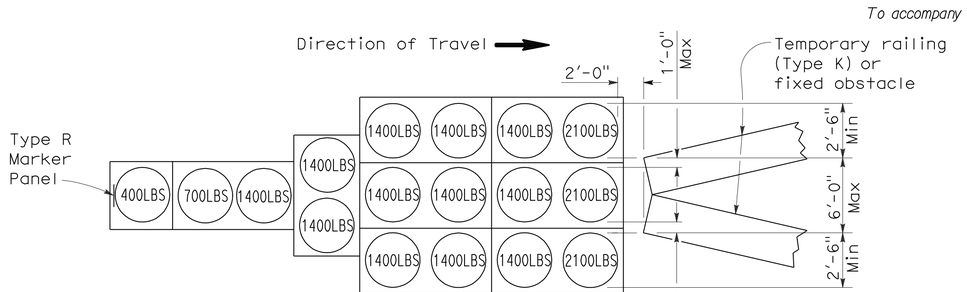
ARRAY 'TU14'

Approach speed 45 mph or more



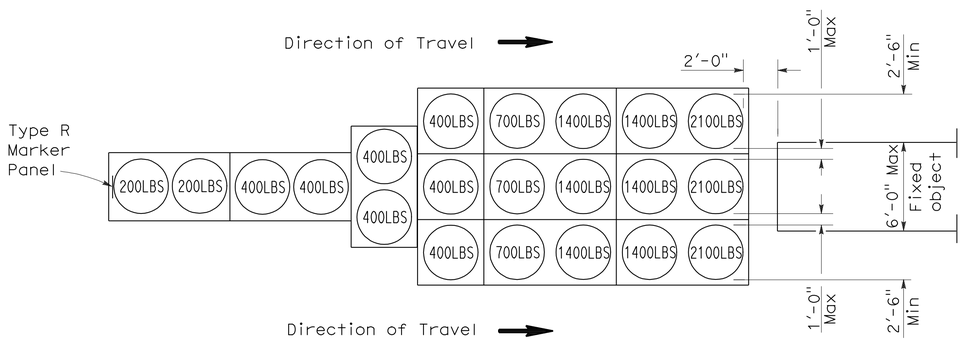
ARRAY 'TU11'

Approach speed less than 45 mph



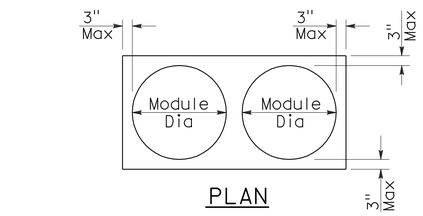
ARRAY 'TU17'

Approach speed less than 45 mph

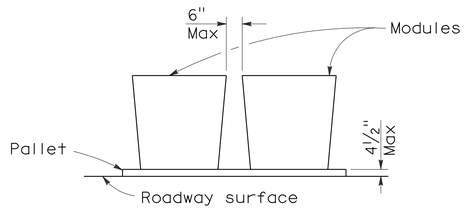


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	24	38

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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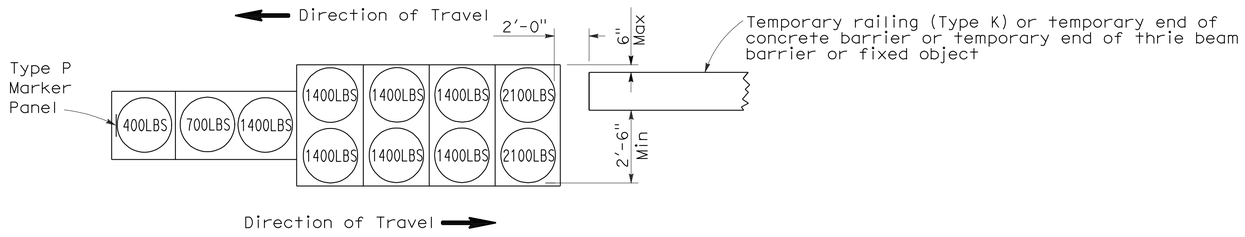
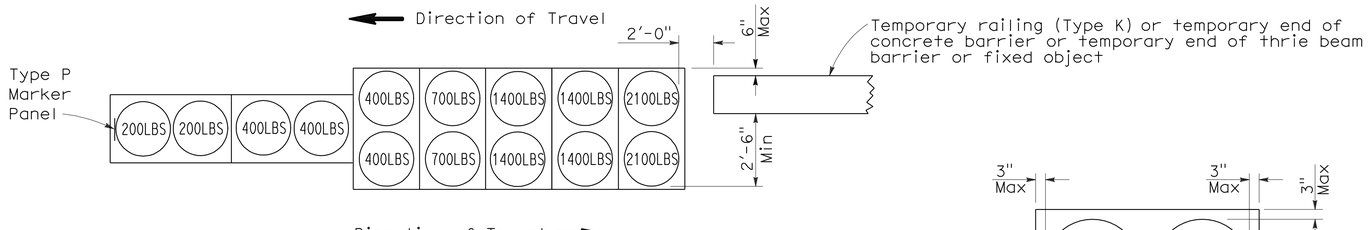
To accompany plans dated 5-23-11



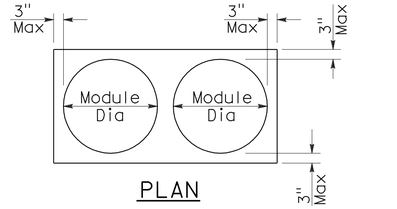
ARRAY 'TB11'

Approach speed less than 45 mph

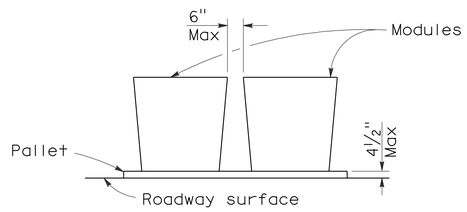


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	25	38

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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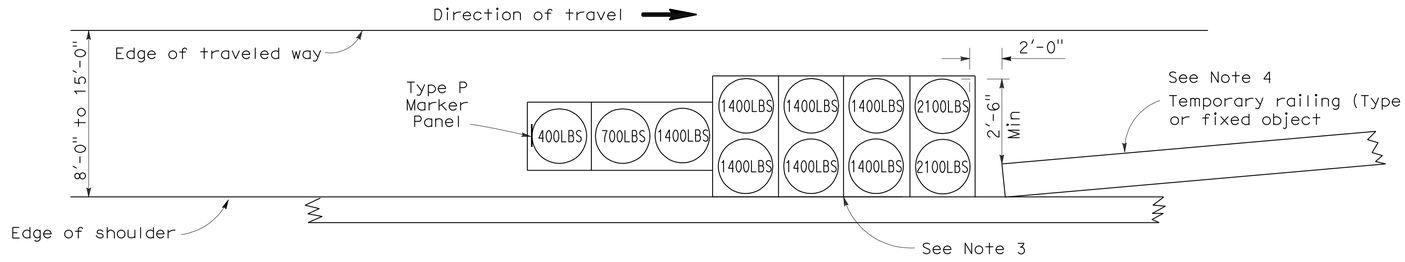
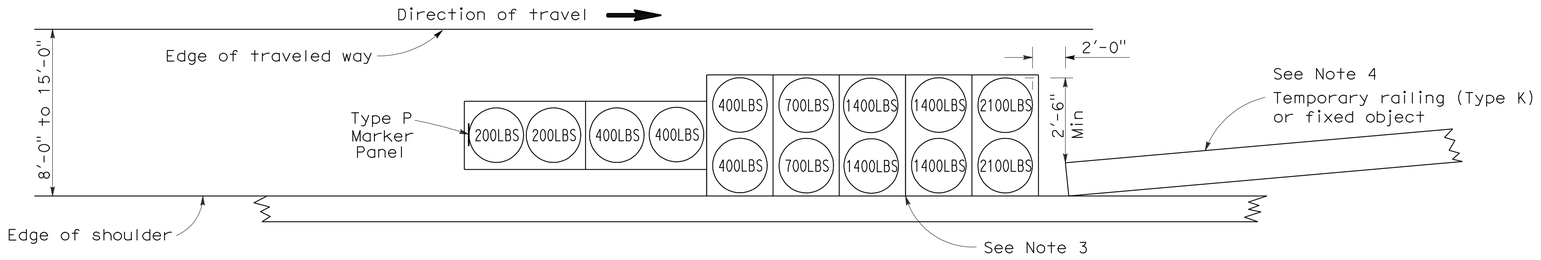
To accompany plans dated 5-23-11



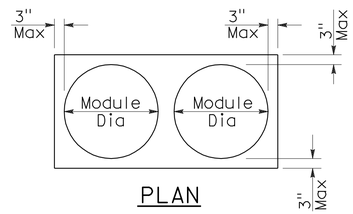
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

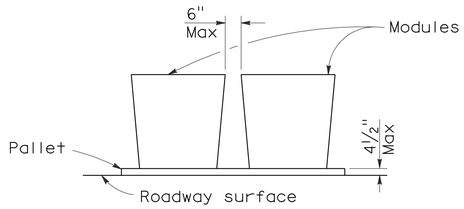


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

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. 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.
4. 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.
5. Temporary crash cushion arrays shall not encroach on the traveled way.
6. Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
7. Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
8. Refer to Standard Plan A73B for marker details.
9. 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.
10. Approach speeds indicated conform to NCHRP 350 Report criteria.
11. 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

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	26	38

Greg W. Edwards
REGISTERED CIVIL ENGINEER

November 17, 2006
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Greg W. Edwards — No. C36386 — Exp. 6-30-08 CIVIL — STATE OF CALIFORNIA

