

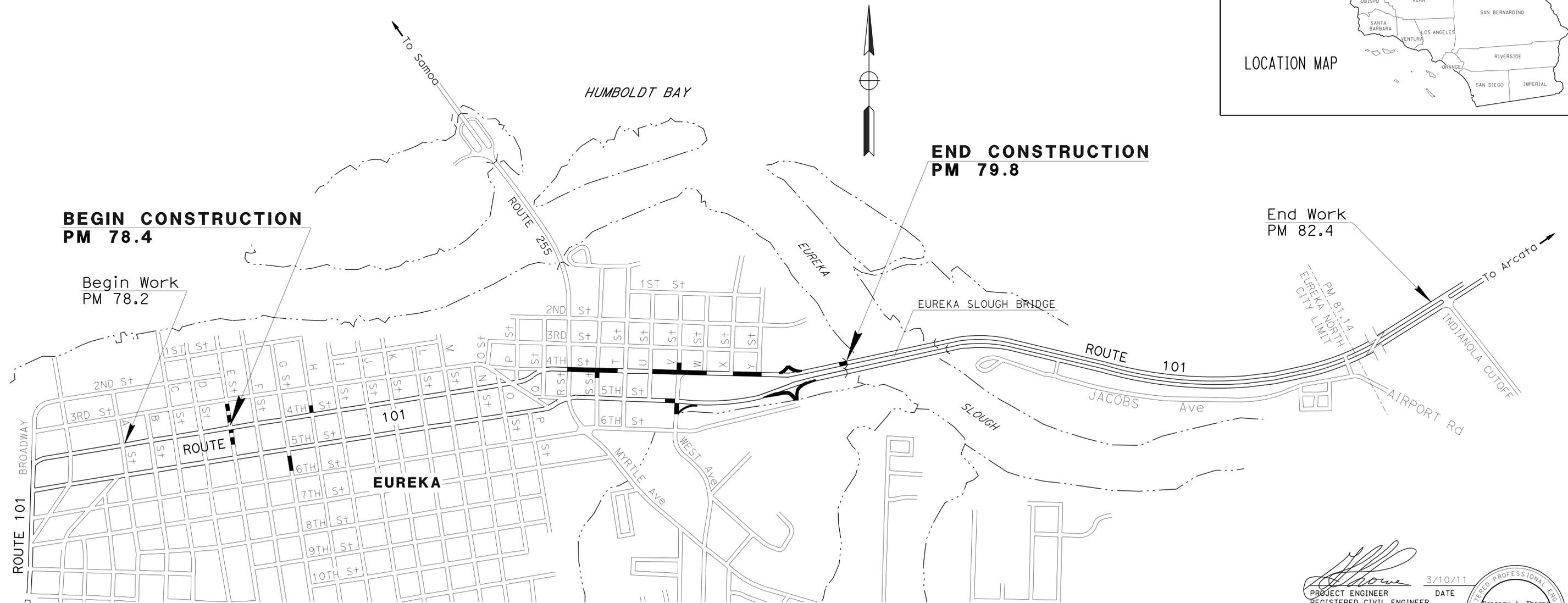
INDEX OF PLANS	
SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-8	CONSTRUCTION DETAILS
9	CONSTRUCTION AREA SIGNS
10-11	SUMMARY OF QUANTITIES
12-15	ELECTRICAL PLANS
16-28	NEW OR REVISED STANDARD PLANS

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

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

IN HUMBOLDT COUNTY IN EUREKA
FROM E STREET TO
EUREKA SLOUGH BRIDGE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
 Royal B. McCarthy
 DESIGN ENGINEER
 Royal B. McCarthy

PROJECT ENGINEER
 REGISTERED CIVIL ENGINEER
 DATE 3/10/11
 No. C71744
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

March 10, 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.

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

NO SCALE

DATE PLOTTED => 14-MAR-2011
 TIME PLOTTED => 1:34:47
 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

REVISOR BY
 DATE

Gregory J. Thorne

CALCULATED-DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR
 Royal B. McCarthy

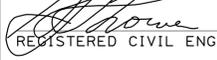
NOTES:

1. FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
3. ENGINEER TO DETERMINE LIMITS OF REPLACE AC SURFACING IN THE FIELD.

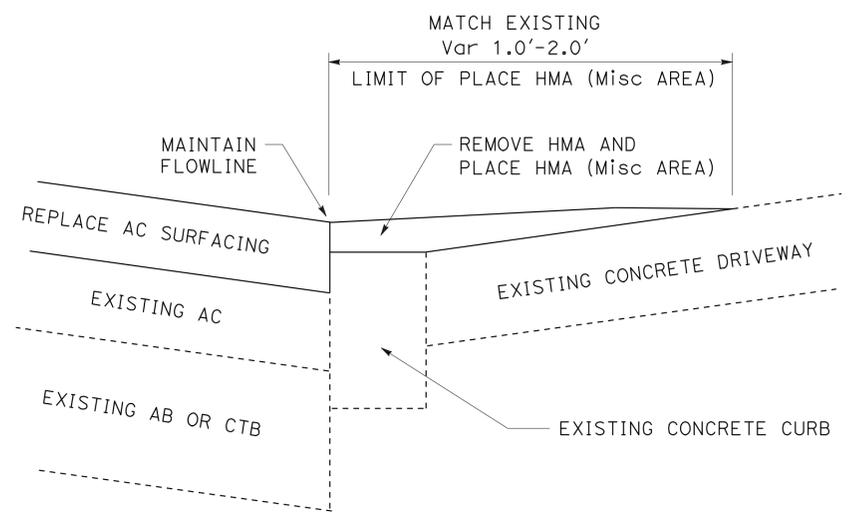
LEGEND

-  REPLACE AC SURFACING
-  FR TEMPORARY FIBER ROLL
-  LOCATION NUMBER

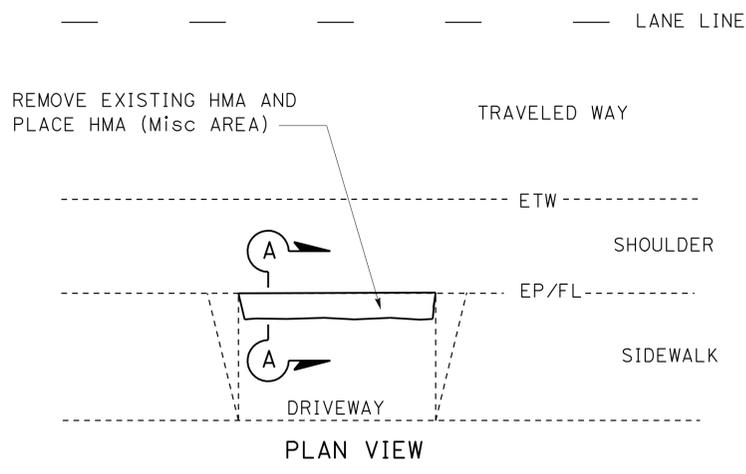
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	3	28


 REGISTERED CIVIL ENGINEER DATE 3/10/11
 March 10, 2011
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Gregory J. Thorne
 No. C71744
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

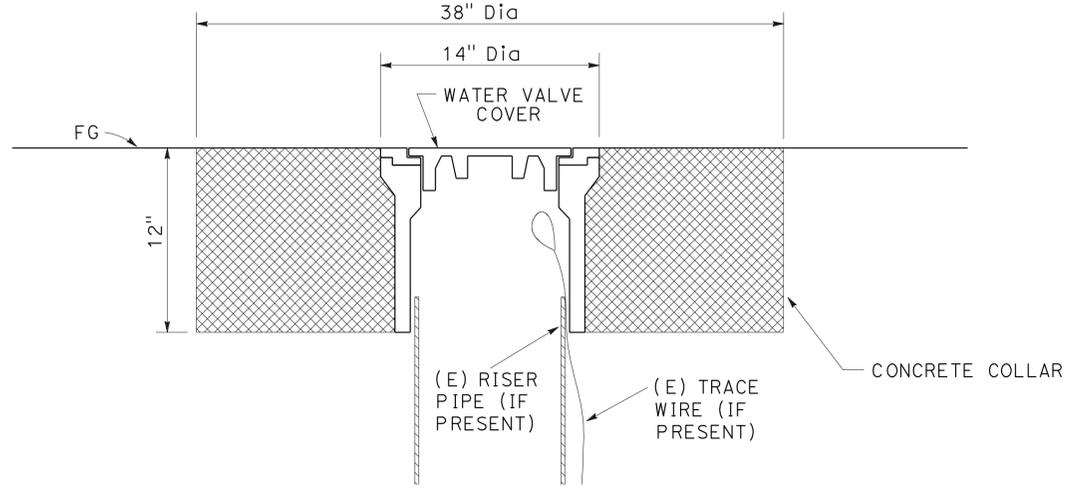


SECTION A-A



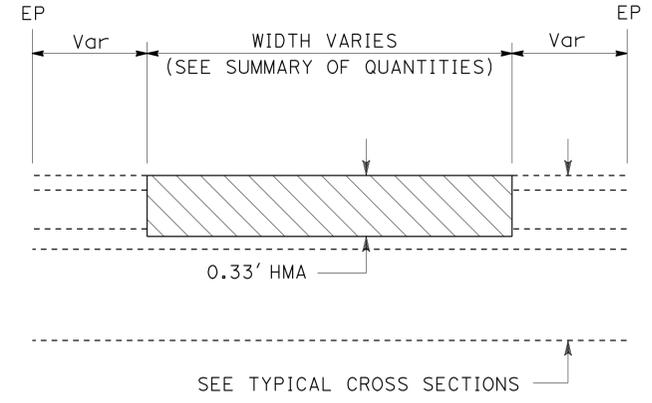
PAVING DETAIL

DRIVEWAYS ADJACENT TO REPLACE AC SURFACING
 PM 79.67/79.68
 PM 79.85/79.86



NOTE:
 THE CONTRACTOR SHALL COMPLETELY DEMOLISH EXISTING CONCRETE COLLARS TO A DEPTH OF 12".

ADJUST WATER VALVE COVER TO GRADE
 CITY OF EUREKA UTILITY DETAIL



REPLACE AC SURFACING

LOCATIONS AS SHOWN ON CONSTRUCTION DETAILS

CONSTRUCTION DETAILS C-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 Royal B. McCarthy

CALCULATED/DESIGNED BY
 CHECKED BY

REVISOR
 DATE

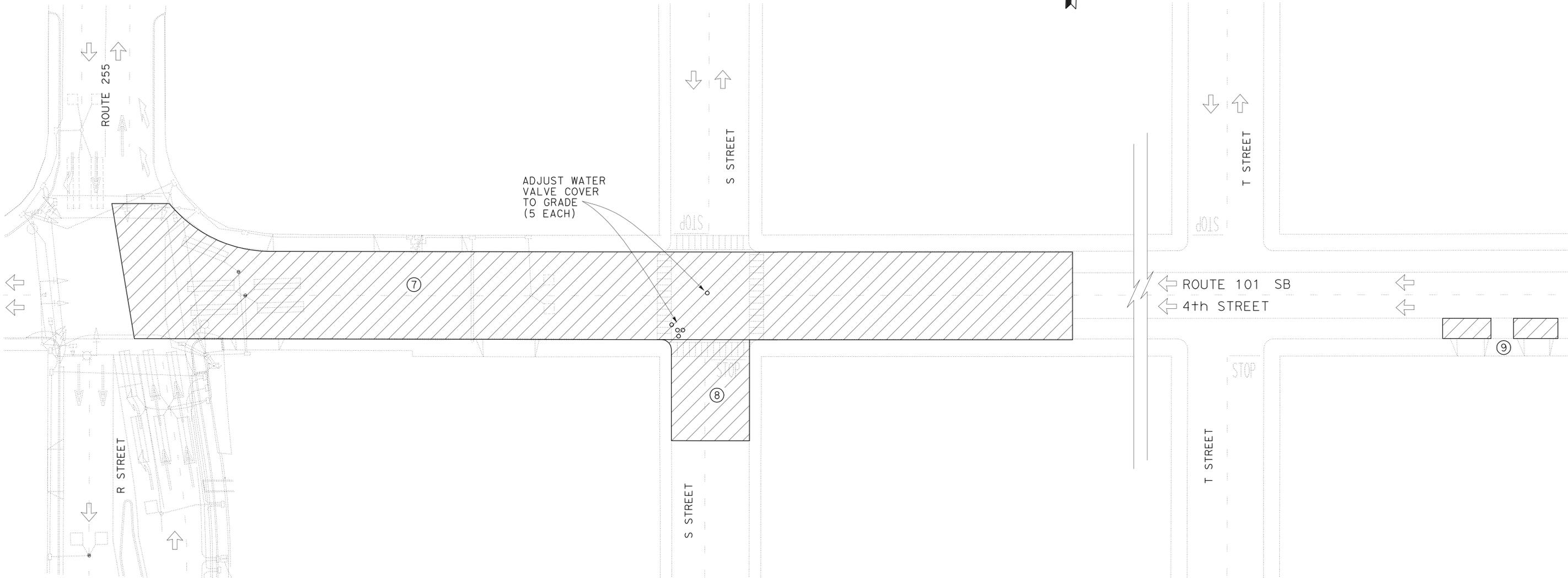
DESIGNED BY
 DATE

- NOTES:**
- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
 - ENGINEER TO DETERMINE LIMITS OF REPLACE AC SURFACING IN THE FIELD.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	5	28

REGISTERED CIVIL ENGINEER DATE 3/10/11
 March 10, 2011
 PLANS APPROVAL DATE

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4th & R STREET

4th & S STREET

4th & T STREET

CONSTRUCTION DETAILS
C-3

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 Royal B. McCarthy

CALCULATED-DESIGNED BY
 CHECKED BY

Gregory J. Thorne

REVISED BY
 DATE REVISED

NOTES:

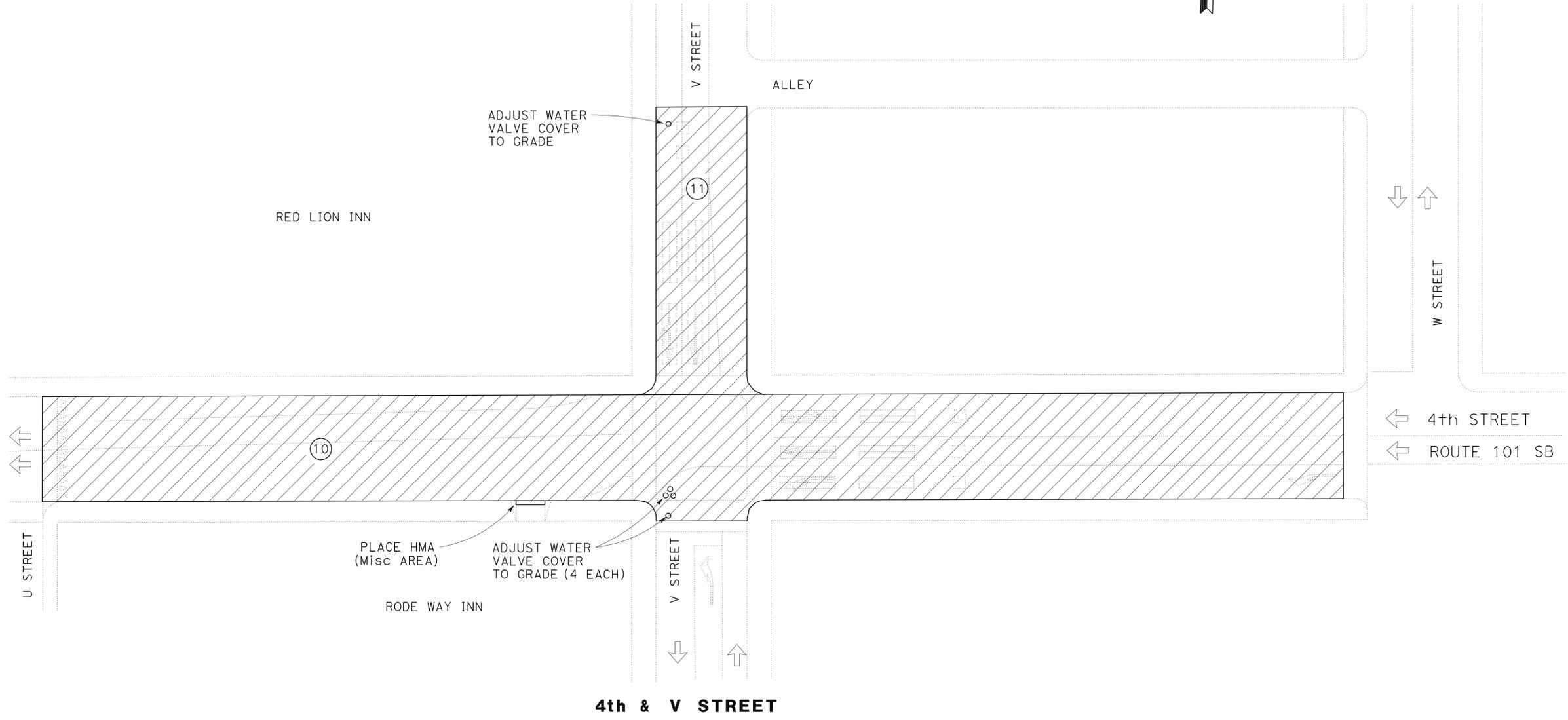
- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
- ENGINEER TO DETERMINE LIMITS OF REPLACE AC SURFACING IN THE FIELD.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	6	28

REGISTERED CIVIL ENGINEER DATE 3/10/11
 March 10, 2011
 PLANS APPROVAL DATE

Professional Engineer Seal: Gregory J. Thorne, No. C71744, Exp. 12-31-11, CIVIL, STATE OF CALIFORNIA

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4th & V STREET

**CONSTRUCTION DETAILS
 C-4**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR
 Royal B. McCarthy

CALCULATED/DESIGNED BY
 CHECKED BY

REVISOR BY
 DATE

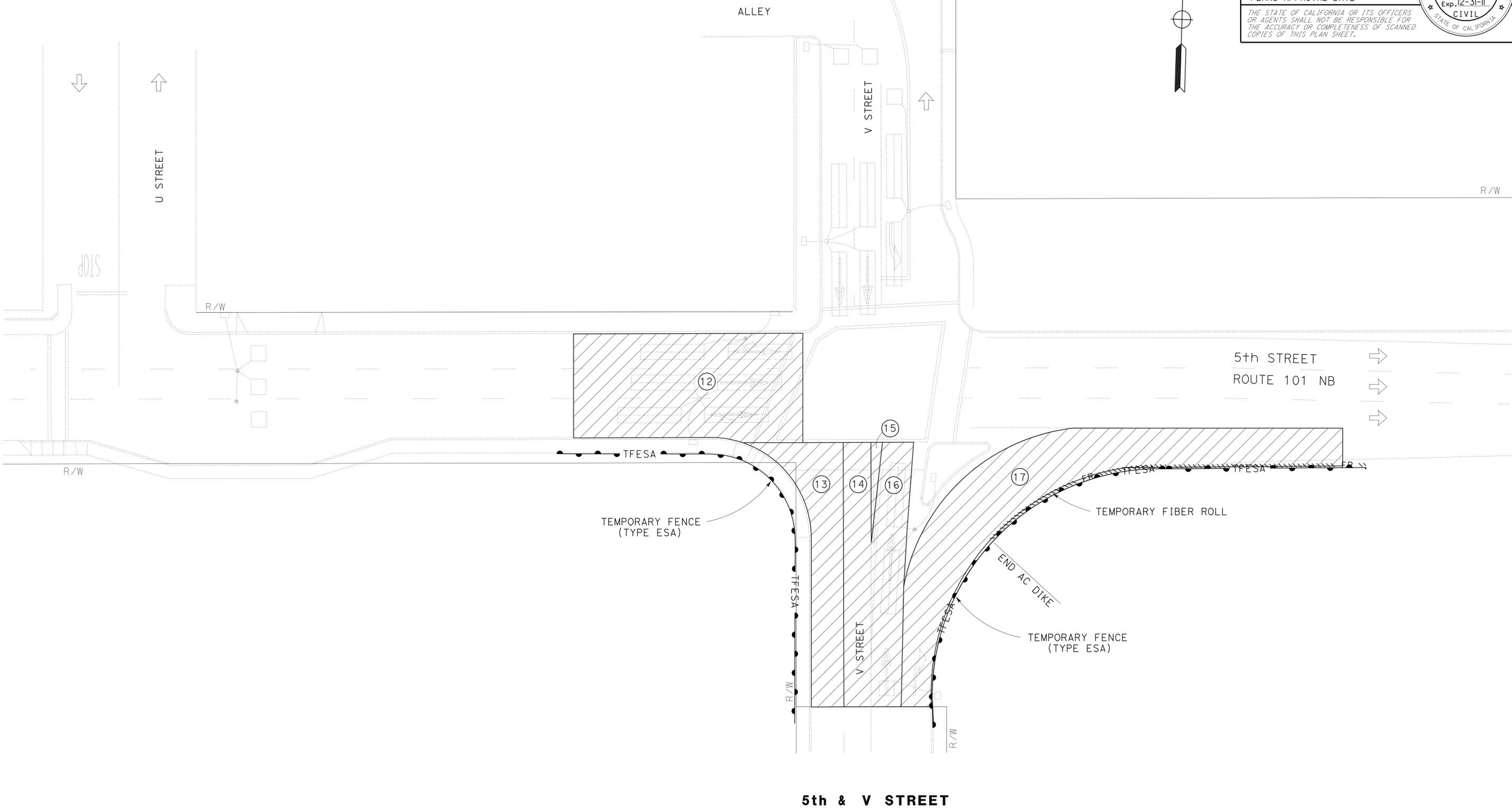
REGISTRY NO. 01
 COUNTY Humboldt
 ROUTE 101
 POST MILES TOTAL PROJECT 78.4/79.8
 SHEET No. 7
 TOTAL SHEETS 28

- NOTES:**
- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
 - ENGINEER TO DETERMINE LIMITS OF REPLACE AC SURFACING IN THE FIELD.

