

INDEX OF PLANS

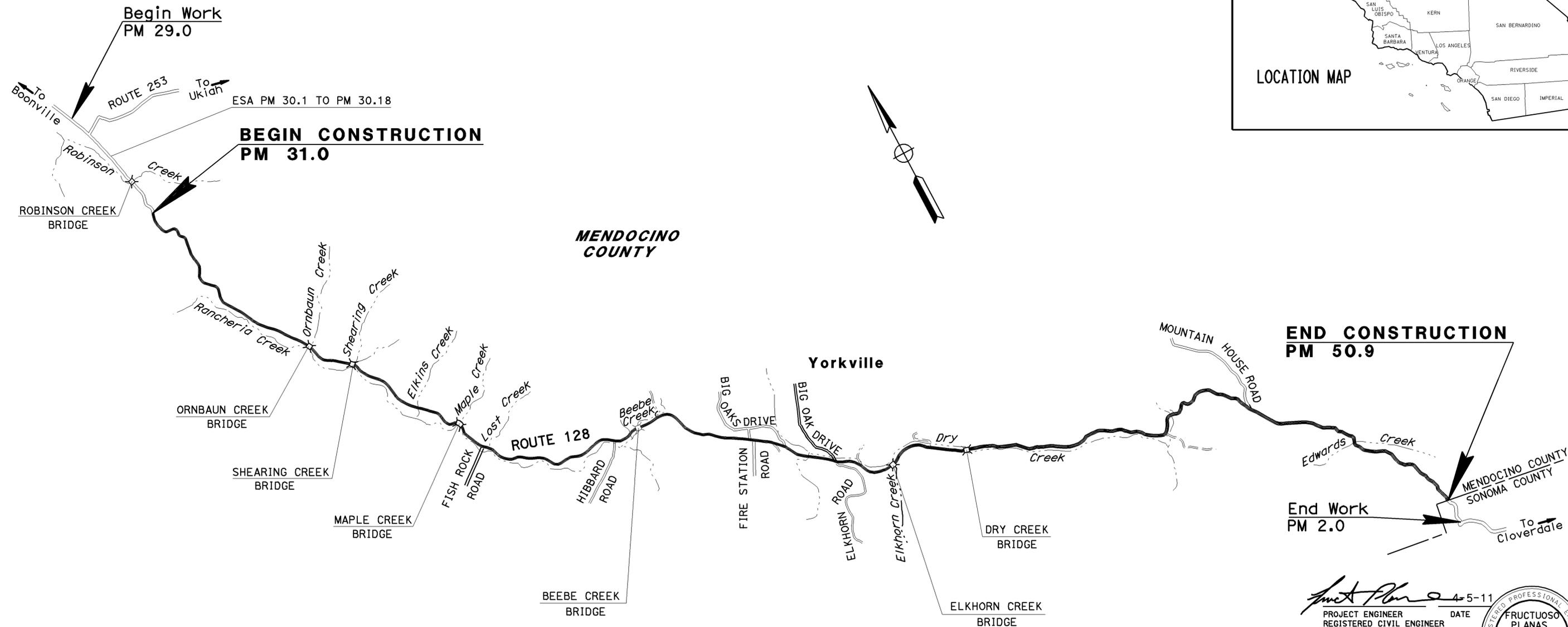
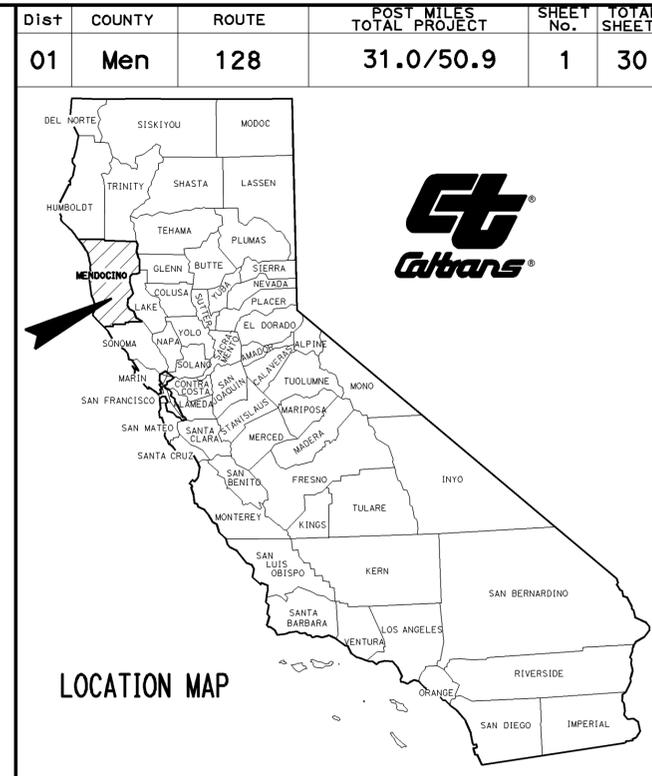
SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	TYPICAL CROSS SECTIONS
4-11	CONSTRUCTION DETAILS
12	CONSTRUCTION AREA SIGNS
13-17	SUMMARY OF QUANTITIES
18-30	REVISED AND NEW STANDARD PLANS

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

STATE OF CALIFORNIA STP-P128(049)E
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN MENDOCINO COUNTY NEAR YORKVILLE
FROM 0.3 MILE EAST OF ROBINSON CREEK BRIDGE
TO THE SONOMA COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006



PROJECT MANAGER
STEVEN BLAIR
 DESIGN ENGINEER
KEN KEATON

Ken Keaton 4-5-11
 PROJECT ENGINEER DATE
 REGISTERED CIVIL ENGINEER
MAY 2, 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

CONTRACT No.	01-3637U4
PROJECT ID	0100021275

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	2	30

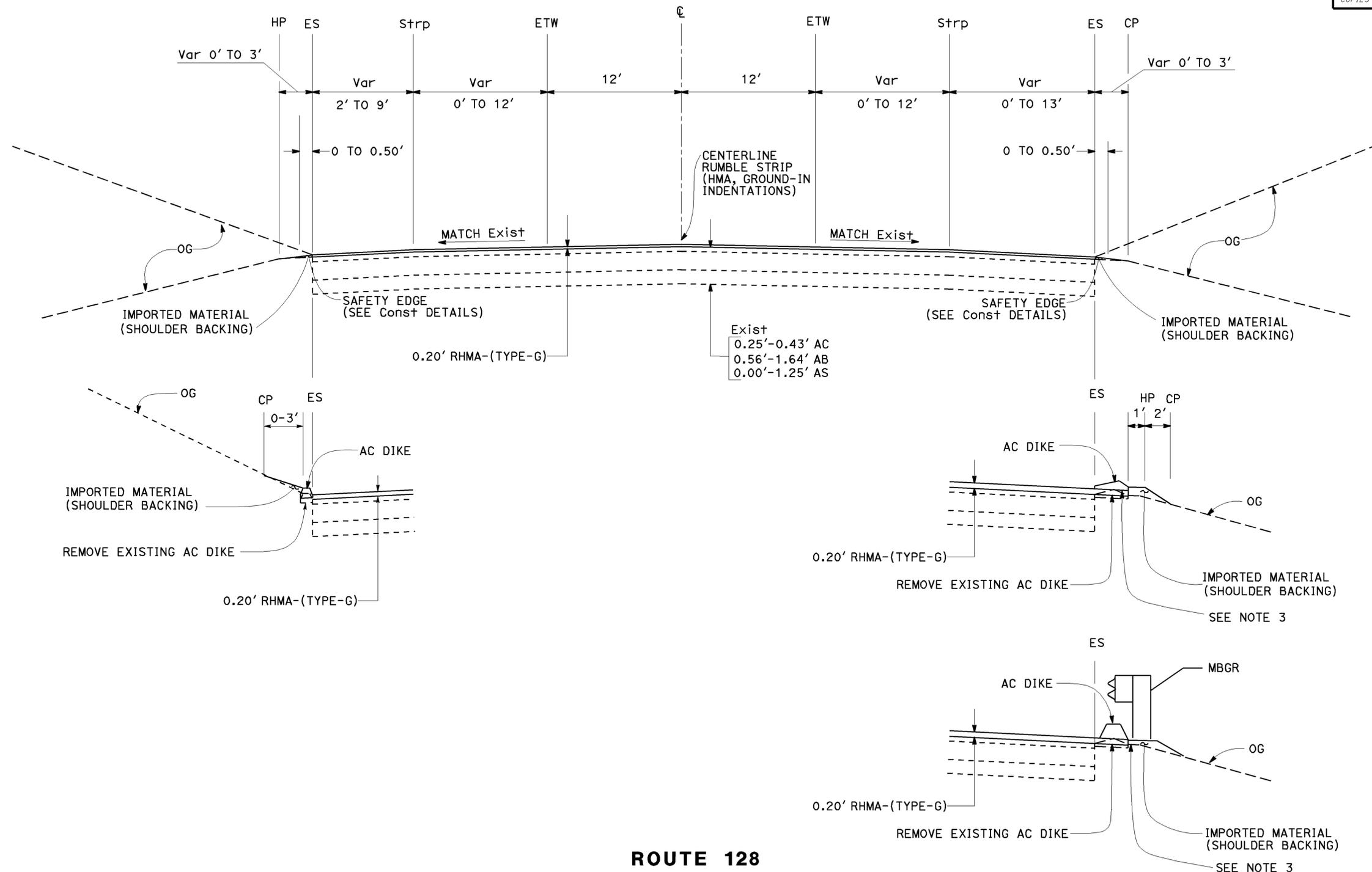
<i>Fructuoso A. Planas</i> REGISTERED CIVIL ENGINEER DATE 4-5-11	
5-2-11	PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER FRUCTUOSO A. PLANAS No. C 75490 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.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. AC DIKE, MBGR AND REPLACE AC LIMITS ARE SPECIFIED IN QUANTITY TABLES.
3. FINAL LIFT OF RHMA (TYPE G) TO EXTEND UNDER DIKE, SEE STANDARD PLAN A87B.
4. THE SAFETY EDGE WILL BE CONSTRUCTED WITH EACH LIFT.
5. THE SAFETY EDGE WILL NOT BE USED AT LOCATIONS WHERE AC DIKE WILL BE PLACED.



ROUTE 128
 PM 31.0 TO PM 35.0
 PM 35.2 TO PM 41.3
 PM 41.5 TO PM 50.9

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: KEN KEATON

DESIGNED BY: F. PLANAS

CHECKED BY: G.FOK

REVISOR: F. PLANAS

DATE: 4-5-11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	3	30

<i>Fructuoso A. Planas</i>	4-5-11
REGISTERED CIVIL ENGINEER	DATE
5-2-11	
PLANS APPROVAL DATE	

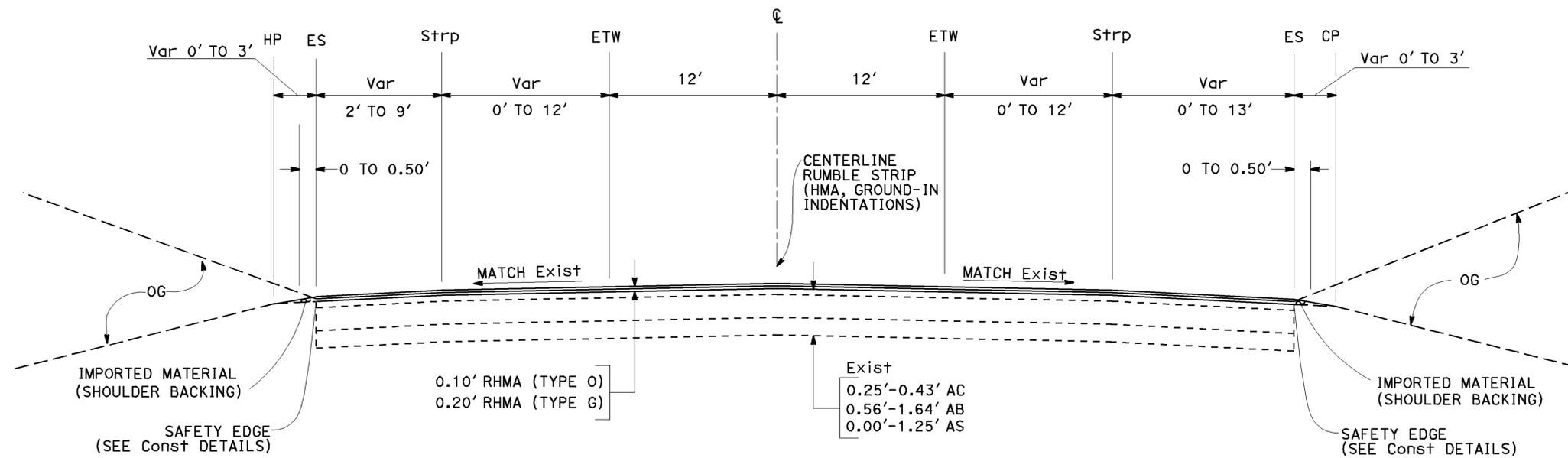
REGISTERED PROFESSIONAL ENGINEER
FRUCTUOSO A. PLANAS
No. C 75490
Exp. 6/30/12
CIVIL

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

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. AC DIKE AND REPLACE AC LIMITS ARE SPECIFIED IN QUANTITY TABLES.
3. THE SAFETY EDGE WILL BE CONSTRUCTED WITH EACH LIFT.
4. THE SAFETY EDGE WILL NOT BE USED AT LOCATIONS WHERE AC DIKE WILL BE PLACED.

REVISOR: F. PLANAS, G. FOK
 CALCULATED/DESIGNED BY: KEN KEATON
 CHECKED BY:
 FUNCTIONAL SUPERVISOR: KEN KEATON
 DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING



ROUTE 128
 PM 41.3 TO PM 41.5

TYPICAL CROSS SECTIONS

NO SCALE

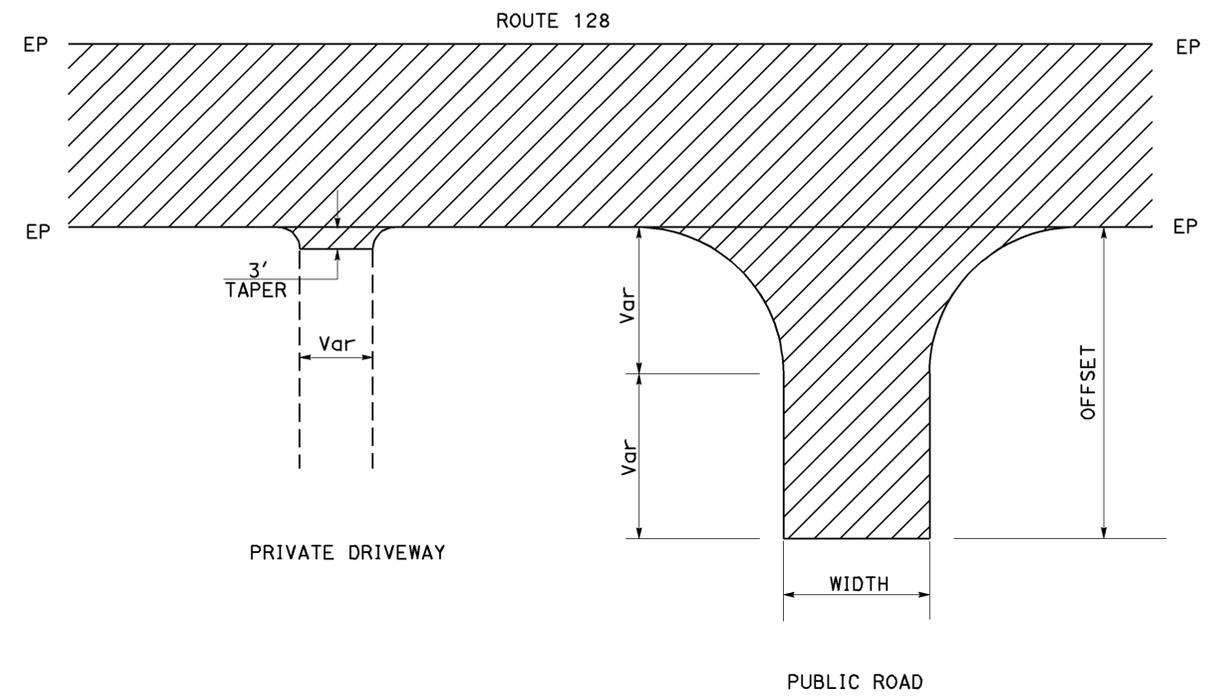
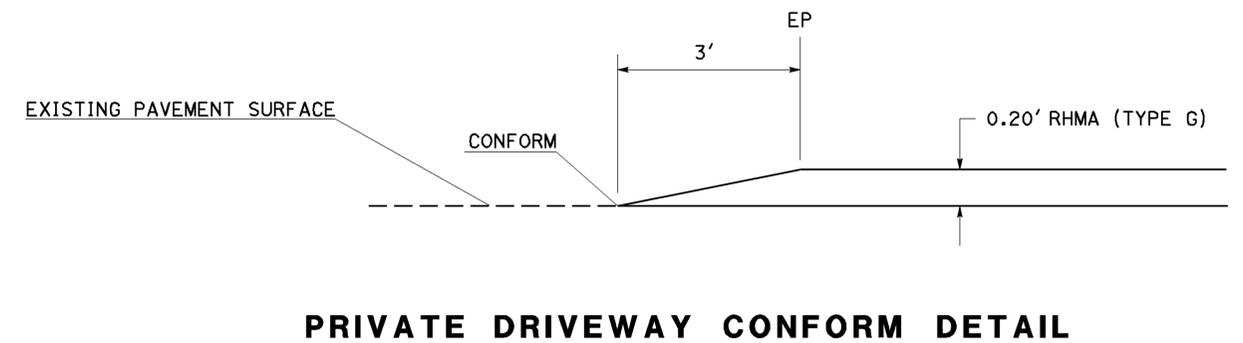
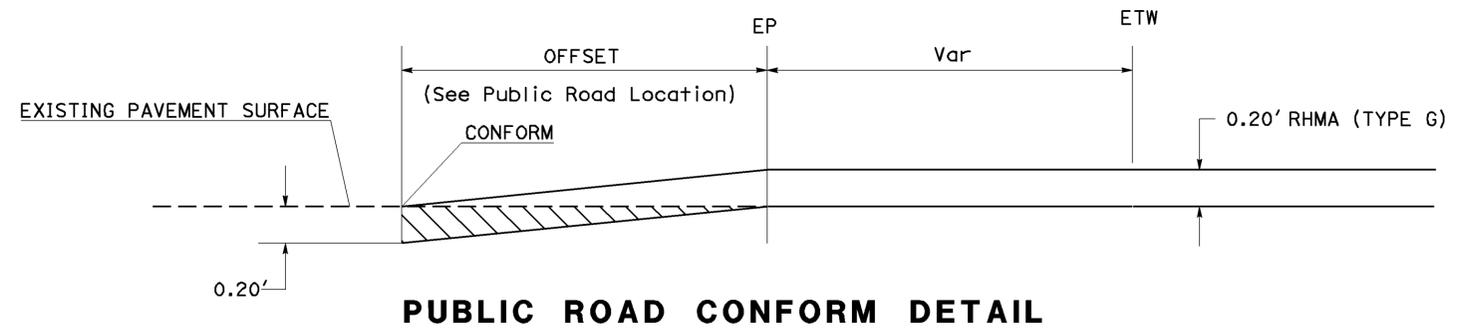
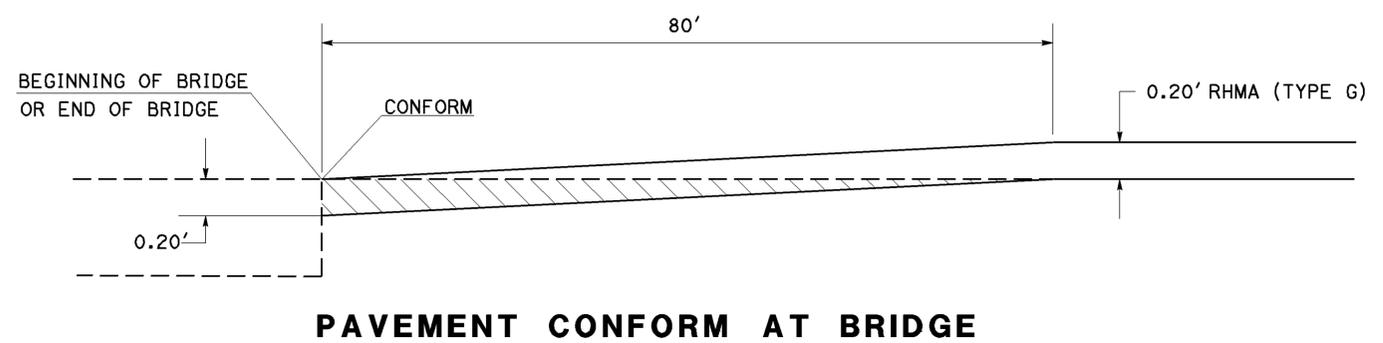
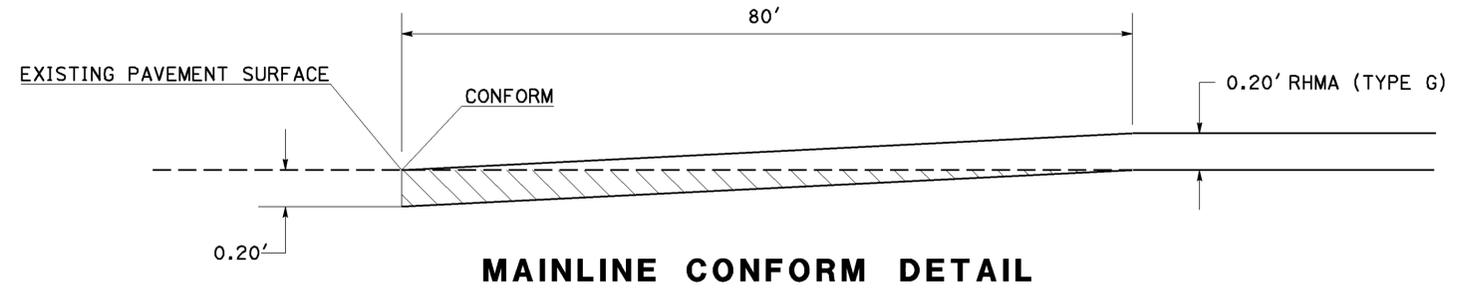
X-2



NOTES:
 1. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.