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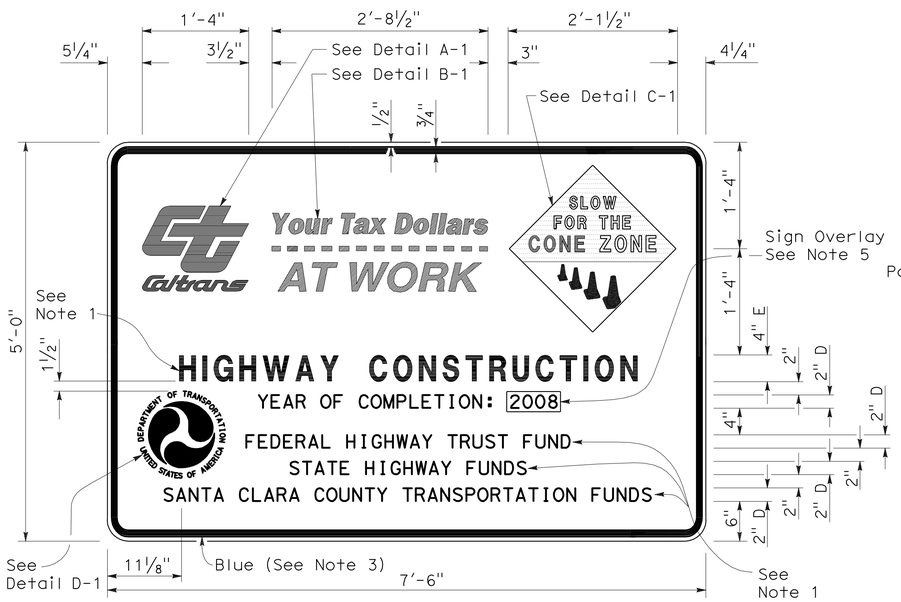
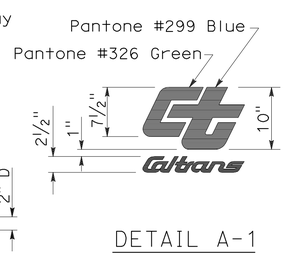
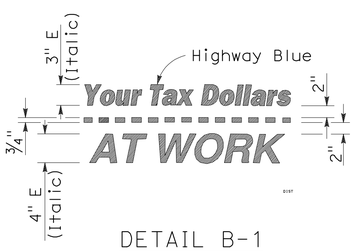
To accompany plans dated 5-23-11



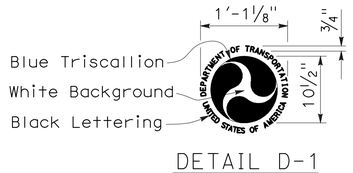
TYPE 1



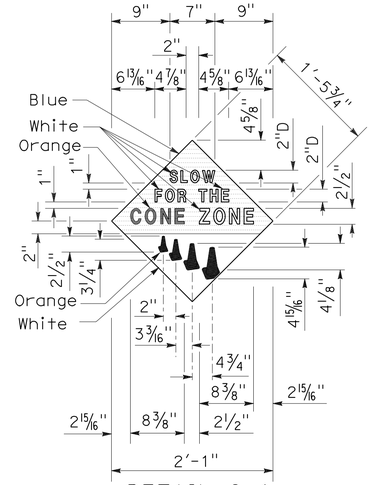
DETAIL A-1



DETAIL B-1
(See Note 3)



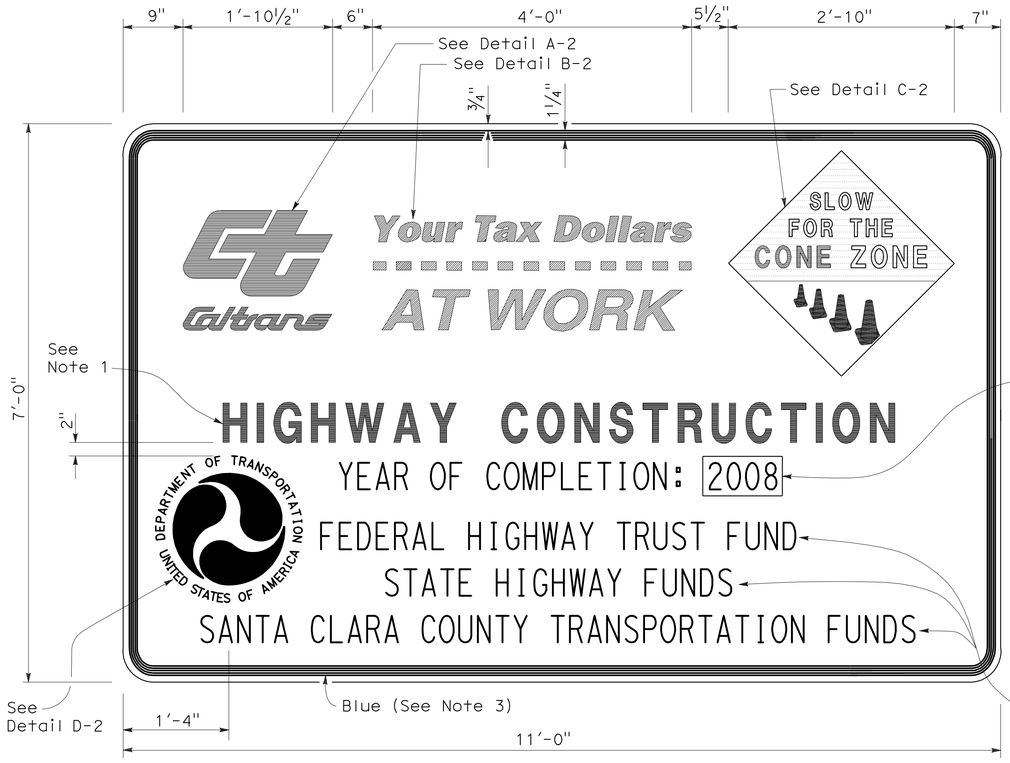
DETAIL D-1
(See Note 6)



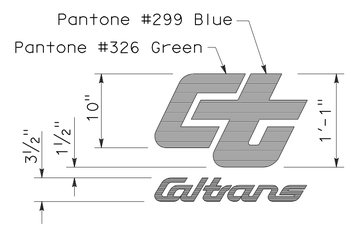
DETAIL C-1
(See Note 4)

NOTES:

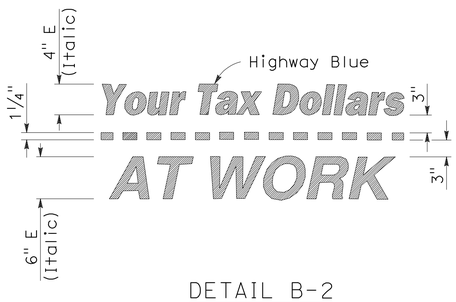
1. The sign messages shown for type of project and fund types are examples only. See the Special Provisions for the applicable type of project and fund type messages to be used.
2. Except as otherwise shown, the legend of sign shall be black on a white background (non-reflective).
3. The border of the signs and details "B-1" and "B-2" shall be blue (non-reflective).
4. The diamond in details "C-1" and "C-2" shall be blue for the background of message, " SLOW FOR THE CONE ZONE", and white background for the orange cones. The color and type of font for the "SLOW FOR THE CONE ZONE" message shall be: "SLOW" white D; "FOR THE" white D; "CONE" orange Arial font; "ZONE" white Arial font.
5. Year of completion of project construction shown on the overlay is an example only. See the Special Provisions.
6. Use when the Project involves Federal Highway Trust Fund.



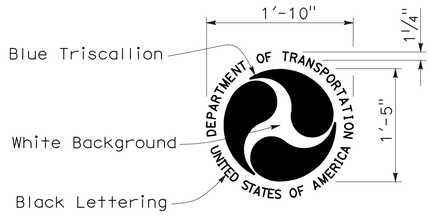
TYPE 2



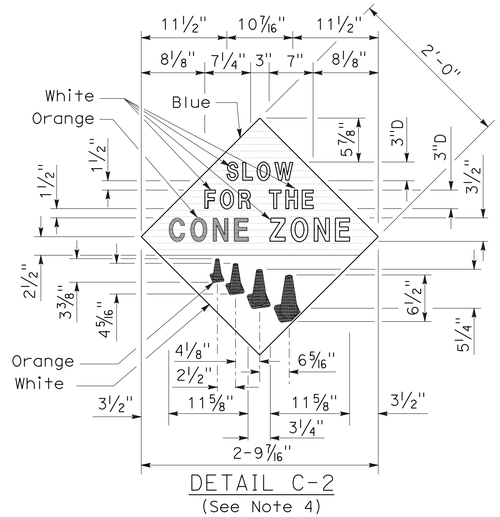
DETAIL A-2



DETAIL B-2
(See Note 3)



DETAIL D-2
(See Note 6)



DETAIL C-2
(See Note 4)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION PROJECT FUNDING IDENTIFICATION SIGNS

NO SCALE

RSP T7 DATED NOVEMBER 17, 2006 SUPERSEDES STANDARD PLAN T7
DATED MAY 1, 2006 - PAGE 217 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T7