REGISTERED CIVIL ENGINEER
 DATE 3/10/11
 Gregory J. Thorne
 No. C71744
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA

March 10, 2011
 PLANS APPROVAL DATE

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CONSTRUCTION DETAILS
C-5

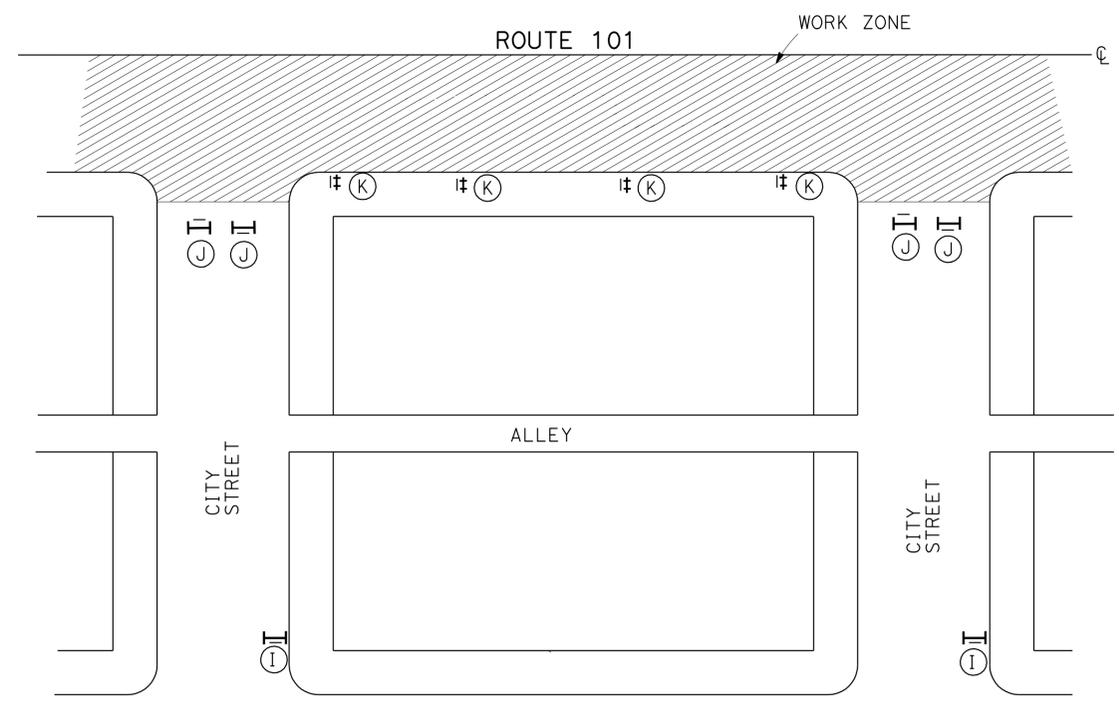
NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy
 REVISIONS: [Grid of X's]

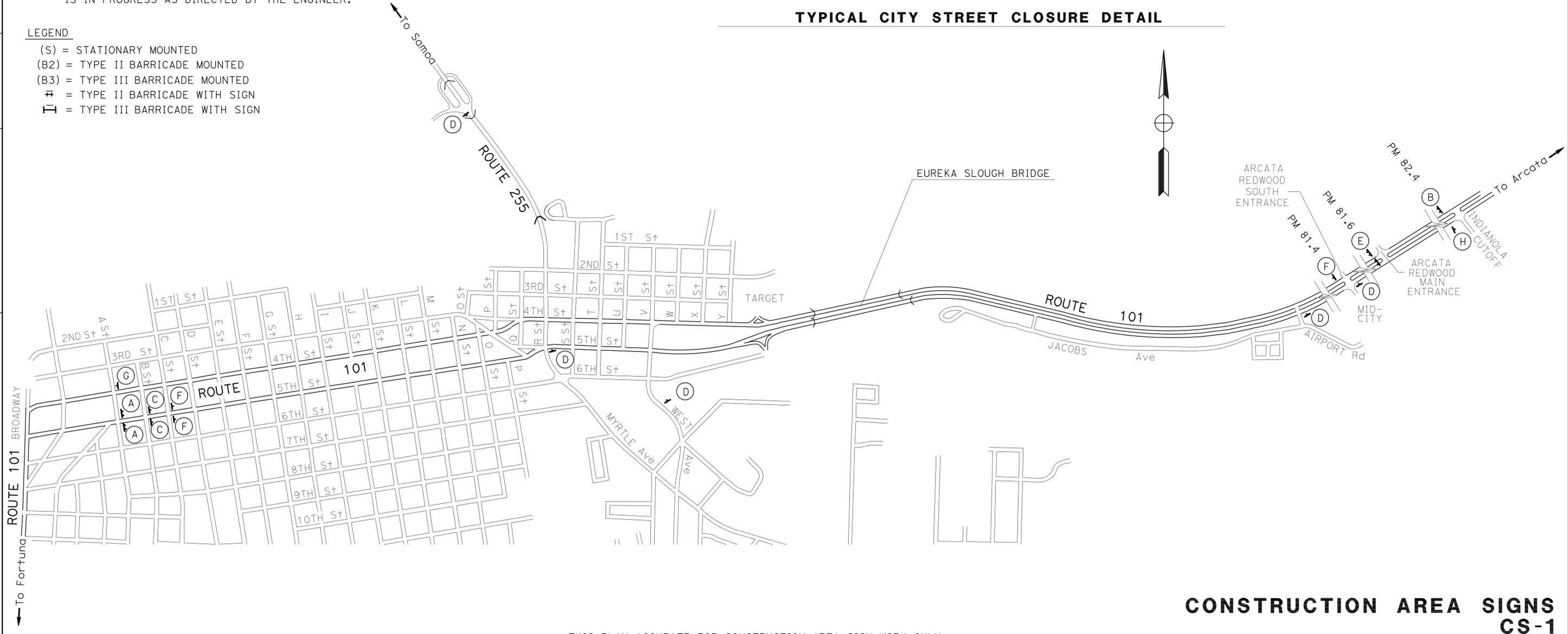
CONSTRUCTION AREA SIGNS					
SIGN NUMBER	SIGN CODE	SIGN MESSAGE	PANEL SIZE (INCHES)	No. OF POSTS AND SIZE (NOMINAL INCHES)	NUMBER OF SIGNS
A	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES (S)	72 x 36	2 - 4X6	2
B	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES (S)	144 x 60	2 - 6X8	1
C	G20-1	ROAD WORK AHEAD NEXT 2 MILES (S)	48 x 48	1 - 4X6	2
D	W20-1	ROAD WORK AHEAD (S)	36 x 36	1 - 4X6	5
E	G20-1	ROAD WORK NEXT 4 MILES (S)	90 x 48	2 - 6X6	2
	C23B(CA)	RESURFACING (S)	54 x 12		
F	W16-1	BICYCLE SYMBOL (S)	36 x 36	1 - 4X6	3
	W11-1	SHARE THE ROAD	30 x 24		
G	G20-2	END ROAD WORK (S)	36 x 18	1 - 4X4	1
H	G20-2	END ROAD WORK (S)	48 x 24	1 - 4X6	1
I	R11-4	ROAD CLOSED TO THROUGH TRAFFIC (B3)	36 x 24	-	25
J	W20-3	ROAD CLOSED (B3)	36 x 36	-	50
K	R26	NO PARKING ANYTIME (B2)	12 x 18	-	79

- NOTES:**
- EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
 - PLACE PORTABLE "ROAD WORK AHEAD" SIGNS ON CROSS STREETS WHEN WORK IS IN PROGRESS AS DIRECTED BY THE ENGINEER.

- LEGEND**
- (S) = STATIONARY MOUNTED
 - (B2) = TYPE II BARRICADE MOUNTED
 - (B3) = TYPE III BARRICADE MOUNTED
 - # = TYPE II BARRICADE WITH SIGN
 - I = TYPE III BARRICADE WITH SIGN



TYPICAL CITY STREET CLOSURE DETAIL



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	9	28

3/10/11
 REGISTERED CIVIL ENGINEER DATE
 Gregory J. Thorne
 No. C71744
 Exp. 12-31-11
 CIVIL
 STATE OF CALIFORNIA
 REGISTERED PROFESSIONAL ENGINEER

March 10, 2011
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	10	28


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 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE DESIGN
 FUNCTIONAL SUPERVISOR: Royal B. McCarthy
 CALCULATED/DESIGNED BY: Gregory J. Thorne
 CHECKED BY:
 REVISOR BY: DATE:

ROADWAY																	
LOCATION NUMBER	LOCATION		Dir	LANE NUMBER	REPLACE ASPHALT CONCRETE SURFACING CY	ADJUST WATER VALVE COVER TO GRADE	DETECTOR LOOP			REPLACE DETECTOR HANDHOLE	HOT MIX ASPHALT (TYPE A) TON	PLACE HOT MIX ASPHALT (Misc AREA) SQYD	TYPE II BARRICADE EA	TYPE III BARRICADE EA	TEMPORARY FENCE (TYPE ESA) LF	TEMPORARY FIBER ROLL LF	REMARKS
	FROM	TO					(TYPE A)	(TYPE C)	(TYPE D)								
1	78.440	78.442	EB	1	6.4		1		1			8	6			ON E ST NEAR 4TH ST	
2	78.440	78.442	EB	1	7.2		2		1							ON E ST AT 4TH ST	
3	78.440	78.442	EB	1	8.6							8	10			ON E ST AT 4TH ST	
4	78.442	78.444	WB	1	5.9		1									ON E ST NEAR 4TH ST	
5	78.557	78.562	WB	1	15.6	1	2		1			6	8			ON G ST BETWEEN 5TH AND 6TH ST	
6	78.611	78.619	EB	1, 2, 3	21.5		6		3			6	6			ON H ST AT 4TH ST	
7	79.170	79.265	SB	1, 2	261.0	5	2	5	3			22	15			ON 4TH ST BETWEEN R AND T ST	
8	79.228	79.234	WB	1	26.4											ON S ST AT 4TH ST	
9	79.302	79.316	SB	SHOULDER	7.3							3				ON 4TH BETWEEN T AND U ST	
10	79.348	79.476	SB	1, 2, 3	365.7	4	3	6	4	1.0	9	16	12			ON 4TH ST BETWEEN U AND W ST	
11	79.398	79.405	SB	1	97.8	1	6		2	3						ON V ST AT 4TH ST	
12	79.371	79.399	NB	1, 2, 3	80.7			6		2		4		160		ON 5TH ST AT V ST	
13	79.395	79.401	EB	2	49.3							2	6	160		ON V ST AT 5TH ST	
14	79.401	79.403	EB	1	23.8											ON V ST AT 5TH ST	
15	79.403	79.406	WB	1	16.5											ON V ST AT 5TH ST	
16	79.406	79.409	WB	1	23.8		4		1	2			3			ON V ST AT 5TH ST	
17	79.409	79.444	WB	2	78.2									340	240	ON V ST AT 5TH ST	
18	79.520	79.577	SB	2	73.3					0.6	6	4	3			ON 4TH ST BETWEEN X AND Y ST	
19	79.597	79.629	NB	OFF-RAMP	27.0									180	180	ON 101 OFF-RAMP TO HUM PLAZA	
20	79.629	79.654	NB	OFF-RAMP	51.3									220	220	ON 101 OFF-RAMP TO HUM PLAZA	
21	79.654	79.670	NB	ON-RAMP	46.4								3	200	200	ON 101 ON-RAMP TO HUM PLAZA	
22	79.670	79.747	NB	ON-RAMP	40.1									420	420	ON 101 ON-RAMP TO HUM PLAZA	
23	79.679	79.735	NB	2	47.7											ON 101 NEAR HUM PLAZA	
24	79.583	79.610	SB	ON-RAMP	32.5								3			ON 101 ON-RAMP FROM TARGET	
25	79.610	79.658	SB	OFF-RAMP	49.6											ON 101 OFF-RAMP TO TARGET	
26	79.720	79.779	SB	1, 2	94.7									640	640	ON 101 NEAR EUREKA SLOUGH BR	
TOTAL					1558.3	11	27	17	7	20	1.6	15	79	75	2320	1900	

SUMMARY OF QUANTITIES Q-1

LAST REVISION | DATE PLOTTED => 14-MAR-2011
 00-00-00 | TIME PLOTTED => 13:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Humboldt	101	78.4/79.8	11	28

3/10/11
 REGISTERED CIVIL ENGINEER DATE
 March 10, 2011
 PLANS APPROVAL DATE

Gregory J. Thorne
 No. C71744
 Exp. 12-31-11
 CIVIL

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THERMOPLASTIC PAVEMENT MARKING

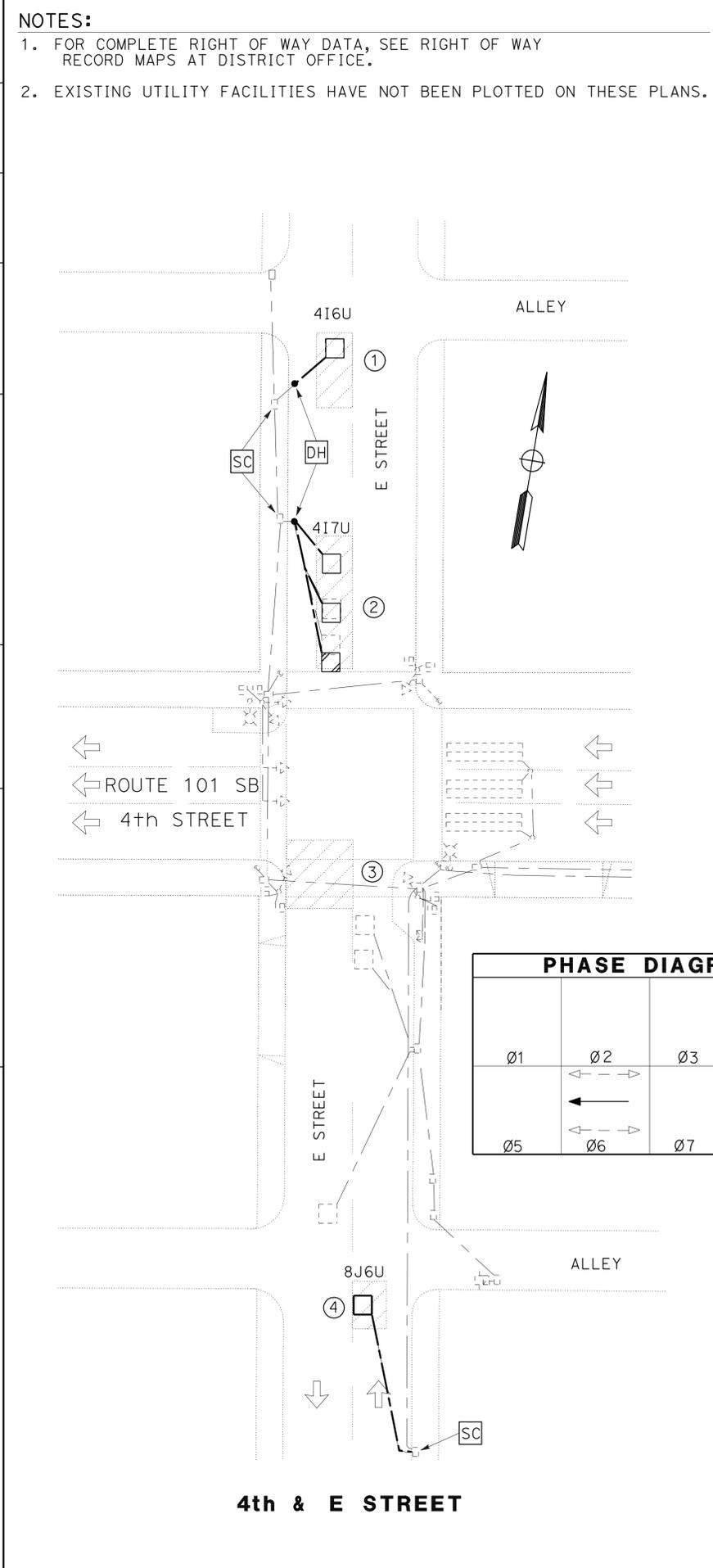
LOCATION				TYPE/LEGEND	THERMOPLASTIC PAVEMENT MARKING
LOCATION NUMBER	PM	L+/R+	ORIENTATION		SQFT
2	78.442	L+	FEBT	CROSSWALK	40
3	78.442	R+	FEBT	CROSSWALK	40
6	78.612	L+	FEBT	TYPE V ARROW	33
6	78.614	L+	FEBT	TYPE V ARROW	33
6	78.614	L+	FEBT	CROSSWALK	104
6	78.616	L+	FEBT	TYPE V ARROW	33
7	79.160	L+	FEBT	CROSSWALK	60
7	79.170		FSBT	CROSSWALK	126
7	79.220		FSBT	LADDER CROSSWALK	224
7	79.220	L+	FEBT	LADDER CROSSWALK	220
7	79.220	L+	FEBT	LIMIT LINE	19
7	79.220	R+	FWBT	LIMIT LINE	19
7	79.220	L+	FEBT	STOP	22
7	79.220	R+	FWBT	STOP	22
7	79.230		FSBT	LADDER CROSSWALK	224
8	79.220	R+	FWBT	LADDER CROSSWALK	220
10	79.350		FSBT	LADDER CROSSWALK	228
10	79.360		FSBT	YEILD LINE	12
10	79.390		FSBT	CROSSWALK	86
10	79.390		FSBT	ISLAND	48
10	79.400		FSBT	CROSSWALK	87
10	79.400	L+	FEBT	CROSSWALK	78
10	79.400	R+	FWBT	CROSSWALK	91
10	79.410		FSBT	TYPE III (L) ARROW	42
10	79.410		FSBT	TYPE V ARROW	33
10	79.410		FSBT	TYPE II (R)	45
10	79.450		FSBT	TYPE III (L) ARROW	42
10	79.460		FSBT	CROSSWALK	90
11	79.400	L+	FEBT	TYPE V ARROW	33
11	79.400	L+	FEBT	TYPE II (R)	45
12	79.390		FNBT	TYPE II (L)	45
12	79.390		FNBT	TYPE V ARROW	33
12	79.390		FNBT	TYPE II (R)	45
12	79.390		FNBT	CROSSWALK	106
16	79.400	R+	FWBT	TYPE V ARROW	33
16	79.400	R+	FWBT	TYPE V ARROW	33
17	79.400	R+	FWBT	TYPE III (R) ARROW	42
18	79.850		FSBT	AHEAD	31
18	79.860		FSBT	SIGNAL	32
18	79.880		FSBT	TYPE V ARROW	33
20	79.560	R+	FNBT	TYPE V ARROW	33
20	79.560	R+	FEBT	TYPE V ARROW	33
21	79.570	R+	FWBT	TYPE V ARROW	33
21	79.570	R+	FNBT	TYPE V ARROW	33
24	79.610	L+	FEBT	LIMIT LINE	19
24	79.610	L+	FEBT	STOP	22
25	79.630		FSBT	TYPE V ARROW	33
13,14,15,16	79.400	R+	FWBT	CROSSWALK	96
TOTAL					3134

THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKERS

LOCATION			DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER (RETROREFLECTIVE)		REMARKS
LOCATION NUMBER	PM				4" BROKEN (36-12)	8" SOLID	4" SOLID		TYPE G CLEAR (ONE WAY)	TYPE D YELLOW (TWO WAY)		
	FROM	TO			YELLOW	WHITE	WHITE	YELLOW	EA			
1	78.442	78.442	6	30	30					1	ON E ST NEAR 4TH ST	
2	78.442	78.442	6	35	35					1	ON E ST AT 4TH ST	
3	78.442	78.442	6	25	25					1	ON E ST AT 4TH ST	
4	78.442	78.442	6	10	10					1	ON E ST NEAR 4TH ST	
5	78.560	78.560	6	30	30					1	ON G ST BETWEEN 5TH AND 6TH ST	
6	78.614	78.614	6	60	60					2	ON H ST AT 4TH ST	
7	79.169	79.214	12	235		235			7		ON 4TH ST BETWEEN R AND S ST	
7	79.237	79.282	12	240		240			7		ON 4TH ST BETWEEN S AND T ST	
8	79.231	79.231	6	50	50					2	ON S ST AT 4TH ST	
10	79.351	79.396	12	240		240			7		ON 4TH ST BETWEEN U AND V ST	
10	79.354	79.387	38	175			175		8		ON 4TH ST BETWEEN U AND V ST	
10	79.401	79.406	38	40			40		3		ON 4TH ST AT V ST	
10	79.408	79.453	12	240		240			7		ON 4TH ST BETWEEN V AND W ST	
10	79.408	79.453	38	240			240		11		ON 4TH ST BETWEEN V AND W ST	
11	79.400	79.400	6	130	130					4	ON V ST AT 4TH ST	
11	79.403	79.403	29	130				520		8	ON V ST AT 4TH ST	
12	79.369	79.396	12	280		280			8		ON 5TH ST AT V ST	
13	79.401	79.401	6	40	40					2	ON V ST AT 5TH ST	
15	79.403	79.403	29	90				180		6	ON V ST AT 5TH ST	
16	79.403	79.403	22	30				60		4	ON V ST AT 5TH ST	
17	79.405	79.426	38	320			320		14		ON V ST AT 5TH ST	
17	79.407	79.426	27B	320			320				ON V ST AT 5TH ST	
18	79.534	79.581	12	260		260			7		ON 4TH ST BETWEEN X AND Y ST	
19	79.599	79.629	38	160		160			8		ON 101 OFF-RAMP TO HUM PLAZA	
19	79.599	79.629	27B	160			160				ON 101 OFF-RAMP TO HUM PLAZA	
20	79.629	79.654	38	140			140		7		ON 101 OFF-RAMP TO HUM PLAZA	
20	79.629	79.654	27B	210			210				ON 101 OFF-RAMP TO HUM PLAZA	
20	79.654	79.654	22	60				120		6	ON 101 OFF-RAMP TO HUM PLAZA	
21	79.654	79.670	38	140			140		7		ON 101 ON-RAMP TO HUM PLAZA	
21	79.656	79.670	27B	170			170				ON 101 ON-RAMP TO HUM PLAZA	
22	79.654	79.726	27B	400			400				ON 101 ON-RAMP TO HUM PLAZA	
23	79.679	79.726	12	250		250			7		ON 101 NEAR HUM PLAZA	
24	79.583	79.610	38	170			170		8		ON 101 ON-RAMP FROM TARGET	
24	79.583	79.608	27B	180			180				ON 101 ON-RAMP FROM TARGET	
25	79.610	79.658	38	280			280		13		ON 101 OFF-RAMP TO TARGET	
25	79.612	79.658	27B	280			280				ON 101 OFF-RAMP TO TARGET	
26	79.722	79.779	12	300		300			8		ON 101 NEAR EUREKA SLOUGH BR	
26	79.722	79.779	27B	300			300				ON 101 NEAR EUREKA SLOUGH BR	
SUBTOTAL					410	2045	1665	2020	880	137	38	
TOTAL					2455	1665	2900	175				

SUMMARY OF QUANTITIES Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL



PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8

- LEGEND**
- REPLACE AC SURFACING
 - TYPE D LOOP (LOCATED AT CROSSWALK)
 - LOCATION NUMBER

- ELECTRICAL NOTES:**
- DETECTOR HANDHOLES SHALL BE PLACE ON LANE LINES AS SHOWN.
 - LOOPS SHALL BE PLACED PRIOR TO PLACING FINAL LIFT OF HOT MIX ASPHALT.
 - RC** EXISTING DETECTOR HANDHOLE.

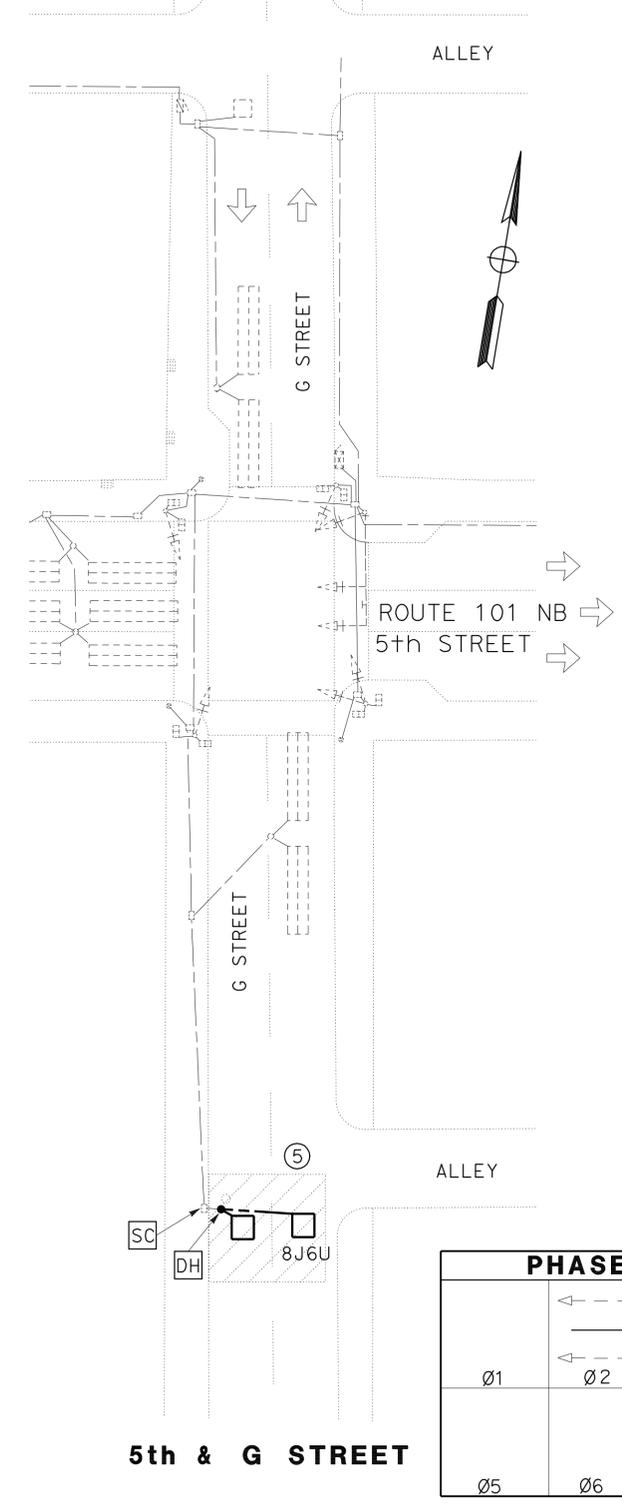
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	78.4/79.8	12	28

Brian T. Finck 3/10/11
 REGISTERED ELECTRICAL ENGINEER DATE

March 10, 2011
 PLANS APPROVAL DATE

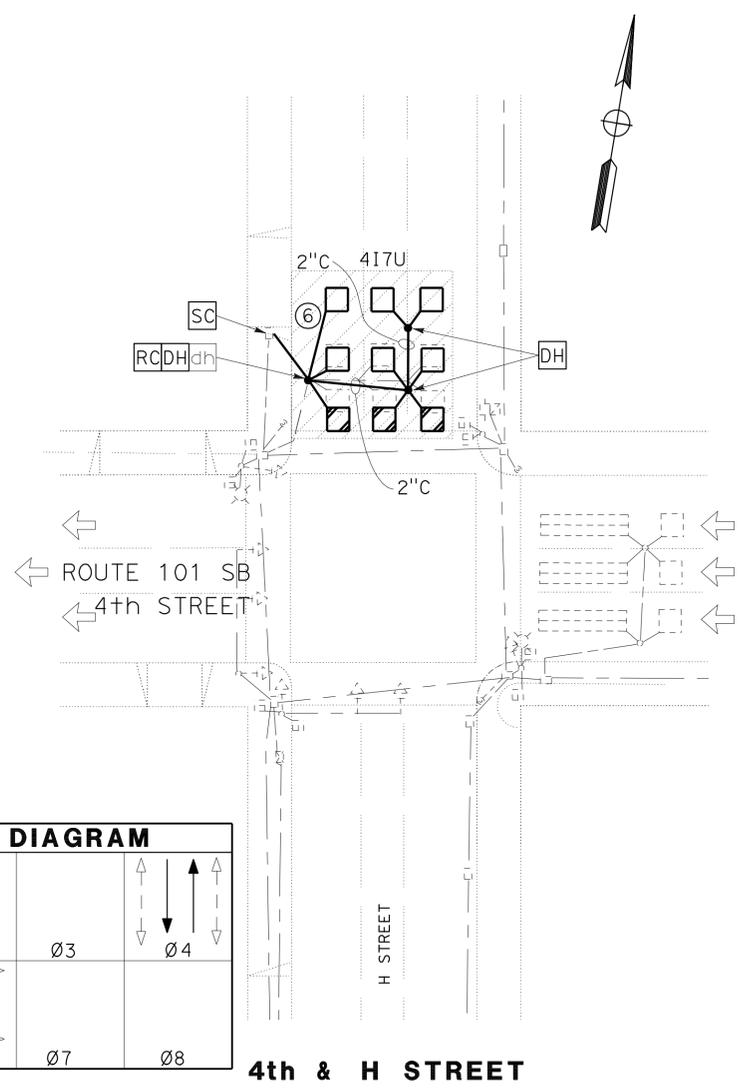
Brian T. Finck
 No. 17756
 Exp. 6-30-12
 ELECTRICAL

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.



PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8



PHASE DIAGRAM

Ø1	Ø2	Ø3	Ø4
Ø5	Ø6	Ø7	Ø8

MODIFY SIGNAL E-1

LAST REVISION DATE PLOTTED => 14-MAR-2011 00-00-00 TIME PLOTTED => 13:47

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC ELECTRICAL

REVISOR
 REVISION
 DATE

DESIGNED BY
 CHECKED BY

FUNCTIONAL SUPERVISOR

DESIGNED BY
 CHECKED BY

DESIGNED BY
 CHECKED BY

NOTES:

- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ELECTRICAL NOTES:

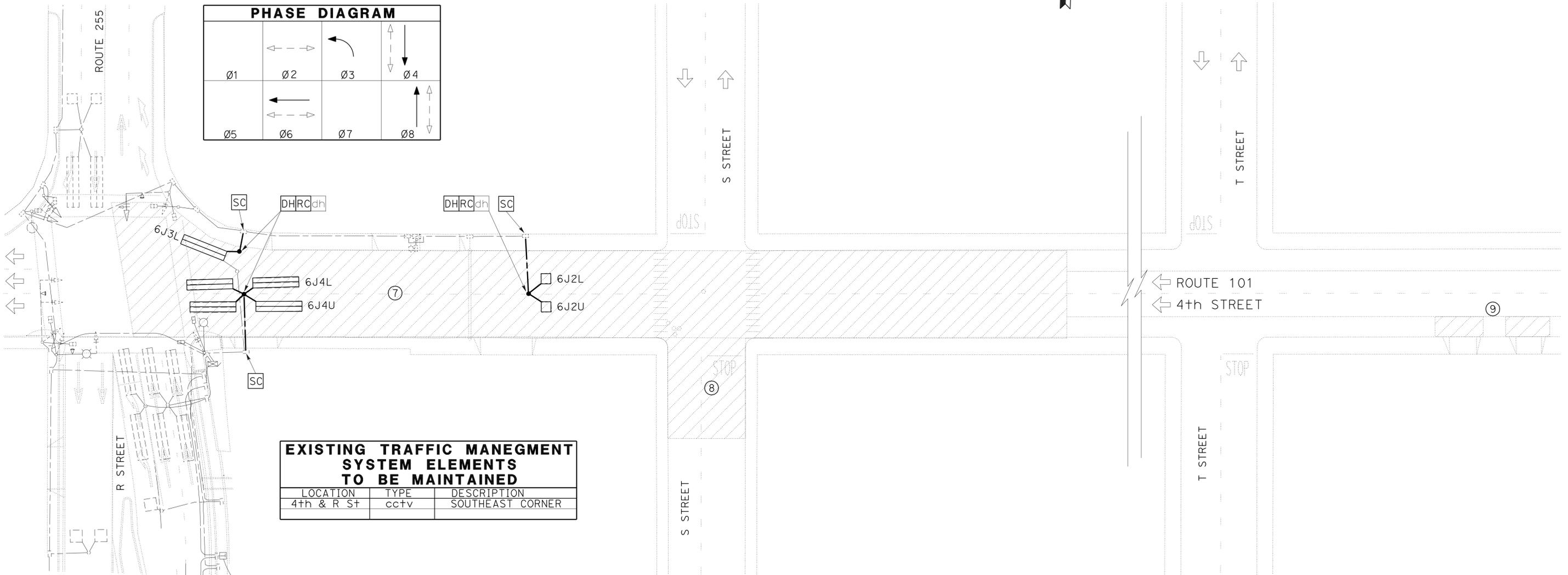
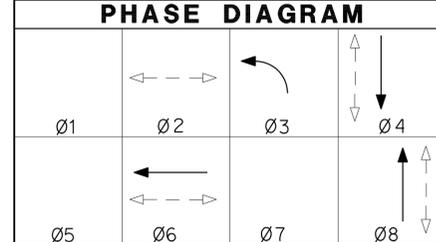
- DETECTOR HANDHOLES SHALL BE PLACED ON LANE LINES AS SHOWN.
- LOOPS SHALL BE PLACED PRIOR TO PLACING FINAL LIFT OF HOT MIX ASPHALT.
- RC** EXISTING DETECTOR HANDHOLE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	78.4/79.8	13	28

Brian T. Finck 3/10/11
 REGISTERED ELECTRICAL ENGINEER DATE

March 10, 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.



EXISTING TRAFFIC MANEGMENT SYSTEM ELEMENTS TO BE MAINTAINED

LOCATION	TYPE	DESCRIPTION
4th & R St	cc+V	SOUTHEAST CORNER

4th & R STREET

4th & S STREET

4th & T STREET

THIS SHEET ACCURATE FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL E-2

NO SCALE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC ELECTRICAL

FUNCTIONAL SUPERVISOR
 Troy Arseneau

CALCULATED/DESIGNED BY
 CHECKED BY

Brian T. Finck

REVISED BY
 DATE REVISED

NOTES:

- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

ELECTRICAL NOTES:

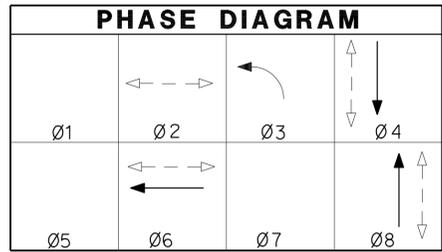
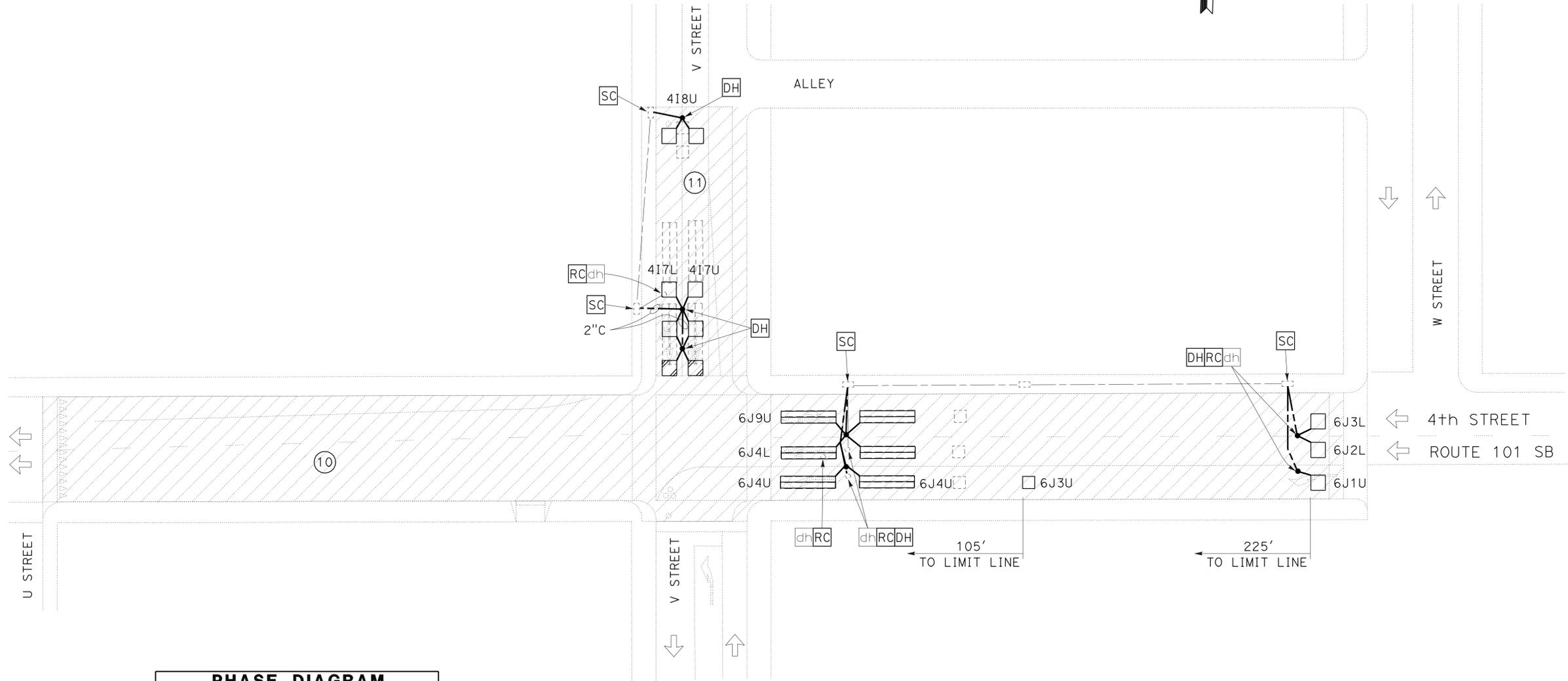
- DETECTOR HANDHOLES SHALL BE PLACED ON LANE LINES AS SHOWN.
- LOOPS SHALL BE PLACED PRIOR TO PLACING FINAL LIFT OF HOT MIX ASPHALT.
- RC** EXISTING DETECTOR HANDHOLE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	78.4/79.8	14	28

Brian T. Finck 3/10/11
 REGISTERED ELECTRICAL ENGINEER DATE

March 10, 2011
 PLANS APPROVAL DATE

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4th & V STREET

MODIFY SIGNAL E-3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	101	78.4/79.8	15	28

Brian T. Finck 3/10/11
REGISTERED ELECTRICAL ENGINEER DATE

March 10, 2011
PLANS APPROVAL DATE

Brian T. Finck
No. 17756
Exp. 6-30-12
ELECTRICAL

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



- NOTES:**
- FOR COMPLETE RIGHT OF WAY DATA, SEE RIGHT OF WAY RECORD MAPS AT DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

- ELECTRICAL NOTES:**
- DETECTOR HANDHOLES SHALL BE PLACE ON LANE LINES AS SHOWN.
 - LOOPS SHALL BE PLACED PRIOR TO PLACING FINAL LIFT OF HOT MIX ASPHALT.
 - RC** EXISTING DETECTOR HANDHOLE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC ELECTRICAL