LEGEND:

-  COLD PLANE AC
-  LIMIT OF PAVING
-  REPLACE AC SURFACING



BRIDGE LOCATIONS

PM	NAME
32.02	CATTLE CROSSING
33.88	ORNBAUN CREEK
34.48	SHEARING CREEK
36.14	MAPLE CREEK
38.79	BEEBE CREEK
42.28	ELKHORN CREEK
43.45	DRY CREEK

PUBLIC ROAD LOCATIONS

PM	SIDE	NAME	OFFSET
36.57	R+	FISH ROCK ROAD	40
38.40	R+	HIBBARD ROAD	40
40.88	L+	BIG OAKS DRIVE	40
41.59	R+	ELKHORN ROAD	7
48.45	L+	MOUNTAIN HOUSE ROAD	30

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 FUNCTIONAL SUPERVISOR: KEN KEATON
 CALCULATED/DESIGNED BY: G.FOK
 CHECKED BY: F. PLANAS
 REVISIONS: 5-2-11
 REVISIONS: 4-5-11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	5	30

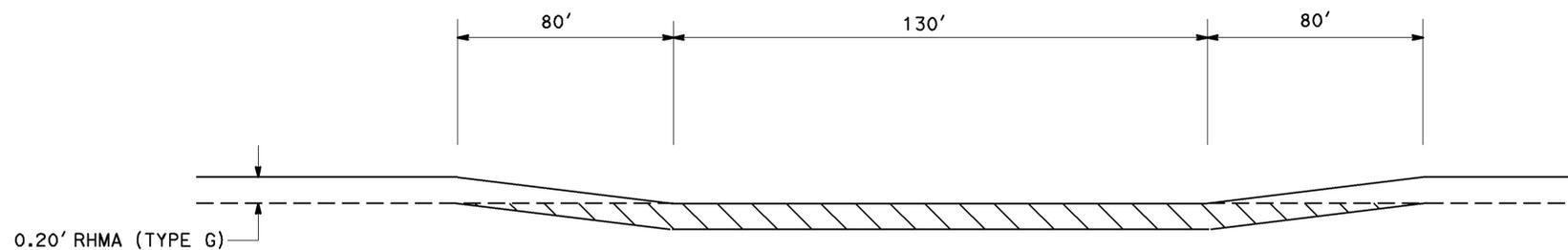
<i>Fructuoso A. Planas</i>	4-5-11
REGISTERED CIVIL ENGINEER	DATE
5-2-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
FRUCTUOSO A. PLANAS
No. C 75490
Exp. 6/30/12
CIVIL
STATE OF CALIFORNIA

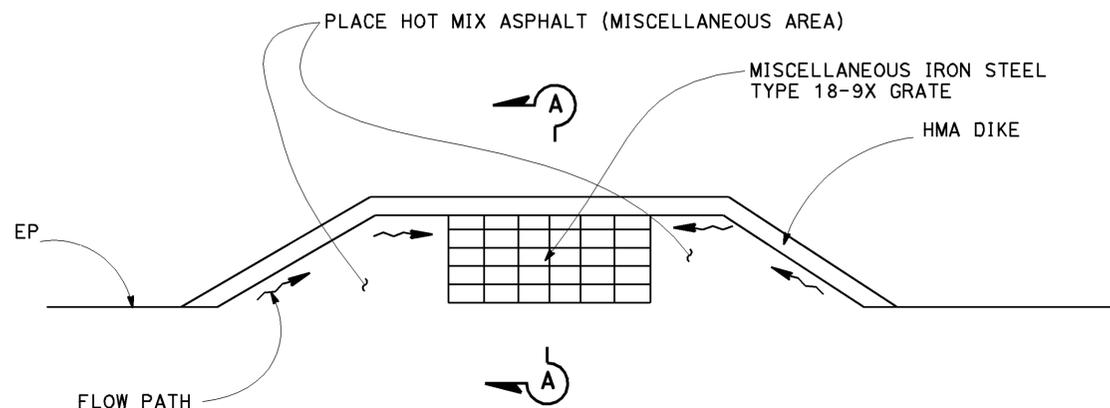
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

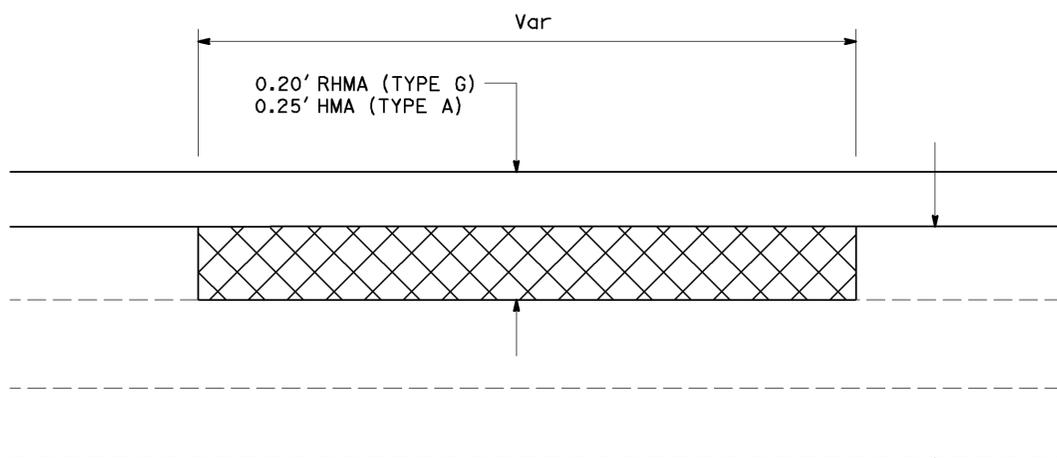
1. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.



COLD PLANE AC PAVEMENT
PM 39.90 TO 39.925

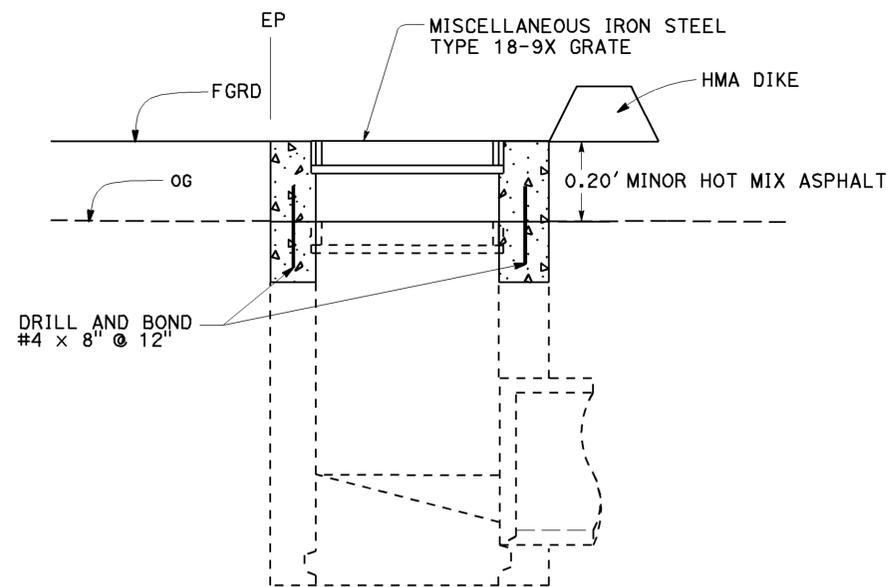


PLAN VIEW



REPLACE AC SURFACING

Exist
0.25'-0.43' AC
0.56'-1.64' AB
0.00'-1.25' AS



SECTION A - A

ADJUST DRAINAGE INLET

CONSTRUCTION DETAILS

NO SCALE

C - 2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
Caltrans
 REVISIONS: 11-16-10
 LAST REVISION: 11-16-10
 DATE PLOTTED: 18-MAY-2011
 TIME PLOTTED: 10:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	6	30

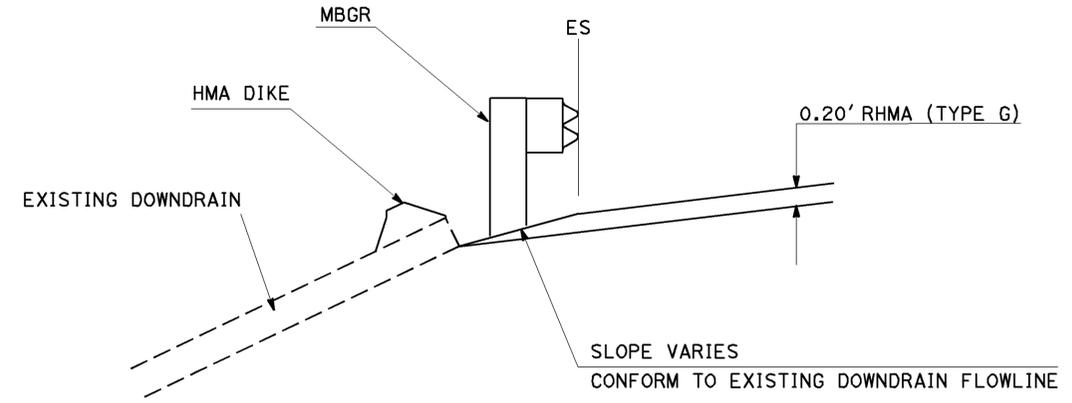
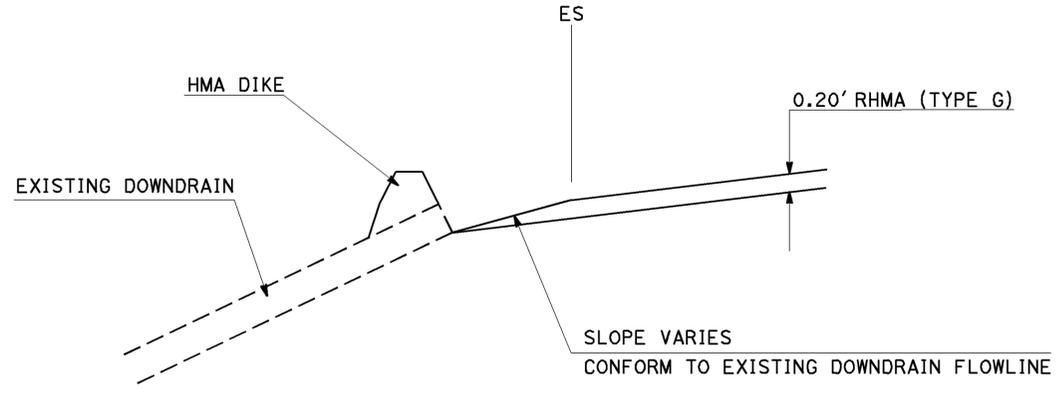
REGISTERED CIVIL ENGINEER	DATE	4-5-11
FRUCTUOSO A. PLANAS		
No. C 75490		
Exp. 6/30/12		
CIVIL		

5-2-11
PLANS APPROVAL DATE

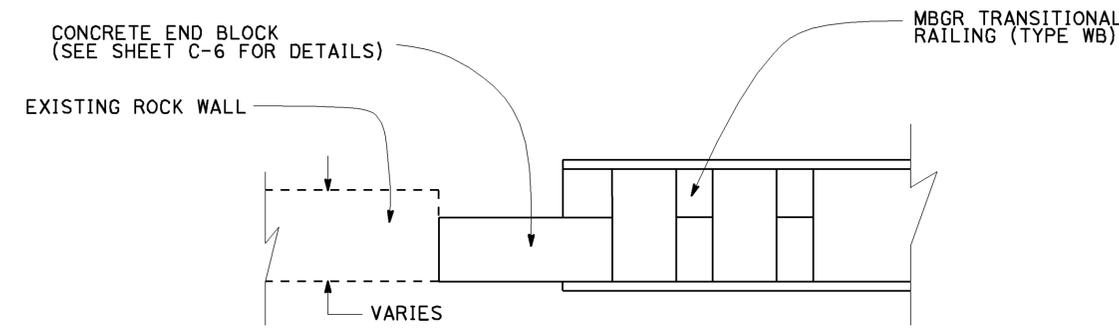
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.



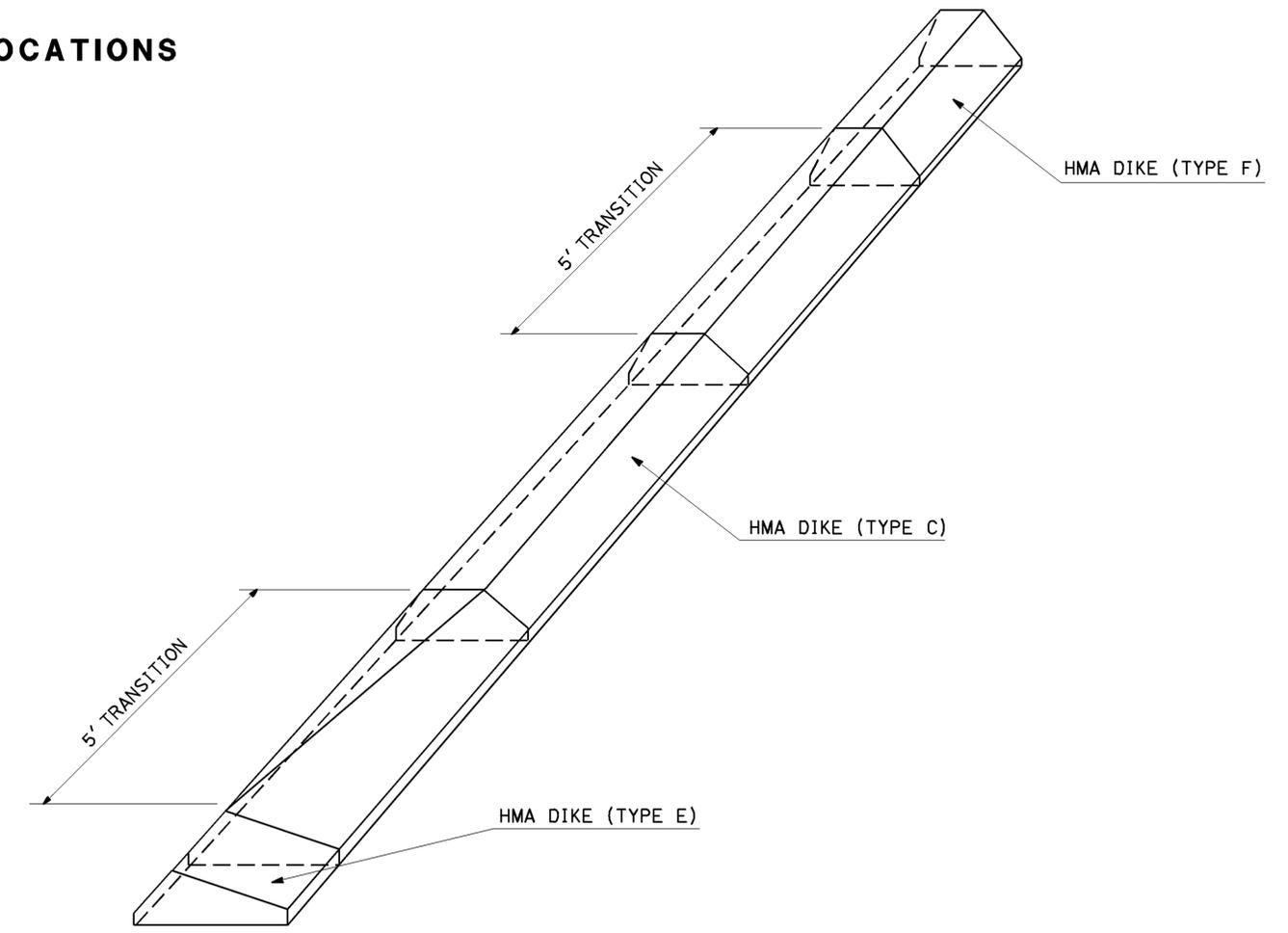
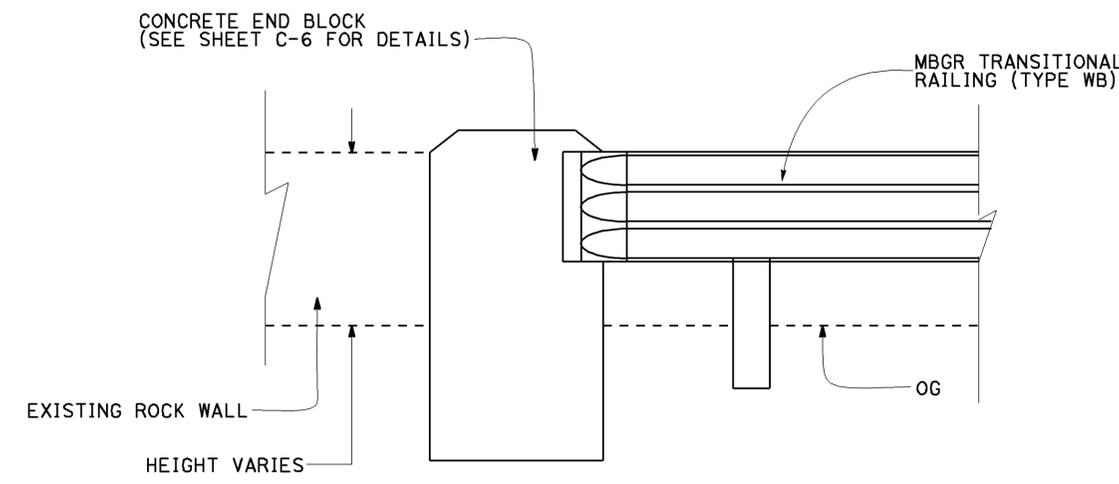
PAVING AT DOWNDRAIN LOCATIONS



ES _____

← DIRECTION OF TRAFFIC

PLAN



DIKE TRANSITIONS

ORBAUN CREEK BRIDGE (LEFT SIDE)
PM 33.88 TO 33.92

CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

FUNCTIONAL SUPERVISOR: KEN KEATON

DESIGNED BY: F. PLANAS

CHECKED BY: G. FOK

REVISOR: _____

DATE: _____

USERNAME => s134507
DGN FILE => 13637Uga003.dgn

RELATIVE BORDER SCALE IS IN INCHES



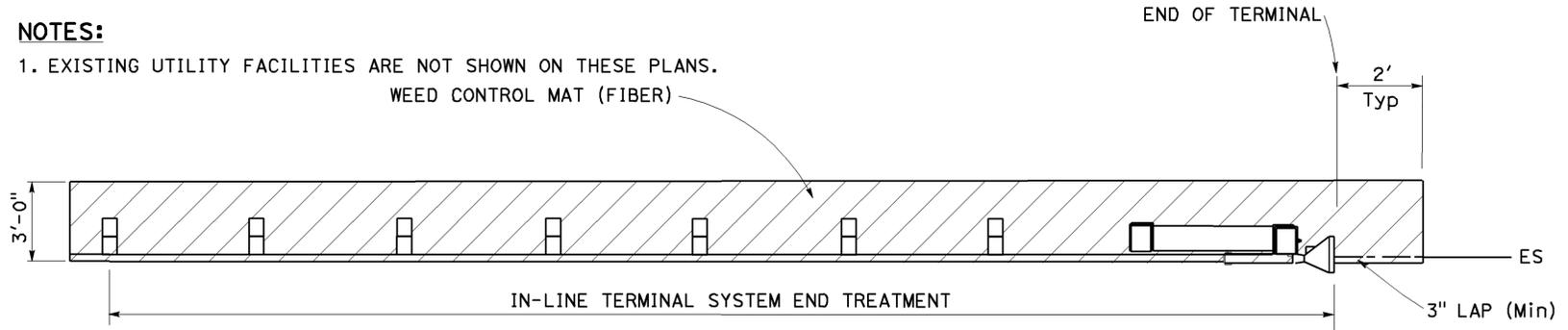
UNIT 0323

PROJECT NUMBER & PHASE

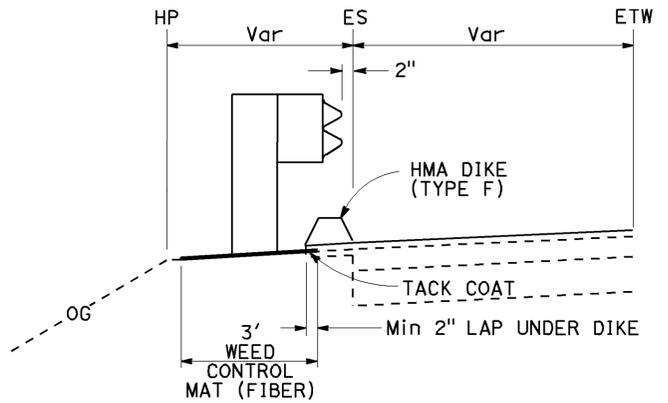
01000202681

DATE PLOTTED => 18-MAY-2011
TIME PLOTTED => 10:29

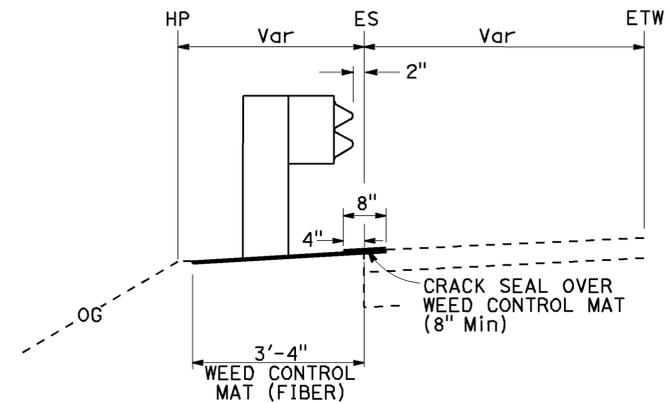
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	7	30
REGISTERED CIVIL ENGINEER DATE 4-5-11 <i>Fructuoso A. Planas</i>				REGISTERED PROFESSIONAL ENGINEER FRUCTUOSO A. PLANAS No. C 75490 Exp. 6/30/12 CIVIL STATE OF CALIFORNIA	
5-2-11				PLANS APPROVAL DATE	
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					



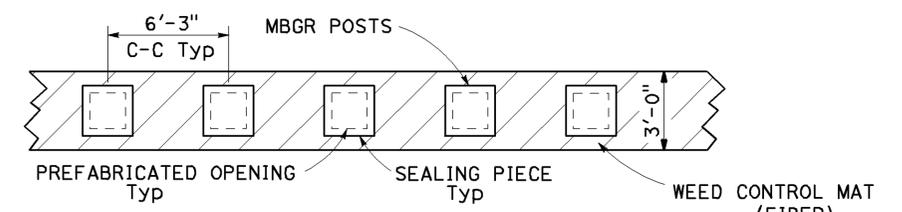
**WEED CONTROL MAT (FIBER)
UNDER ALTERNATIVE IN-LINE TERMINAL SYSTEM**



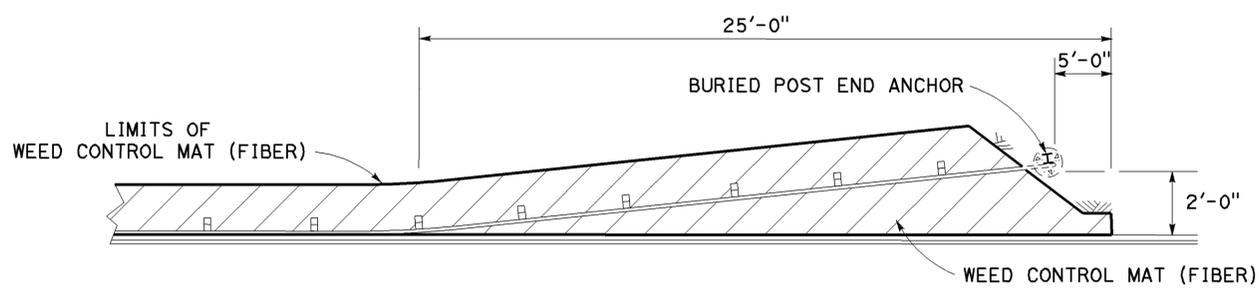
**WEED CONTROL MAT (FIBER)
WITH NEW HMA DIKE (TYPE F)**



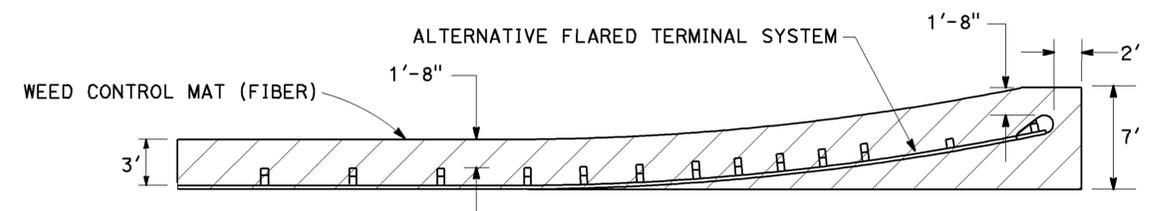
**WEED CONTROL MAT (FIBER)
WITHOUT HMA DIKE**



WEED CONTROL MAT (FIBER) UNDER MBGR
POST SPACING & OTHER DIMENSIONS TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR.