2006 REVISED STANDARD PLAN RSP T7

9-7-06

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	27	38

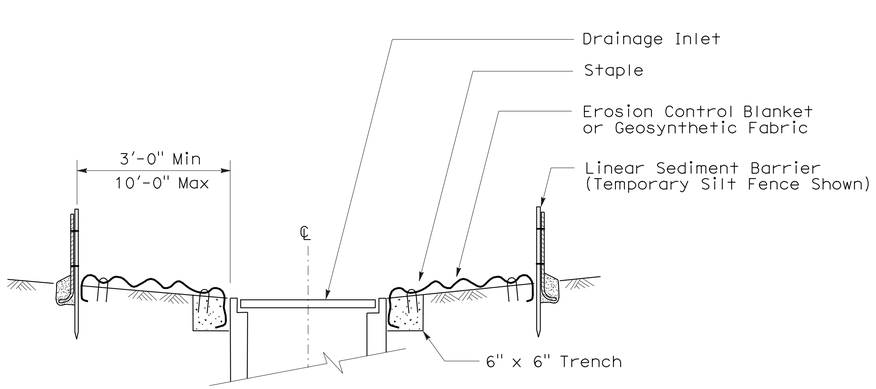
Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS Approval DATE

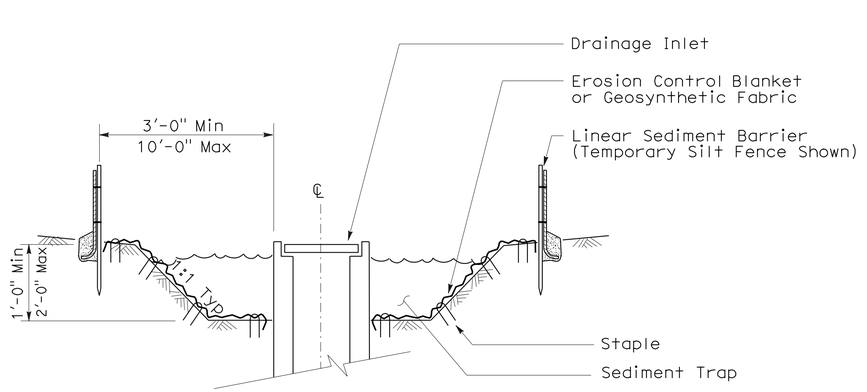
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3035 — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

To accompany plans dated 5-23-11



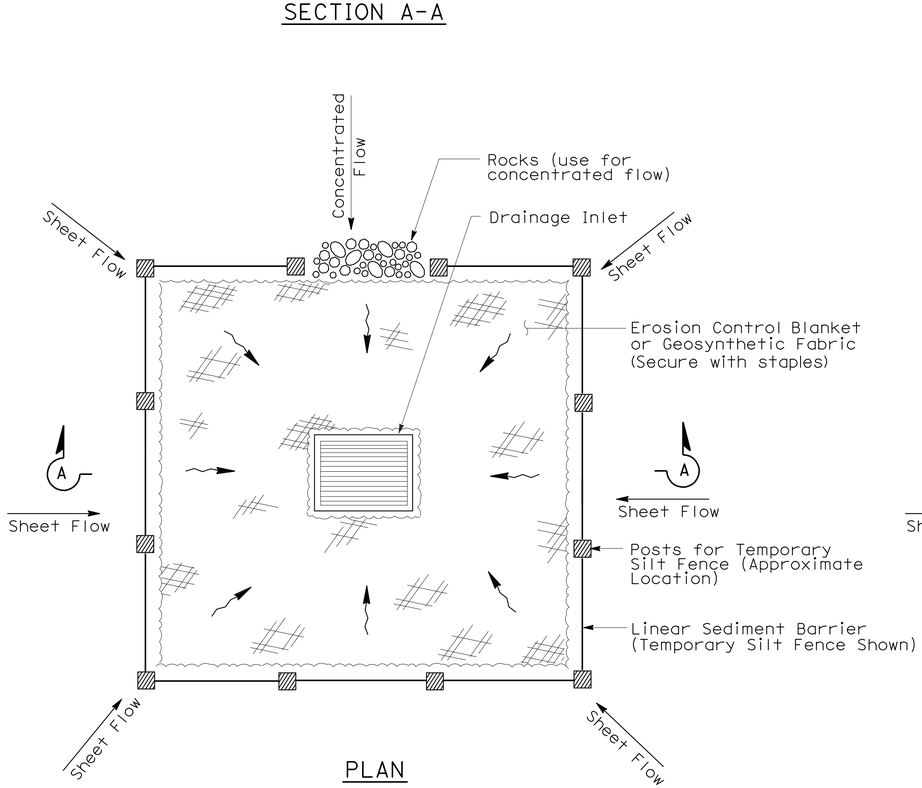
SECTION A-A



SECTION B-B

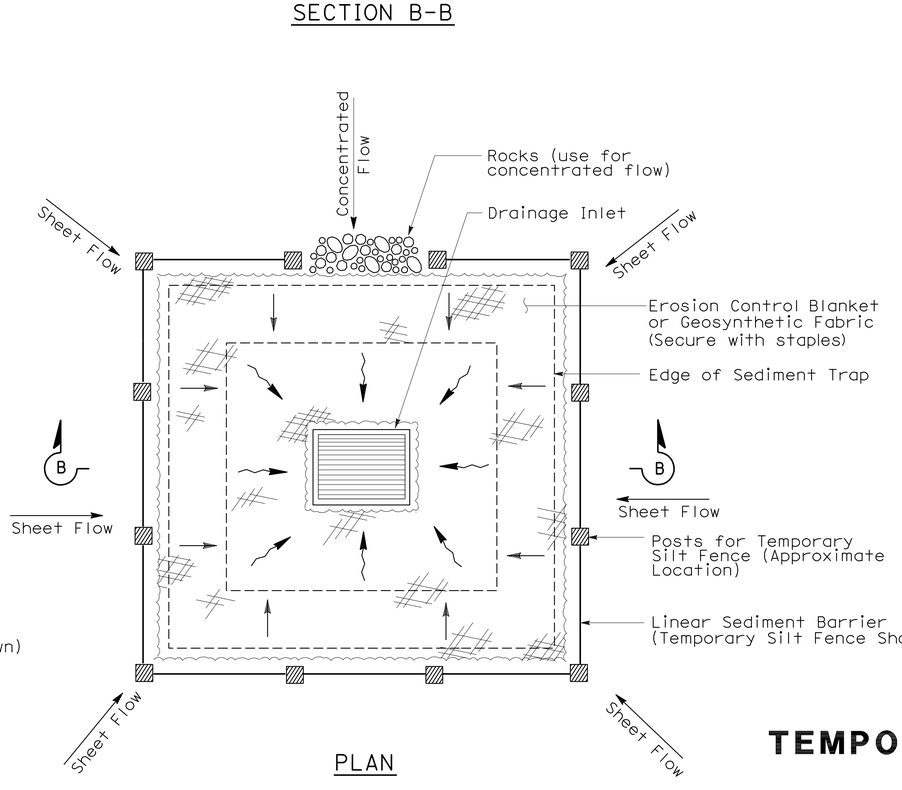
NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.



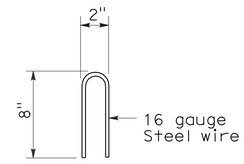
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2) (EXCAVATED SEDIMENT TRAP)



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

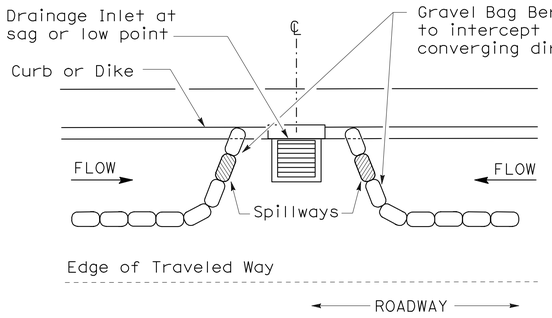
NO SCALE

NSP T61 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T61

2006 NEW STANDARD PLAN NSP T61

7-11-08



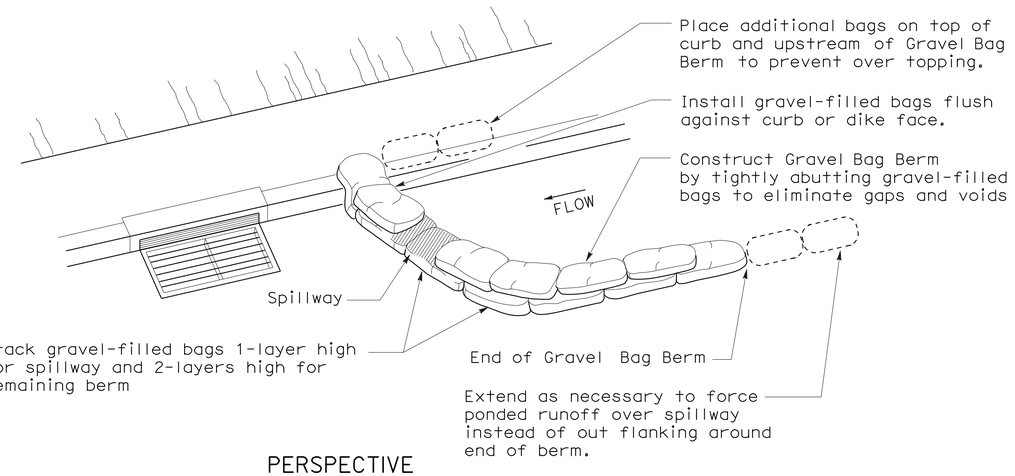
PLAN

CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)