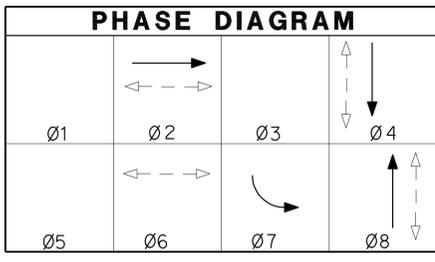
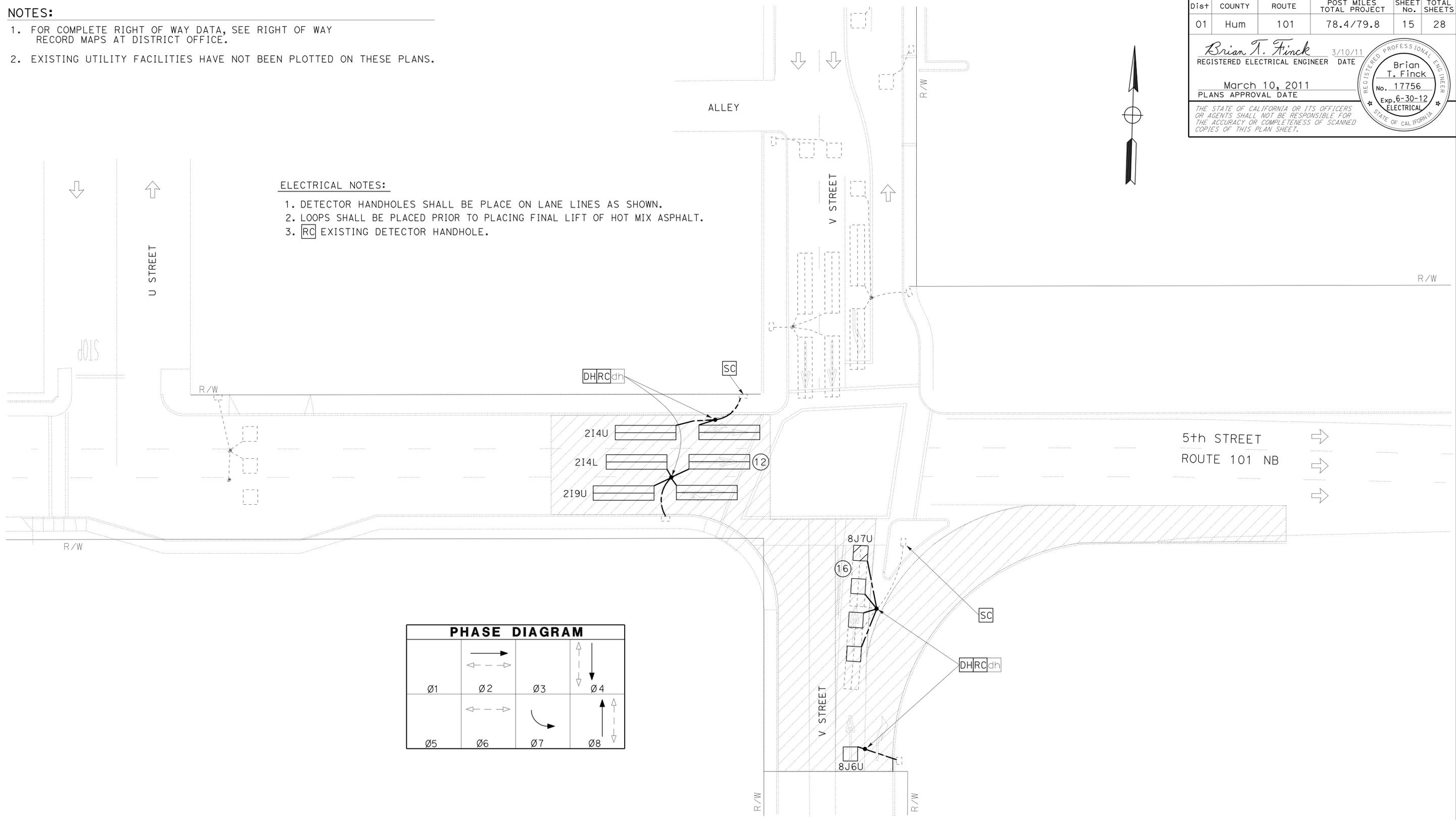
FUNCTIONAL SUPERVISOR
Troy Arseneau

DESIGNED BY
CALCULATED BY

CHECKED BY

REVISOR
Brian T. Finck

DATE
REVISED BY



5th & V STREET

MODIFY SIGNAL E-4

LAST REVISION DATE PLOTTED => 14-MAR-2011 00-00-00 TIME PLOTTED => 13:48

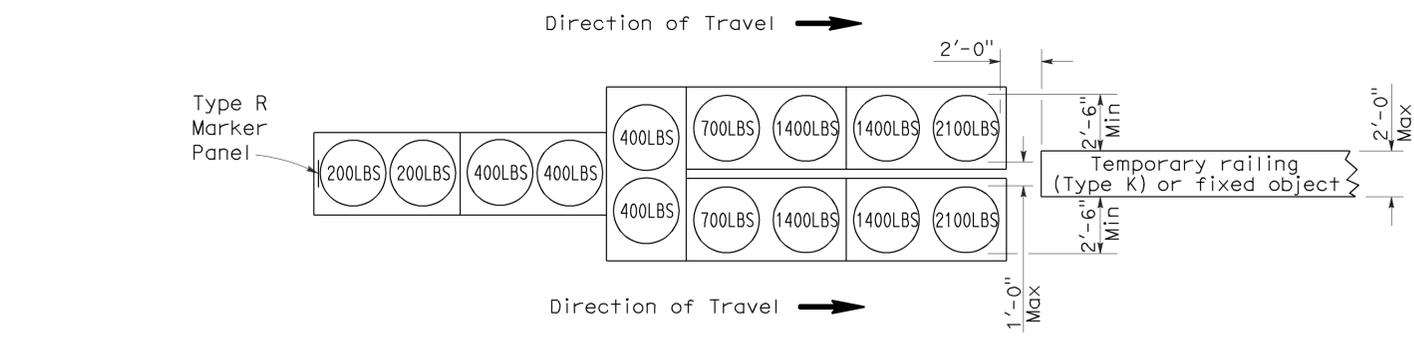
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	16	28

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

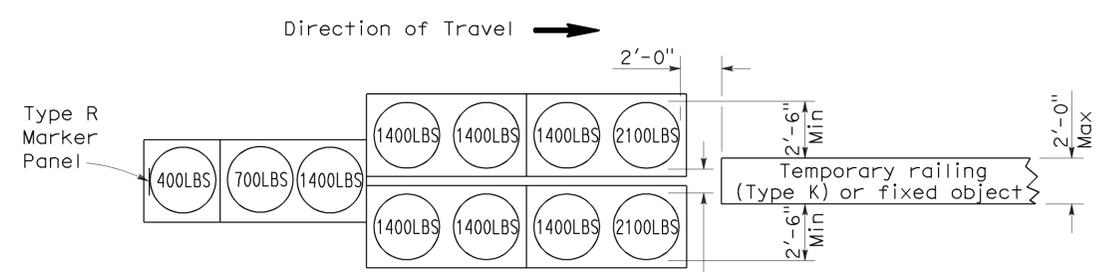
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated March 10, 2011



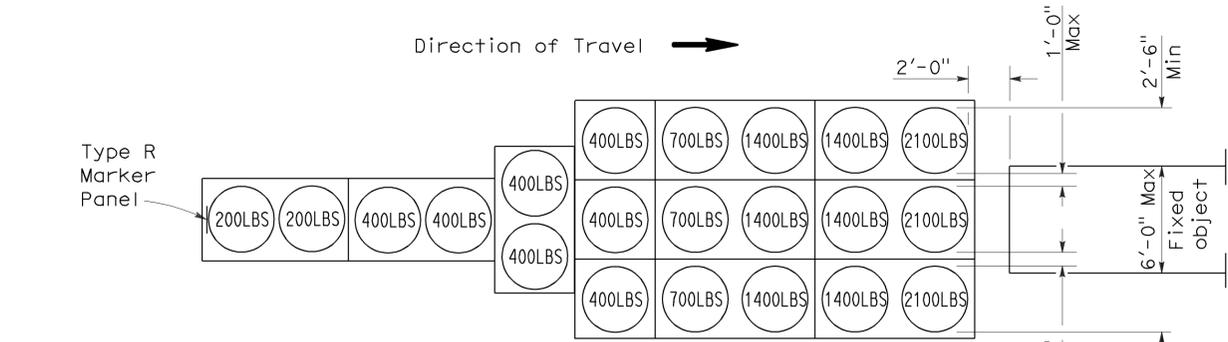
ARRAY 'TU14'

Approach speed 45 mph or more



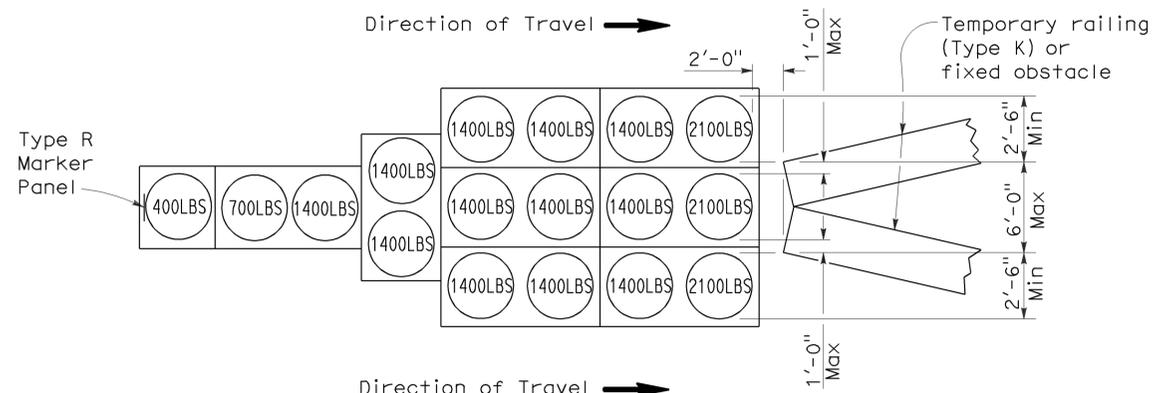
ARRAY 'TU11'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more

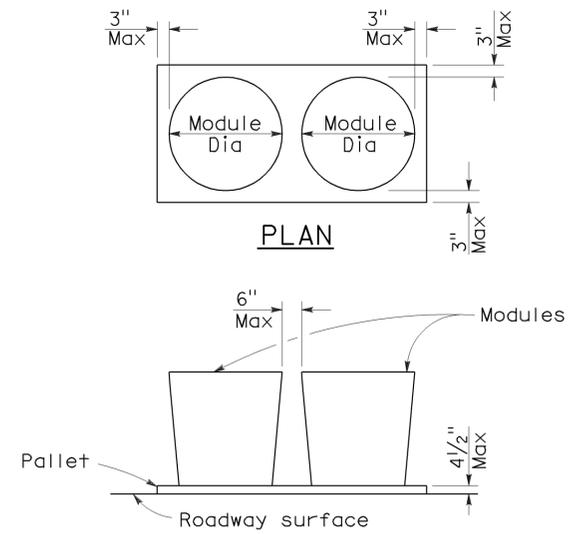


ARRAY 'TU17'

Approach speed less than 45 mph

NOTES:

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



CRASH CUSHION PALLET DETAIL
See Note 7

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	17	28

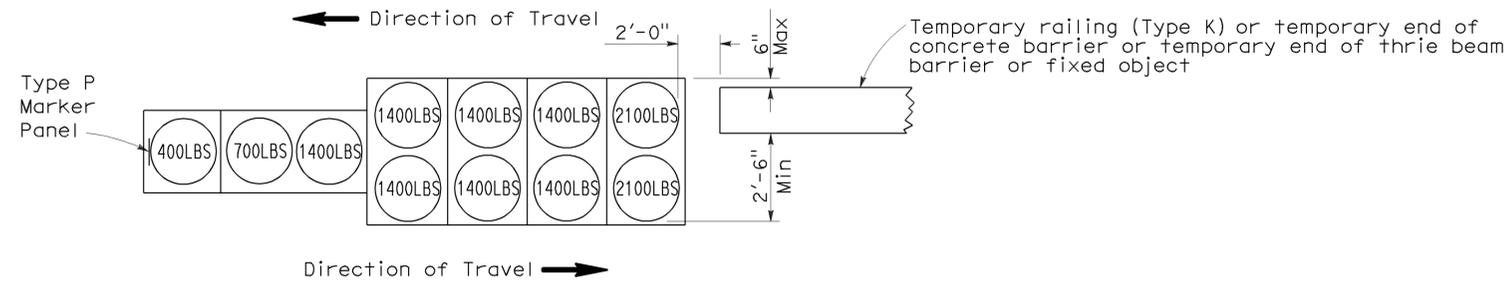
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

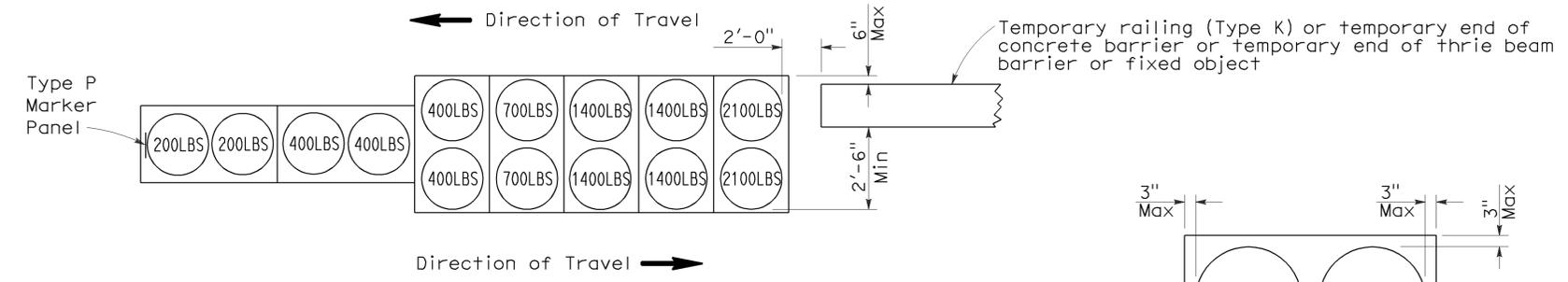
REGISTERED PROFESSIONAL ENGINEER
No. C50200
Exp. 6-30-09
CIVIL
STATE OF CALIFORNIA

To accompany plans dated March 10, 2011



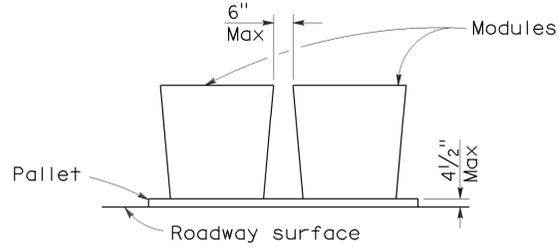
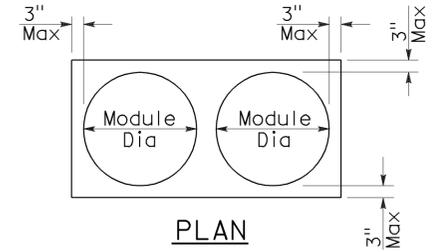
ARRAY 'TB11'

Approach speed less than 45 mph



ARRAY 'TB14'

Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

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

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

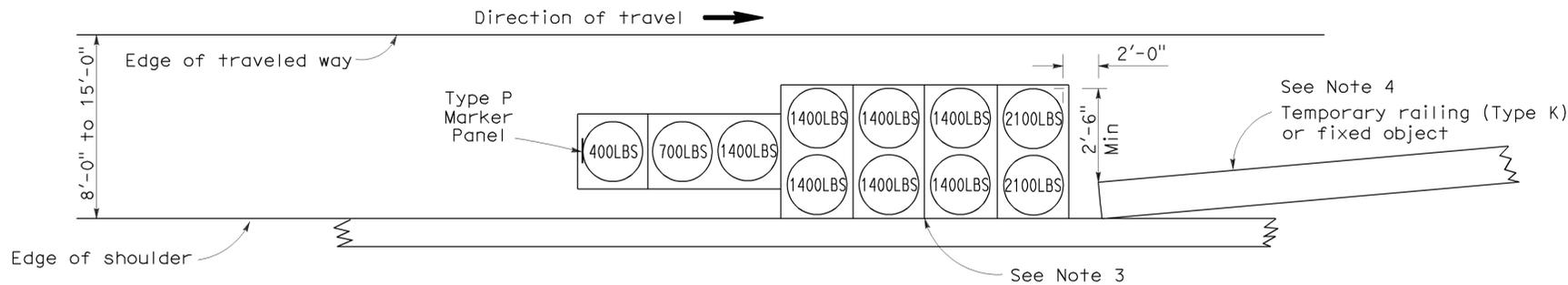
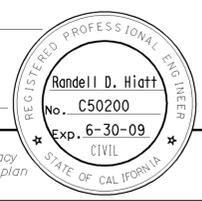
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	18	28

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

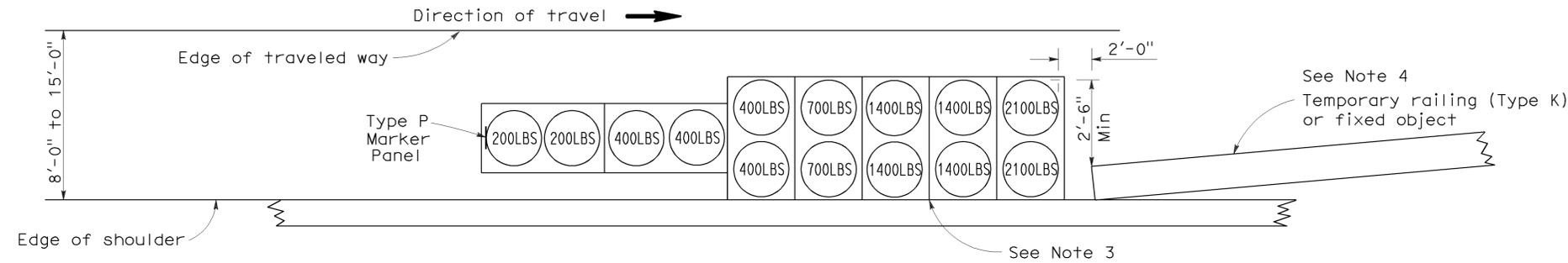
June 6, 2008
PLANS APPROVAL DATE

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To accompany plans dated March 10, 2011



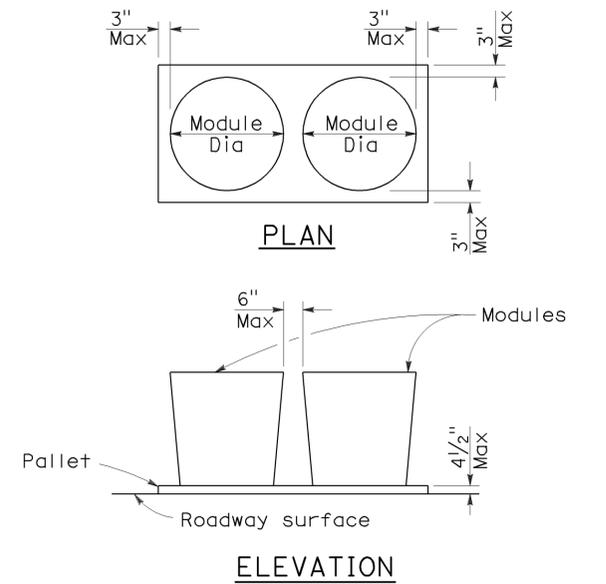
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

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.