WEED CONTROL MAT (FIBER) AT BURIED POST END ANCHOR



**WEED CONTROL MAT (FIBER)
UNDER ALTERNATIVE FLARED TERMINAL SYSTEM**

CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
Caltrans
 REVISIONS: 11-16-10 DATE PLOTTED => 18-MAY-2011 TIME PLOTTED => 10:23

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	8	30

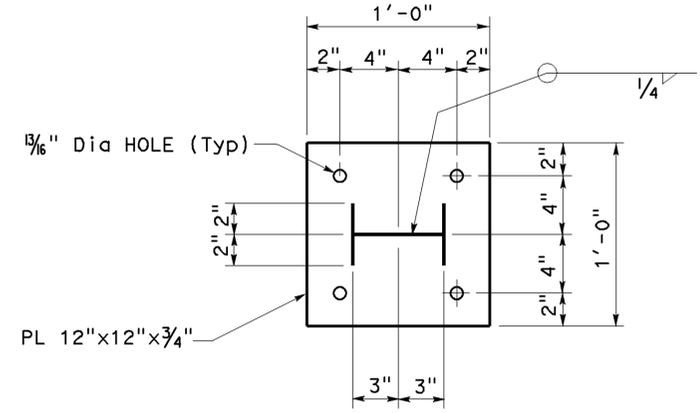
<i>Fructuoso A. Planas</i>	4-5-11
REGISTERED CIVIL ENGINEER	DATE
5-2-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
FRUCTUOSO A. PLANAS
No. C 75490
Exp. 6/30/12
CIVIL
STATE OF CALIFORNIA

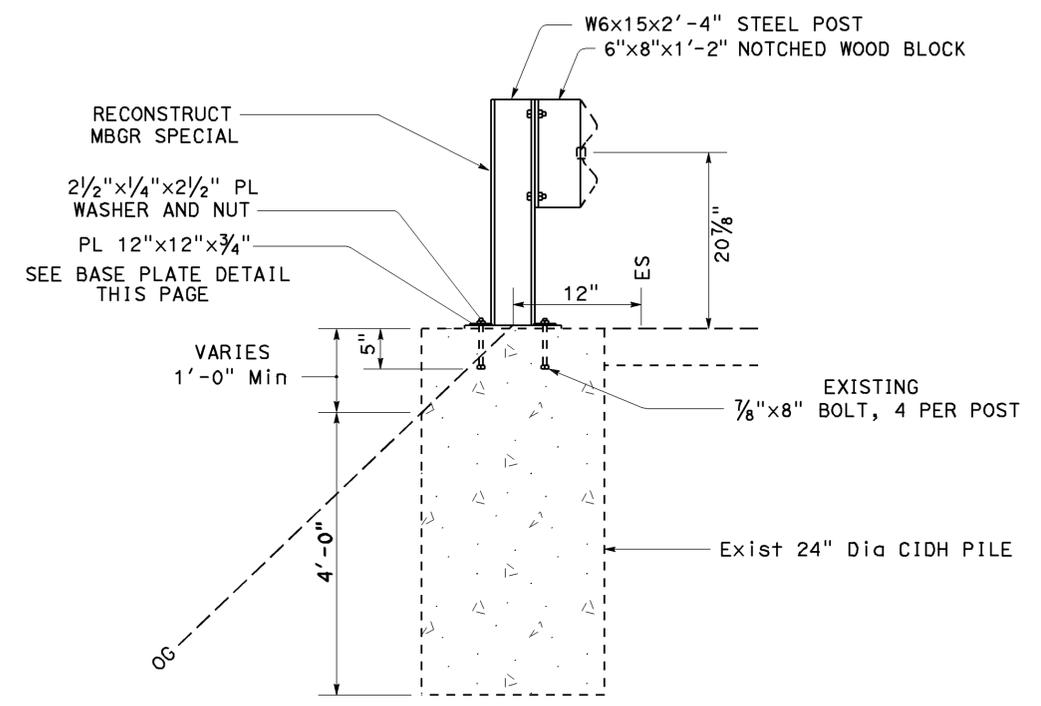
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- FOR MBGR DETAILS NOT SHOWN SEE STANDARD PLANS A77A2 AND A77C2.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO ORDERING OR FABRICATING ANY MATERIAL.
- ALL POST SPACING 6.25' C-C.

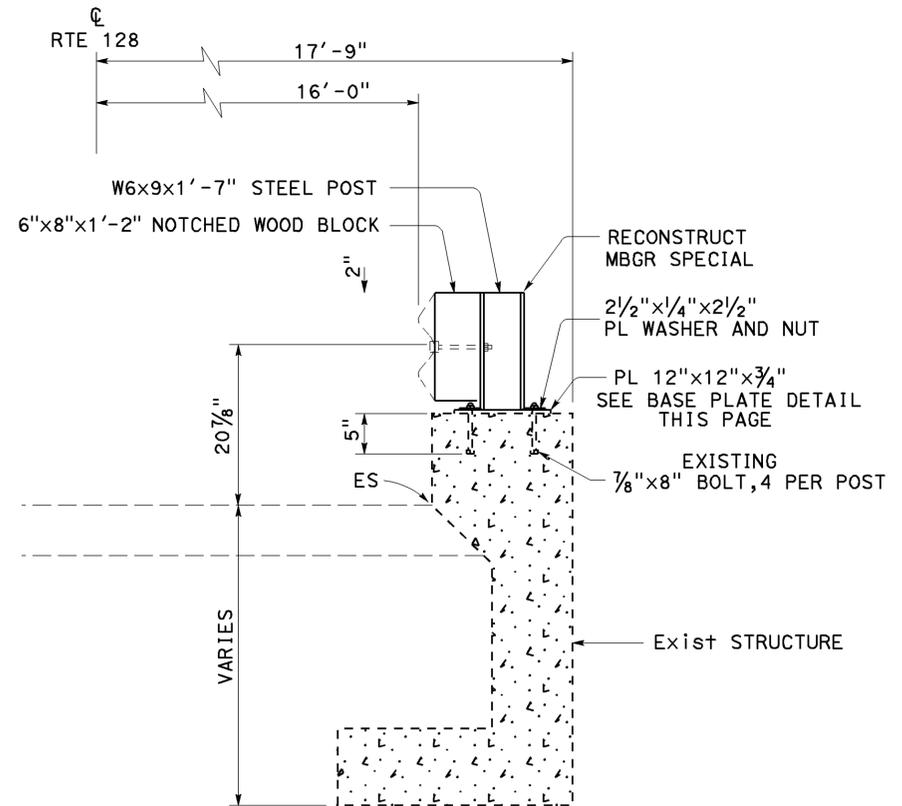


BASE PLATE DETAIL



RECONSTRUCT MBGR (BURGER CATTLEPASS)

Men-128-PM 32.02/32.06-WB-12 STEEL POSTS
Men-128-PM 32.02/32.06-EB-13 STEEL POSTS



RECONSTRUCT MBGR (BURGER CATTLEPASS)

Men-128-32.02/32.06-WB-5 STEEL POSTS
Men-128-32.02/32.06-EB-7 STEEL POSTS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
F. PLANAS
G. FOK
KEN KEATON

CONSTRUCTION DETAILS

NO SCALE **C-5**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	9	30

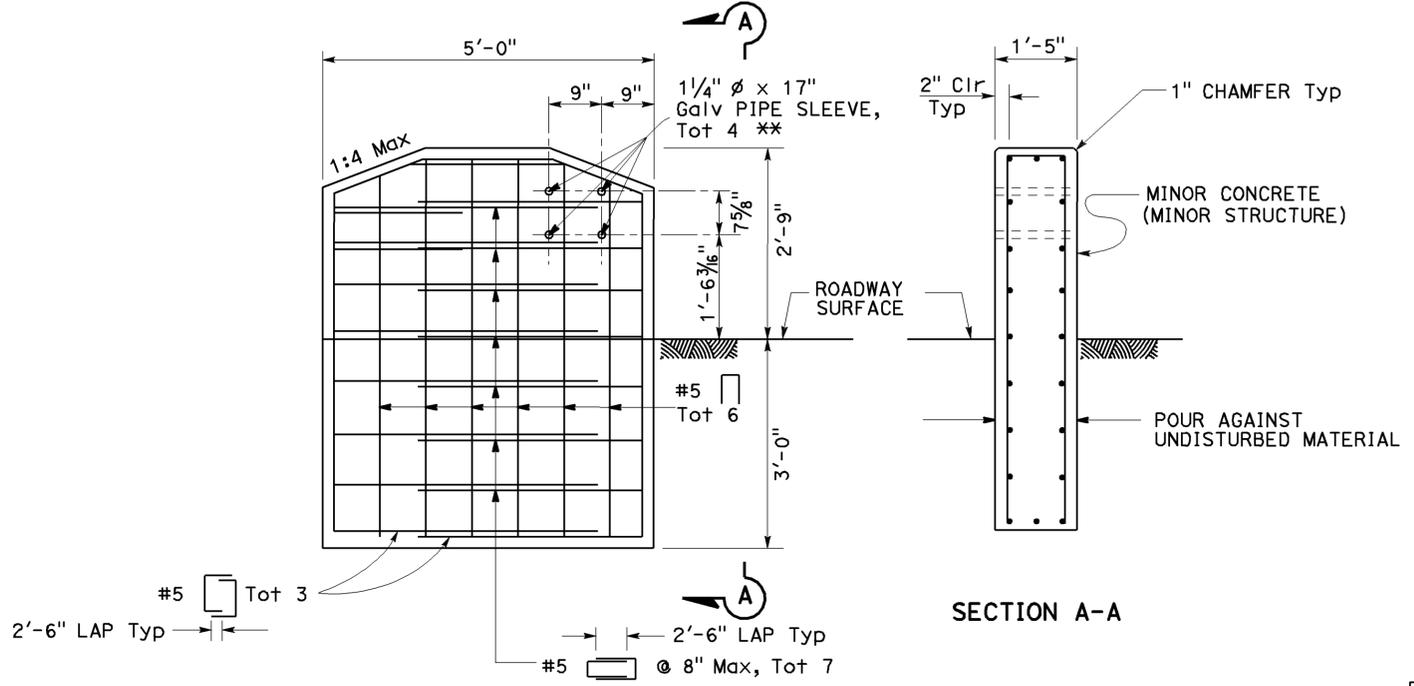
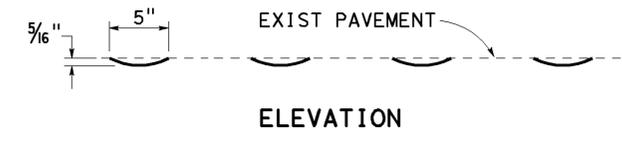
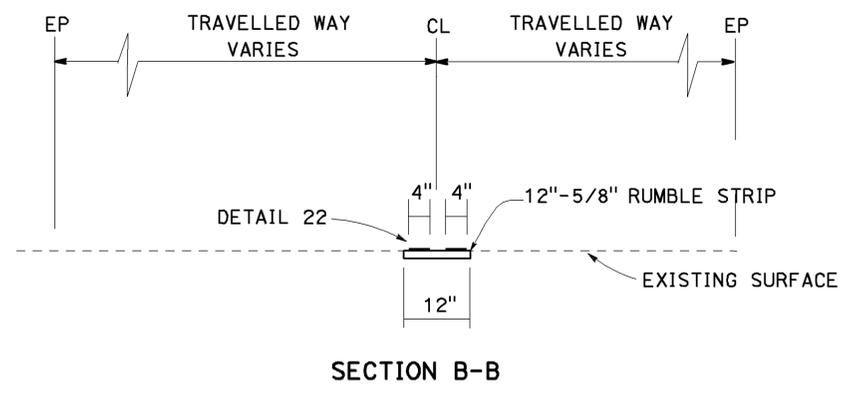
4-5-11
 REGISTERED CIVIL ENGINEER DATE
 5-2-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 FRUCTUOSO
 A. PLANAS
 No. C 75490
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA

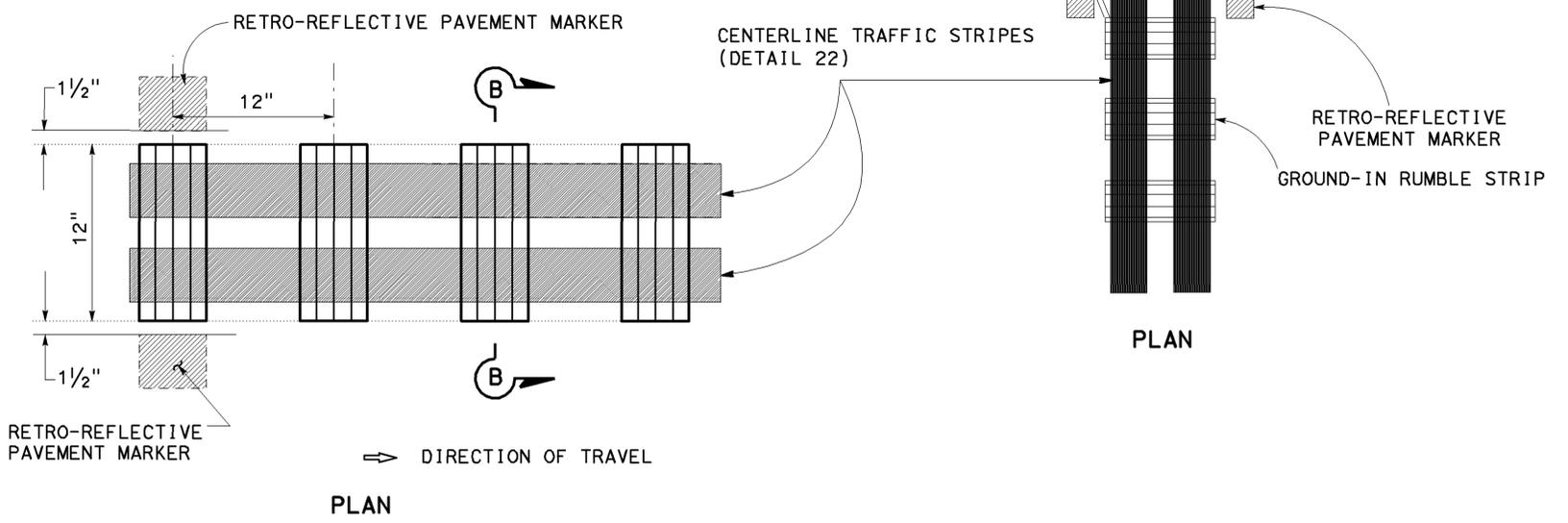
THE STATE OF CALIFORNIA OR ITS OFFICERS
 OR AGENTS SHALL NOT BE RESPONSIBLE FOR
 THE ACCURACY OR COMPLETENESS OF SCANNED
 COPIES OF THIS PLAN SHEET.

NOTES:

- EXISTING UTILITY FACILITIES ARE NOT SHOWN ON THESE PLANS.
- EXISTING BARRIER DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD BEFORE FABRICATING ANY END CONNECTION TO CONFORM WITH EXISTING CONDITIONS.
- RUMBLE STRIP, AS SHOWN ON THIS PLAN SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS, BRIDGE APPROACH SLABS, RAMPS, PUBLIC AND PRIVATE ROAD APPROACHES AND MINOR DRIVEWAYS.
- FOR PAVEMENT STRIPING DETAILS NOT SHOWN SEE STANDARD PLANS



** CONNECT TO TRANSITION RAILING (TYPE WB) MODIFIED
CONCRETE END BLOCK DETAIL



CONSTRUCTION DETAILS
 NO SCALE
C-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 F. PLANAS
 G.FOK
 KEN KEATON
 CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	10	30

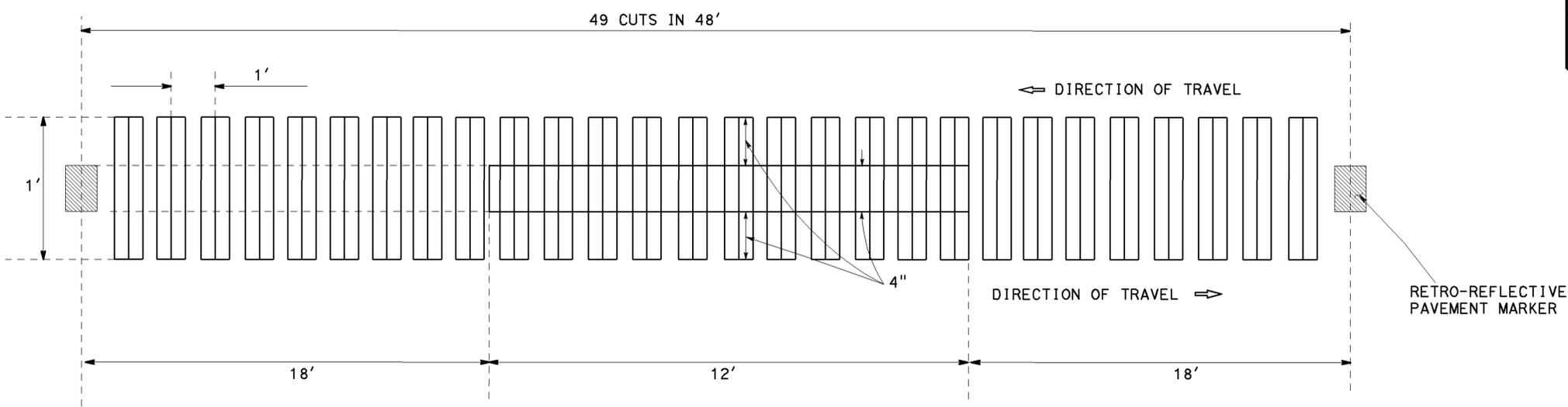
<i>Fructuoso A. Planas</i>	4-5-11
REGISTERED CIVIL ENGINEER	DATE
5-2-11	
PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER
FRUCTUOSO A. PLANAS
No. C 75490
Exp. 6/30/12
CIVIL
STATE OF CALIFORNIA

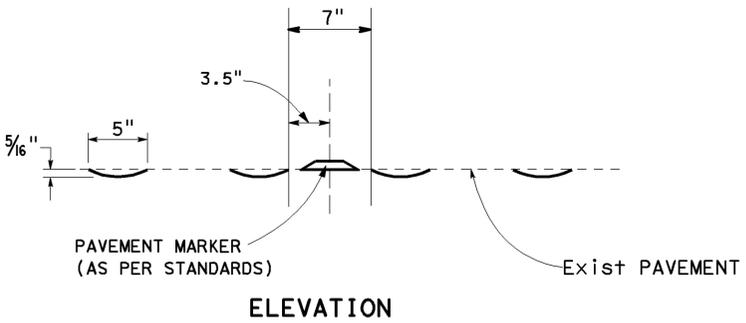
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

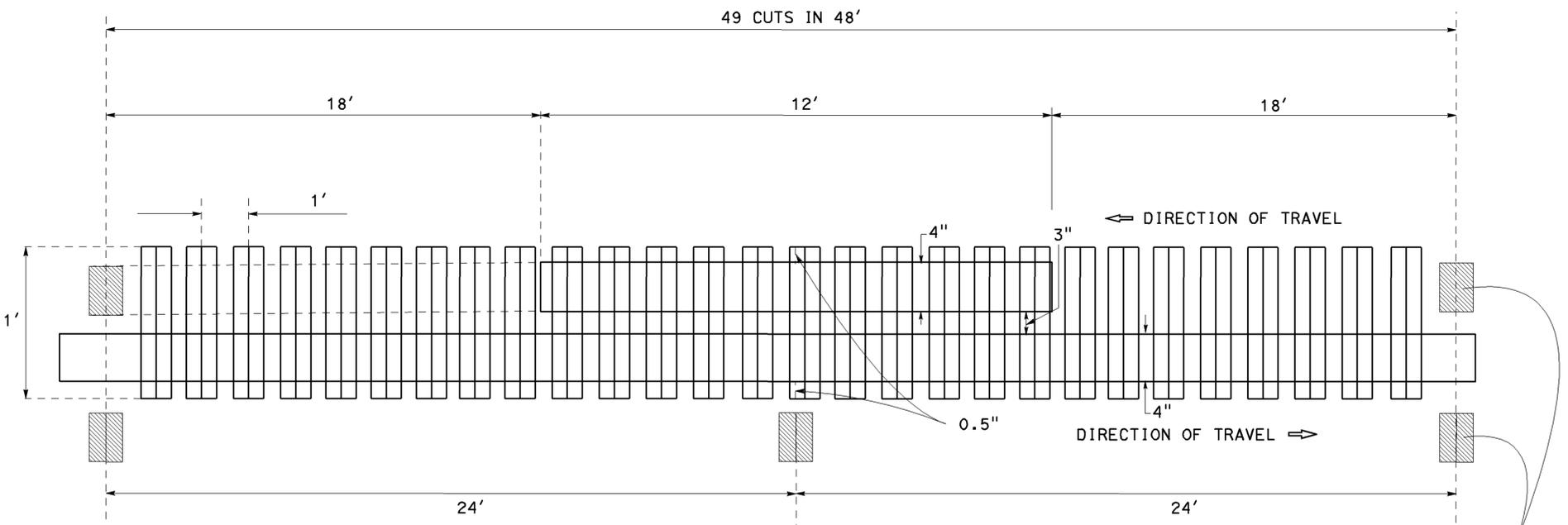
- RUMBLE STRIP, AS SHOWN ON THIS PLAN SHALL NOT BE CONSTRUCTED ON BRIDGE DECKS, BRIDGE APPROACH SLABS, RAMPS, PUBLIC AND PRIVATE ROAD APPROACHES AND MINOR DRIVEWAYS.
- FOR PAVEMENT STRIPING DETAILS NOT SHOWN SEE STANDARD PLANS



PLAN



ELEVATION



**PLAN
DETAIL 19**

CENTERLINE RUMBLE STRIP (GROUND-IN INDENTATIONS)

GROUND-IN RUMBLE STRIP TYPICALS

**CONSTRUCTION DETAILS
GROUND-IN RUMBLE STRIP TYPICALS
NO SCALE**

C-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

REVISOR BY DATE

F. PLANAS G.FOK

CALCULATED/DESIGNED BY CHECKED BY

FUNCTIONAL SUPERVISOR KEN KEATON

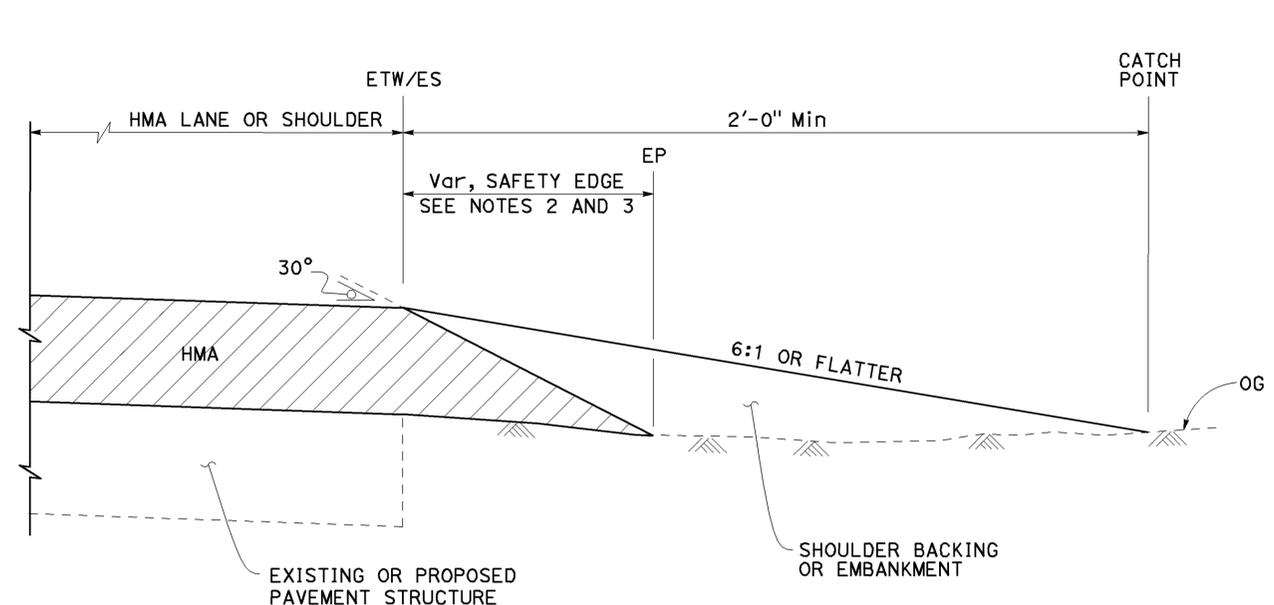
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	11	30