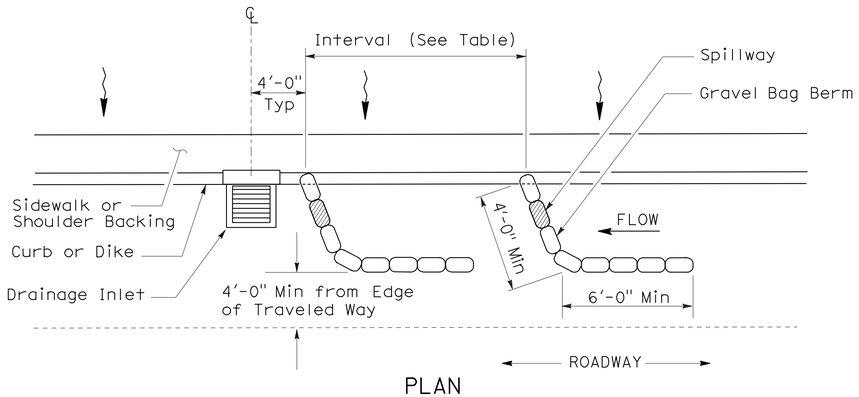
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	1 to 3.9	4 to 5.9	6 to 7.9	8 to 10	10+
INTERVAL BETWEEN BERM	100′	75′	50′	25′	12′

For slope of less than 1%, install barriers only if erosion/sediment is prevalent

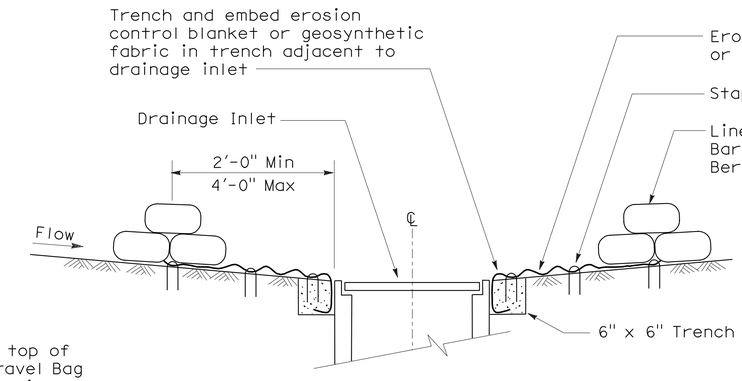


PERSPECTIVE

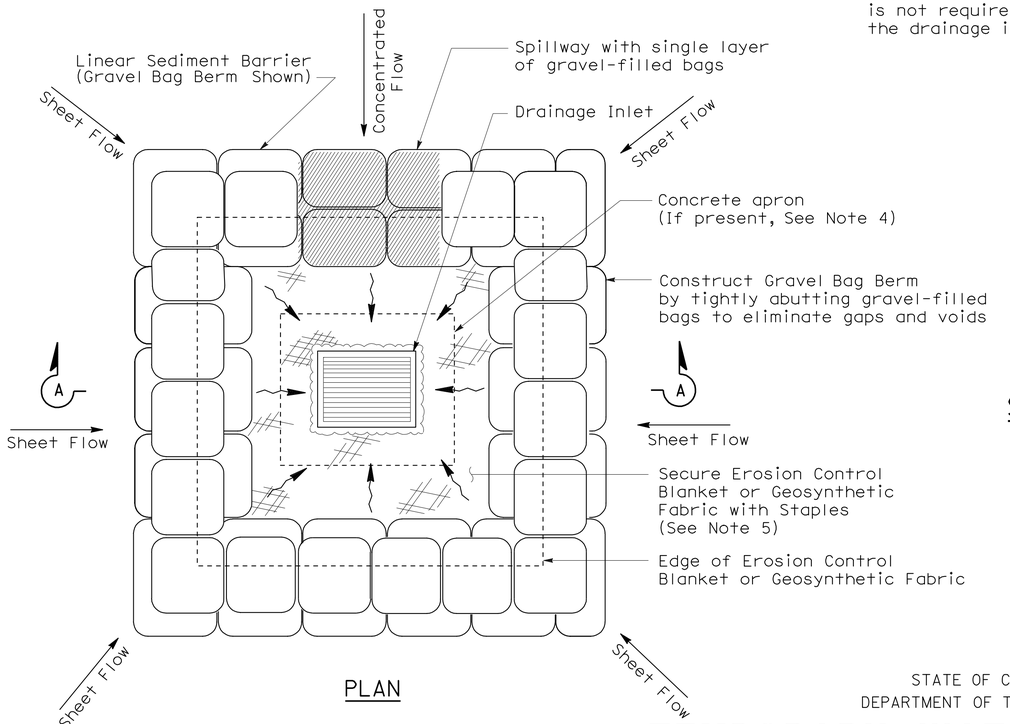


PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

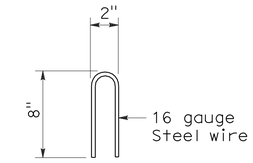


SECTION A-A



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL

NOTES:

1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated or paved.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	28	38

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT Robert B. Schott 3025 Signature 11-04-08 Renewal Date 08-11-08 Date STATE OF CALIFORNIA

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To accompany plans dated 5-23-11

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T62

2006 NEW STANDARD PLAN NSP T62

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	29	38

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3035 — Signature Date 11-04-08 — Renewal Date 08-11-08 — STATE OF CALIFORNIA

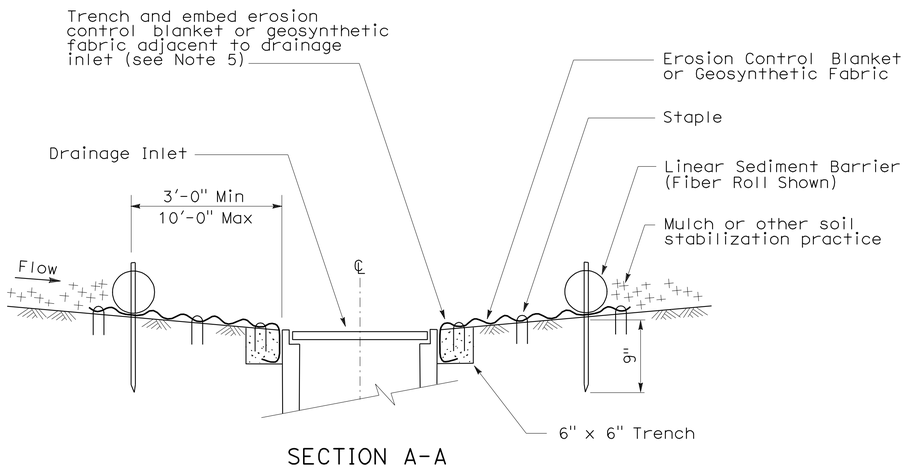
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-23-11

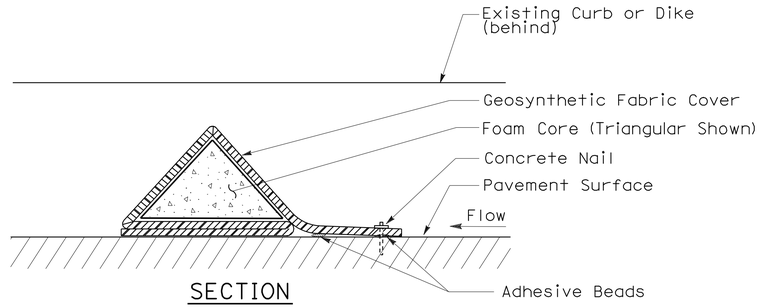
2006 NEW STANDARD PLAN NSP T63

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50′	35′	30′	25′	20′
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6′	6′	6′	6′	6′

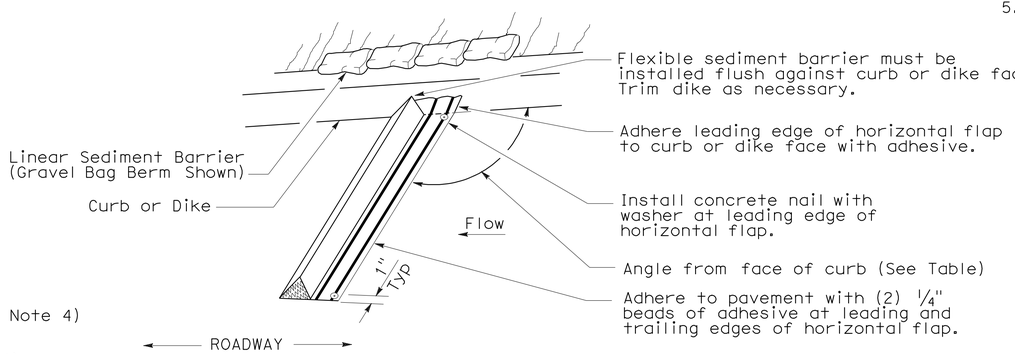


SECTION A-A



SECTION

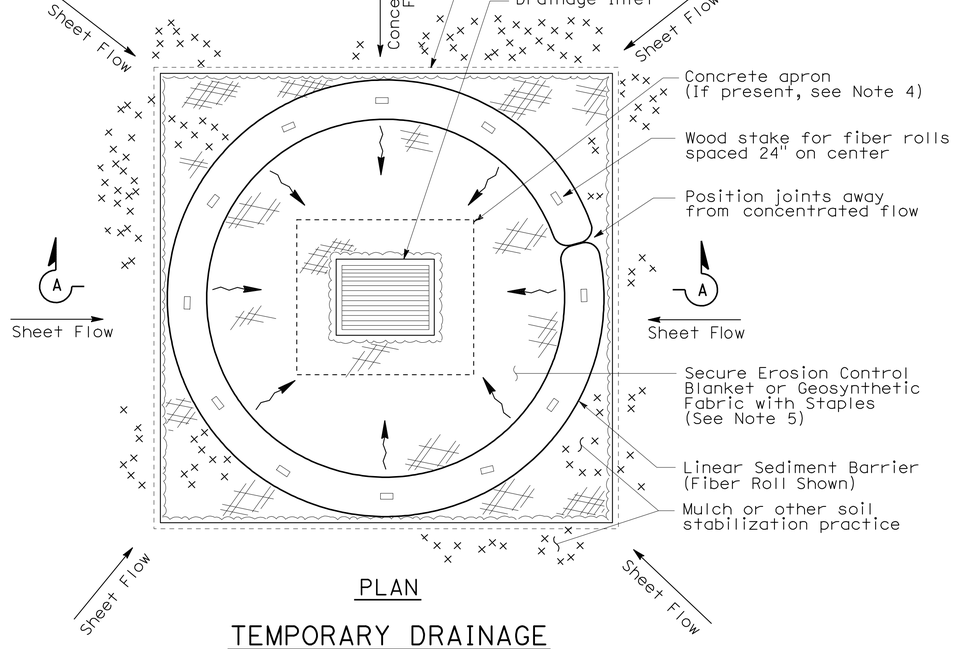
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