CRASH CUSHION PALLET DETAIL
See Note 11

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

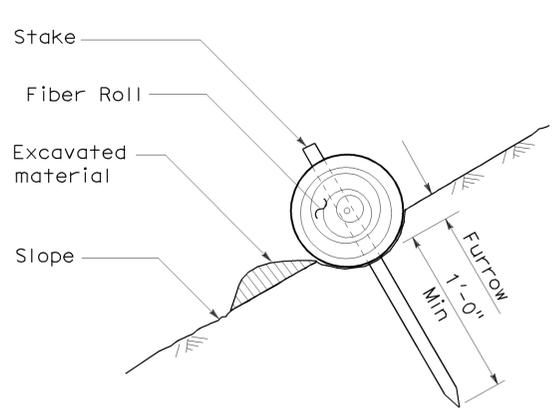
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	19	28

Robert B. Schott
LICENSED LANDSCAPE ARCHITECT

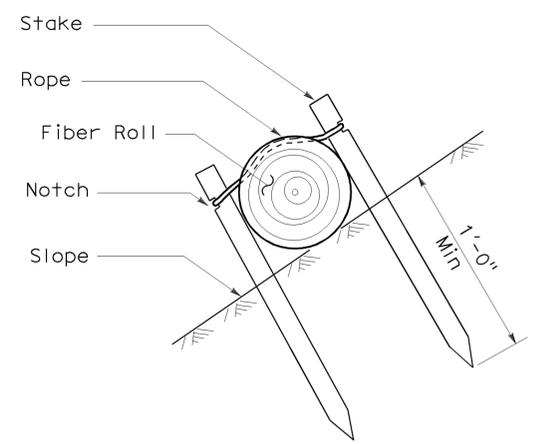
April 3, 2009
PLANS APPROVAL DATE

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.

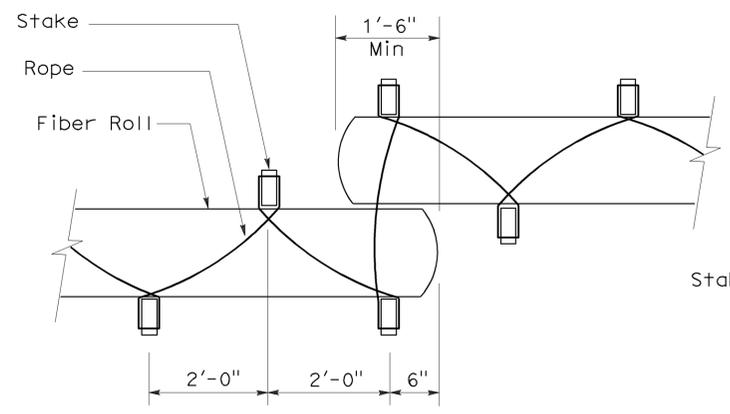
To accompany plans dated March 10, 2011



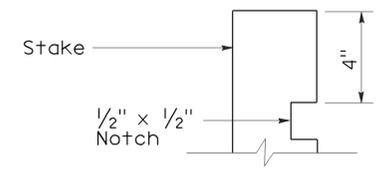
SECTION
TEMPORARY FIBER ROLL
(TYPE 1)



SECTION
TEMPORARY FIBER ROLL
(TYPE 2)

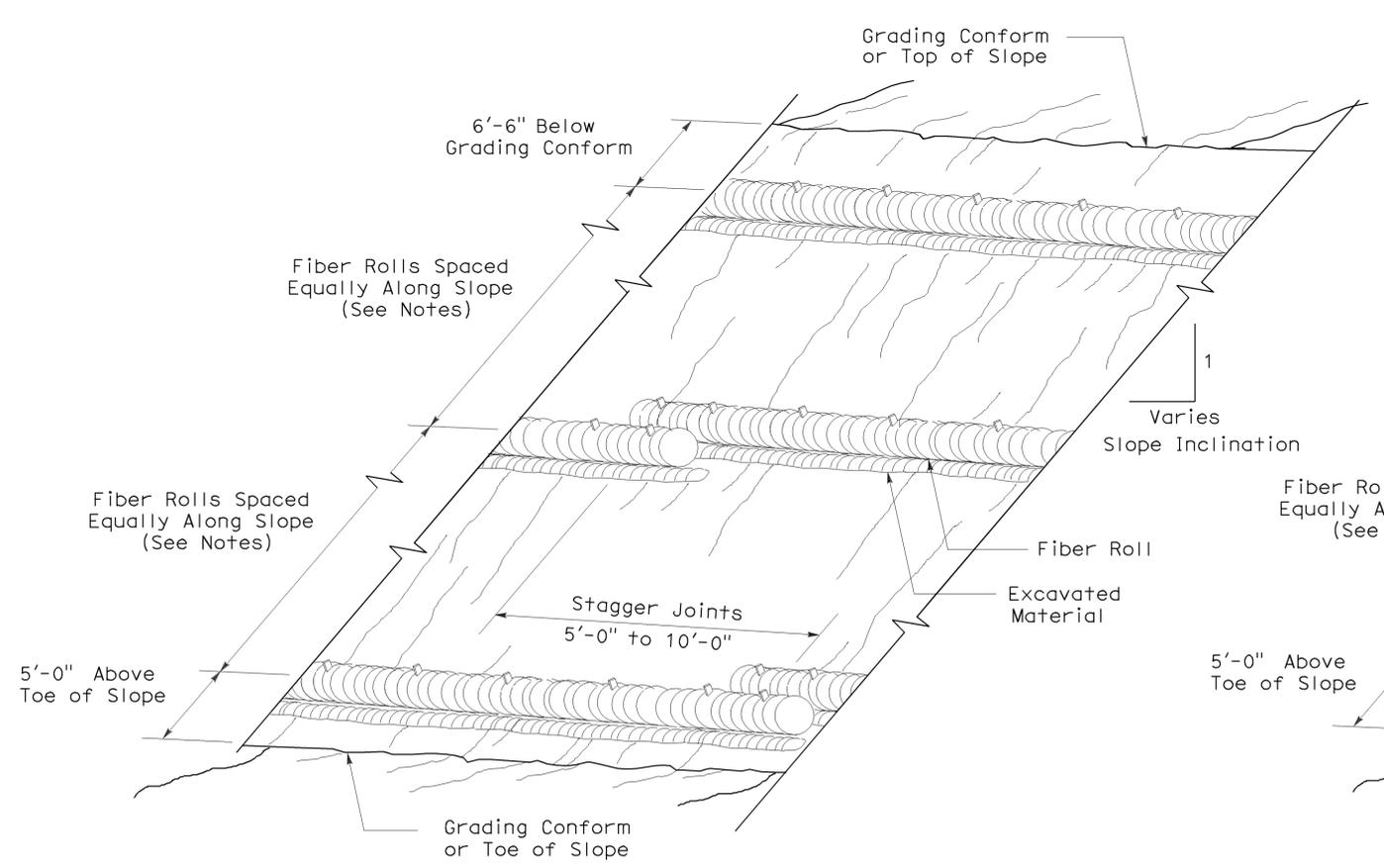


PLAN

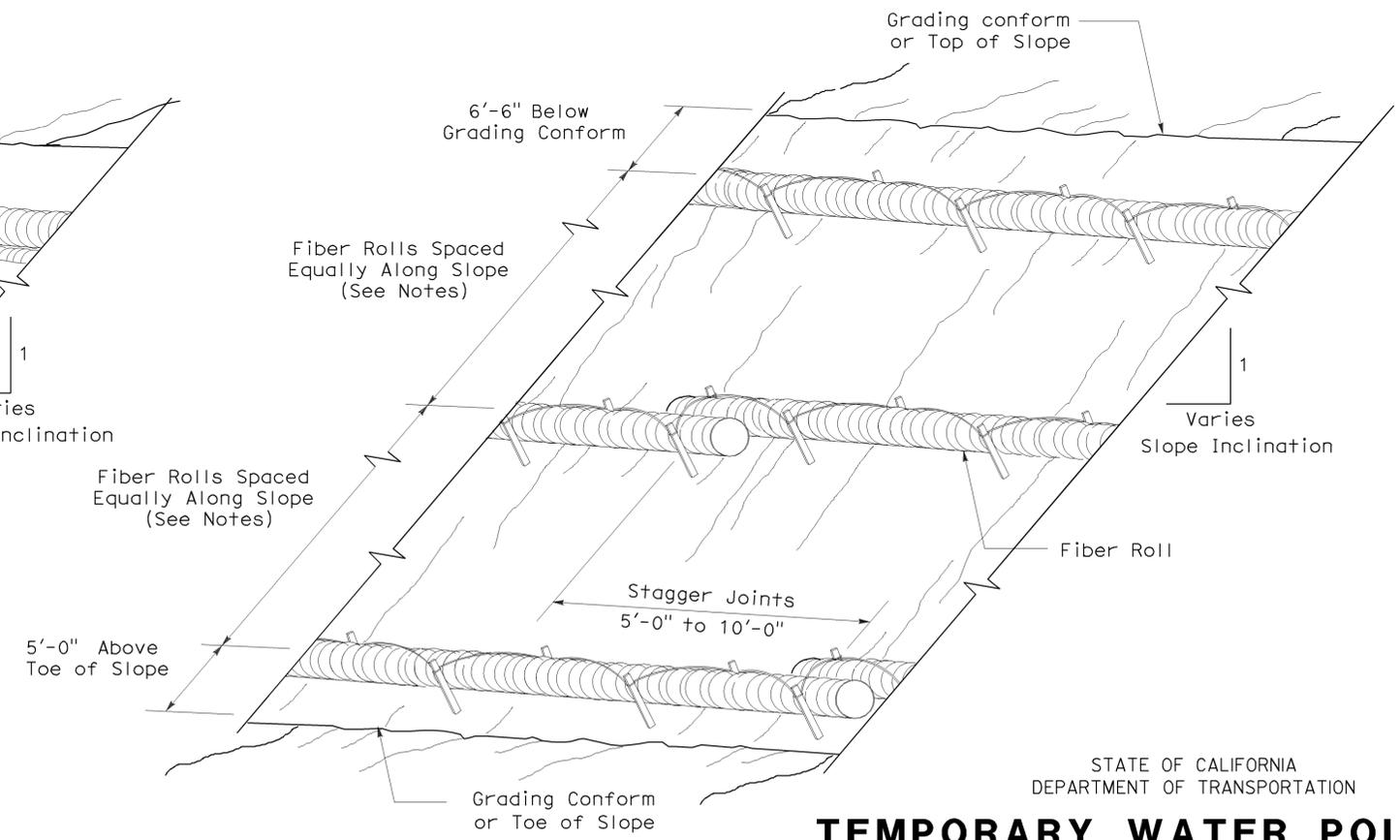


ELEVATION
STAKE NOTCH DETAIL

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



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**TEMPORARY WATER POLLUTION
CONTROL DETAILS
(TEMPORARY FIBER ROLL)**

NO SCALE

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

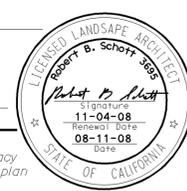
REVISED STANDARD PLAN RSP T56

232

2006 REVISED STANDARD PLAN RSP T56

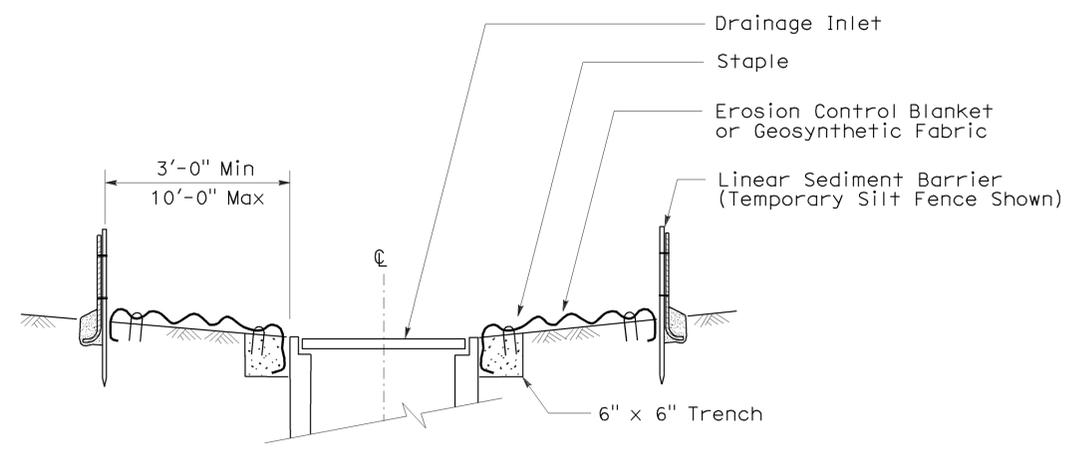
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	20	28

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.

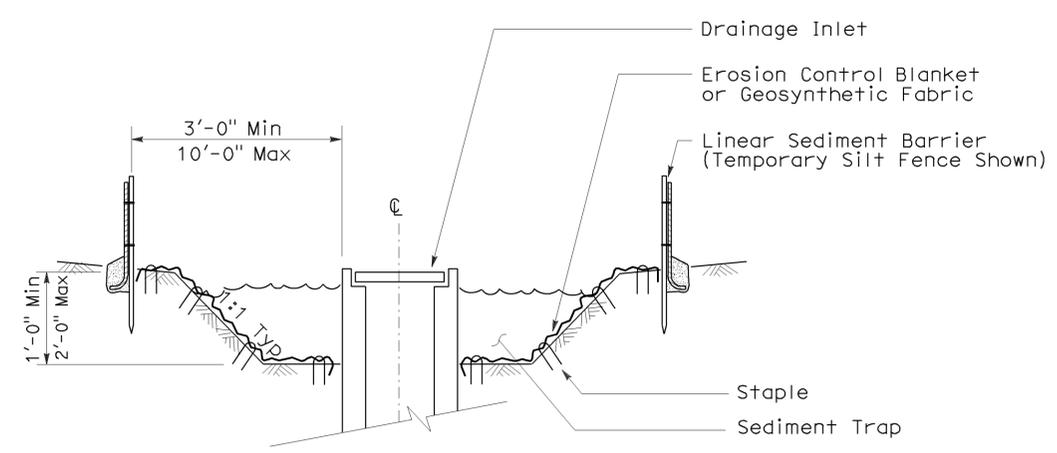


To accompany plans dated March 10, 2011

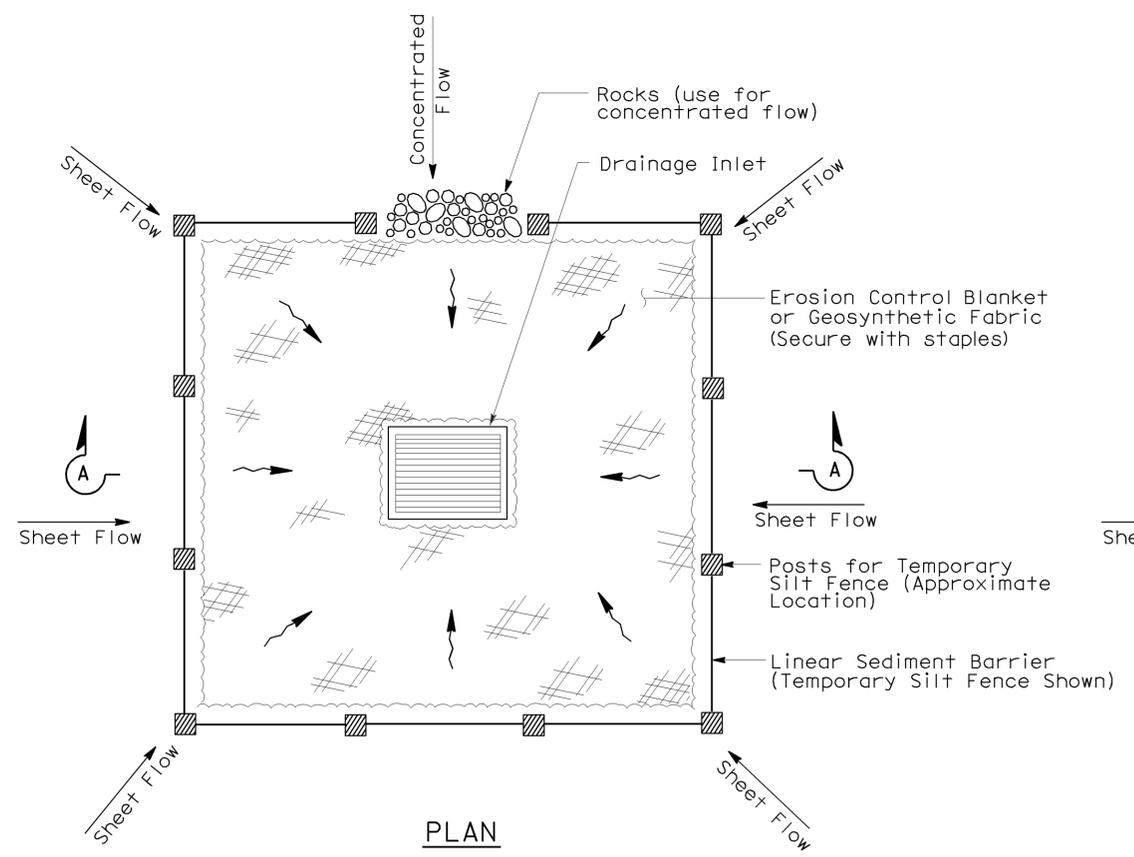
- NOTES:**
- See Standard Plan T51 for Temporary Silt Fence.
 - Dimensions may vary to fit field conditions.



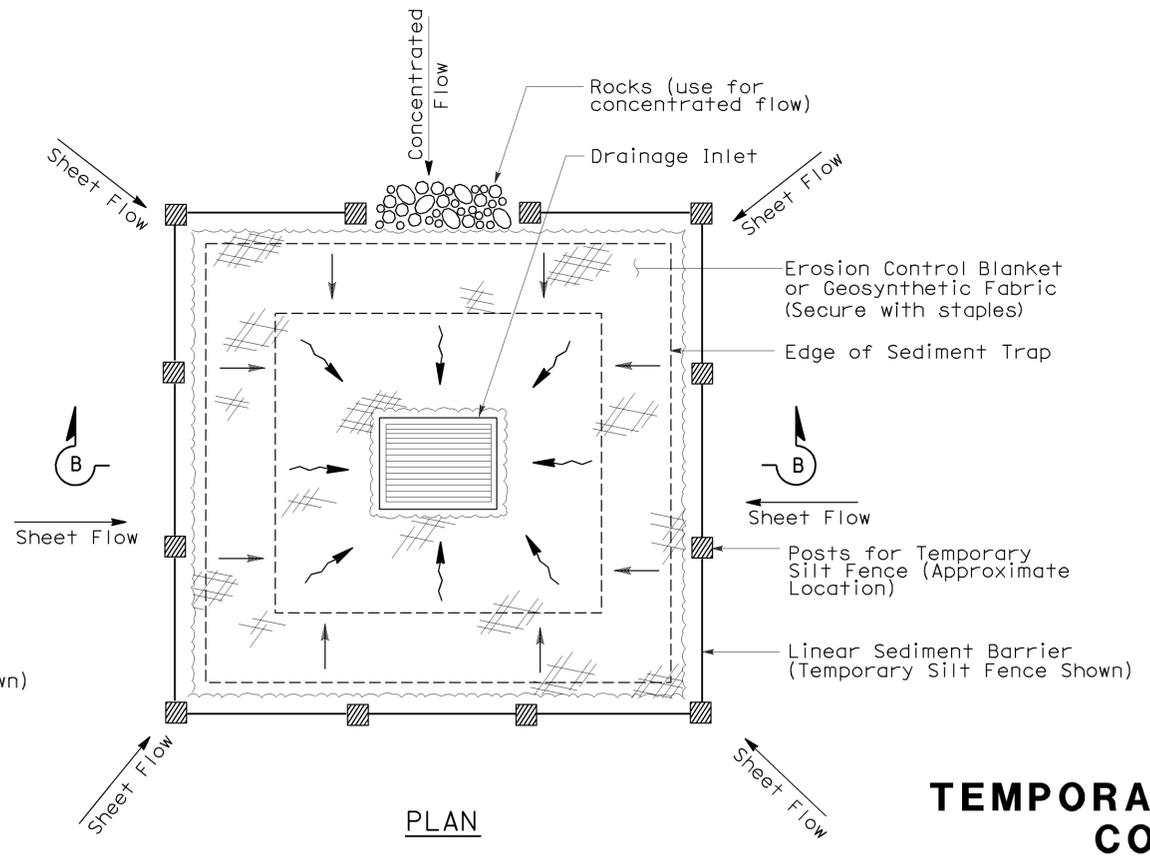
SECTION A-A



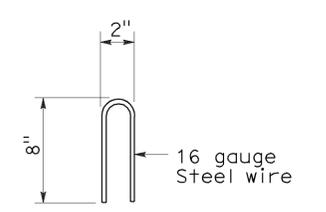
SECTION B-B



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 1)



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.

2006 NEW STANDARD PLAN NSP T61

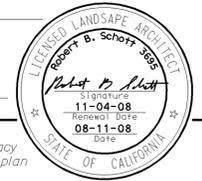
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	21	28

Robert B. Schmitt
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.