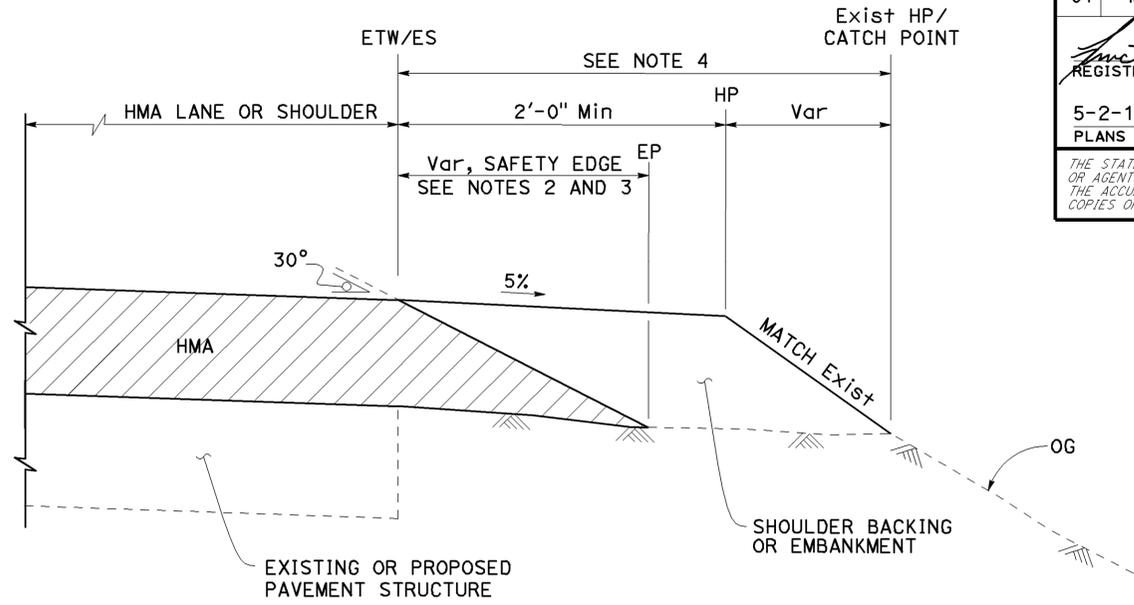
4-5-11
 REGISTERED CIVIL ENGINEER DATE
 5-2-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 FRUCTUOSO
 A. PLANAS
 No. C 75490
 Exp. 6/30/12
 CIVIL
 STATE OF CALIFORNIA

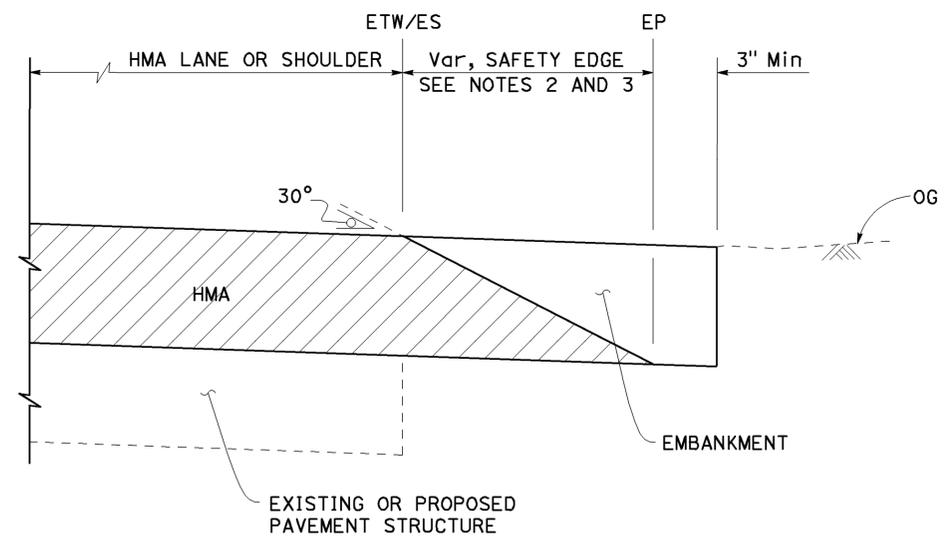
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



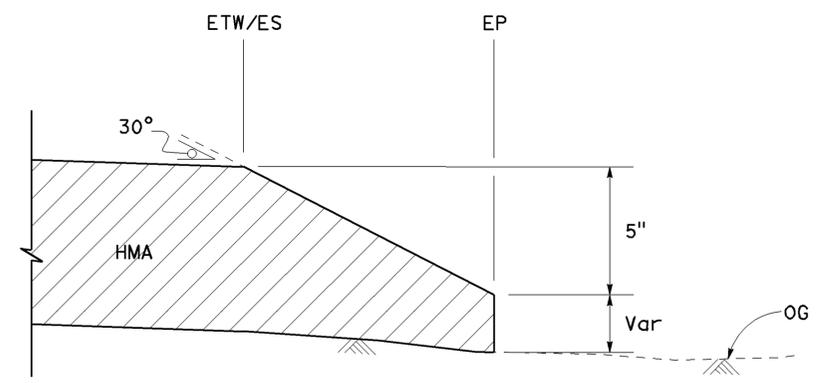
CASE A
EXISTING SIDE SLOPE IS 6:1 OR FLATTER
SECTION A-A



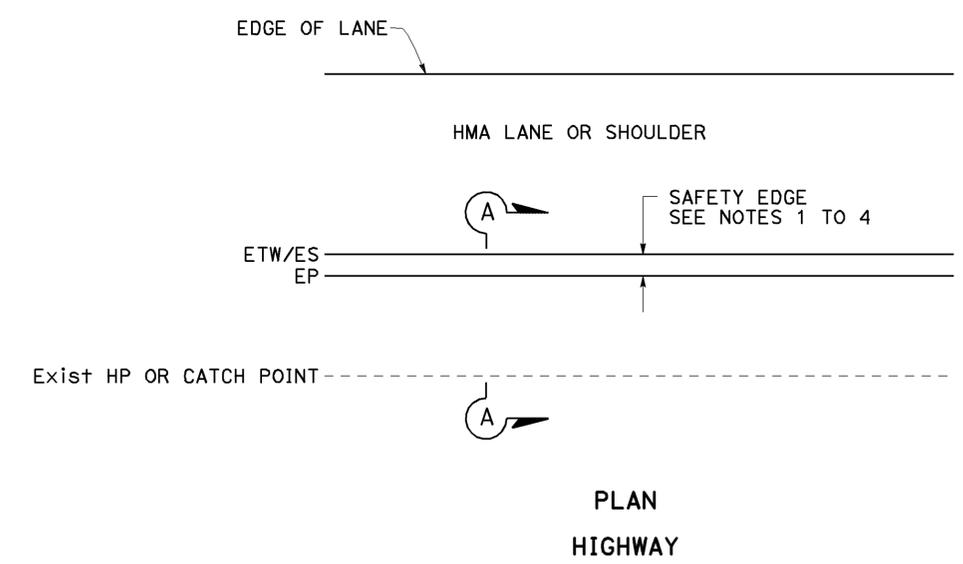
CASE B
EXISTING SIDE SLOPE IS STEEPER THAN 6:1
SECTION A-A



CASE C
WITH ROADWAY EXCAVATION OR COLD PLANE
SECTION A-A



DETAIL "A"
FOR USE WHEN THE HEIGHT OF SAFETY EDGE IS MORE THAN 5"



PLAN HIGHWAY

NOTES:

- REFER TO PROJECT PLANS FOR LOCATION OF SAFETY EDGE.
- DETAILS SHOWN FOR HEIGHT OF SAFETY EDGE IS 5" OR LESS. SEE DETAIL "A" WHEN THE HEIGHT OF SAFETY EDGE IS MORE THAN 5".
- DO NOT PLACE SAFETY EDGE WHEN CONCRETE BARRIER OR MBGR FACE IS LESS THAN 1' FROM THE ES.
- DO NOT PLACE SAFETY EDGE ADJACENT TO GUTTERS OR DITCHES WHERE DISTANCE FROM ETW/ES TO EXISTING HP IS 1' OR LESS.

CONSTRUCTION DETAILS
HOT MIX ASPHALT PAVING
(SAFETY EDGE WITH SHOULDER BACKING)

NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 F. PLANAS
 G.FOK
 KEN KEATON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	13	30

4-5-11
 REGISTERED CIVIL ENGINEER DATE
 5-2-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 FRUCTUOSO
 A. PLANAS
 No. C 75490
 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.

ROADWAY QUANTITIES

POST MILE		COLD PLANE AC PAVEMENT	RUBBERIZED HMA (GAP GRADED)	IMPORTED MATERIAL (SHOULDER BACKING)	RUBBERIZED HMA (OPEN GRADED)	CENTERLINE RUMBLE STRIP (HMAA, GROUND-IN INDENTATION)
PM	PM	SQYD	TON	TON	TON	STA
31	32	311	2219	684.25		52.8
32	33	757	2101	684.25		52.8
33	34	569	2456	684.25		52.8
34	35	757	1771	684.25		52.8
35	36		2131	684.25		52.8
36	37	653	2228	684.25		52.8
37	38		2570	684.25		52.8
38	39	719	2193	684.25		52.8
39	40	491	2193	684.25		52.8
40	41	75	2168	684.25		52.8
41	42	660	2344	684.25	292	52.8
42	43		2101	684.25		52.8
43	44	569	2378	684.25		52.8
44	45		2188	684.25		52.8
45	46		2117	684.25		52.8
46	47		2347	684.25		52.8
47	48		2121	684.25		52.8
48	49	77	2115	684.25		52.8
49	50.9	267	3993	684.25		100.3
TOTAL		5905	43,734	13,000.75	292	1050.7

DIKE QUANTITIES

APPROXIMATE PM		REMOVE AC DIKE	PLACE HMA DIKE				MINOR HOT MIX ASPHALT
FROM	TO		(TYPE A)	(TYPE C)	(TYPE E)	(TYPE F)	
LF	LF	LF	LF	LF	LF	TON	
31.51	31.60	472	472			13	
31.52	31.59	374			374	5	
31.60	31.67	376		25	271	8	
32.00	32.05	268		25	171	6	
32.98	33.00	147			147	4	
33.08	33.10	114	114			3	
33.29	33.37	397	397			11	
33.88	33.89	42				46	
33.90	33.91	50				50	
36.07	36.15	400		25	326	49	
36.75	36.78	157			157	4	
38.79	38.80	70			19	51	
39.40	39.44	217	217			6	
39.90	39.92	130	130			4	
43.83	44.00	96	96			3	
43.83	44.00	885	885			24	
43.82	44.00	963	963			26	
44.11	44.17	300	293		7	8	
46.52	46.54	110	110			3	
49.21	49.24	160				160	
50.71	50.73	134				134	
TOTAL FROM DRAINAGE QUANTITIES						2	
TOTAL		5862	3677	75	1098	1016	

TACK COAT

LOCATION	RHMA-(TYPE G)		RHMA-(TYPE O)	
	SQYD (N)	TON	SQYD (N)	TON
EB/WB 31.0/50.9	315,197	40.24		
BEGIN PROJECT PM 31.0	124	0.02		
PM 33.887 ORBAUN CREEK	184	0.04		
PM 36.146 MAPLE CREEK	249	0.03		
PM 36.573 FISH ROCK Rd	156	0.02		
PM 38.4 HIBBARD Rd	150	0.02		
PM 38.803 BEBEE CREEK	284	0.04		
PM 39.9 TO PM 39.925	491	0.06		
PM 40.88 BIG OAK Dr	75	0.01		
PM 41.3 TO PM 41.5			12,004	2.04
PM 41.59 ELKHORN Rd	16	0.01		
PM 43.44 DRY CREEK	284	0.04		
PM 48.45 MOUNTAIN HOUSE Rd	77	0.01		
END PROJECT PM 50.9	107	0.01		
SUBTOTAL		0.31		2.04
TOTAL			42.59	

(N) NOT A PAY ITEM, FOR INFORMATIONAL PURPOSE ONLY

CRACK TREATMENT

LOCATION	LNMI
EASTBOUND	19.9
WESTBOUND	19.9
TOTAL	39.8

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 F. PLANAS
 G.FOK
 KEN KEATON

LAST REVISION | DATE PLOTTED => 18-MAY-2011
 11-16-10 TIME PLOTTED => 10:23

REPLACE AC SURFACING

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	14	30

Fructuoso A. Planas 4-5-11
 REGISTERED CIVIL ENGINEER DATE
 5-2-11
 PLANS APPROVAL DATE

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

LOCATION		LENGTH	WIDTH	DEPTH	VOLUME
BEG PM	SIDE	LF			CY
31.26	R+	180	4	0.25	6.67
31.39	R+	105	12	0.25	11.67
31.43	R+	75	12	0.25	8.33
31.46	R+	46	12	0.25	5.11
31.68	R+	73	12	0.25	8.11
32.00	R+	120	12	0.25	13.33
32.24	R+	56	8	0.25	4.15
32.46	R+	138	12	0.25	15.33
32.44	L+	70	12	0.25	7.78
32.46	L+	148	6	0.25	8.22
32.50	R+	82	6	0.25	4.56
32.74	R+	46	4	0.25	1.70
32.73	L+	129	12	0.25	14.33
32.78	L+	76	2	0.25	1.41
32.78	R+	76	2	0.25	1.41
33.85	L+	83	12	0.25	9.22
34.25	R+	82	6	0.25	4.56
34.61	R+	46	4	0.25	1.70
34.90	R+	71	12	0.25	7.89
34.90	L+	128	12	0.25	14.22
34.97	R+	56	12	0.25	6.22
35.27	L+	100	4	0.25	3.70
35.27	R+	422	6	0.25	23.44
35.99	R+	50	8	0.25	3.70
36.15	L+	34	12	0.25	3.78
36.12	R+	148	12	0.25	16.44
36.16	L+	30	12	0.25	3.33
36.16	R+	107	12	0.25	11.89
36.71	R+	145	4	0.25	5.37
37.82	R+	76	4	0.25	2.81
39.82	L+	88	12	0.25	9.78
44.14	L+	47	3	0.25	1.31
44.14	R+	47	3	0.25	1.31
44.22	R+	112	12	0.25	12.44
44.30	R+	129	4	0.25	4.78
44.29	L+	214	4	0.25	7.93
44.40	R+	73	12	0.25	8.11
44.42	R+	155	4	0.25	5.74
44.49	R+	82	6	0.25	4.56
44.50	R+	54	4	0.25	2.00
44.52	L+	34	2	0.25	0.63
44.52	R+	34	2	0.25	0.63
44.58	R+	68	6	0.25	3.78
44.60	R+	73	4	0.25	2.70
44.62	R+	28	4	0.25	1.04
44.63	R+	51	4	0.25	1.89
SUBTOTAL					299.01

LOCATION		LENGTH	WIDTH	DEPTH	VOLUME
BEG PM	SIDE	LF			CY
44.64	R+	112	6	0.25	6.22
44.75	L+	47	3	0.25	1.31
44.75	R+	47	3	0.25	1.31
44.77	R+	46	6	0.25	2.56
44.82	R+	34	6	0.25	1.89
44.83	L+	150	2	0.25	2.78
44.83	R+	150	2	0.25	2.78
44.84	R+	90	6	0.25	5.00
44.88	R+	56	6	0.25	3.11
44.89	R+	110	6	0.25	6.11
44.90	L+	53	6	0.25	2.94
44.92	L+	48	2	0.25	0.89
44.92	R+	48	2	0.25	0.89
44.93	L+	46	2	0.25	0.85
44.93	R+	46	2	0.25	0.85
44.94	R+	70	6	0.25	3.89
44.99	L+	55	3	0.25	1.53
44.99	R+	55	3	0.25	1.53
45.00	R+	13	6	0.25	0.72
45.03	L+	38	4	0.25	1.41
45.11	R+	94	4	0.25	3.48
45.12	L+	81	6	0.25	1.56
45.12	R+	28	6	0.25	10.22
45.32	R+	184	4	0.25	5.37
45.49	R+	145	4	0.25	5.00
45.52	R+	135	12	0.25	28.00
45.55	R+	252	4	0.25	1.33
45.55	L+	36	4	0.25	1.33
45.70	R+	178	6	0.25	9.89
45.74	L+	150	4	0.25	5.56
45.74	R+	150	4	0.25	5.56
45.80	R+	23	4	0.25	0.85
45.87	R+	101	4	0.25	3.74
46.01	R+	83	12	0.25	9.22
46.05	R+	32	4	0.25	1.19
46.08	R+	31	6	0.25	1.72
46.26	R+	82	4	0.25	3.04
46.41	R+	64	6	0.25	3.56
46.42	L+	12	12	0.25	1.33
46.42	R+	64	4	0.25	2.37
46.45	R+	145	4	0.25	5.37
46.48	L+	20	12	0.25	2.22
46.55	R+	50	6	0.25	2.78
45.56	L+	58	4	0.25	2.15
45.56	R+	142	4	0.25	5.26
45.60	R+	96	4	0.25	3.56
46.67	R+	68	6	0.25	3.78
SUBTOTAL					178.01
SHEET TOTAL					477.02

**SUMMARY OF QUANTITIES
Q-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 F. PLANAS
 G. FOK
 KEN KEATON

LAST REVISION | DATE PLOTTED => 18-MAY-2011
 11-16-10 TIME PLOTTED => 10:23

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	15	30

 4-5-11
 REGISTERED CIVIL ENGINEER DATE

5-2-11
 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.



REPLACE AC SURFACING

LOCATION		LENGTH	WIDTH	DEPTH	VOLUME
BEG PM	SIDE	LF			CY
46.69	R+	120	12	0.25	13.33
46.69	L+	120	12	0.25	13.33
46.74	R+	220	12	0.25	24.44
46.802	R+	49	4	0.25	1.81
46.834	L+	40	6	0.25	2.22
46.859	R+	167	12	0.25	18.56
46.988	R+	51	4	0.25	1.89
47.004	R+	60	4	0.25	2.22
47.090	L+	101	12	0.25	11.22
47.138	R+	99	12	0.25	11.00
47.178	L+	82	6	0.25	4.56
47.209	R+	43	12	0.25	4.78
47.642	R+	52	4	0.25	4.78
47.730	R+	46	12	0.25	1.93
47.813	R+	57	6	0.25	5.11
47.830	R+	87	6	0.25	4.83
48.268	R+	260	4	0.25	9.63
48.406	R+	91	4	0.25	3.37
48.427	R+	34	4	0.25	1.26
48.924	R+	88	4	0.25	3.26
49.073	R+	91	6	0.25	5.06
49.327	R+	63	4	0.25	2.33
49.834	R+	40	4	0.25	1.48
49.847	L+	20	12	0.25	2.22
49.853	R+	43	4	0.25	1.59
49.861	L+	95	6	0.25	5.28
49.879	R+	104	4	0.25	3.85
49.891	L+	40	4	0.25	1.48
50.154	R+	60	4	0.25	2.22
50.260	R+	48	4	0.25	1.78
SUBTOTAL					170.82
SHEET TOTAL (FROM SHEET Q-2)					477.02
TOTAL					647.84

DRAINAGE QUANTITIES

PM	SIDE	ADJUST INLET	MISCELLANEOUS IRON AND STEEL GRATE TYPE 18-9X	PLACE HOT MIX ASPHALT MISCELLANEOUS AREA	MINOR HOT MIX ASPHALT
		EA	LB	SQYD	TON
32.02	R+	1	187	1	0.4
32.24	L+	1	187	1	0.4
36.07	L+	1	187	1	0.4
47.64	L+	1	187	1	0.4
49.04	L+	1	187	1	0.4
TOTAL		5	935	5	2 *

* FOR QUANTITY TOTAL SEE DIKE QUANTITIES

TEMPORARY CONSTRUCTION BMPS

ITEM/DESCRIPTION	UNIT	QUANTITY
TEMPORARY FIBER ROLL (6")	LF	400
TEMPORARY GRAVEL BAG BERM	LF	1160

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - DIVISION OF ENGINEERING
 F. PLANAS
 G. FOK
 CALCULATED/DESIGNED BY
 CHECKED BY
 FUNCTIONAL SUPERVISOR
 KEN KEATON
 REVISOR BY
 DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Men	128	31.0/50.9	17	30

4-5-11
 REGISTERED CIVIL ENGINEER DATE
 5-2-11
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 FRUCTUOSO A. PLANAS
 No. C 75490
 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.

REMOVE THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKINGS

LOCATION	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)			REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER		REMOVE YELLOW THERMOPLASTIC PAVEMENT MARKING (HAZARDOUS WASTE)	
	DETAIL 22 DOUBLE YELLOW	DETAIL 6 BROKEN YELLOW	DETAIL 19 SLD YEL BRK YEL	DETAIL 27B SOLID WHITE	TYPE D	TYPE H	STOP	LIMIT LINE
	LF	LF	LF	LF				
PM31.00 TO PM 38.80	80,996			82,638	3,375		44	30
PM38.80 TO PM 50.90	114,312	292	6,560	128,463	4,897	219	66	45
SUBTOTAL	195,308	292	6,560	211,101	8,272	219	110	75
TOTAL	202,160			211,101	8,491		185	

PAVEMENT DELINEATION QUANTITIES

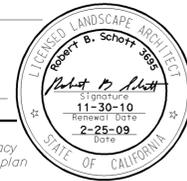
LOCATION	THERMOPLASTIC TRAFFIC STRIPE				PAVEMENT MARKER (RETROREFLECTIVE)		THERMOPLASTIC PAVEMENT MARKING		DELINEATOR (CLASS 1)	NOTES
	DETAIL 22 DOUBLE YELLOW	DETAIL 6 BROKEN YELLOW	DETAIL 19 SLD YEL BRK YEL	DETAIL 27B SOLID WHITE	TYPE D	TYPE H	STOP	LIMIT LINE		
	LF	LF	LF	LF						
PM31.00 TO PM 36.57	29,420			58,840	2,452				273	
PM36.57 TO PM 36.59				106			22	15		FISH ROCK Rd PM 36.57
PM36.59 TO PM 36.82	1,220			2,440	102				11	
PM36.82 TO PM 36.87	264			792	22				5	
PM36.87 TO PM 37.09	1,167			2,334	97				14	
PM37.09 TO PM 37.14	264			792	22				12	
PM37.14 TO PM 38.20	5,560			11,120	463				50	
PM38.20 TO PM 38.28	428			1,284	35				7	
PM38.28 TO PM 38.40	634			1,268	53					
PM38.40 TO PM 38.51				581			22	15	2	HIBBARD Rd PM 38.40
PM38.51 TO PM 38.80	1,542			3,084	129				19	
PM38.80 TO PM 39.01	1,109			2,218	93				6	
PM39.01 TO PM 39.12	581			1,743	49				5	
PM39.12 TO PM 39.17	269			538	22				5	
PM39.17 TO PM 39.28	581			1,743	48					
PM39.28 TO PM 40.39	5,829			11,658	486				48	
PM40.39 TO PM 40.61			1,167	2,334	24	49	22	15		FIRE STATION Rd PM 40.29
PM40.61 TO PM 40.88	1,447			2,894	121					
PM40.88 TO PM 40.90				106			22	15		BIG OAKS DR PM 40.88
PM40.90 TO PM 41.59	3,643			7,286	304					
PM41.59 TO PM 41.60				53						
PM41.60 TO PM 42.92	6,985			13,970	582				48	
PM42.92 TO PM 43.14			1,167	2,334	24	49				
PM43.14 TO PM 43.37		1,167		2,334	24					
PM43.37 TO PM 43.92			2,915	5,830	61	121			17	
PM43.92 TO PM 50.87	36,712			73,424	3,059		22	15	517	MOUNTAIN HOUSE Rd PM 48.45
TOTAL	97,655	1,167	5,249	211,106	8,272	219	110	75	1060	
GRAND TOTAL	315,177				8,491		185			