PERSPECTIVE

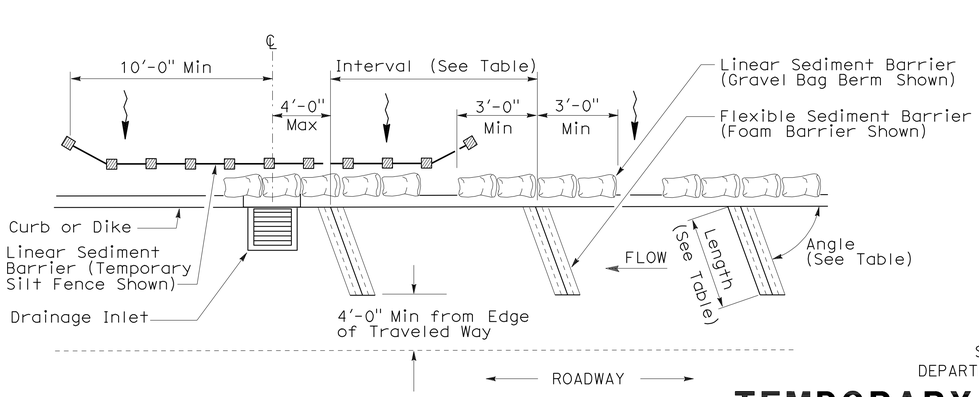
NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 flexible sediment barriers upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.
5. Erosion control blanket or geosynthetic fabric is not required if the area adjacent to the drainage inlet is vegetated.



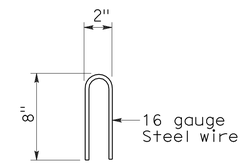
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4B) FLEXIBLE SEDIMENT BARRIER



STAPLE DETAIL

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T63 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T63

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	30	38

Robert B Schott
LICENSED LANDSCAPE ARCHITECT

August 15, 2008
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT — Robert B. Schott 3035 — Signature — 11-04-08 Renewal Date — 08-11-08 Date — STATE OF CALIFORNIA

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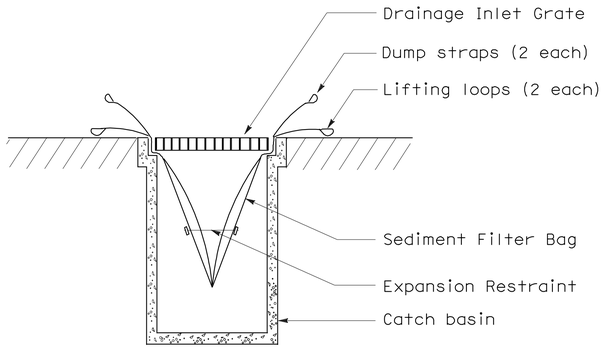
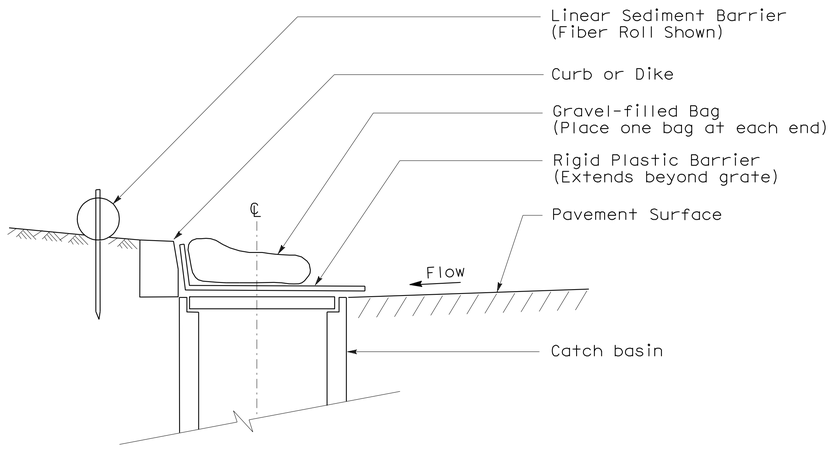
To accompany plans dated 5-23-11



SECTION B-B

SEDIMENT FILTER BAG DETAIL

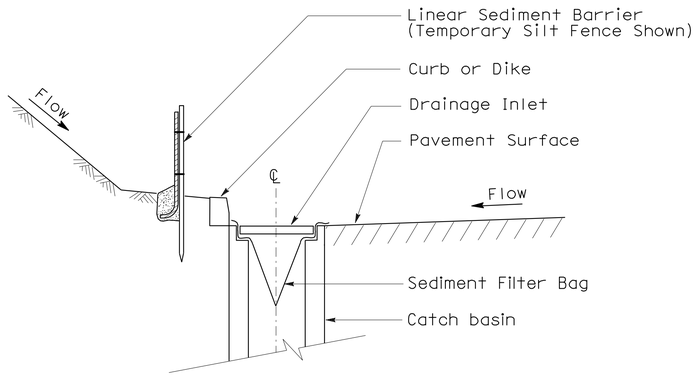


SECTION

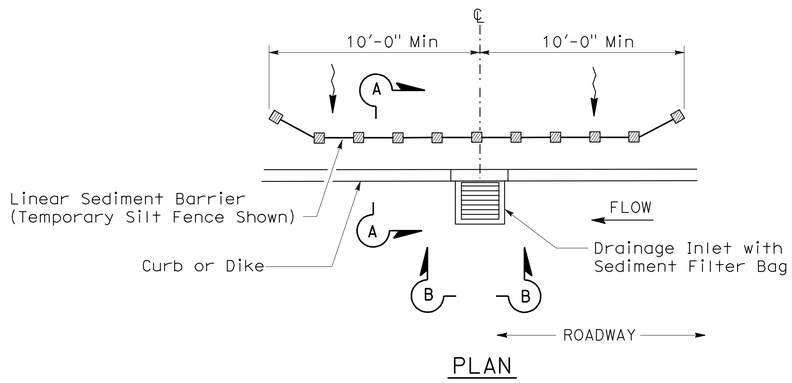
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6A) (CATCH BASIN WITH GRATE)

NOTES:

1. See Standard Plan T51 for Temporary Silt Fence.
2. Dimensions may vary to fit field conditions.

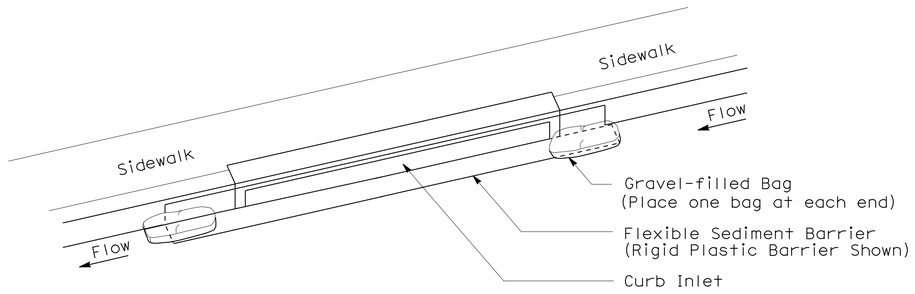


SECTION A-A



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 5) (SEDIMENT FILTER BAG)



PERSPECTIVE

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 6B) (CURB INLET WITHOUT GRATE)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

NO SCALE

NSP T64 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

NEW STANDARD PLAN NSP T64

2006 NEW STANDARD PLAN NSP T64

7-11-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	31	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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

To accompany plans dated 5-23-11

ELECTROLIERS

STANDARD TYPES
15, 15D
15 STRUCTURE
21, 21D STRUCTURE
30
31
32
35
36-20A

High mast light pole

Double Arm lighting standard

Existing electrolier

Electrolier foundation (Future installation)

NOTES:

1. Luminaires shall be 310 W HPS when installed on Type 21, 21D, 30, 31, 32, 35 and 36-20A Standards, unless otherwise specified. Luminaires shall be 200 W HPS when installed on other type standards or poles, unless otherwise specified.
2. Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.
3. Variations noted adjacent to symbol on project plans.