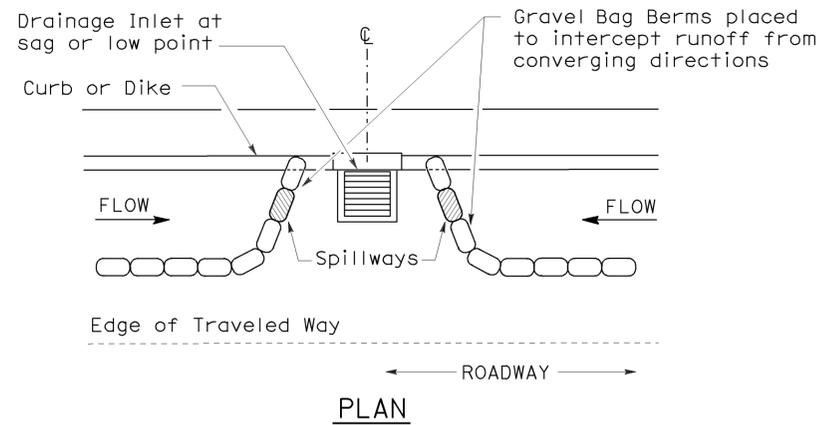
To accompany plans dated March 10, 2011



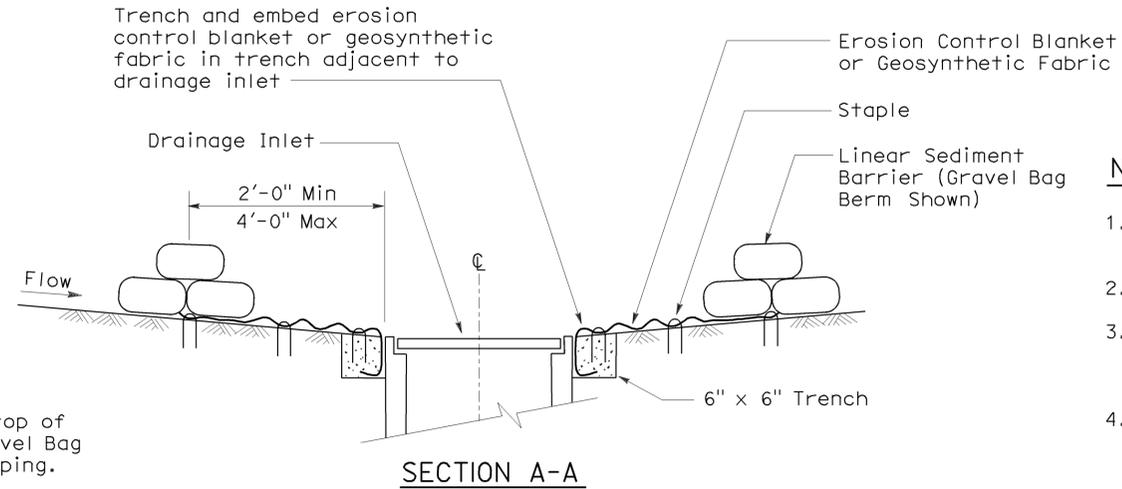
GRAVEL BAG BERM (TYPE 3A) SPACING TABLE

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



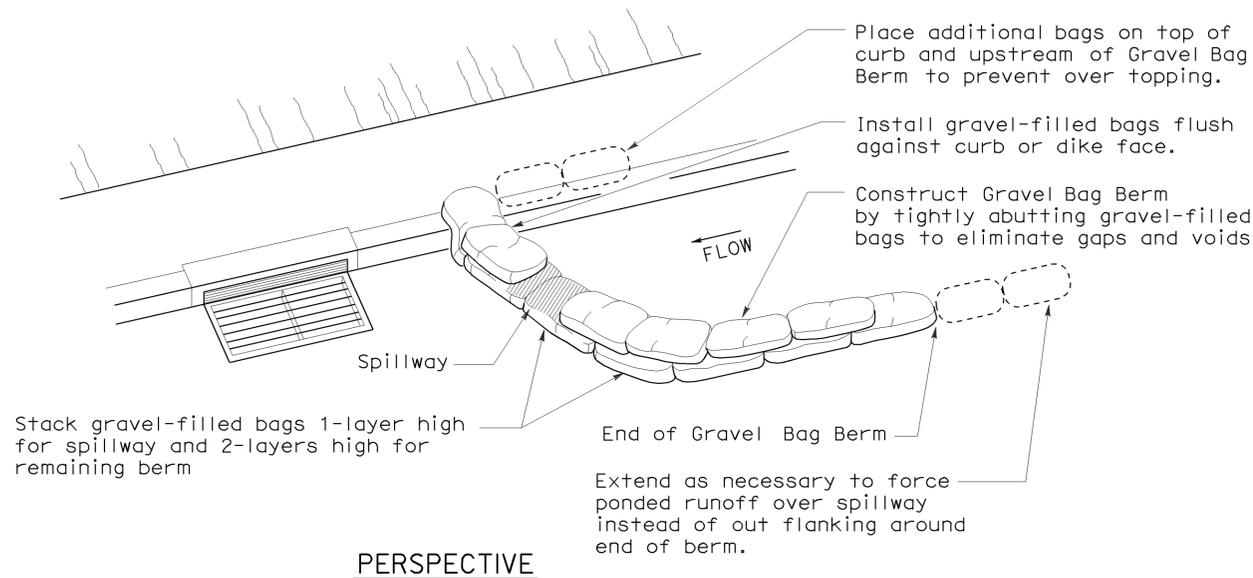
CONFIGURATION FOR SAG POINT INLET (GRAVEL BAG BERM)



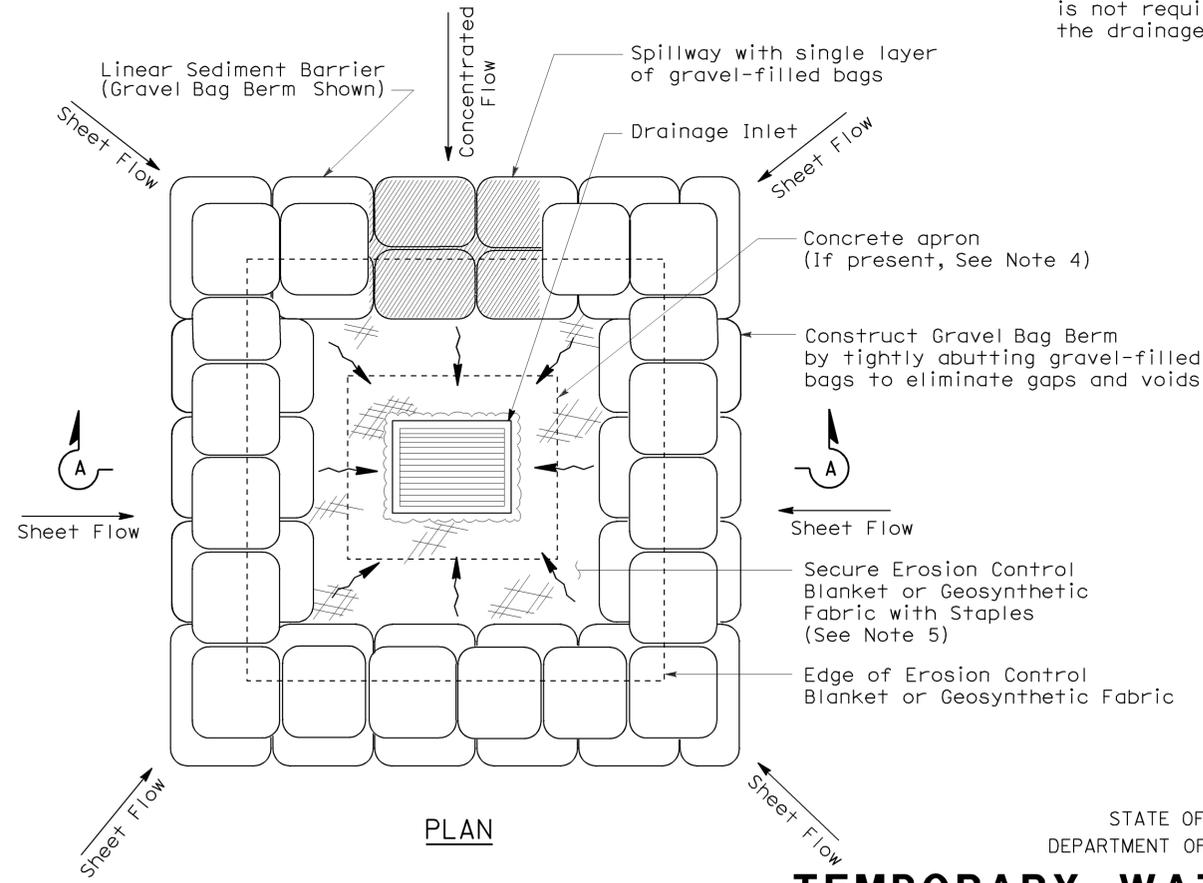
SECTION A-A

NOTES:

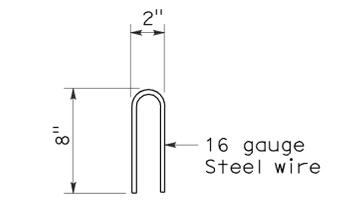
1. Place safety cones adjacent to drainage inlet protection.
2. Dimensions may vary to fit field conditions.
3. Install a minimum of 3 gravel bag berms upstream of each drainage inlet to be protected.
4. Position erosion control blanket or geosynthetic fabric at edge of concrete apron and secure in trench.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



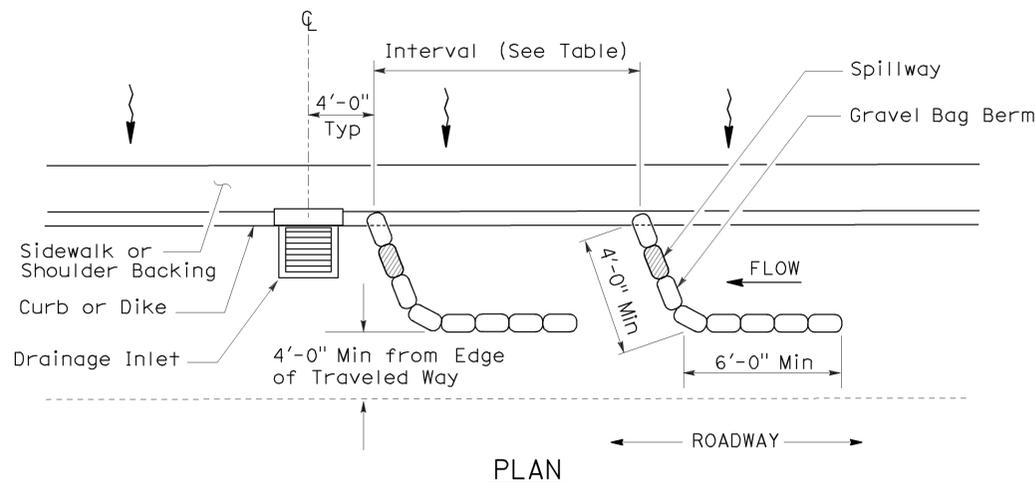
PERSPECTIVE



TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3B)



STAPLE DETAIL



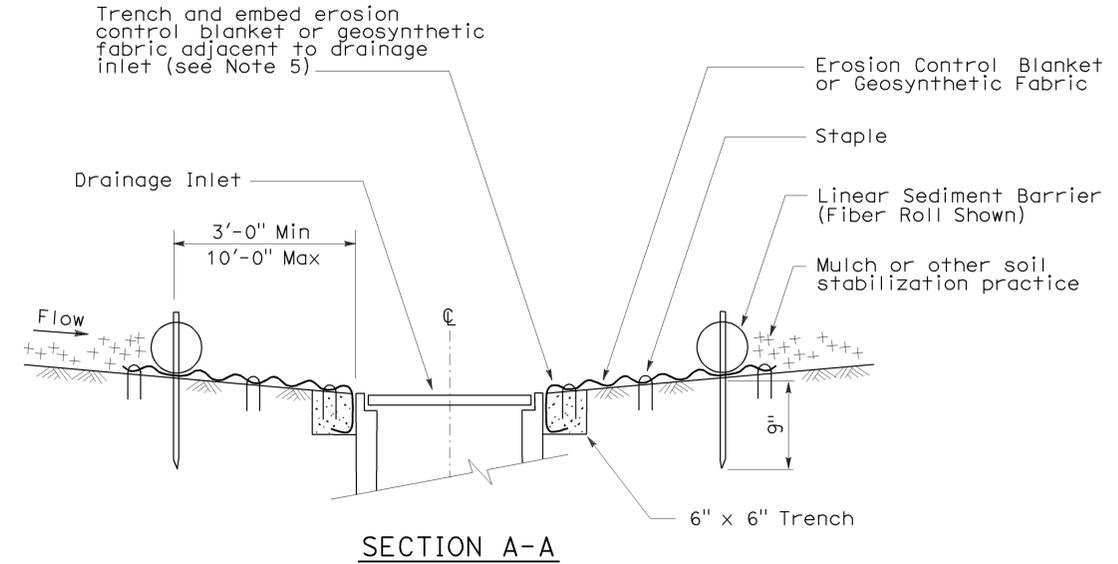
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3A) (GRAVEL BAG BERM)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY DRAINAGE INLET PROTECTION)

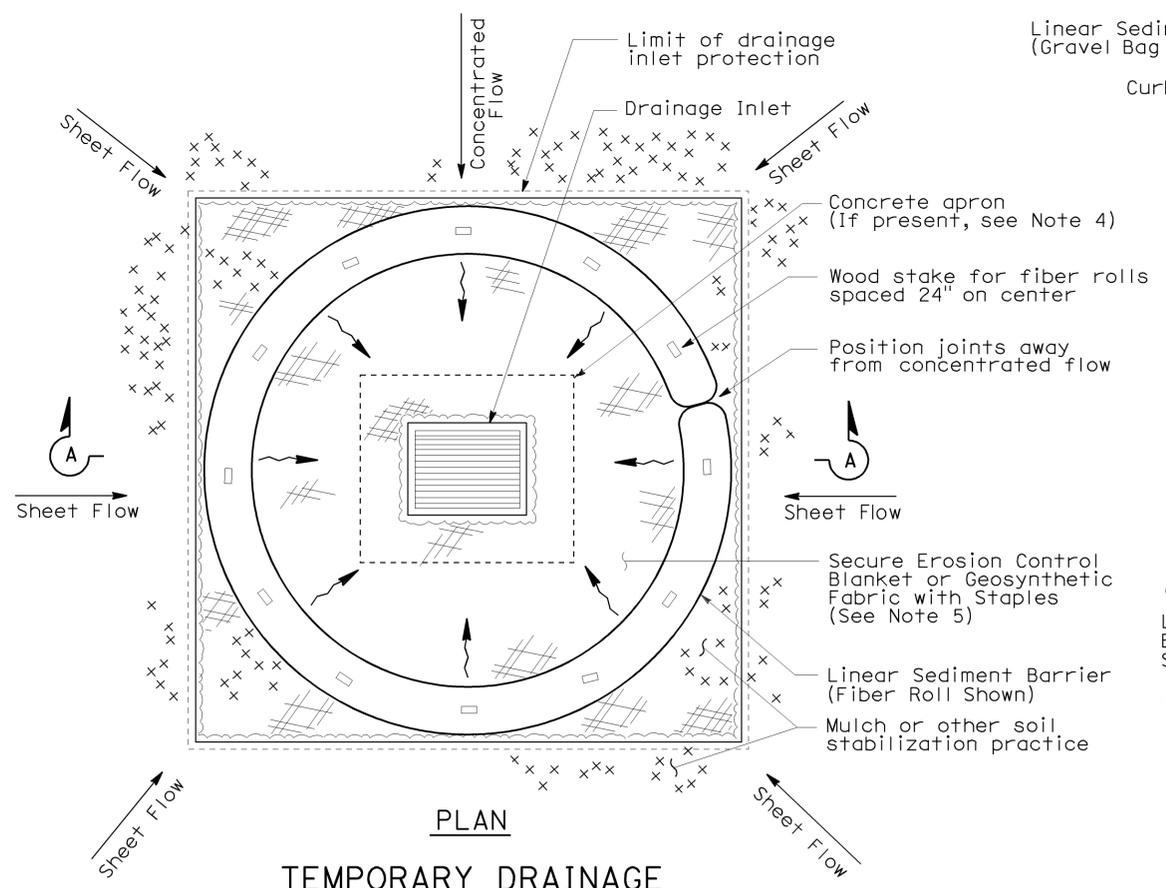
NO SCALE
NSP T62 DATED AUGUST 15, 2008 SUPPLEMENTS THE STANDARD PLANS BOOK DATED MAY 2006.

FLEXIBLE SEDIMENT BARRIER SPACING TABLE

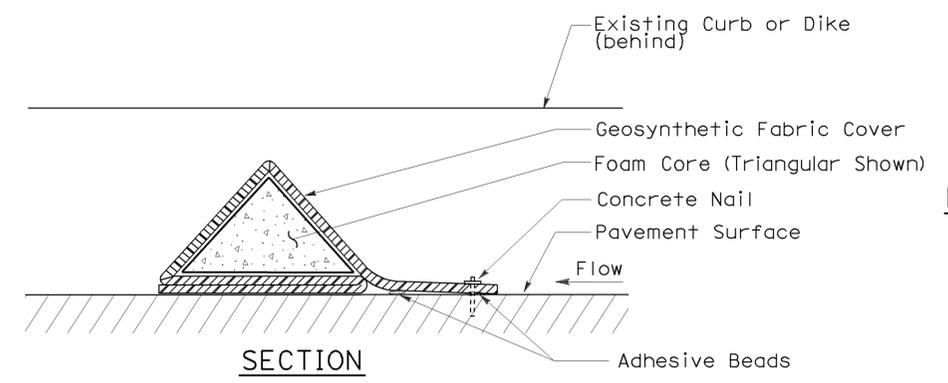
SLOPE OF ROADWAY (PERCENT)	0 to 0.9	1 to 1.9	2 to 2.9	3 to 4	5+
INTERVAL BETWEEN BARRIERS	50'	35'	30'	25'	20'
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	6'	6'	6'	6'	6'



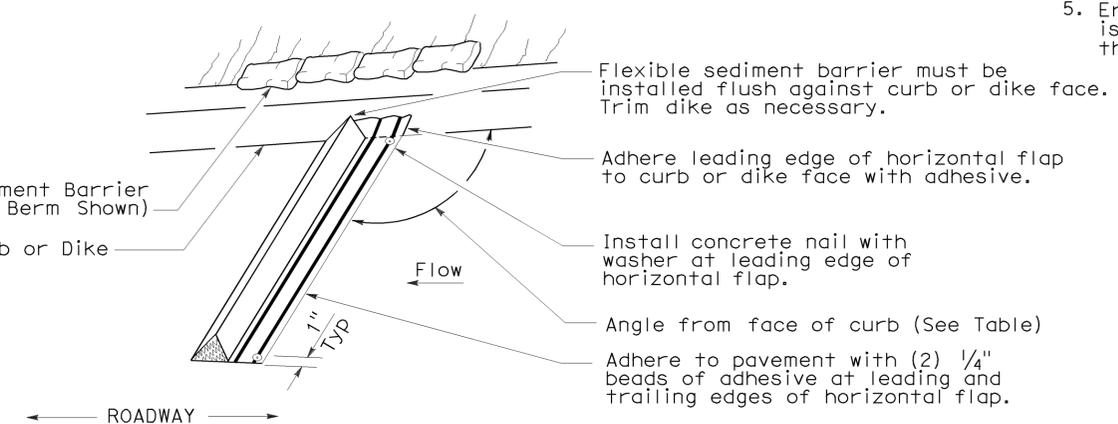
SECTION A-A



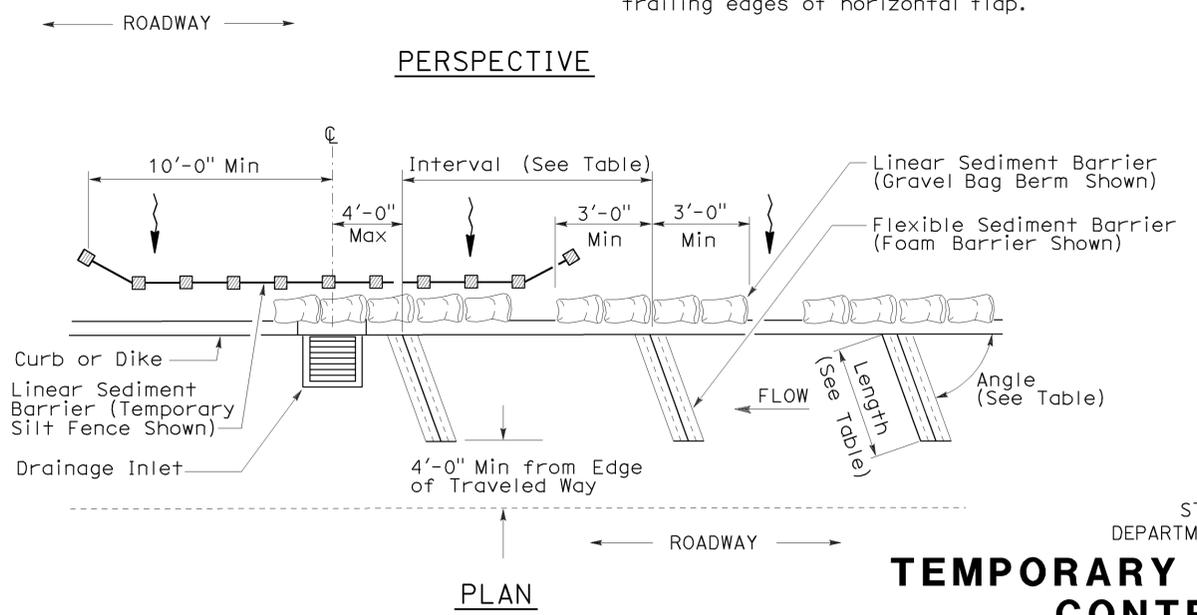
PLAN
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 4A)



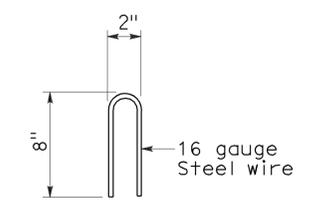
SECTION
FLEXIBLE SEDIMENT BARRIER DETAIL (FOAM BARRIER SHOWN)



PERSPECTIVE



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



STAPLE DETAIL

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.