SUMMARY OF QUANTITIES

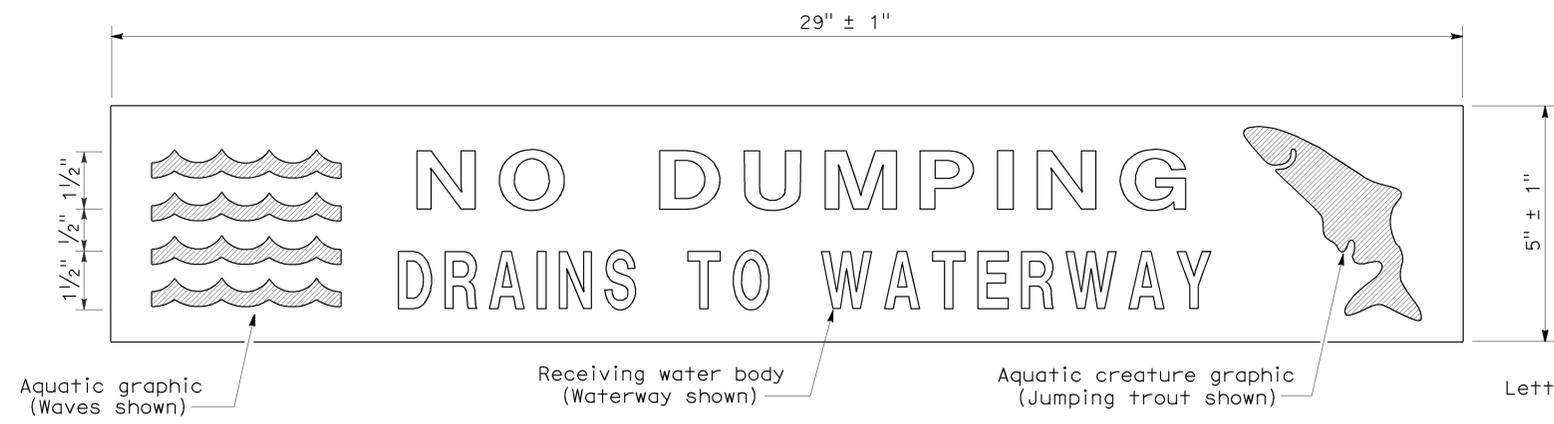
Q-5

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	18	30

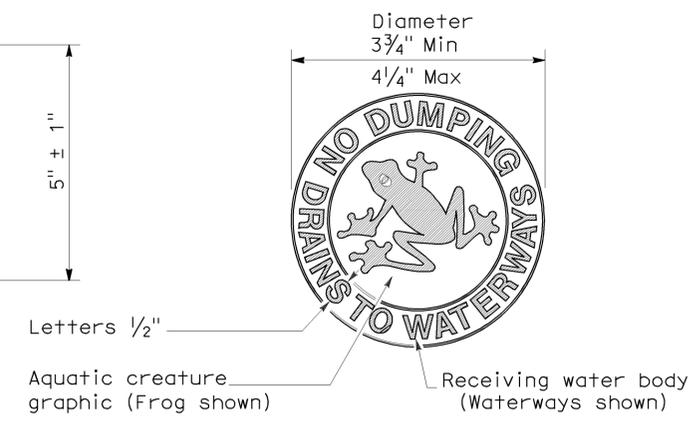
Robert B. Schott
 LICENSED LANDSCAPE ARCHITECT
 April 3, 2009
 PLANS APPROVAL DATE
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



To accompany plans dated 5-2-11



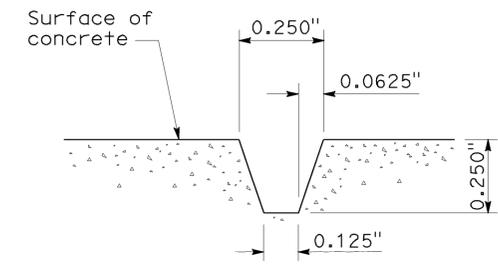
PLAN
DRAINAGE INLET MARKER
(PREFABRICATED THERMOPLASTIC)



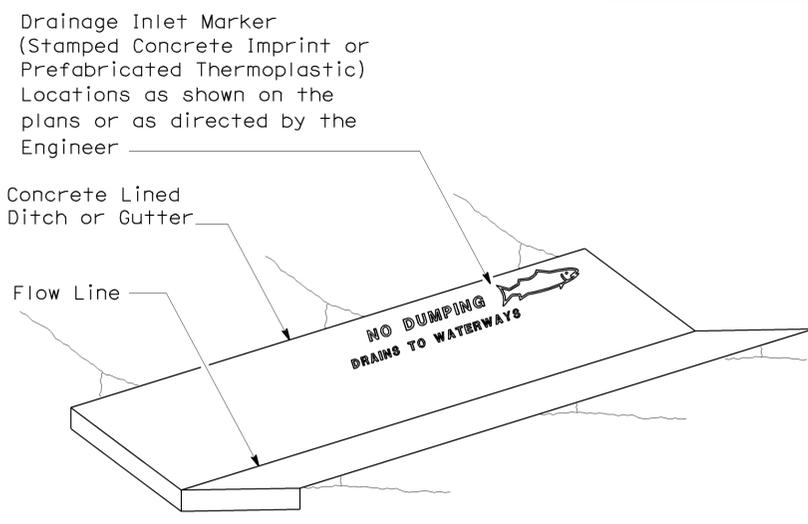
PLAN
DRAINAGE INLET MARKER
(MEDALLION)



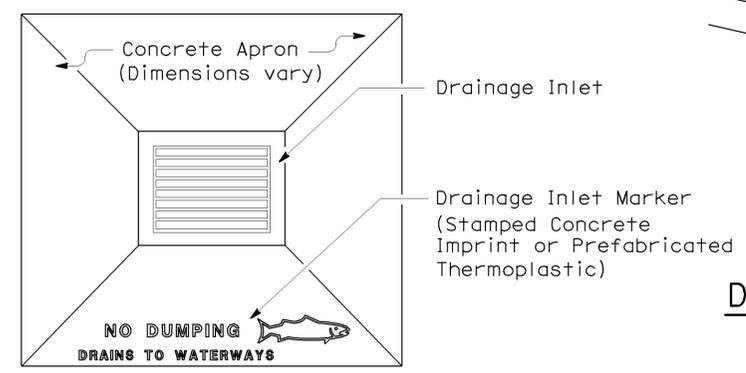
PLAN
DRAINAGE INLET MARKER
(STAMPED CONCRETE IMPRINT)



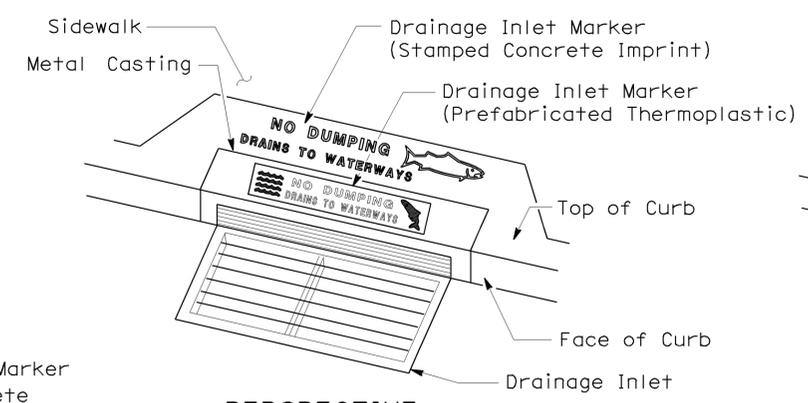
SECTION A-A
STAMPED CONCRETE
IMPRINT DETAIL



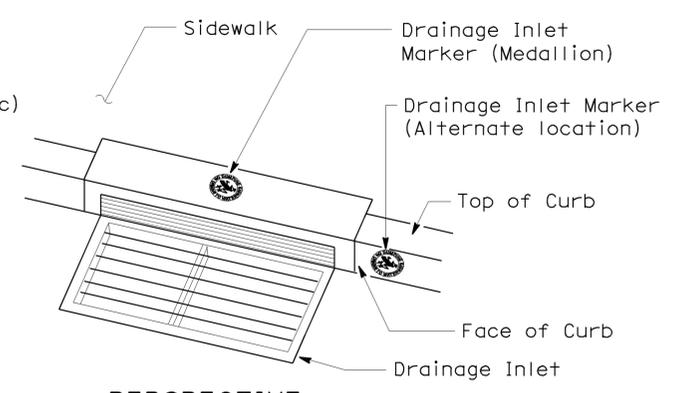
PERSPECTIVE
DRAINAGE INLET MARKER ON
CONCRETE LINED DITCH



PLAN
DRAINAGE INLET MARKER ON
DRAINAGE INLET APRON



PERSPECTIVE
DRAINAGE INLET MARKER ON
DRAINAGE INLET



PERSPECTIVE
DRAINAGE INLET MARKER (MEDALLION)
ON DRAINAGE INLET

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DRAINAGE INLET MARKERS
NO SCALE
NSP D71 DATED APRIL 3, 2009 SUPPLEMENTS
THE STANDARD PLANS BOOK DATED MAY 2006.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	19	30

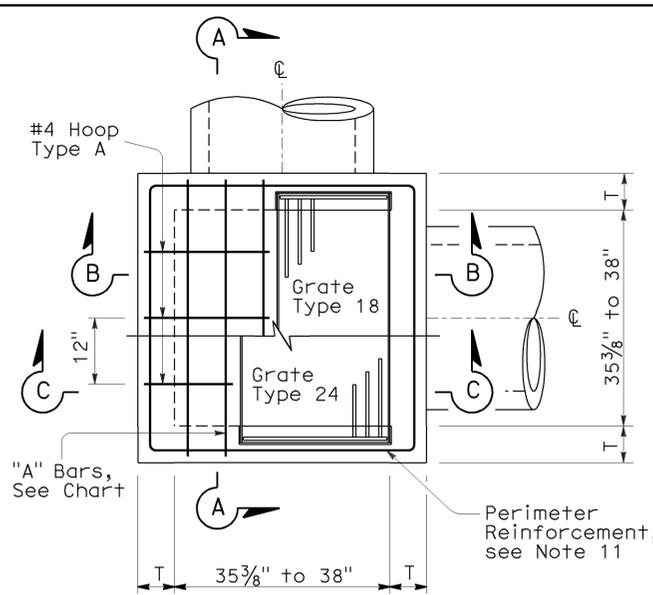
To accompany plans dated 5-2-11

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

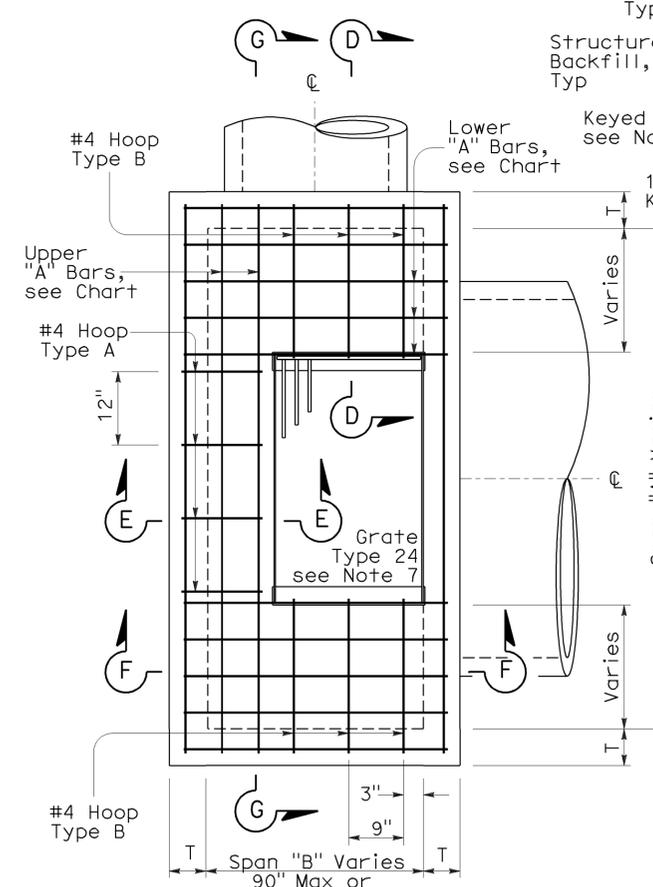
June 5, 2009
 PLANS APPROVAL DATE

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.

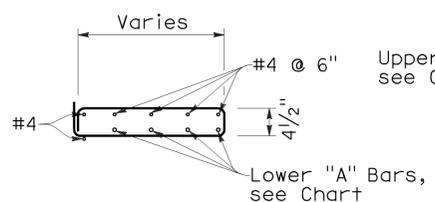
2006 NEW STANDARD PLAN NSP D73A



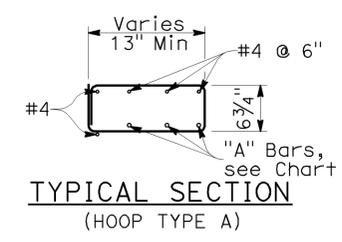
STANDARD TYPE G2 OR G4



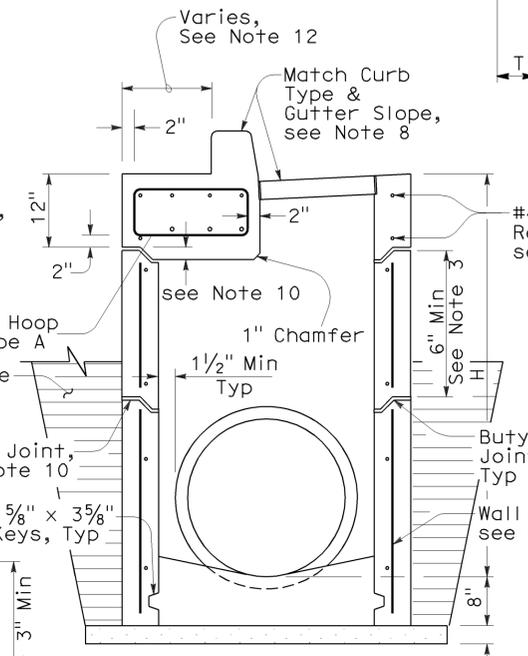
EXPANDED TYPE G2 OR G4
(Top Rebar Not Shown)



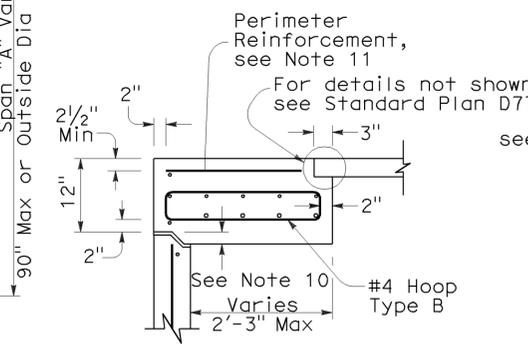
TYPICAL SECTION
(HOOP TYPE B)



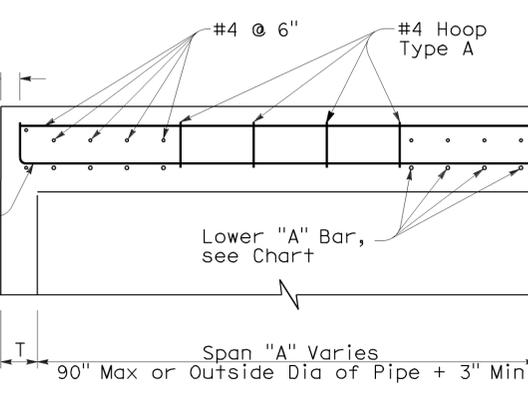
TYPICAL SECTION
(HOOP TYPE A)



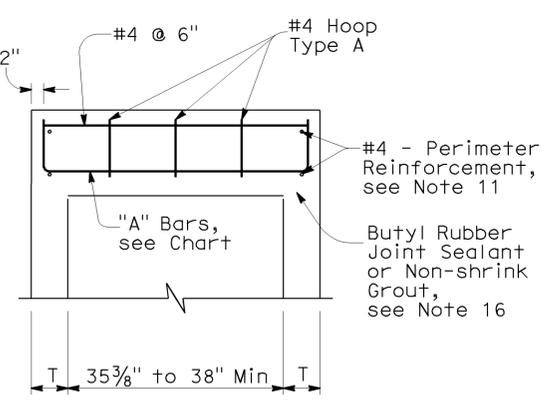
SECTION B-B
(with G4 Top)



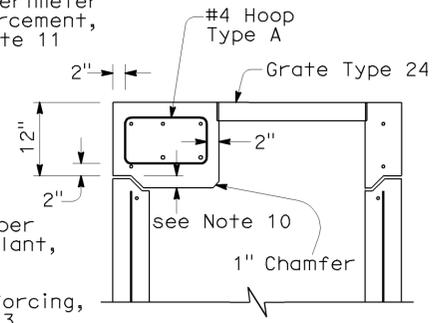
SECTION D-D



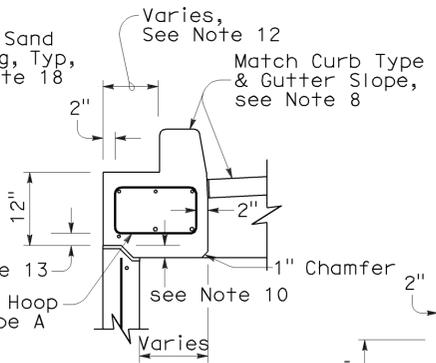
SECTION G-G



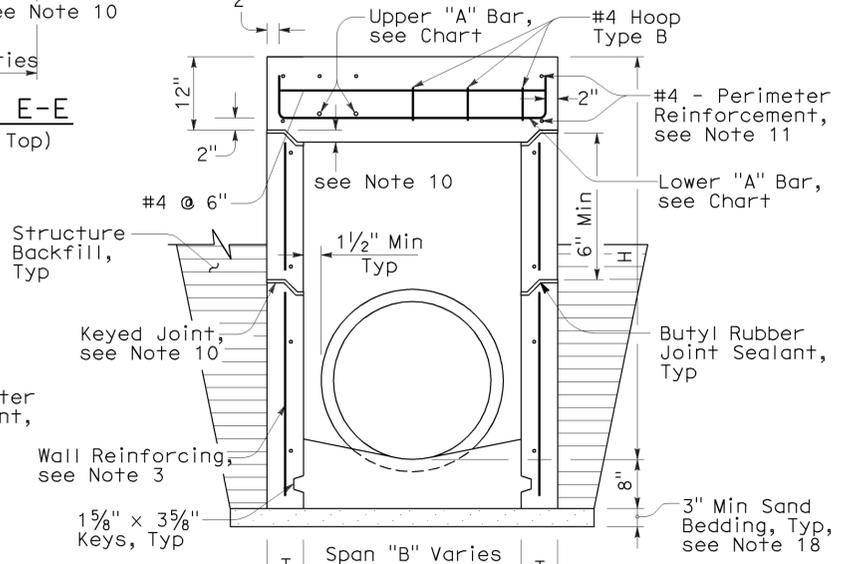
SECTION A-A



SECTION C-C
(with G2 Top)



SECTION E-E
(with G4 Top)



SECTION F-F
(with G2 Top)

NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undepressed.
- For "T" wall thickness: T=6" when "H" is 8' or less. T=8" when "H" is over 8'.
- Wall reinforcing not required when "H" is 8' or less and the unsupported width or length is 6'-0" or less. Reinforce wall exceeding these limits with #4 bars @ 1'-6" ± centers placed 2" clear to the inside of inlet unless otherwise shown. Short independent wall sections or height adjustment rings 6" to 24" high must have a minimum of two #4 horizontal bars.
- Seal pre-cast inlets connection openings between wall and pipe with non-shrink grout or resilient connectors as specified in the Special Provisions.
- Steps - None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below bottom of lid. The distance between steps must not exceed 1'-0" and be uniform throughout the length of the wall. Place steps in the wall without an opening. Steps inserts may be substituted for the bar steps. Step inserts must comply with State Industrial Safety Requirements. See Standard Plan D74C for step details.
- Pipe(s) can be placed in any wall.
- Set inlet so that grate bars are parallel to direction of principal surface flow.
- Type G4 inlet can use Grate Type 18 or 24. Type G2 inlet uses Grate Type 24. See Revised Standard Plan RSP D77A and Standard Plan D77B for grate and frame details and weights of miscellaneous Iron and Steel.
- G4 inlet details are the same as the G2 with the addition of a curb and sloped grate that matches the adjacent curb and gutter depression. See Standard Plans D78A & D78B for gutter and inlet depression details. See Revised Standard Plan RSP A87A & Standard Plan A87B for Curb and Dike Details.
- Provide pre-cast inlets with separate top sections for final grade adjustment under Standard Specification Section 51-1.02. Provide keyed joints between the top and wall and multiple wall sections. Joint design may vary but must be 1" to 3" in depth.
- Perimeter reinforcement serves as a rigid frame to position and attach the required structural reinforcement and may be tack welded at outer corners when using ASTM A706 weldable bars.
- This dimension will vary with different grates, curbs types, box width and wall thickness.
- 2" unless inlet is expanded in the Span "A" direction, then clearance is 2" plus the diameter of the lower "A" bar.
- Place "A" Bars at an angle so hooked ends will maintain 2" clear coverage.
- Refer to Standard Plan D73, Table A for concrete quantities.
- Non-shrink grout can be used for upper most joint to facilitate final top grade adjustment.
- Slope inlet floors 4:1 towards the outlet pipe. Pre-cast inlets may have monolithic sloped floors, flat floors, or no floors in which case a sloped floor must be cast in the field. Inlet floors do not require reinforcing.
- Extend sand bedding under all structure backfill.

TOP REINFORCEMENT CHART		
16 Bar Diameters	"A" Bars	See Note 14
	Varies	
Span	"A" Bars	Required steel area per foot (in ² /ft)
Under 38" with Type 24 Grate	#5 @ 7" C-C 2-#5 Min	0.525
Under 38" with Type 18 Grate	#5 @ 7" C-C 3-#5 Min	0.525
38"-60"	#5 @ 6" C-C	0.621
61"-72"	#5 @ 5" C-C	0.744
73"-90"	#6 @ 6" C-C	0.811

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
DRAINAGE INLETS
(PRECAST)

NO SCALE

NSP D73A DATED JUNE 5, 2009 SUPPLEMENTS
 THE STANDARD PLANS BOOK DATED MAY 2006.