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,
MAS-4B	mas-4B	side attachment - 4 signal section
MAS-4C	mas-4C	
MAS-5A	mas-5A	Mast arm mounting vehicle signal faces,
MAS-5B	mas-5B	side attachment - 5 signal section
MC	mc	Mercury contactor
M/M	m/m	Multiple to multiple transformer
MT	mt	Conduit with pull wire or rope only
MTG	mtg	Mounting
	mv	Mercury vapor lighting fixture
N	N	Neutral (Grounded Conductor)
NC	NC	Normally closed
NO	NO	Normally open
PB	pb	Pull box
PEC	pec	Photoelectric control (Type I, II, III, IV or V as shown)
PED	ped	Pedestrian
PEU	peu	Photoelectric unit
PPB	ppb	Pedestrian push button
RL		Relocated equipment
RM	rm	Ramp metering
SB	sb	Slip base
SIC	sic	Signal interconnect cable
SIG	sig	Signal
SMA	sma	Signal mast arm
SNS	sns	Street name sign
SP	sp	Service point
TDC	tdc	Telephone demarcation cabinet
TMS	tms	Traffic monitoring station
TOS	tos	Traffic Operations System
VEH	veh	Vehicle
XFMR	xfmr	Transformer
COMM	comm	Communication
RWIS	rwis	Roadway weather information system

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	32	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 5-23-11

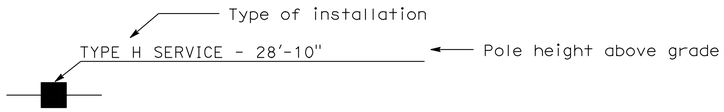
CONDUIT

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 (RSP ES-9A C)
R	r	Conduit riser in/on structure or service pole

SERVICE EQUIPMENT

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

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

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	33	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 5-23-11

EQUIPMENT IDENTIFICATION

ILLUMINATED SIGN IDENTIFICATION NUMBER:

Sign No. 12345 — Sign number - Place on post or structure

10 ISL SCI 1.0
- 1.0 — Transformer rating (kVA)
- SCI — Lighting control type
- ISL — Number and type of fixtures

Do NOT place on standard or structure

ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:

12345 - 15'-0"
- 15'-0" — Mast arm length, if shown. Do not place on standard or structure.
- 12345 — Equipment number - Place on standard or structure. Existing equipment numbers are shown in parenthesis

CONDUIT AND CONDUCTOR IDENTIFICATION:

1½"C, 2#10, 15#14, 2 DLC
- 2#10, 15#14, 2 DLC — Number and size of conductors and cables
- 1½"C — Size of conduit in inches

Ø1, Ø2, Ø2P, etc. — Traffic phase identification for signal faces, detectors and phase diagrams

[1] [2] [3] — Project note numbers

(A) (B) (C) — Equipment description, installation or item numbers

△1 △2 △3 — Conduit run numbers

SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):

19A - 3 - 100
- 100 — Wind velocity = 100 mph
- 3 — Case 3 arm loading
- 19A — Standard type
- Standard Plan sheet number
- Detail number or letter

MISCELLANEOUS EQUIPMENT

PROPOSED	EXISTING	
CMS	cms	Changeable message sign
		Closed circuit television camera
		Highway advisory radio pole and antenna
EMS	ems	Extinguishable message sign
M / V	m / v	Detection device M = Microwave sensor V = Video image sensor

WIRING DIAGRAM LEGEND

P	Pole
CB	Circuit breaker
A	Ampere
V	Volt
M	Metered
UM	Unmetered
NB	Neutral bus
GB	Ground bus
G	Equipment grounding conductor
N	Grounded conductor (Neutral)

- External conductor
- Conductor or bus
- Tie point
- Contactor coil
- Contactor, Contact NO
- Terminal blocks
- Contactor, Contact NC
- Enclosure bond
- Grounding electrode
- Circuit breaker
- Receptacle

PULL BOXES

PROPOSED	EXISTING
3	9A(21)

Pull box-No. 5 unless otherwise indicated or noted.

Pull box-Additional designations or descriptions

- 3 = No. 3½ pull box
- 5 = No. 5 pull box
- 6 = No. 6 pull box
- 7 = No. 7 (Ceiling pull box)
- 8 = No. 8 (Pendant soffit pull box)
- 9 = No. 9 pull box
- 9A = No. 9A pull box

- (C) = Communications pull box
- (E) = Pull box with extension
- (S) = Sprinkler control pull box
- (21) = Anchor bolts and conduit for future installation of Type 21 Standard
- (T) = Traffic pull box

VEHICLE DETECTORS

5 J 9 U
- 9 — Slot number in input file
- J — Input file (I or J)
- U — Phase
- 5 — Vehicle detector designation
- U = Upper, L = Lower

PROPOSED	EXISTING	
		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
DH	dh	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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	34	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

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

October 5, 2007
PLANS APPROVAL DATE

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To accompany plans dated 5-23-11

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 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, 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 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 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)."

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

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCl	9	1.6/5.3	35	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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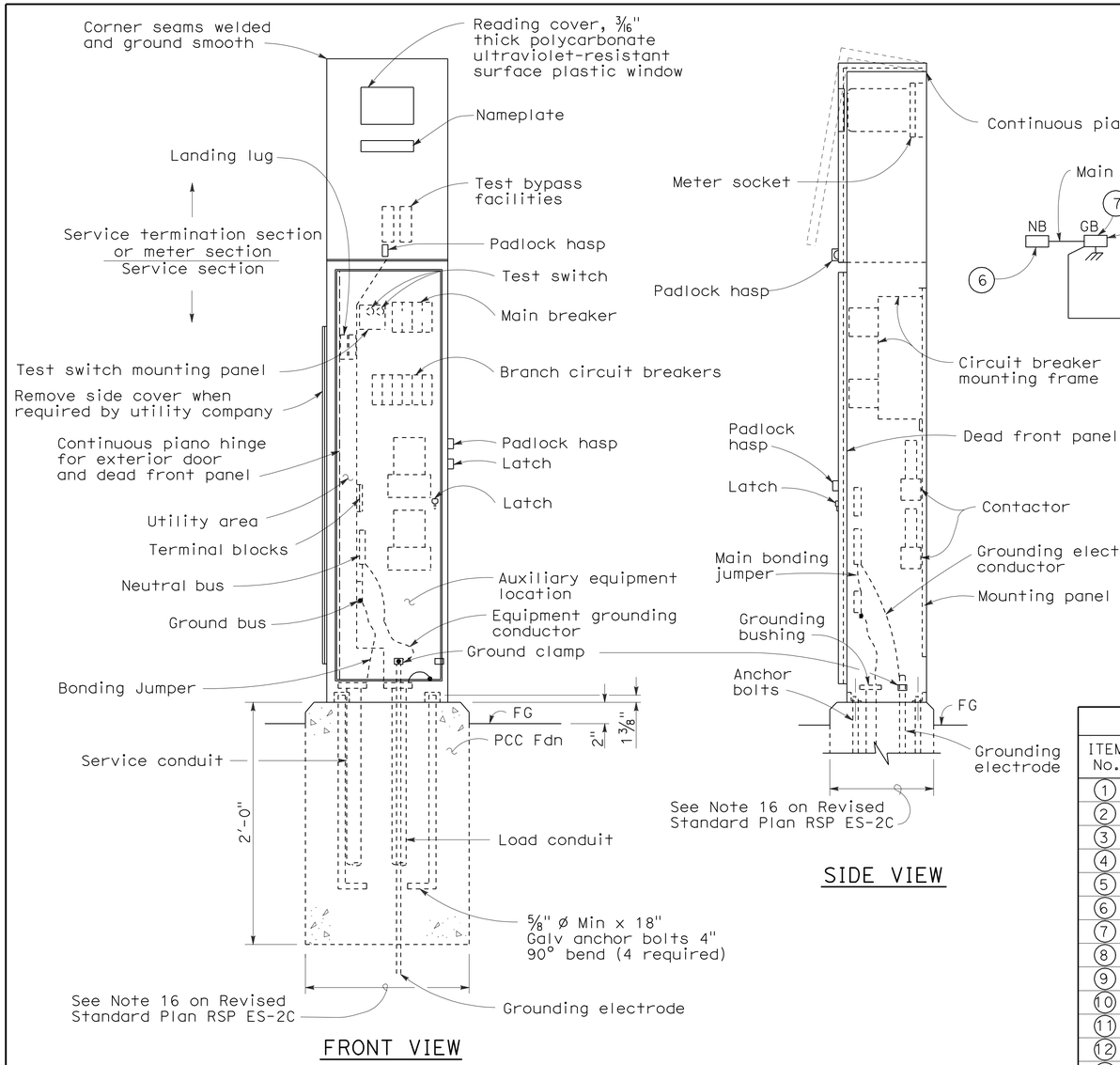
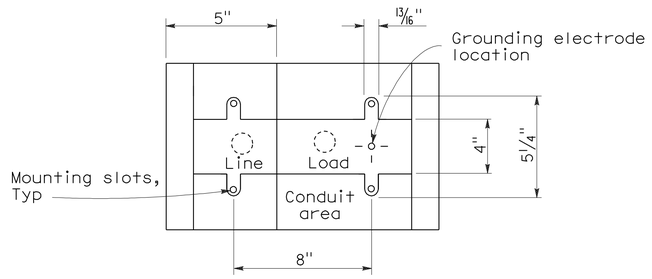
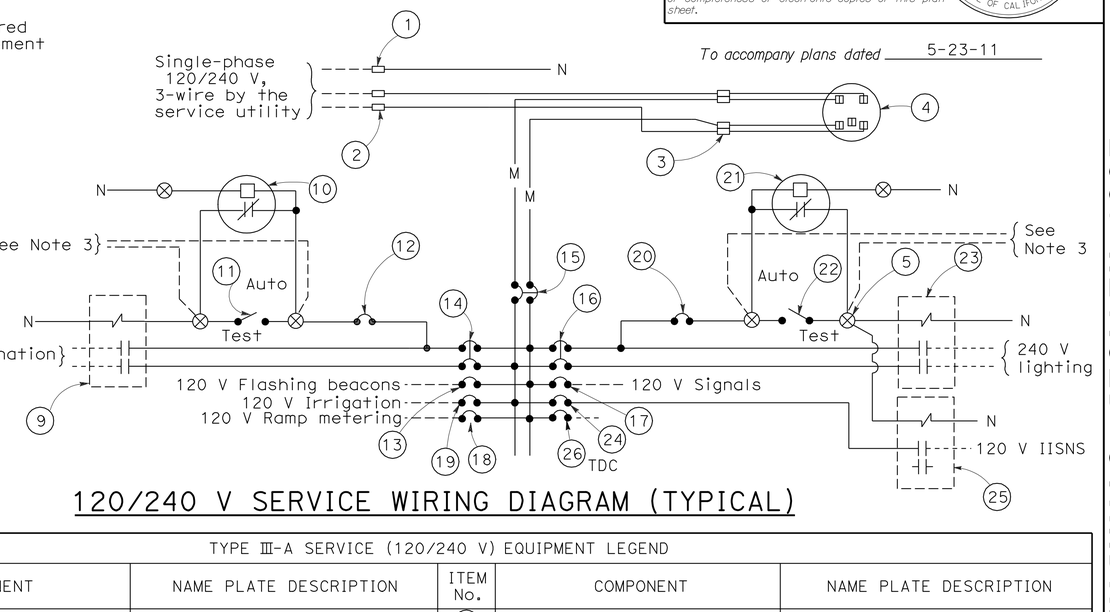
To accompany plans dated 5-23-11