To accompany plans dated March 10, 2011

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.

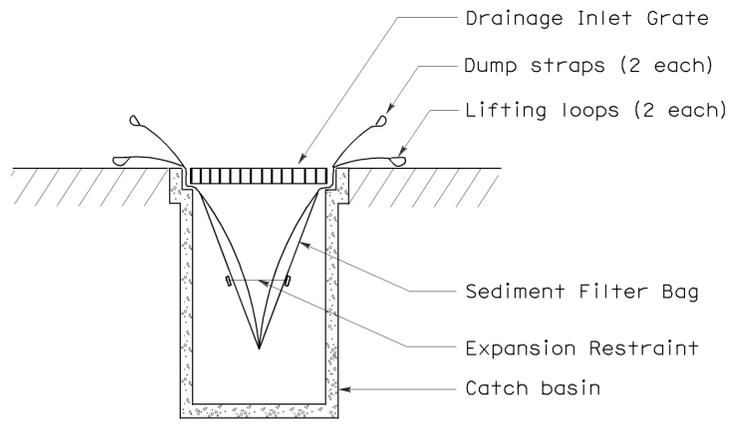
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	23	28

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT

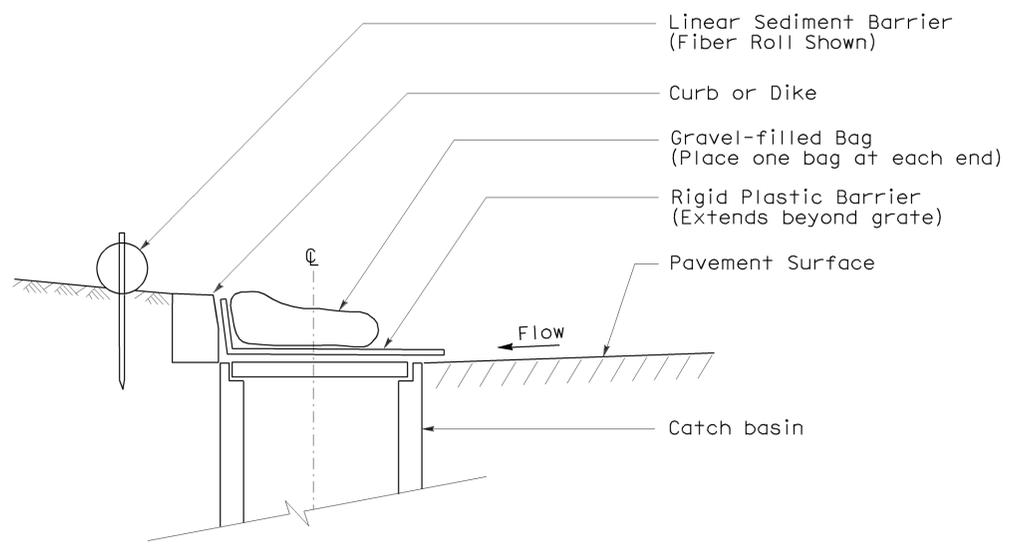
August 15, 2008
 PLANS APPROVAL DATE

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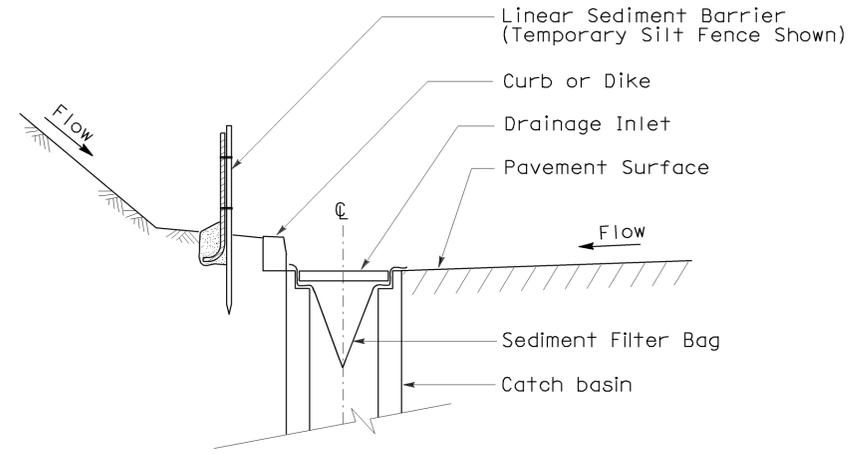
To accompany plans dated March 10, 2011



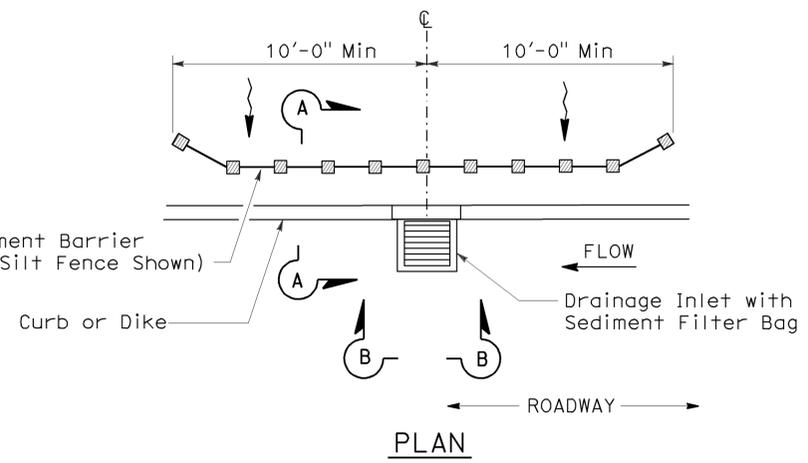
SECTION B-B
SEDIMENT FILTER BAG DETAIL



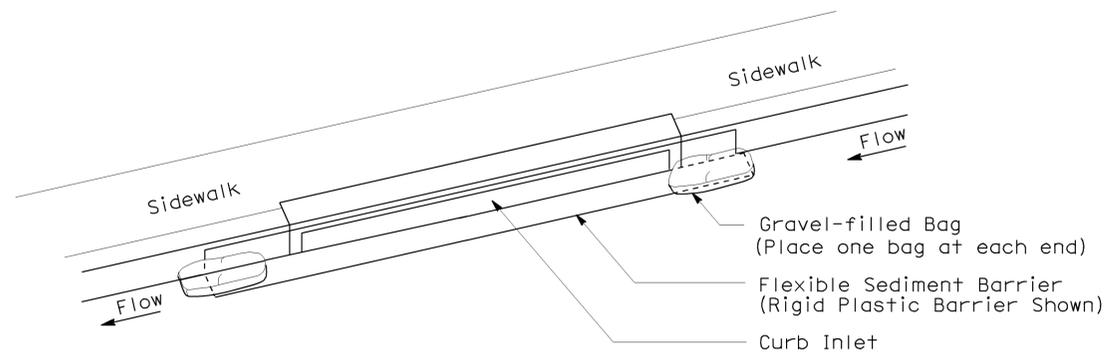
SECTION
TEMPORARY DRAINAGE
INLET PROTECTION (TYPE 6A)
(CATCH BASIN WITH GRATE)



SECTION A-A



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



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

NOTES:

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

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

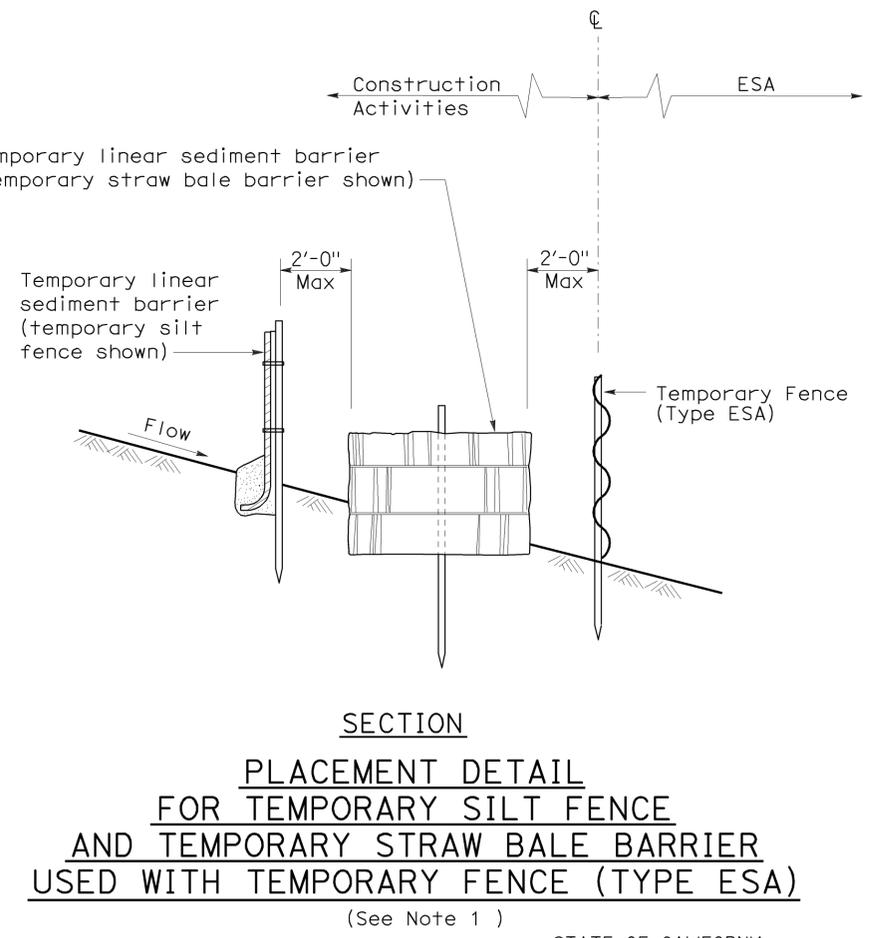
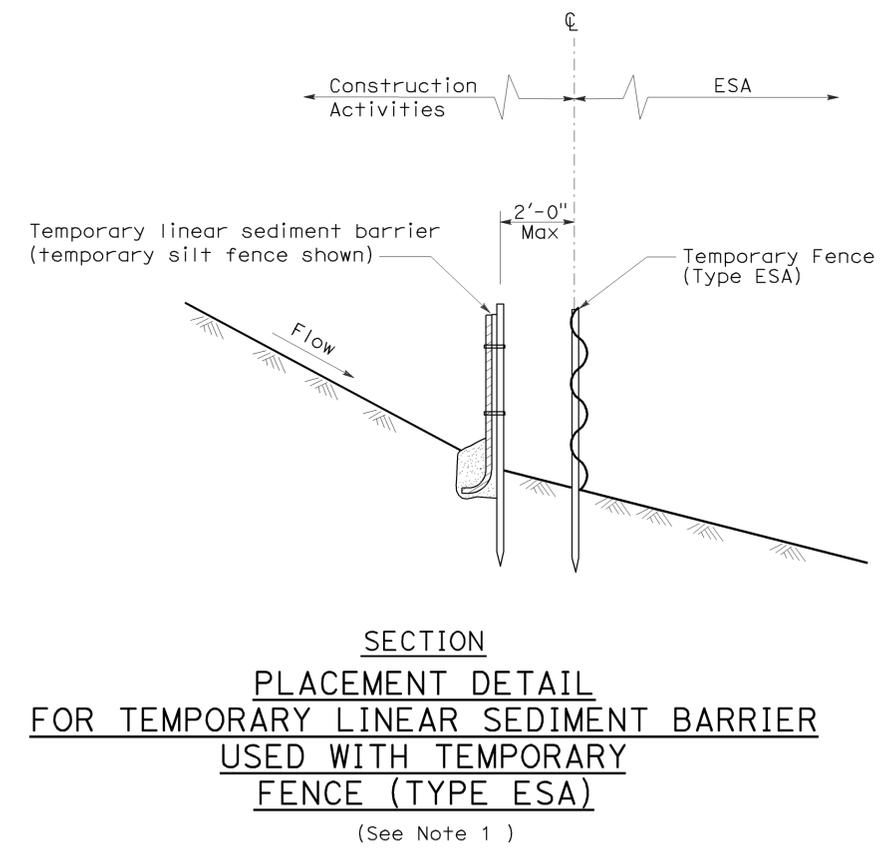
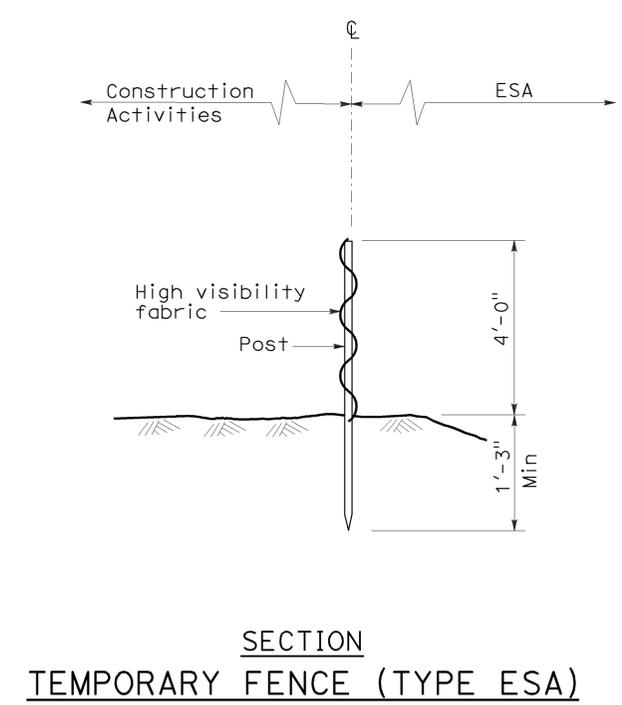
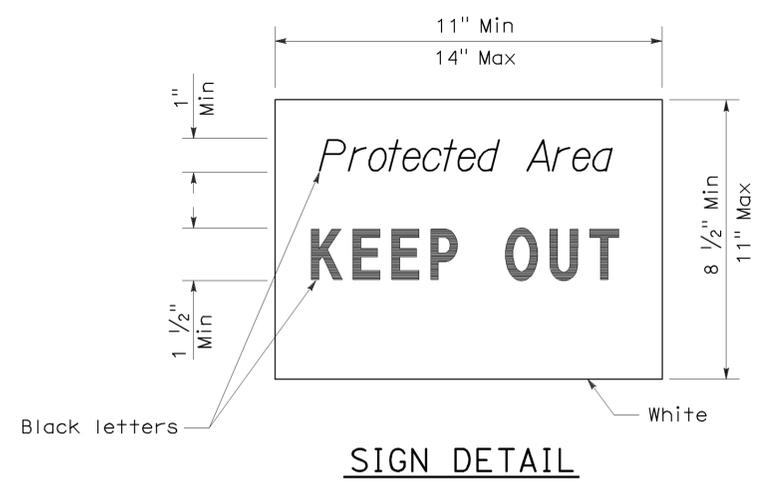
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	24	28

Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 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.

To accompany plans dated March 10, 2011

NOTE:

1. Temporary silt fence and temporary straw bale barrier shown for reference purposes only.

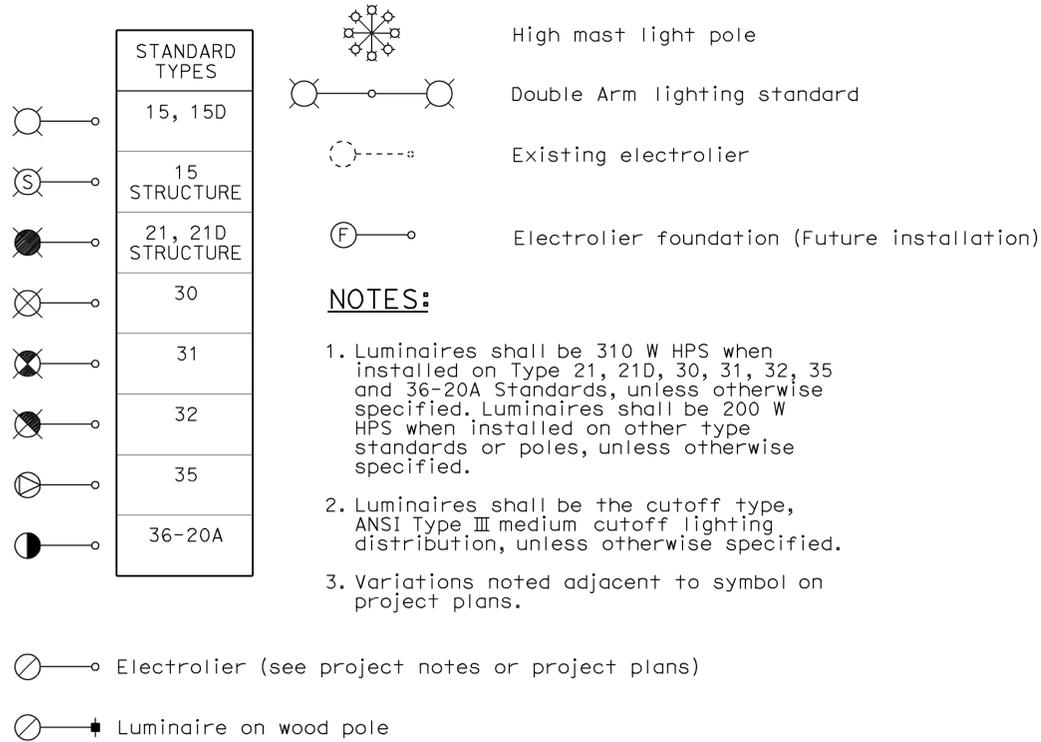


STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TEMPORARY WATER POLLUTION
CONTROL DETAILS**
[TEMPORARY FENCE (TYPE ESA)]
NO SCALE

NSP T65 DATED APRIL 3, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

2006 NEW STANDARD PLAN NSP T65

ELECTROLIERS



STANDARD NOTES:

- AB** Abandon. If applied to conduit, remove conductors.
- BC** Install pull box in existing conduit run.
- BP** Pedestrian barricade, type as indicated on plan.
- CB** Install conduit into existing pull box.
- CC** Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
- CF** Conduit to remain for future use. Remove conductors. Install pull wire or rope.
- DH** Detector handhole.
- FA** Foundation to be abandoned.
- IS** Install sign on signal mast arm.
- NS** No slip base on standard.
- PEC** Photoelectric control.
- PEU** Photoelectric unit.
- RC** Equipment or material to be removed and become the property of the Contractor.
- RE** Remove electrolier, fuses and ballast. Tape ends of conductors.
- RL** Relocate equipment.
- RR** Remove and reuse equipment.
- RS** Remove and salvage equipment.
- SC** Splice new to existing conductors.
- SD** Service disconnect.
- SF** Standard to remain for future use. Remove luminaire, pole conductors, fuses and ballast.
- TSP** Telephone service point.