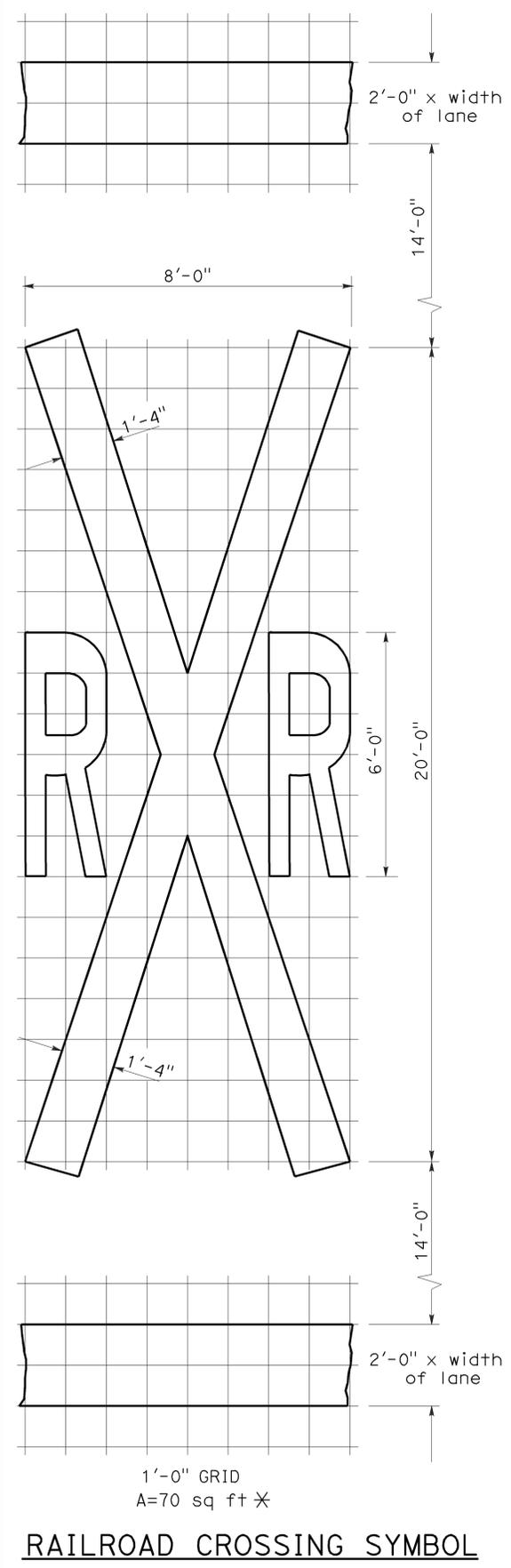
NEW STANDARD PLAN NSP D73A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	20	30

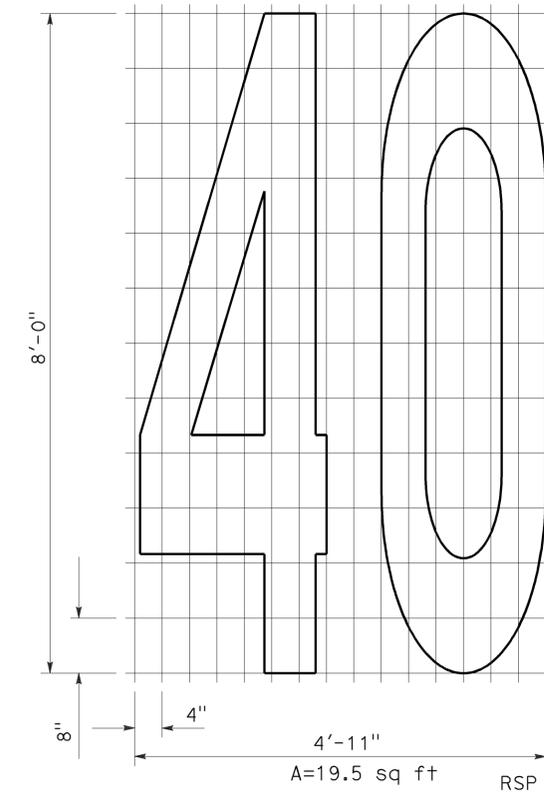
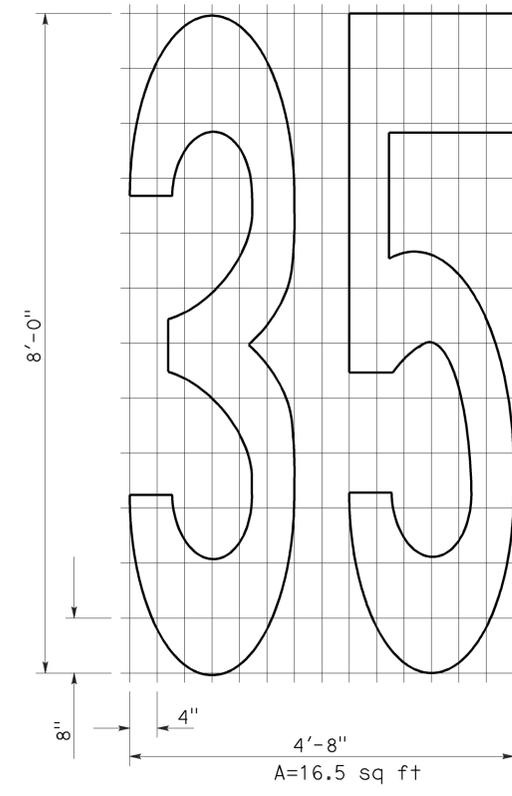
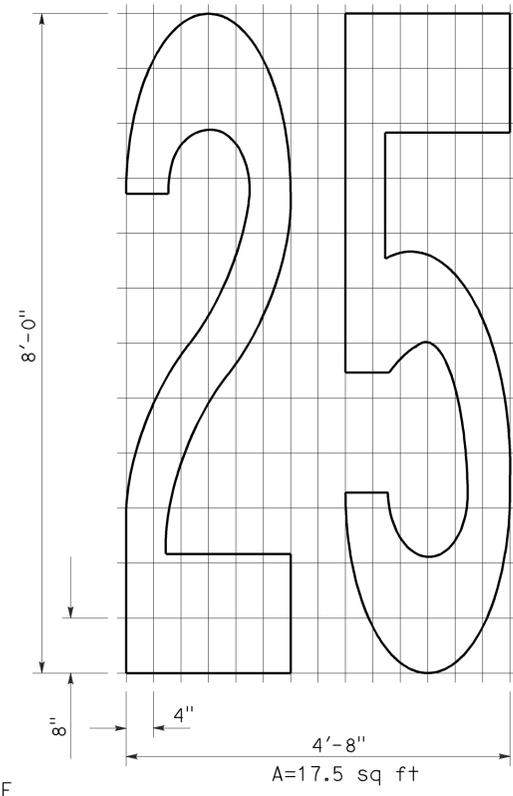
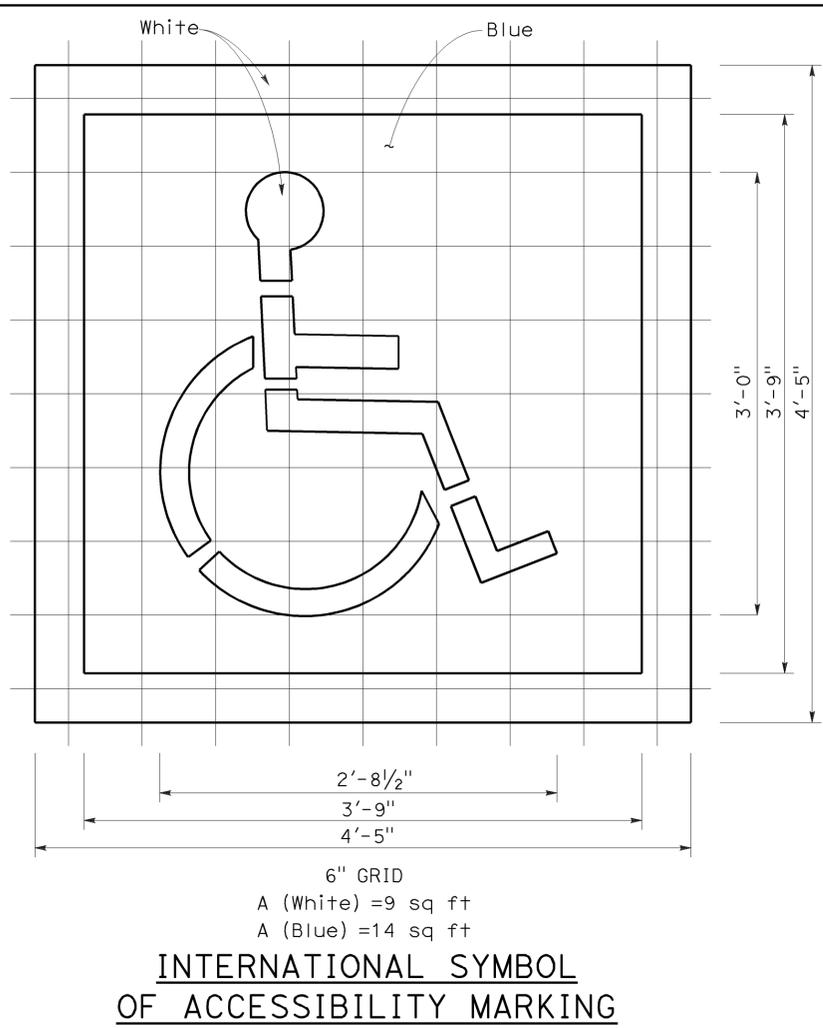
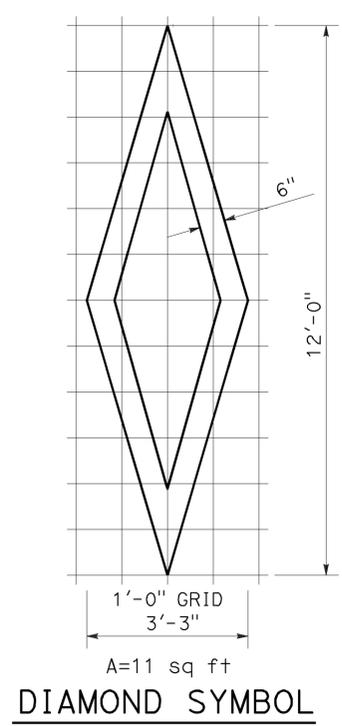
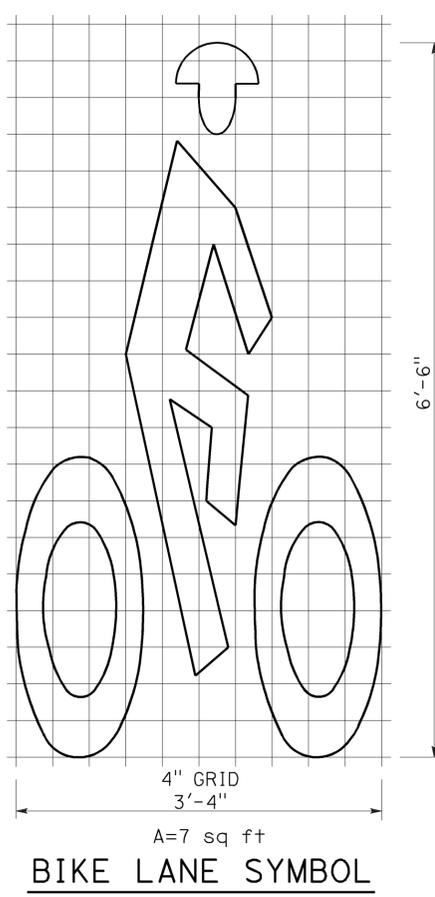
Donald E. Howe
 REGISTERED CIVIL ENGINEER
 No. C46402
 Exp. 3-31-09
 CIVIL
 STATE OF CALIFORNIA

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.

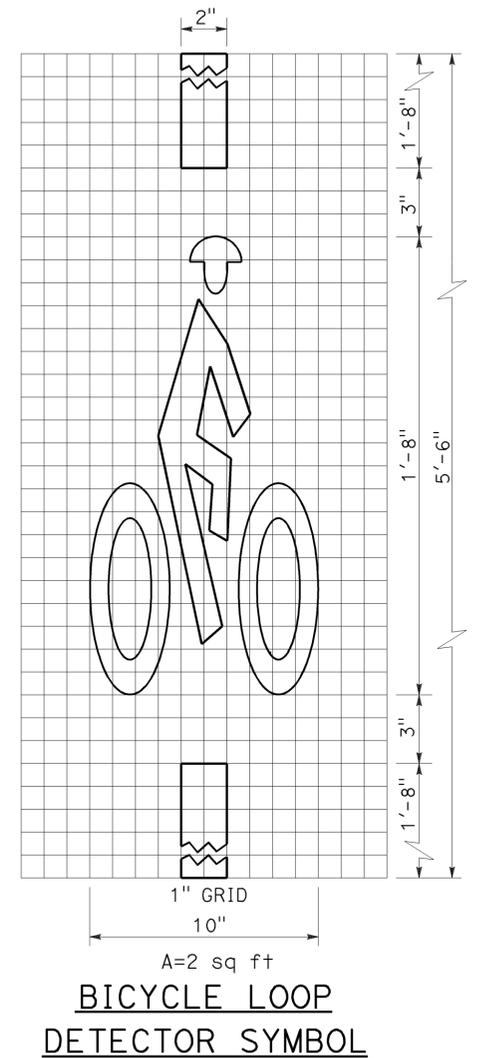
To accompany plans dated 5-2-11



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



NUMERALS



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

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

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

REVISED STANDARD PLAN RSP A24C

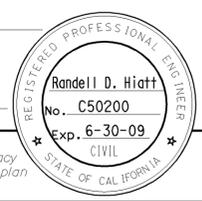
2006 REVISED STANDARD PLAN RSP A24C

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	21	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

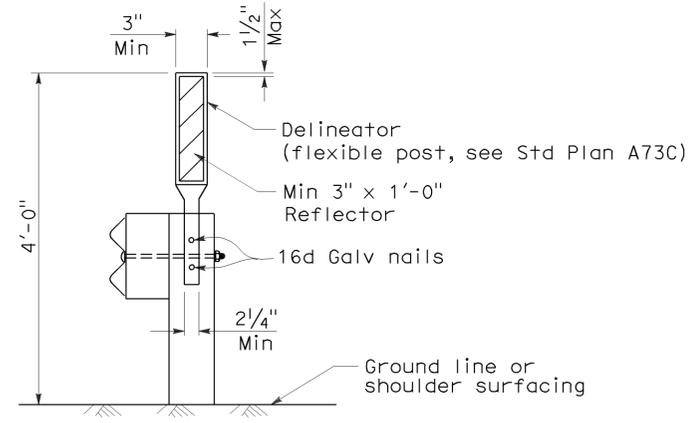
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



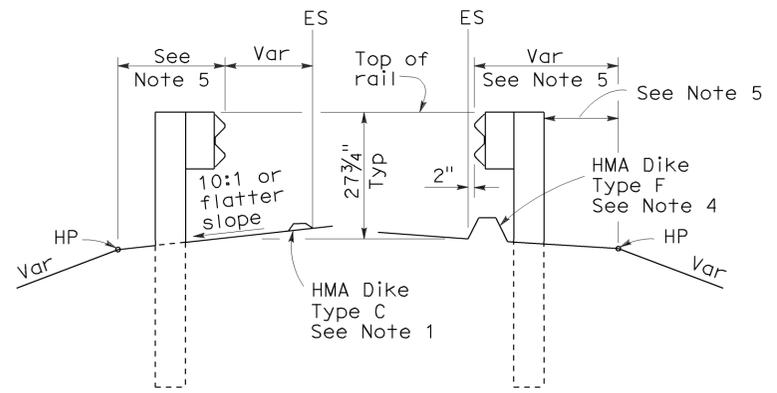
To accompany plans dated 5-2-11

NOTES:

1. When necessary to place dike in front of face of guard railing, only Type C dike may be used. For dike details, see Standard Plan A87B.
2. For standard railing post embedment, see Standard Plans A77C3.
3. Guard railing delineation to be used where shown on the Project Plans.
4. When dike or curb is placed under guard railing, the maximum height of the dike or curb shall be 4". Mountable dike should not be used. For dike and curb details, see Revised Standard Plans RSP A87A and Standard Plan A87B.
5. For details of typical distance between the face of rail and hinge point, see Standard Plan A77C3.



GUARD RAILING DELINEATION
See Note 3



DIKE POSITIONING
See Note 1

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL RAILING DELINEATION
AND DIKE POSITIONING DETAILS**

NO SCALE

RSP A77C4 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A77C4
DATED MAY 1, 2006 - PAGE 47 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77C4

2006 REVISED STANDARD PLAN RSP A77C4

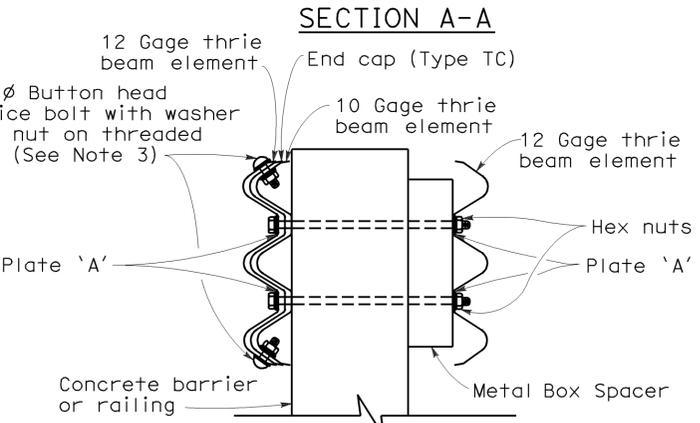
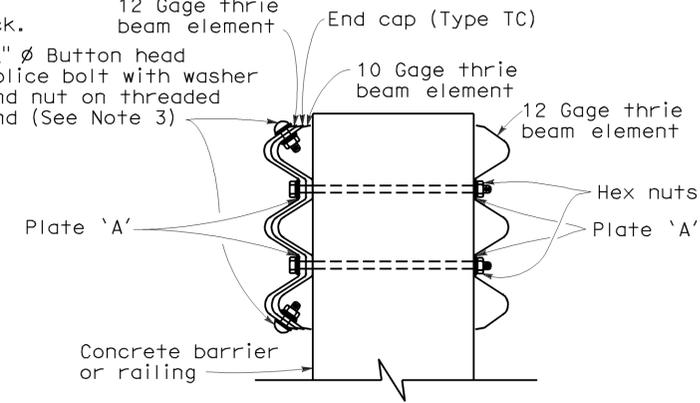
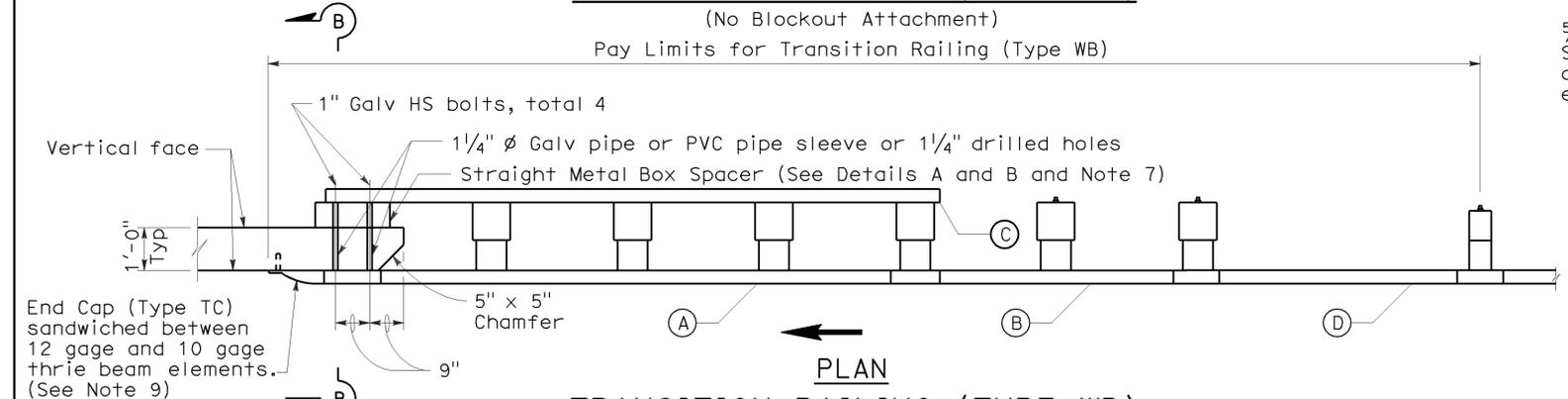
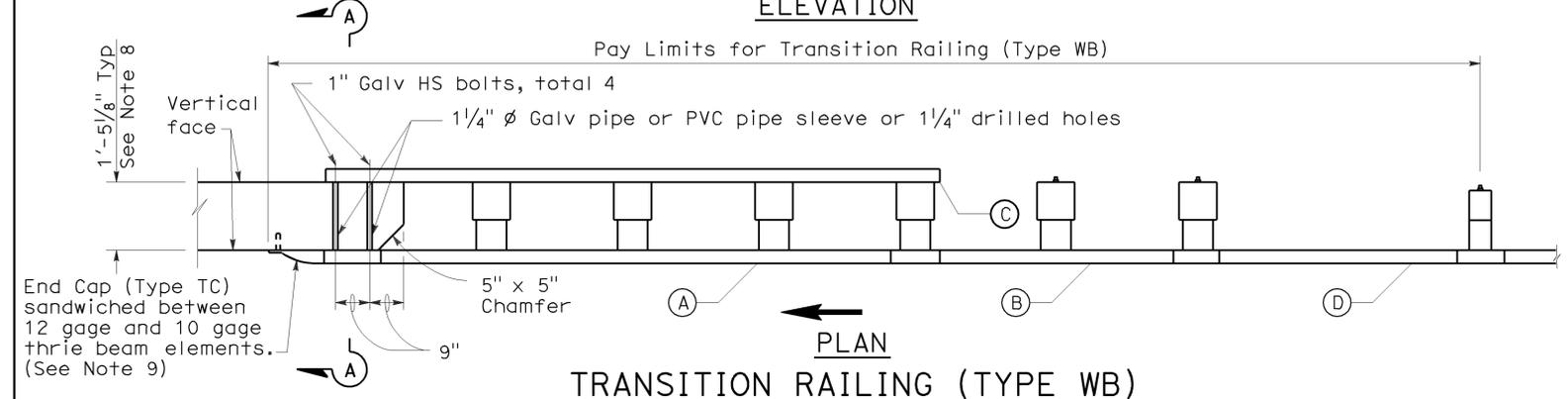
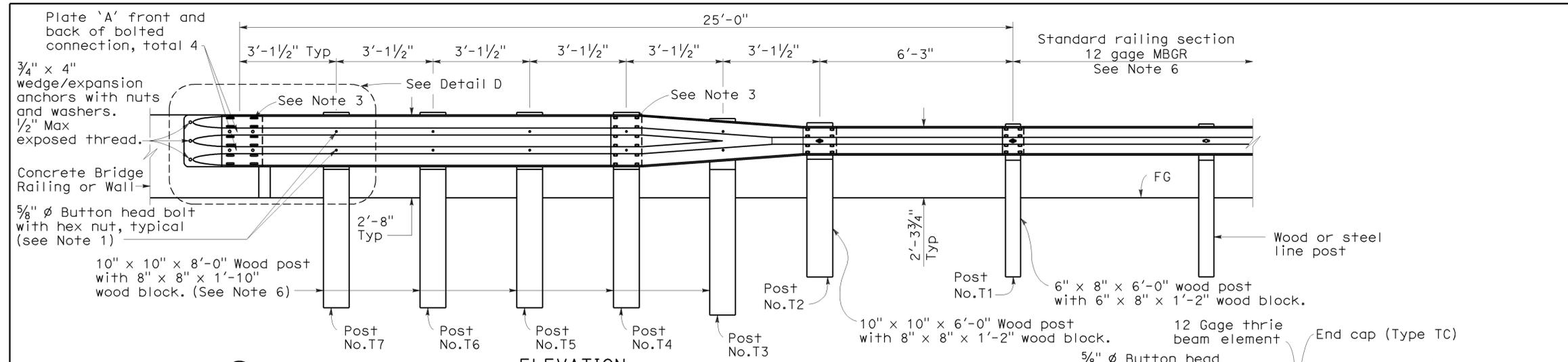
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	22	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 5, 2009
PLANS APPROVAL DATE

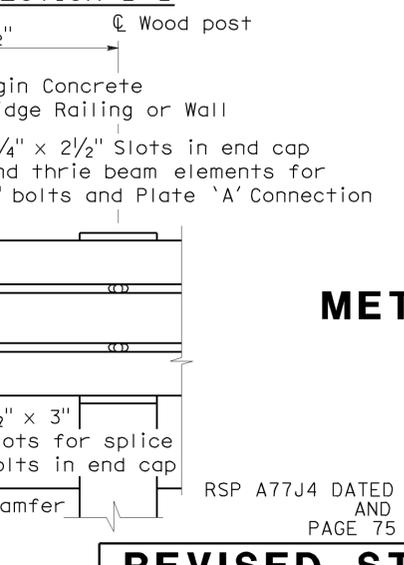
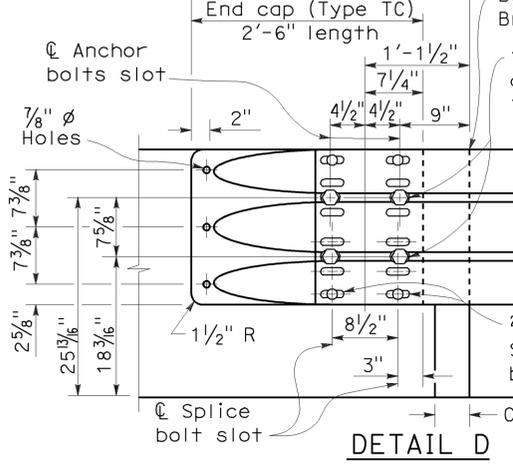
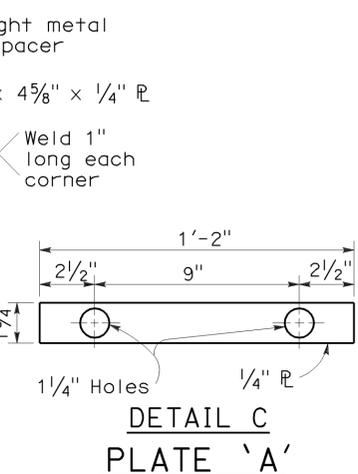
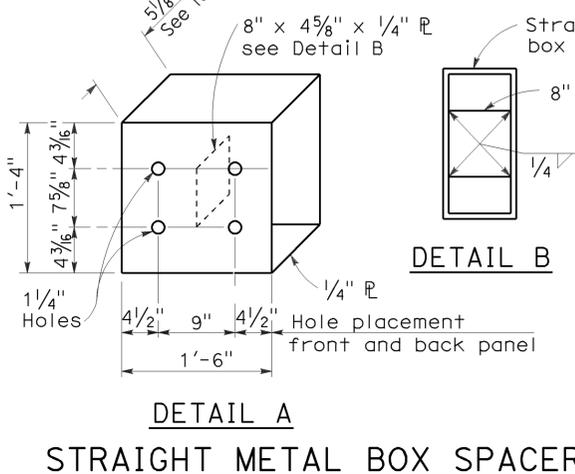
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

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



- NOTES:** To accompany plans dated 5-2-11
- Use 5/8 " ϕ Button head bolts and hex nuts for connections to posts. No washer on rail face for bolted connections to post.
 - The nested rail elements, end cap, and 'W' beam to thrie beam element may be spliced together prior to bolting the elements to the wood post and concrete barrier or railing.
 - Exterior splice bolt holes for rail element splices at Post No.T4 and the connection to the concrete barrier or railing shall be the standard 29/32 " x 1 1/8 " slot size. Interior splice bolt holes at these locations may be increased up to 1 1/4 " ϕ . Only the top 2 and the bottom 2 splice bolts with washers and nuts are required for rail splices at Post No.T4 and the connection to the concrete barrier or railing.
 - Direction of adjacent traffic indicated by \rightarrow .
 - The top elevation of Post Nos.T2 through T7 shall not project more than 1" above the top elevation of the rail element.
 - Typically, the railing connected to Transition Railing (Type WB) will be either standard railing section of metal beam guard railing or an approved Caltrans end treatment attached to Post No.T1.
 - The depth of the metal box spacer varies from the 5 1/8 " to 1 1/2 " and is dependent on the width of the concrete railing or wall. The combined dimension for the depth of the metal box spacer plus the width of railing or wall is typically 17 1/8 ". Where the space between the backside of the concrete railing or wall and the rear thrie beam element is less than 1 1/2 ", metal plates similar to Plate 'A' are to be used as spacers.
 - Where the width of the concrete railing or wall is greater than 17 1/8 ", wood blocks are to be used to fill the space created between the backside of Posts No.4 through No.7 and the rear thrie beam element. These wood blocks shall be 8" in width and 1'-2" in length. The dimension between the front thrie beam element and the rear thrie beam element is to match the width of the concrete railing or wall.
 - End cap may be installed over 12 gage and 10 gage thrie beam elements where transition railing is installed on the departure end of bridge railing.