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)

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

REVISED STANDARD PLAN RSP ES-2D

2006 REVISED STANDARD PLAN RSP ES-2D

7-10-07

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	36	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

Jeffery G. McRae
No. E14512
Exp. 6-30-10
ELECTRICAL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

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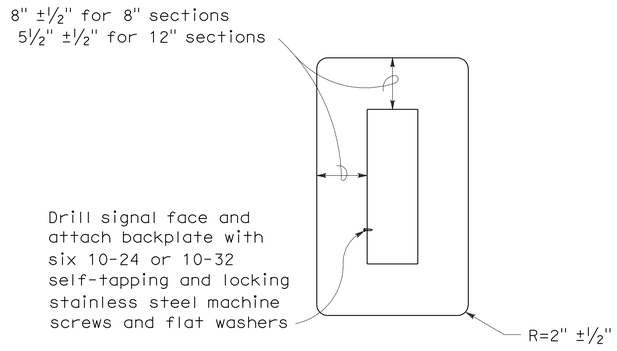
To accompany plans dated 5-23-11

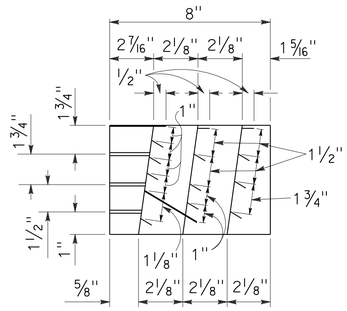
VISORS



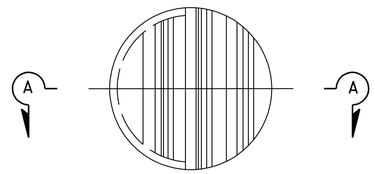
8" AND 12" SECTIONS

BACKPLATE

1/16" minimum thickness
3001-14 aluminum, or plastic when specified



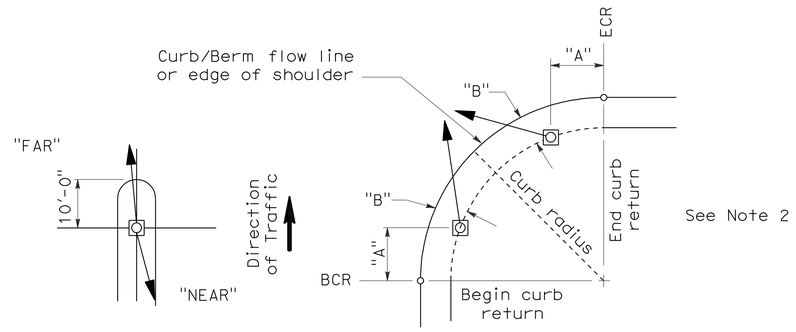
SECTION A-A



FRONT VIEW

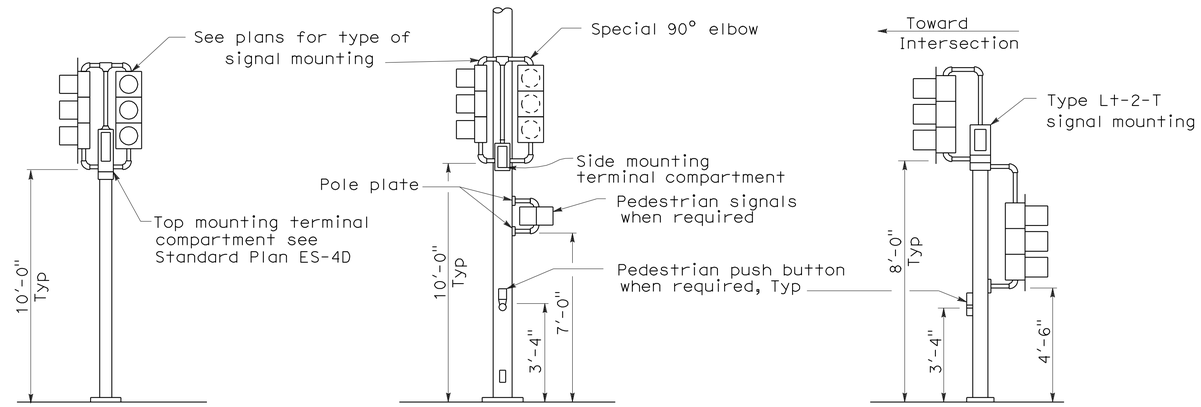
DIRECTIONAL LOUVER

Directional louvers shall be oriented as directed by the Engineer and secured in place with one plated brass machine screw and nut.



NOTES:

1. Typical signal pole placement unless dimensioned on plans.
2. For "A" and "B" dimensions, see Pole Schedule, or as directed by the Engineer.



TOP MOUNTED SIGNALS (TV)

Type 1-A, 1-B, 1-C and 1-D standard as indicated on the plans

SIDE MOUNTED SIGNALS (SV AND SP)

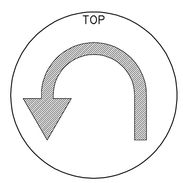
Normally used on standards with luminaire or signal mast arm

LEFT TURN LANE SIGNAL

Type 1-A, 1-B, 1-C and 1-D standard as indicated on plans

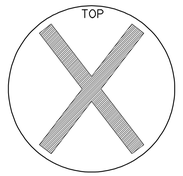
TYPICAL SIGNAL INSTALLATIONS

SIGNAL STANDARD PLACEMENT DIMENSIONS AND EQUIPMENT LOCATIONS

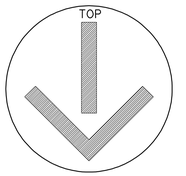


U-TURN SIGNAL FACE

BICYCLE SIGNAL FACE



LANE CONTROL SIGNAL FACE



LANE CONTROL SIGNAL FACE

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN ES-4C DATED MAY 1, 2006 - PAGE 420 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-4C

2006 REVISED STANDARD PLAN RSP ES-4C

5-19-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	37	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Jeffery G. McRae — No. E14512 — Exp. 6-30-10 — ELECTRICAL — STATE OF CALIFORNIA

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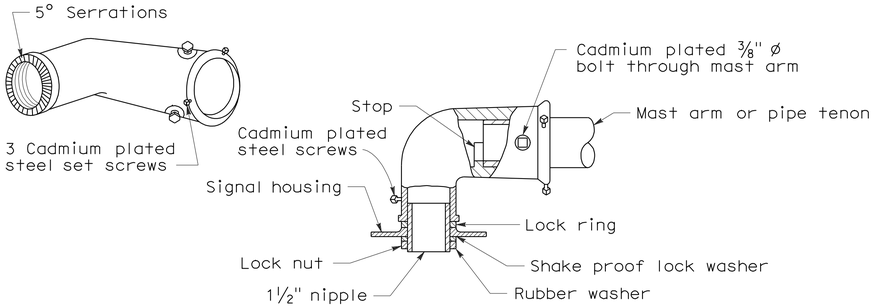
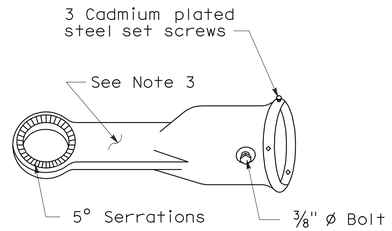
To accompany plans dated 5-23-11



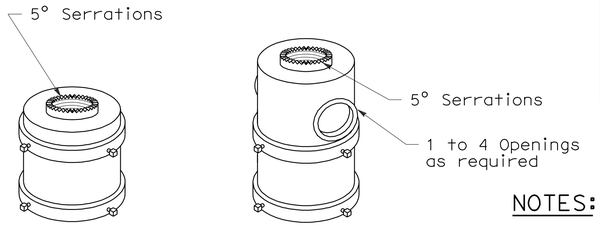
MAST ARM MOUNTING - TYPE "MAT"

For 2 NPS pipe, see Note 1.



MAST ARM MOUNTING - TYPE "MAS"

For 2 NPS pipe. See Note 1.



For one mounting — For mulitiple mountings

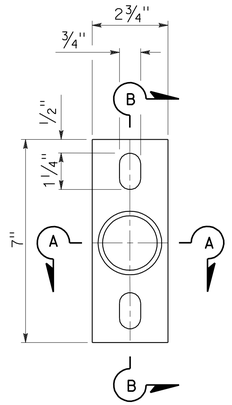
TOP MOUNTINGS

For 4 NPS pipe, see Note 2.

NOTES:

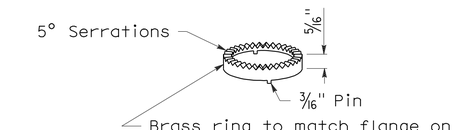
1. After mast arm signal has been plumbed and secured, drill 7/16" hole through mast arm tenon in line with slip fitter hole. Place a cadmium plated ⅜" ø galvanized bolt with washer under bolt head through hole and secure with washer, nut, and locknut. Seal openings between mast arm mountings and mast arm with mastic.
2. (a) Threaded top mounted slip fitter openings shall be 1½ NPS.
   (b) Serrations in fittings shall match those on bottom of signal heads or in lock ring.
   (c) Top opening shall be offset when backplate is used.
3. Wireway shall have a cross section area of 0.95 square inch minimum. Minimum width of ½".