ABBREVIATIONS AND EQUIPMENT DESIGNATIONS

PROPOSED EXISTING

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	25	28

Jeffery G. McRae
REGISTERED ELECTRICAL ENGINEER

October 5, 2007
PLANS APPROVAL DATE

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

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To accompany plans dated March 10, 2011

SOFFIT AND WALL MOUNTED LUMINAIRES

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

NOTE:

Arrow indicates "street side" of luminaire.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP ES-1A

2006 REVISED STANDARD PLAN RSP ES-1A

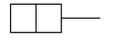
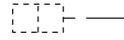
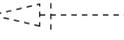
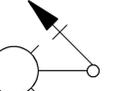
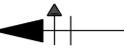
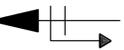
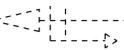
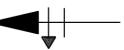
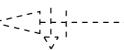
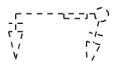
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	26	28

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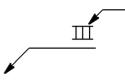
CONDUIT

PROPOSED	EXISTING	
---	---	Lighting Conduit, unless otherwise indicated or noted
---	---	Traffic signal conduit
-C-	-c-	Communication conduit
-T-	-t-	Telephone conduit
-F-	-f-	Fire alarm conduit
-FO-	-fo-	Fiber optic conduit
---	---	Conduit termination 
		Conduit riser in/on structure or service pole

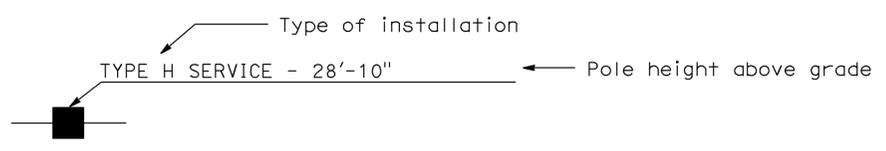
SIGNAL EQUIPMENT

PROPOSED	EXISTING	
		Pedestrian signal face
		Pedestrian push button post
		Pedestrian barricade
		Vehicle signal face (with backplate, 3-Section: red, yellow and green)
		Vehicle signal face with angle visors
		Modifications of basic symbols: "L" Indicates all non-arrow sections lowered "LG" Indicates lowered green section only "PV" Indicates 12" programmed visibility sections "8" indicates all 8" sections (only when specified)
		Type 15TS and Vehicle signal face
		Vehicle signal face with red, yellow and green left arrow sections
		Vehicle signal face with red and yellow sections and up green arrow
		Vehicle signal face (5 Section) with red, yellow and green sections and yellow and green right arrows
		Type 1 Standard and attached vehicle signal faces
		Standard with signal mast arm only and attached vehicle signal faces and internally illuminated street name sign

SERVICE EQUIPMENT

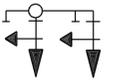
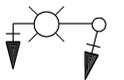
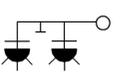
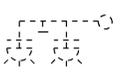
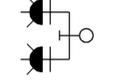
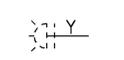
PROPOSED	EXISTING	
---OH---	---oh---	Overhead lines
		Wood pole "U" indicates utility owned
		Pole guy with anchor
		Utility transformer - ground mounted
		Service equipment enclosure type
		Service equipment enclosure door indicates front of enclosure
		Telephone demarcation cabinet

POLE-MOUNTED SERVICE DESIGNATION



ILLUMINATED OVERHEAD SIGN

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

		Type 33 Standard, Left-turn vehicle signal face and sign
		Standard with luminaire and signal mast arms and attached vehicle signal faces
		Cantilever flashing beacon Type 9 Frame, with a sign unless otherwise specified or indicated
		Type 15-FBS Standard with two vehicle signal face sections with lens, backplate and visor with a sign
		Flashing beacon. One vehicle signal face section with lens, backplate and visor. "R" indicates red indication, "Y" indicates yellow indication
		Controller assembly. Door indicates front of cabinet

SIGNAL EQUIPMENT Cont

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

NOTES:

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

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

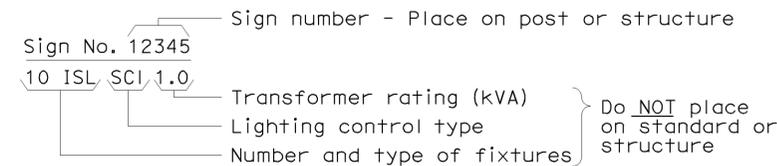
RSP ES-1B DATED OCTOBER 5, 2007 SUPERCEDES STANDARD PLAN ES-1B
 DATED MAY 1, 2006 - PAGE 401 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP ES-1B

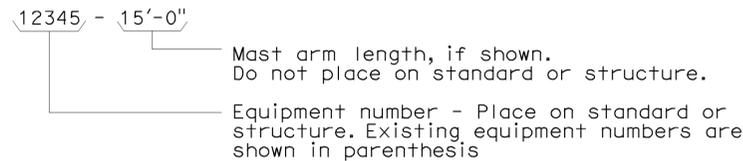
2006 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

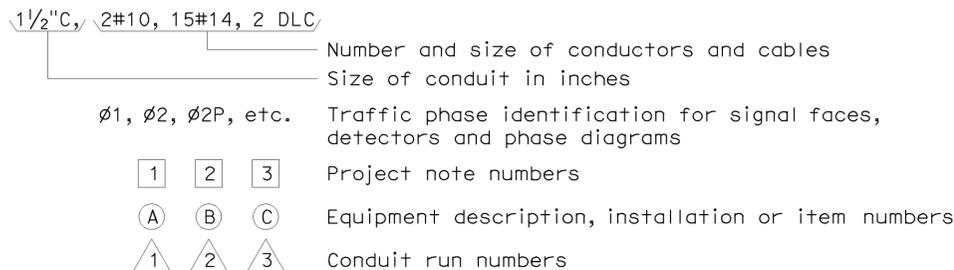
ILLUMINATED SIGN IDENTIFICATION NUMBER:



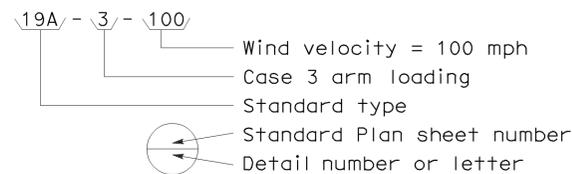
ELECTROLIER OR EQUIPMENT IDENTIFICATION NUMBER:



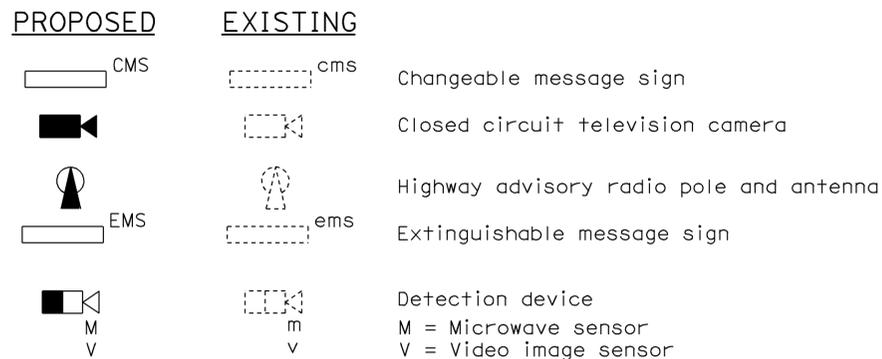
CONDUIT AND CONDUCTOR IDENTIFICATION:



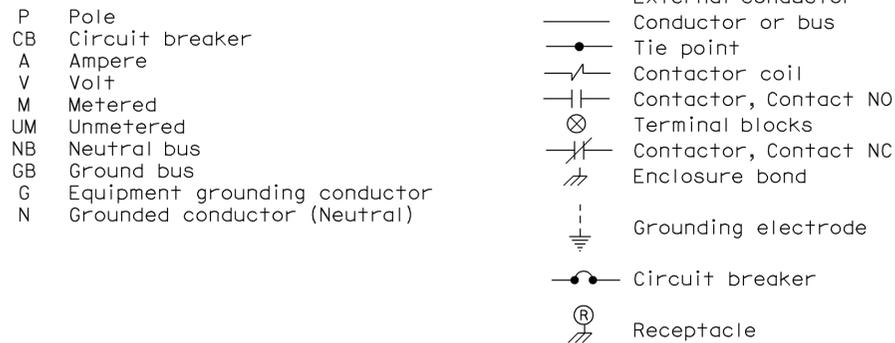
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



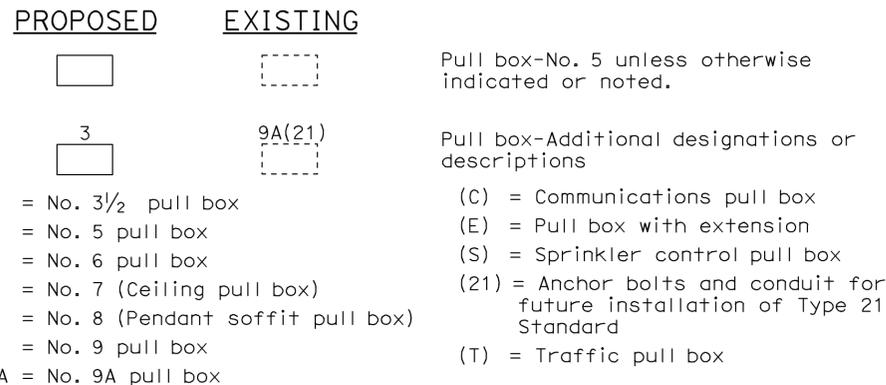
MISCELLANEOUS EQUIPMENT



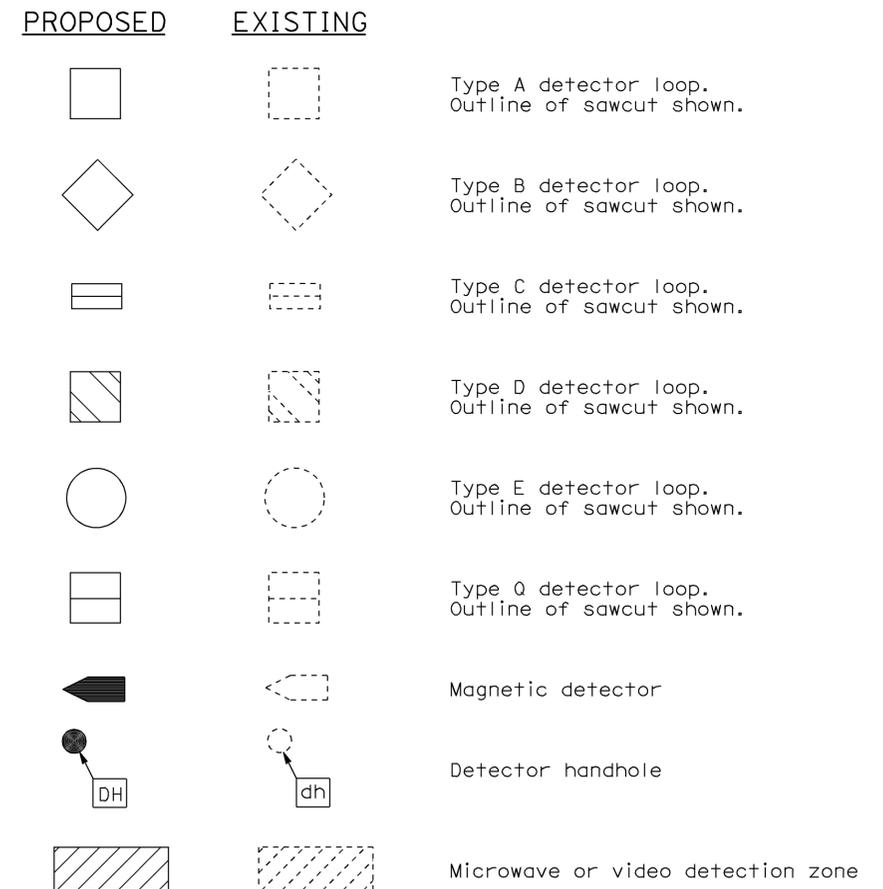
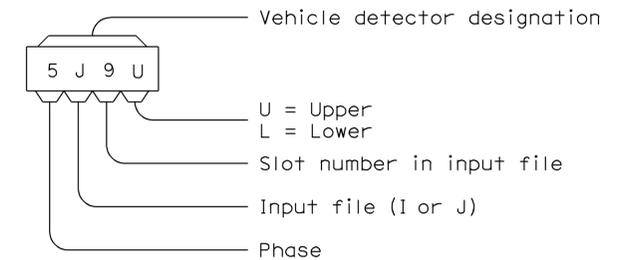
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (SYMBOLS AND ABBREVIATIONS)

NO SCALE

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Hum	101	78.4/79.8	28	28

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

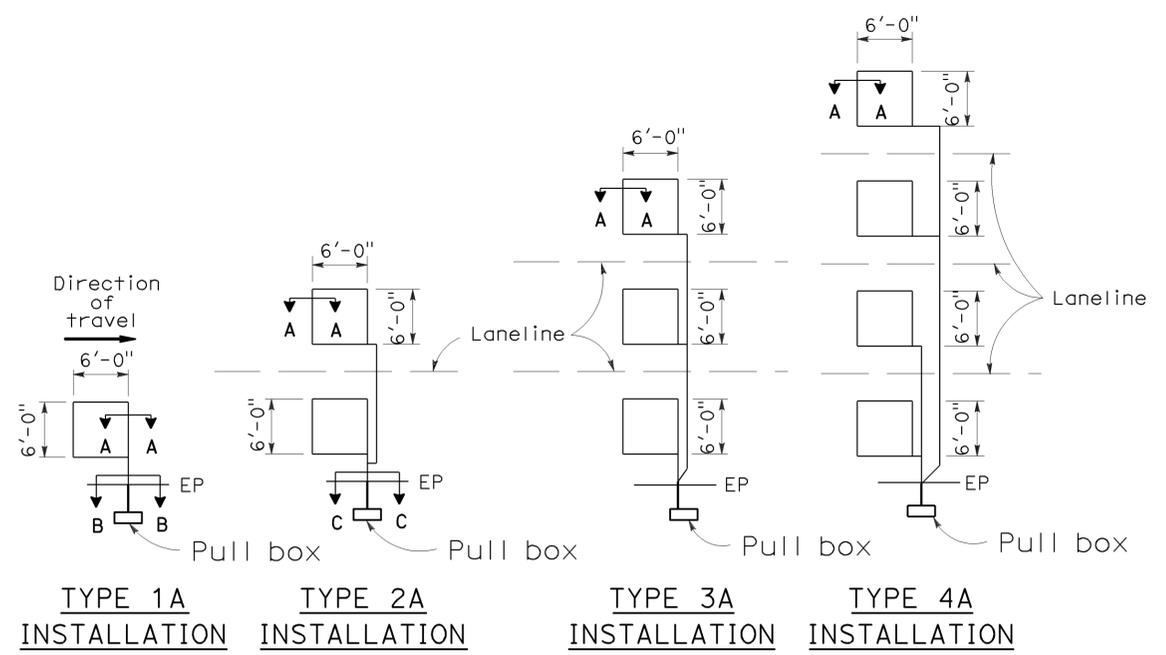
October 5, 2007
 PLANS APPROVAL DATE

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To accompany plans dated March 10, 2011

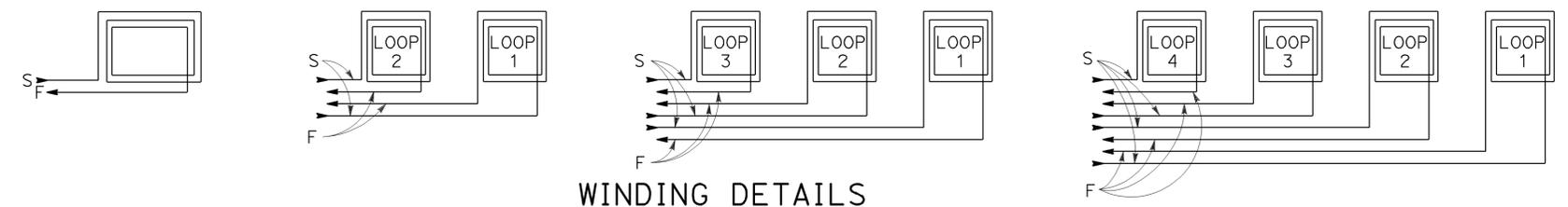
LOOP INSTALLATION PROCEDURE

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



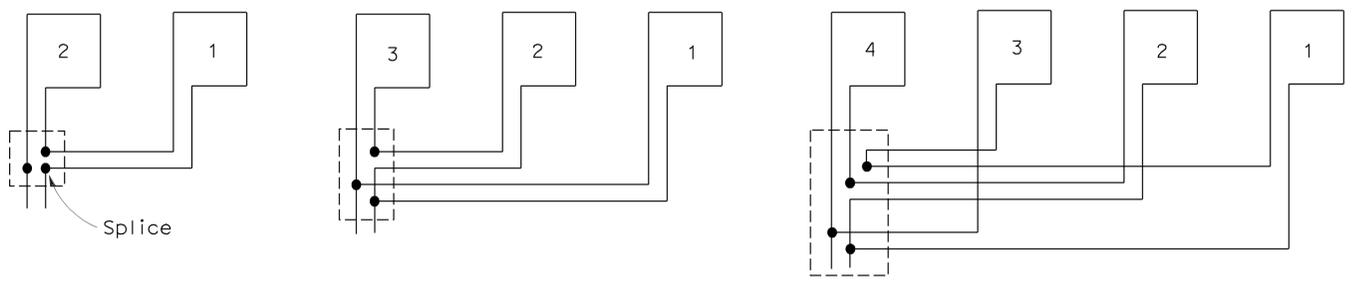
TYPE 1A INSTALLATION TYPE 2A INSTALLATION TYPE 3A INSTALLATION TYPE 4A INSTALLATION
 SAWCUT DETAILS

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



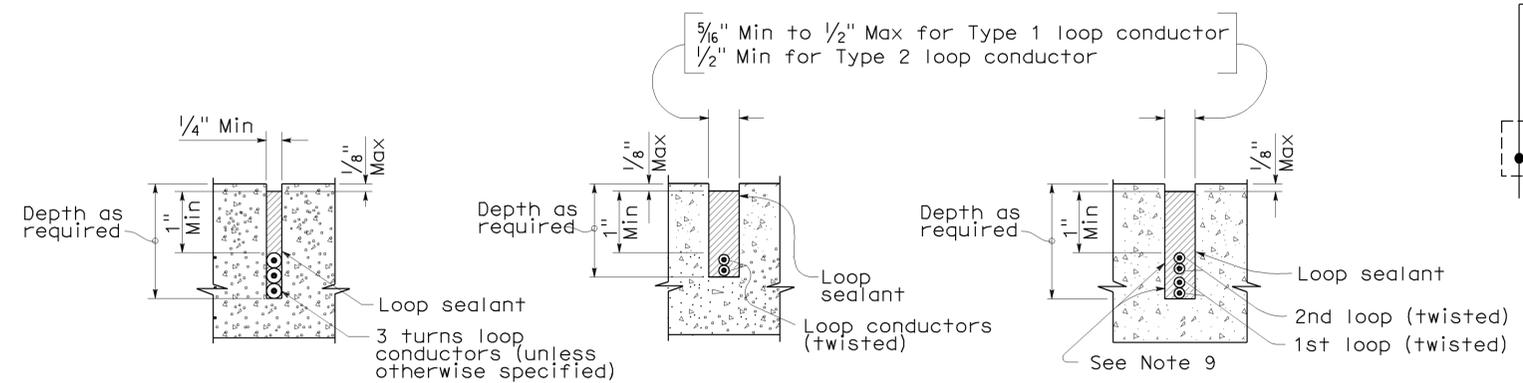
WINDING DETAILS

See Notes 6 and 7



TYPICAL LOOP CONNECTIONS

(Dashed lines represent the pull box)



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

ELECTRICAL SYSTEMS (DETECTORS)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

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

REVISED STANDARD PLAN RSP ES-5A

2006 REVISED STANDARD PLAN RSP ES-5A