- LEGEND**
- (A) Nested thrie beam elements (one 12 gage element nested over one 10 gage element).
 - (B) One 10 gage "W" beam to thrie beam element.
 - (C) One 12 gage thrie beam element.
 - (D) One 10 gage "W" beam rail element (7'-3 1/2" length)
- 10 gage = 0.135" thick
12 gage = 0.108" thick



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

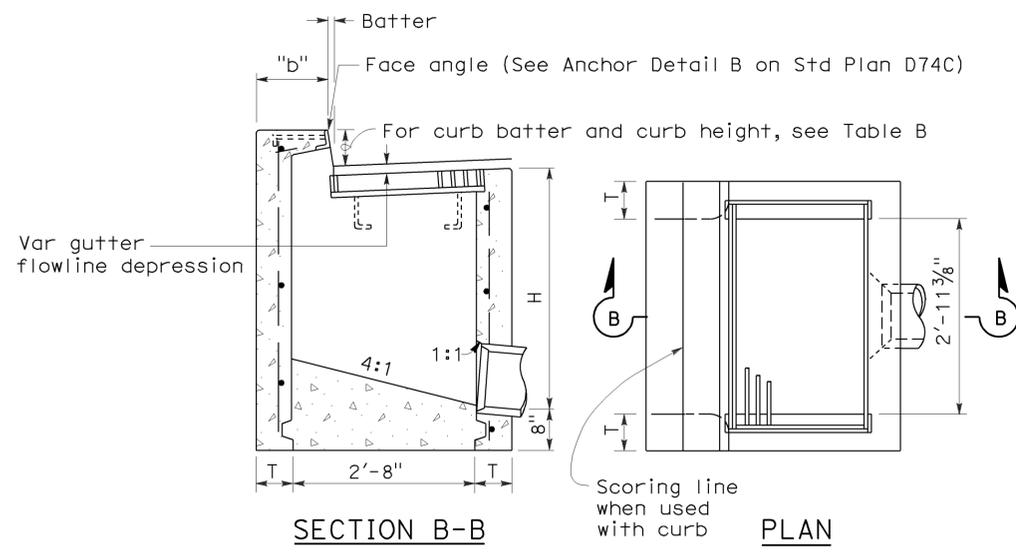
METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB)

NO SCALE

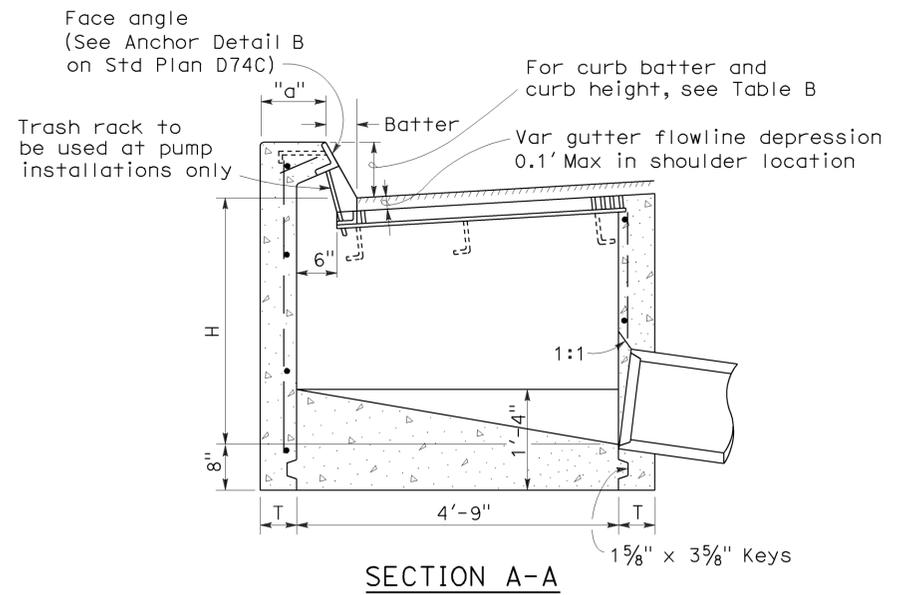
RSP A77J4 DATED JUNE 5, 2009 SUPERSEDES RSP A77J4 DATED JUNE 6, 2008
AND STANDARD PLAN A77J4 DATED MAY 1, 2006
PAGE 75 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A77J4

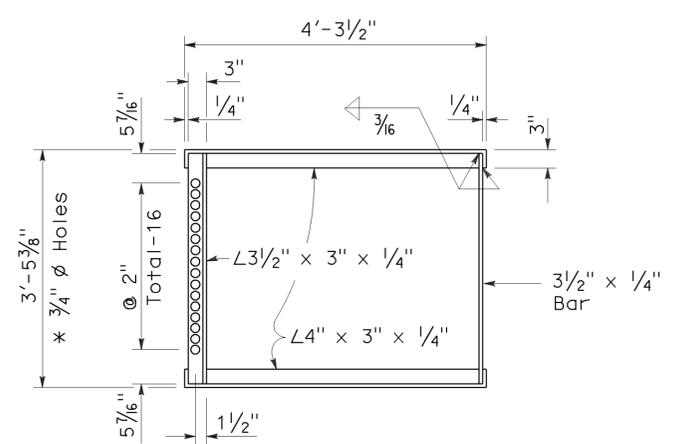
2006 REVISED STANDARD PLAN RSP A77J4



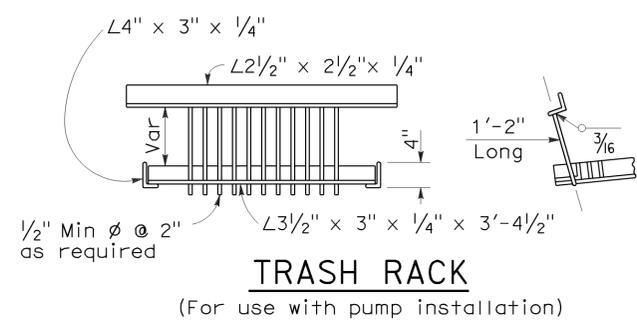
TYPE GO



SECTION A-A



GRATE FRAME FOR TYPE GDO INLET

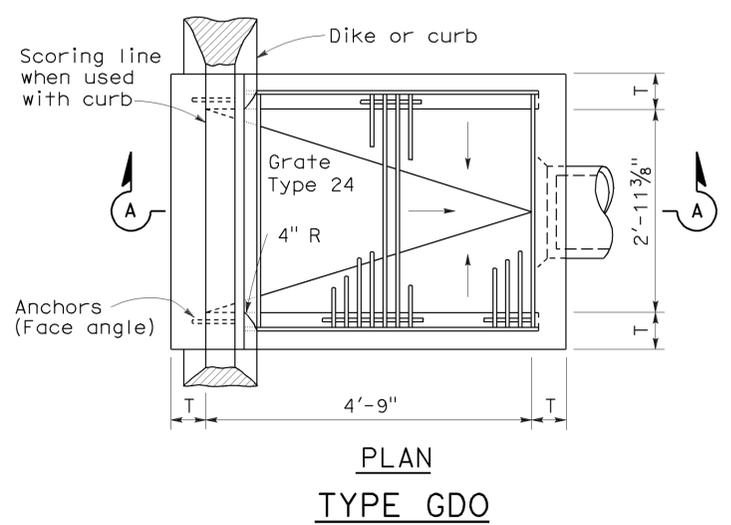


TRASH RACK

TABLE A
CONCRETE QUANTITIES

TYPE	H=3'-0" TO 8'-0" (T=6")	H=8'-1" TO 20'-0" (T=8")	
	ADDITIONAL PCC PER FOOT (CY)	H=8'-1" (CY)	ADDITIONAL PCC PER FOOT (CY)
GO	1.24	3.39	0.346
GDO	1.62	4.36	0.446

Table based on 8" floor slab, no deduction for pipe openings, and curb type giving highest quantity of concrete. No deductions or adjustments are to be made to these quantities because of pipe openings, different floor alternatives or different curb type.



TYPE GDO

TABLE B

CURB TYPE	NORMAL CURB HEIGHT	CURB BATTER	"a" DIMENSION	"b" DIMENSION
A1-6	6"	1 1/2"	T+7 1/2"	T+6 1/2"
A1-8	8"	2"	T+7"	T+6"
B1-6	6"	4"	T+5"	T+4"
Type A Dike	6"	3"	T+6"	T+5"

NOTES:

- "H" is the difference in elevation between the outlet pipe flow line and the normal gutter grade line undeepressed.
- For "T" wall thickness, see Table A below.
- Wall reinforcing not required when "H" is 8'-0" or less and the unsupported width or length is 7'-0" or less. Walls exceeding these limits shall be reinforced with #4 @ 18"± centers placed 1/2" clear to inside of box unless otherwise shown.
- Inlet bottom reinforcing not required. See Standard Plan D74C for alternative reinforced bottom.
- Steps - None required where "H" is less than 2'-6". Where "H" is 2'-6" or more, install steps with lowest rung 1'-0" above the floor and highest rung not more than 6" below top of inlet. The distance between steps shall not exceed 1'-0" and shall be uniform throughout the length of the wall. Place steps in the wall without an opening. Step inserts may be substituted for the bar steps. Step Inserts shall comply with State Industrial Safety requirements. See Standard Plan D74C for step details.
- When shown on the project plans, place a 3/4" plain round protection bar horizontally across the length of the opening and bend back 4" into the inlet wall on each side.
- Pipe(s) can be placed in any wall.
- Curb section shall match adjacent curb.
- Basin floors shall have wood trowel finish and shall slope toward the outlet pipe as shown.
- Galvanizing - See Standard Specifications or Special Provisions.
- See Standard Plan D77A and D77B for grate and frame details and weights of miscellaneous iron and Steel.
- See Standard Plan D78A for gutter depression details.
- Full penetration butt welds may be substituted for the fillet welds on all anchors.
- Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
- Cast-in-place or precast alternative is optional with contractor. See Standard Specifications.
- Cast-in-place inlets to be formed around all pipes/stubs intersecting the inlet and concrete poured in one continuous operation. Precast inlets shall have mortared pipe connections conforming to details for Type GCP inlets on Standard Plan D75B. See Standard Specifications for mortar composition.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
DRAINAGE INLETS
NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	24	30

Raymond Don Jago
REGISTERED CIVIL ENGINEER

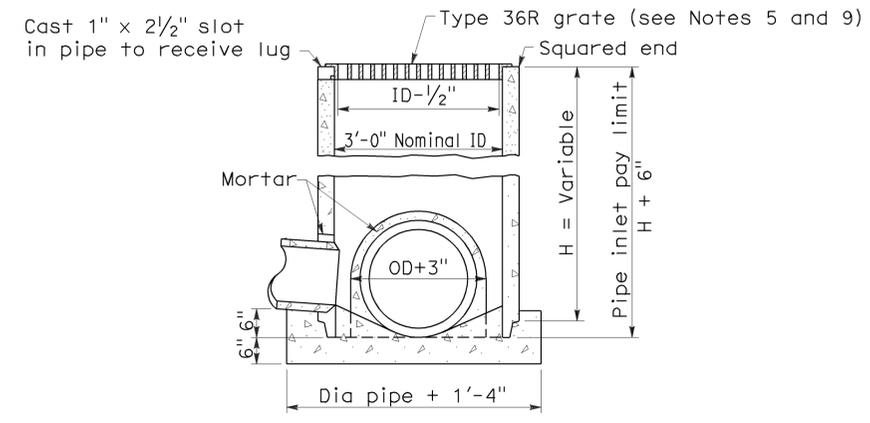
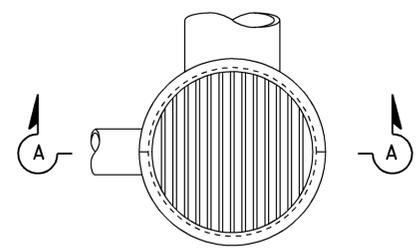
June 6, 2008
PLANS APPROVAL DATE

Raymond Don Tsztoo
REGISTERED PROFESSIONAL ENGINEER
No. C37332
Exp. 6-30-08
CIVIL
STATE OF CALIFORNIA

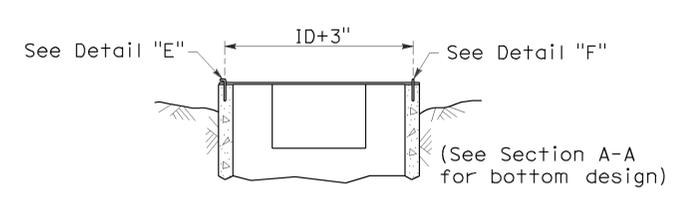
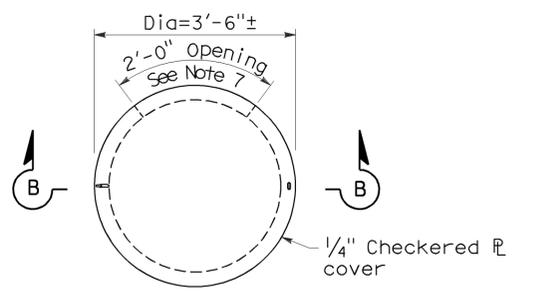
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-2-11

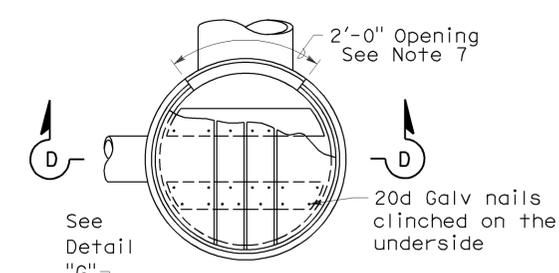
2006 REVISED STANDARD PLAN RSP D75B



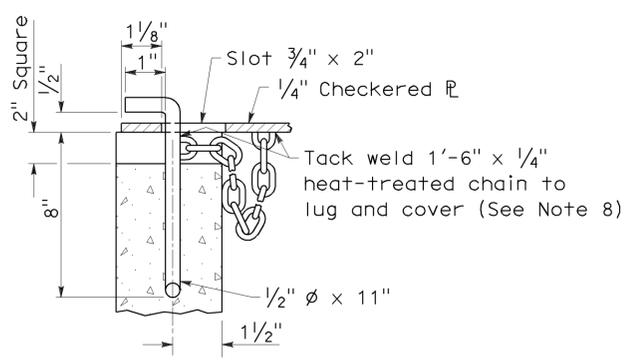
SECTION A-A
TYPE GCP
CONCRETE PIPE INLET WITH GRATE



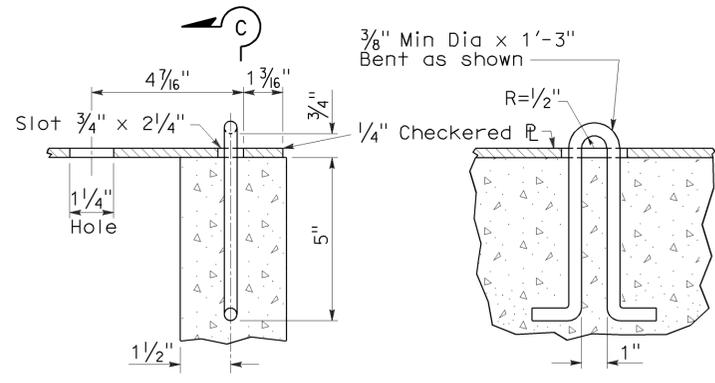
SECTION B-B
TYPE OCP or OCPI
CONCRETE PIPE INLET WITH STEEL COVER
(See Note 6)



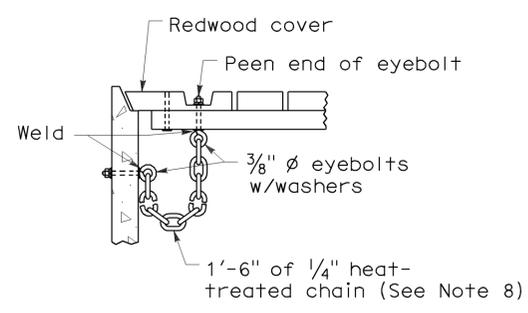
SECTION D-D
TYPE OCP or OCPI
CONCRETE PIPE INLET WITH REDWOOD COVER
(See Notes 6 and 10)



DETAIL "E"



SECTION C-C
DETAIL "F"



DETAIL "G"

NOTES:

- For details of steel pipe inlets, see Standard Plan D75A.
- For details of ladder and steps and when ladder or steps are required, see Standard Plan D75C.
- Inlet pipes shall not protrude into basin.
- Except for inlets used for junction boxes, basin floors shall have minimum slope of 4:1 from all directions toward outlet pipe, and a wood trowel finish.
- See Revised Standard Plan RSP D77A and Standard Plan D77B for Grate and Frame Details and Weights of Miscellaneous Iron and Steel.
- Designation of Type OCPI pipe inlets on plans indicates trash racks are to be furnished and installed on all side openings. See Standard Plan D75C for Trash Rack details.
- More than one side opening may be required. Location and number as ordered by the Engineer. Opening may be cast in pipe.
- Chain to be provided when specified.
- Place pipe so bars of grate will be parallel with main surface flow.
- Redwood covers shall only be placed at locations designated on the plans.

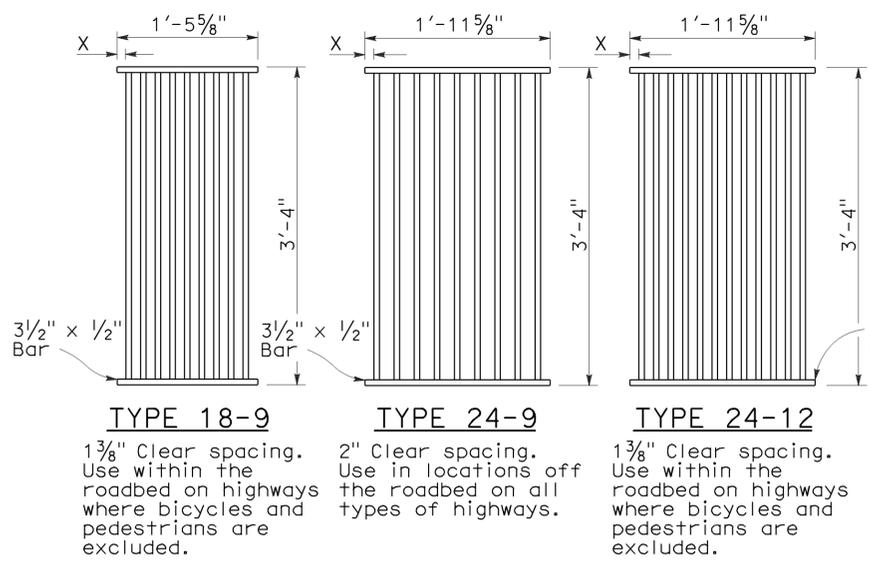
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CONCRETE PIPE INLETS

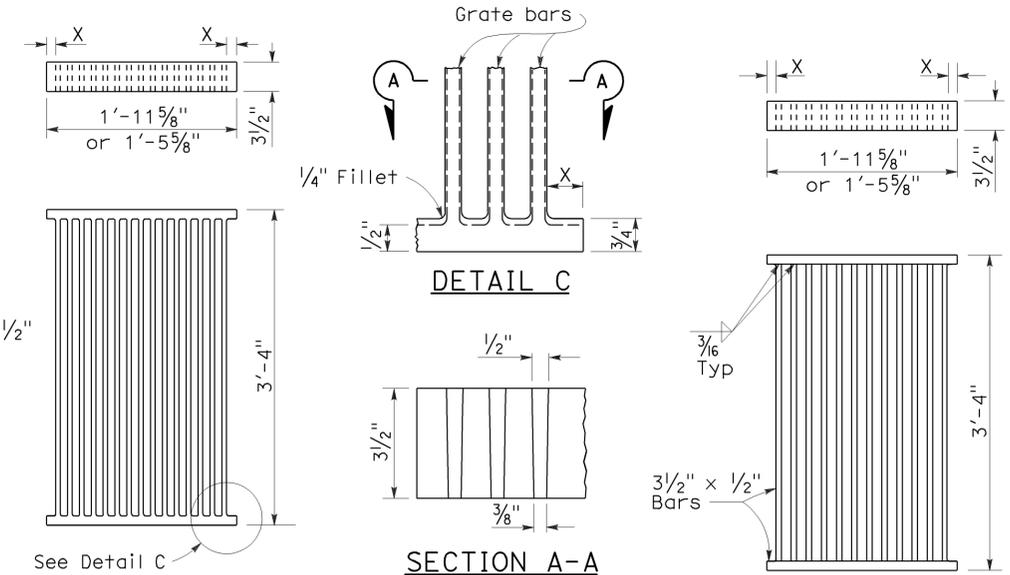
NO SCALE

RSP D75B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN D75B
DATED MAY 1, 2006 - PAGE 153 OF THE STANDARD PLANS BOOK DATED MAY 2006.