SIGNAL SLIP FITTERS



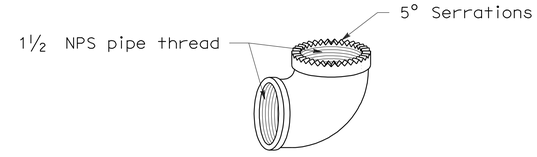
POLE PLATE

For side mountings



LOCK RING

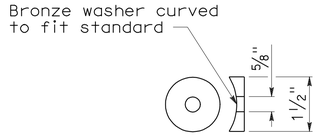
Use where locking ring is not integral with signal housing or fitting.



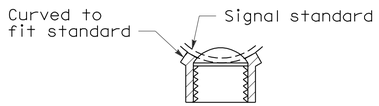
SPECIAL 90° ELBOW

One for each signal head, except those with special slip fitter mounting

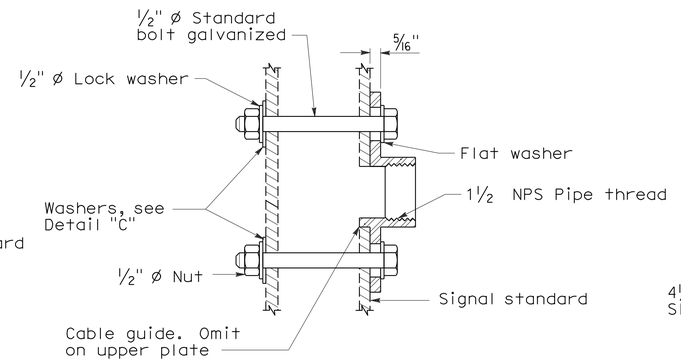
MISCELLANEOUS MOUNTING HARDWARE



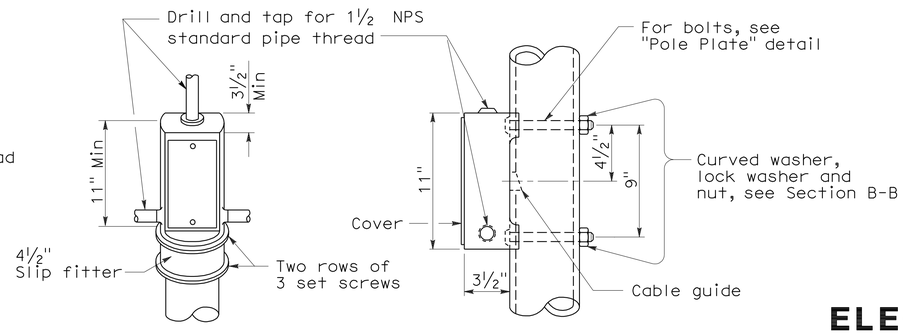
DETAIL "C"



SECTION A-A



SECTION B-B



TOP MOUNTING — SIDE MOUNTING

TERMINAL COMPARTMENTS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SIGNAL HEADS AND MOUNTINGS)

NO SCALE

RSP ES-4D DATED June 6, 2008 SUPERSEDES STANDARD PLAN ES-4D
DATED MAY 1, 2006 - PAGE 421 OF THE STANDARD PLANS BOOK DATED MAY 2006.

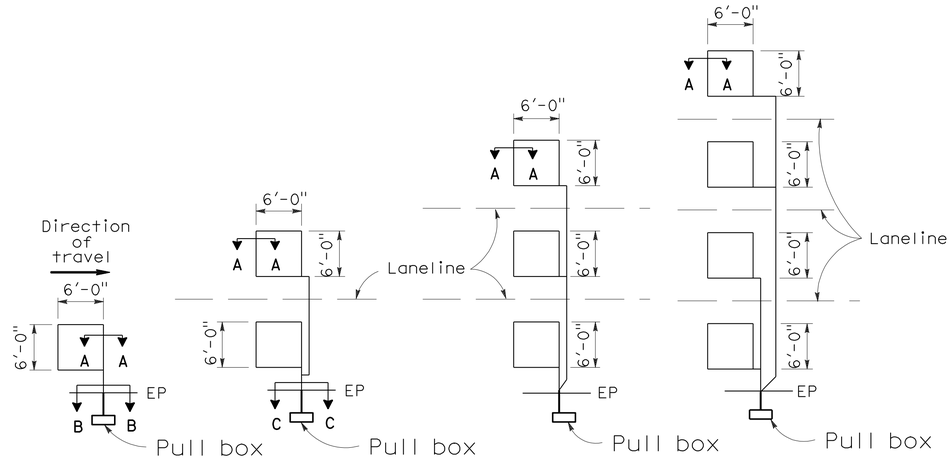
REVISED STANDARD PLAN RSP ES-4D

2006 REVISED STANDARD PLAN RSP ES-4D

5-19-08

LOOP INSTALLATION PROCEDURE

1. Loops shall be centered in lanes.
2. Saw slots in pavement for loop conductors as shown in details.
3. 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.
4. Bottom of saw slot shall be smooth with no sharp edges.
5. Slots shall be washed until clean, blown out and thoroughly dried before installing loop conductors.
6. Adjacent loops on the same sensor unit channel shall be wound in opposite directions.
7. 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.
8. 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.
9. No more than 2 twisted pairs shall be installed in one sawed slot.
10. Allow additional 5'-0" of slack length of conductor for the lead-in run to pull box.
11. 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.
12. Test each loop circuit for continuity, circuit resistance and insulation resistance at the pull box before filling slots.
13. Fill slots as shown in details.
14. Splice loop conductors to lead-in-cable. Splices shall be soldered.
15. 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.
16. Lead-in-cable shall not be spliced between the pull box and the controller cabinet terminals.
17. Test each loop circuit for continuity, circuit resistance and insulation resistance at the controller cabinet location.
18. 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.

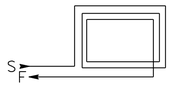


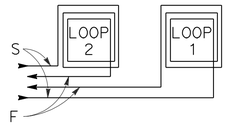
TYPE 1A INSTALLATION | TYPE 2A INSTALLATION | TYPE 3A INSTALLATION | TYPE 4A INSTALLATION

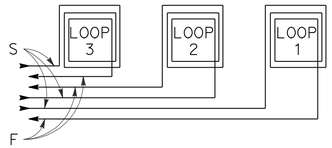
SAWCUT DETAILS

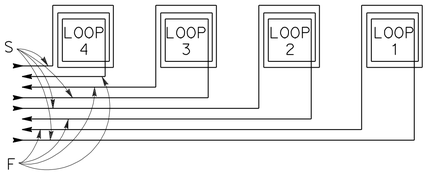
(Type A loop detector configurations illustrated)

1. 1A thru 4A = 1 Type A loop configuration in each lane.
2. 1B thru 4B = 1 Type B loop configuration in each lane.
3. 1C = 1 Type C loop configuration entering lanes as required.
4. 1D thru 4D = 1 Type D loop configuration in each lane.
5. 1E thru 4E = 1 Type E loop configuration in each lane.
6. 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)



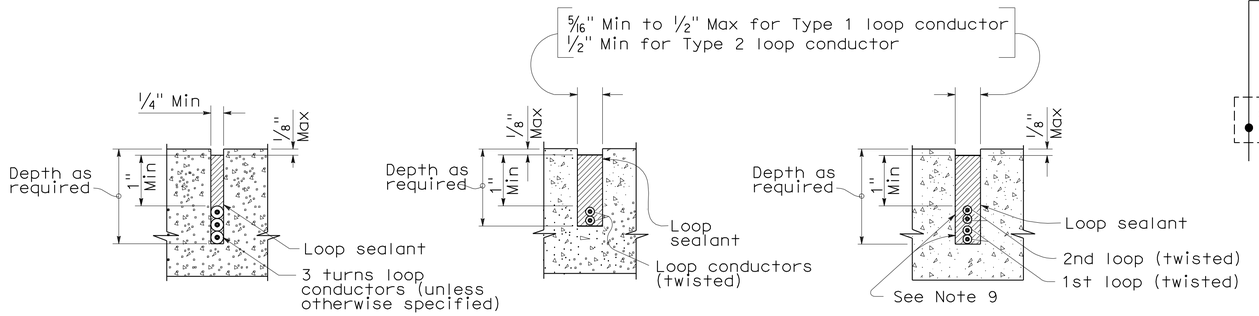






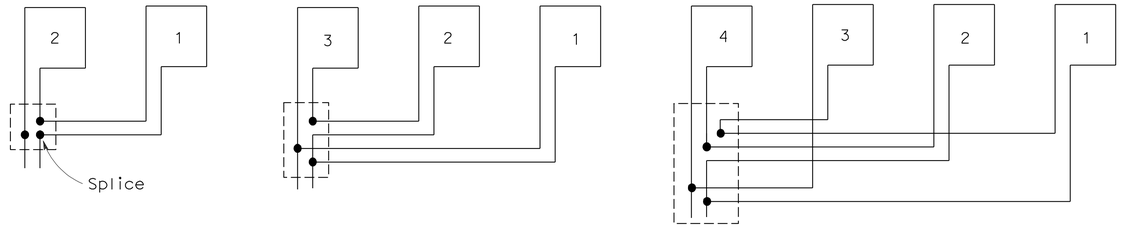
WINDING DETAILS

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)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	SCI	9	1.6/5.3	38	38

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated 5-23-11

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

8-17-07