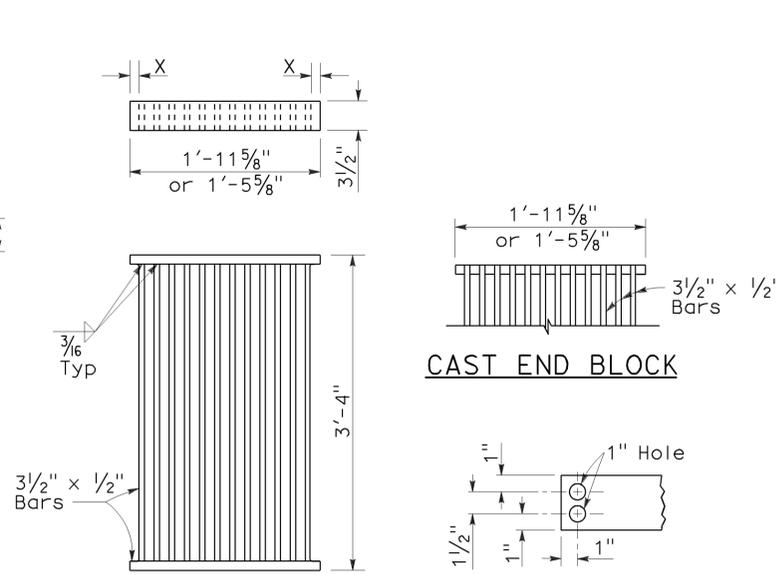
REVISED STANDARD PLAN RSP D75B



RECTANGULAR GRATE DETAILS
(See table below)

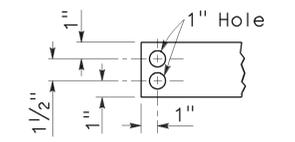


ALTERNATIVE CAST NODULAR IRON GRATE OR CAST STEEL GRATE



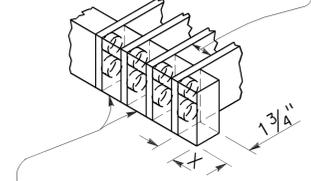
ALTERNATIVE WELDED GRATE

CAST END BLOCK



END OF BAR

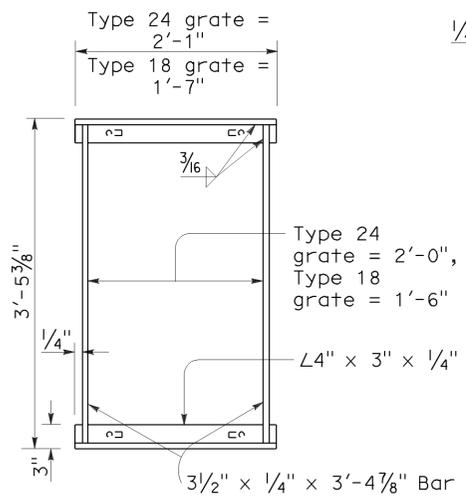
Spacing same as for welded or bolted grate



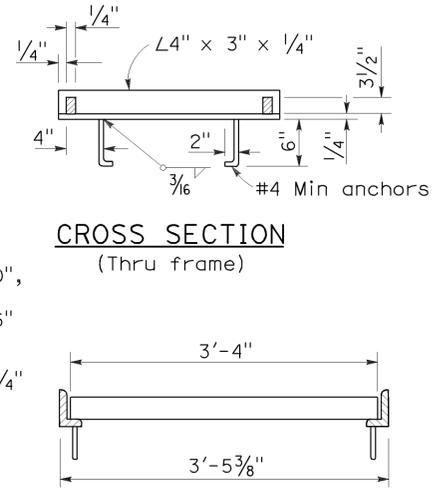
ALTERNATIVE CAST NODULAR IRON OR CAST STEEL END BLOCK GRATE

NOTES:

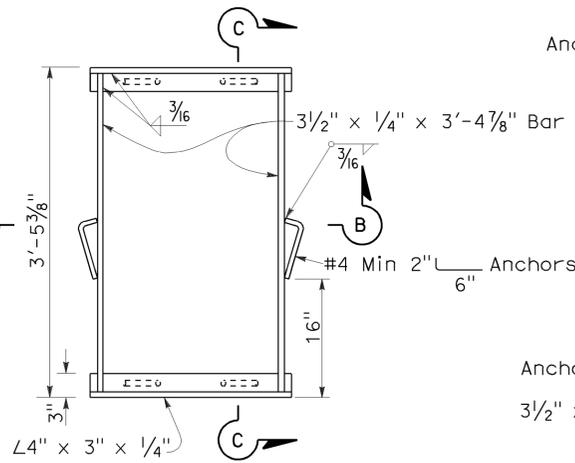
1. Grate type numbers refer to approximate width of grate in inches and number of bars, respectively.
2. Contractor has the option of using cast nodular iron, cast steel, welded, bolted, or cast end block grate.
3. See Special Provisions for requirements pertaining to galvanizing or asphalt dipping of grates and frames.
4. Rounded top of bars optional on all grates.
5. Pipe inlets with a grate shall be placed so that bars parallel direction of principle surface flow.
6. Full penetration butt welds may be substituted for the fillet welds on all anchors.
7. Standard square, hexagon, round or equivalent headed anchors may be substituted for the right angle hooks on the anchors shown on this plan.
8. Grate and frame weights are based on welded grates (weights of face angles, steps, protection bars, etc. are not included).



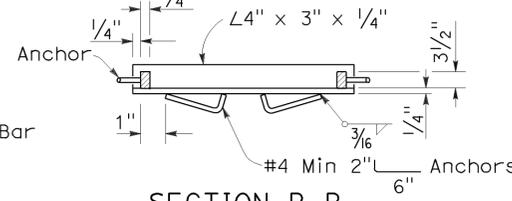
TYPICAL FRAME



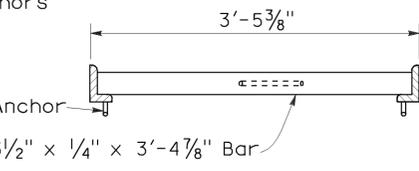
LONGITUDINAL SECTION
(Thru frame and grate)



TYPICAL FRAME



SECTION B-B



SECTION C-C

ALTERNATIVE ANCHOR FOR RECTANGULAR FRAME
(For details not shown, See Rectangular Frame Details)

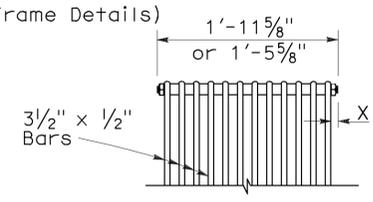
RECTANGULAR FRAME DETAILS
(For all rectangular grates)

GRATE BAR SPACING TABLE

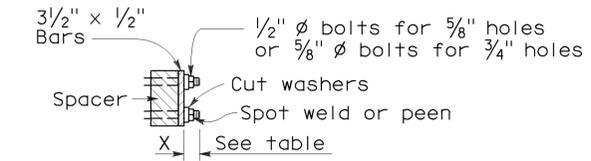
TYPE	NO. OF BARS	CLEAR BAR SPACING	X
18-9	9	1 3/8"	1 1/16"
24-9	9	2"	1 9/16"
24-12	12	1 3/8"	1 1/4"

INLET TYPE	COVER TYPE	WEIGHT LB
OS	PLATE	174
OL-7	PLATE	170
OL-10	PLATE	170
OL-14	PLATE	170
OL-21	PLATE	170
OCPI	PLATE	112
OCPI	PLATE	112
OCPI	REDWOOD	42
OMP	PLATE	177
OMPI	PLATE	177

INLET TYPE	GRATE TYPE	NO. OF GRATES	WEIGHT LB
GDO	24-12	2	634
GOL-7	24-12	1	326
GOL-10	24-12	1	326
G0,G1,G2,G3,G4 (TYPE 24)	24-9	1	263
	24-12	1	326
G4 (TYPE 18),G5,G6	18-9	1	249
GT1	18-9	2	498
GT2	18-9	2	498
GT3	24-12	2	652
GT4	24-12	2	652
TRASH RACK			22

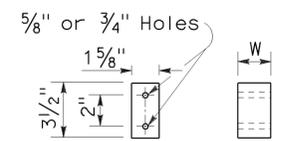


BOLTED END BLOCK

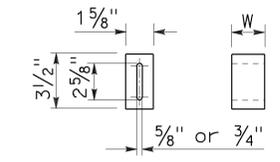


BOLTING DETAIL

ALTERNATIVE BOLTED GRATE



BAR SPACER



ALTERNATIVE SPACER
W = 1 3/8" or 2"

BASIS FOR MISC IRON & STEEL FINAL PAY WEIGHTS FOR DRAINAGE INLETS

(See General Notes, No 8)

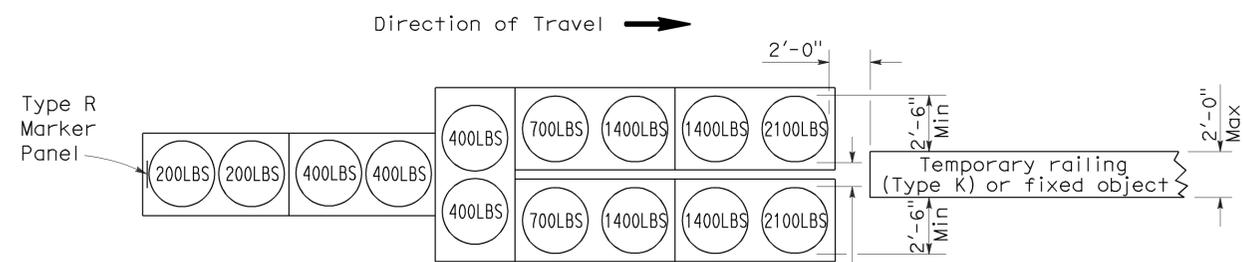
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	26	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

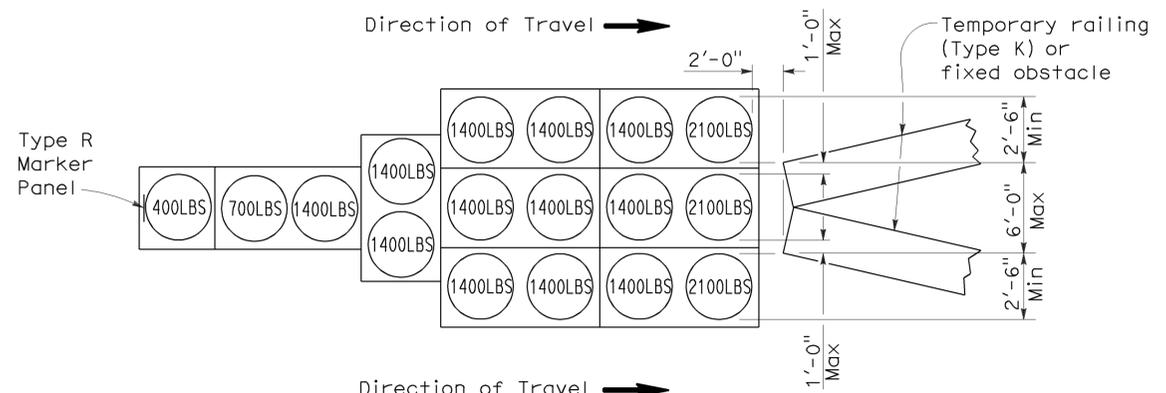
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 5-2-11



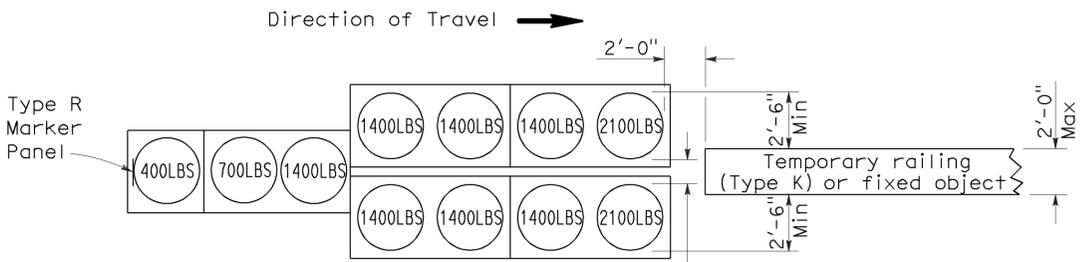
ARRAY 'TU14'

Approach speed 45 mph or more



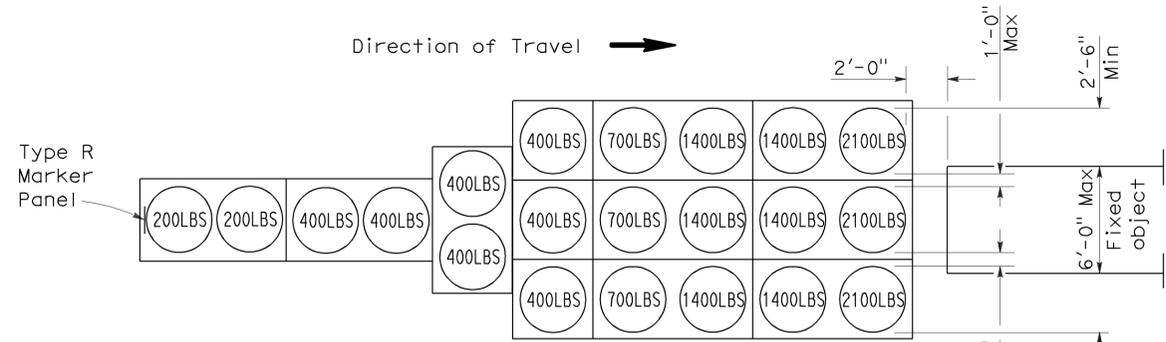
ARRAY 'TU17'

Approach speed less than 45 mph



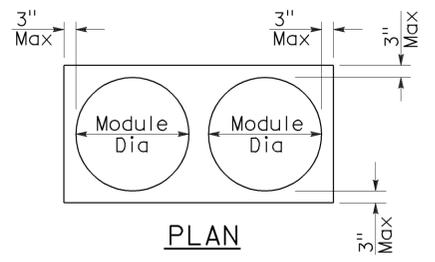
ARRAY 'TU11'

Approach speed less than 45 mph

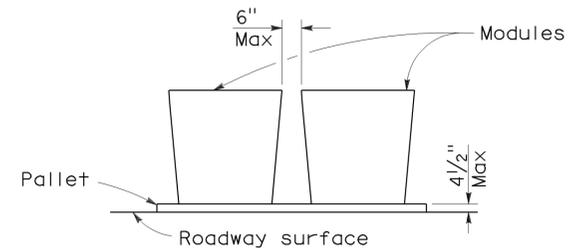


ARRAY 'TU21'

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

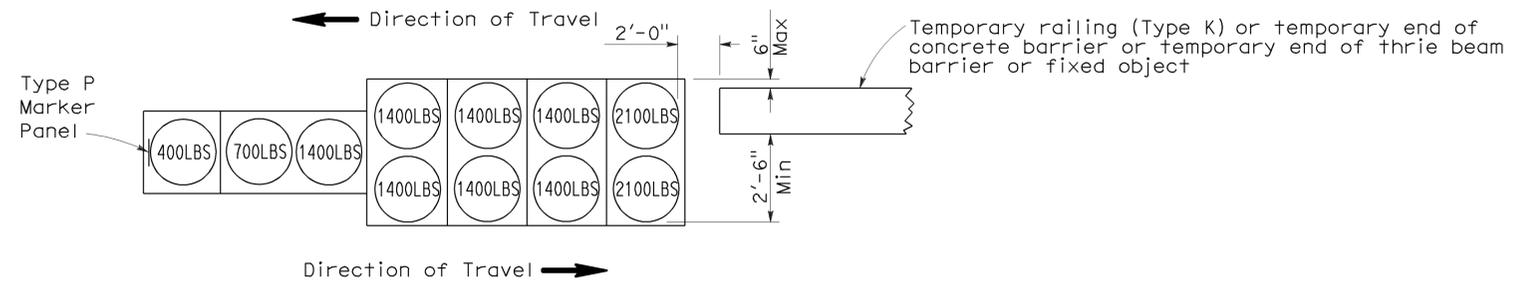
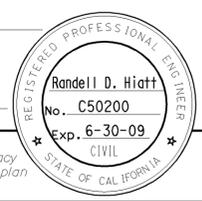
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	27	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

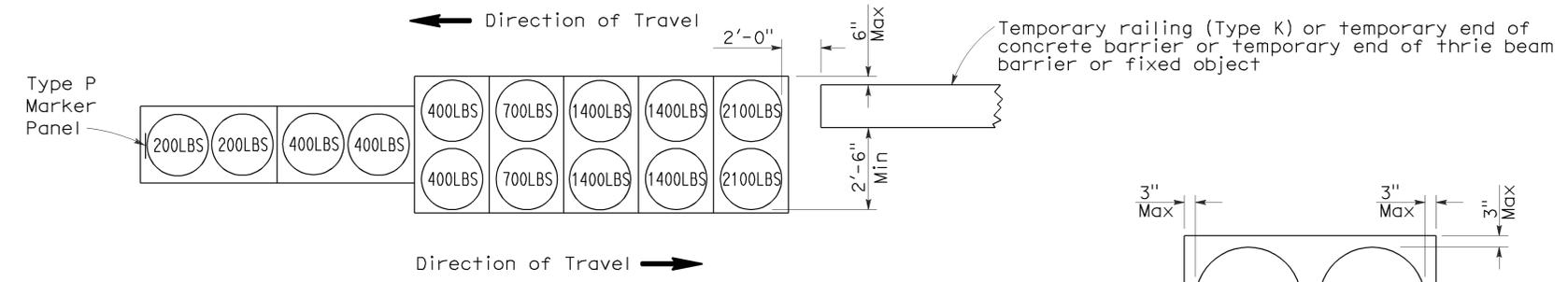
June 6, 2008
PLANS APPROVAL DATE

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.

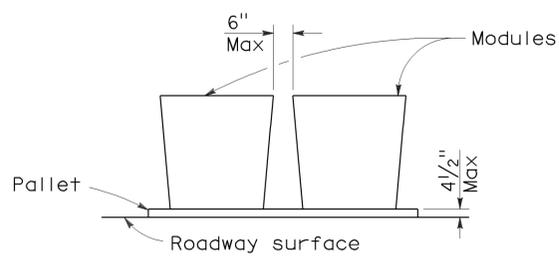
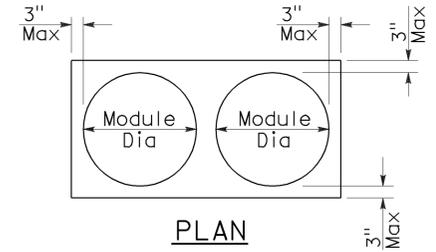
To accompany plans dated 5-2-11



ARRAY 'TB11'
Approach speed less than 45 mph



ARRAY 'TB14'
Approach speed 45 mph or more



CRASH CUSHION PALLET DETAIL
See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

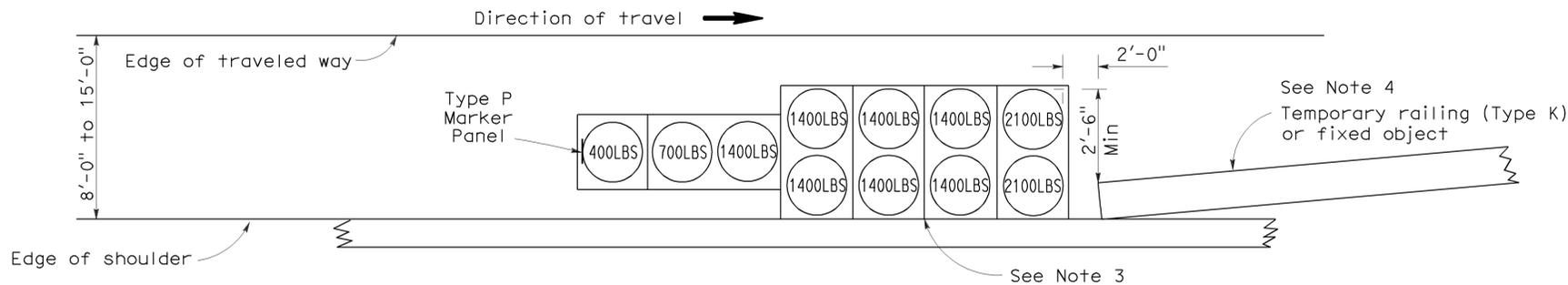
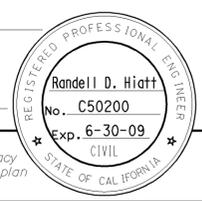
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	28	30

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

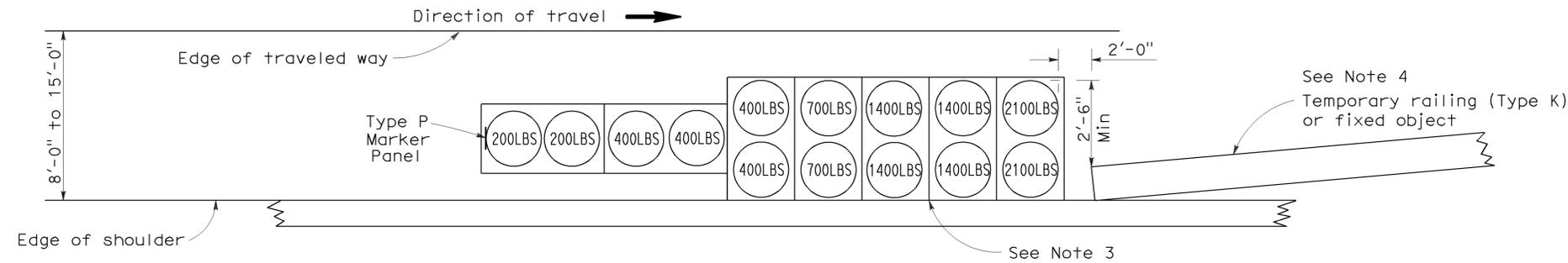
June 6, 2008
PLANS APPROVAL DATE

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 5-2-11



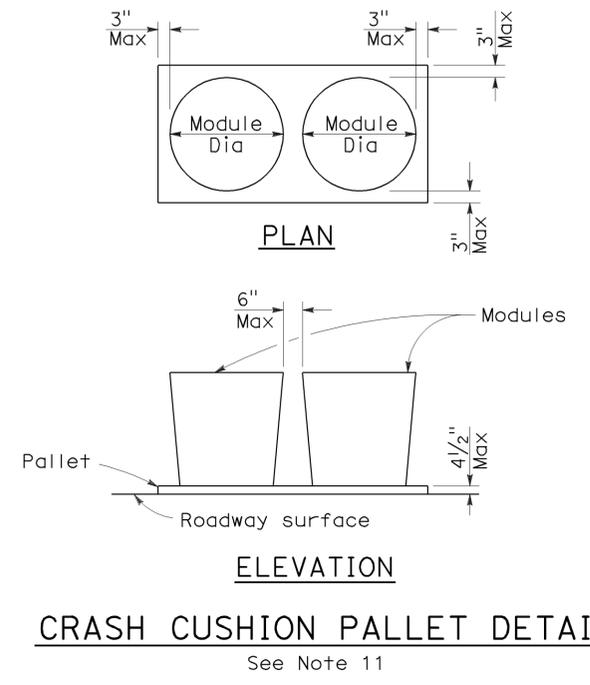
ARRAY 'TS11'
Approach speed less than 45 mph
See Note 9



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

NOTES:

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



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.

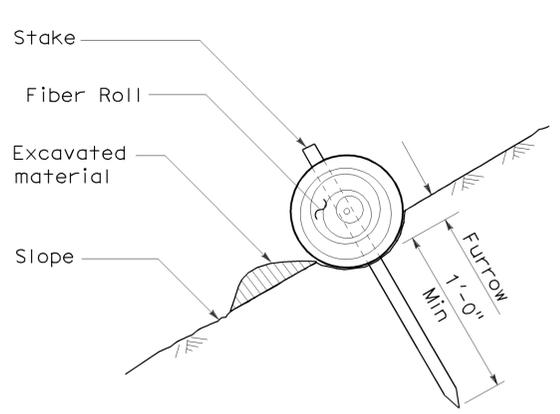
REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

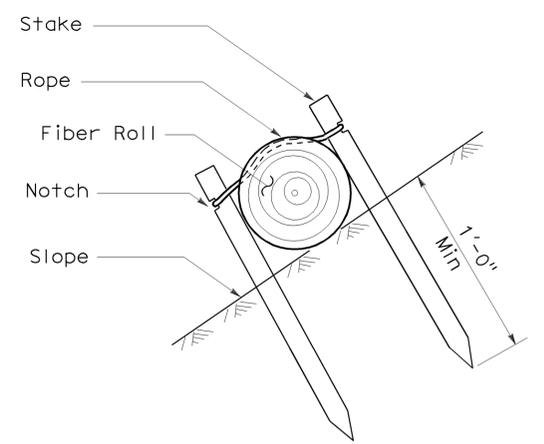
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
01	Men	128	31.0/50.9	30	30

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.

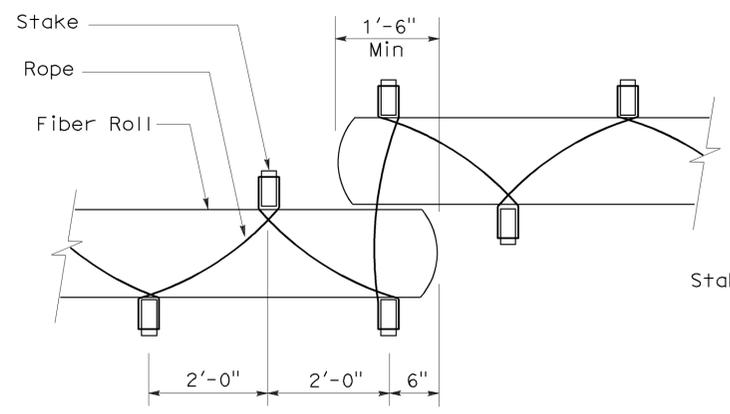
To accompany plans dated 5-2-11



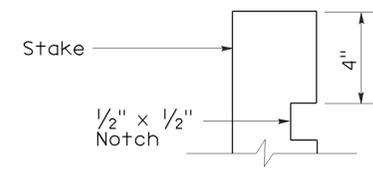
SECTION
TEMPORARY FIBER ROLL (TYPE 1)



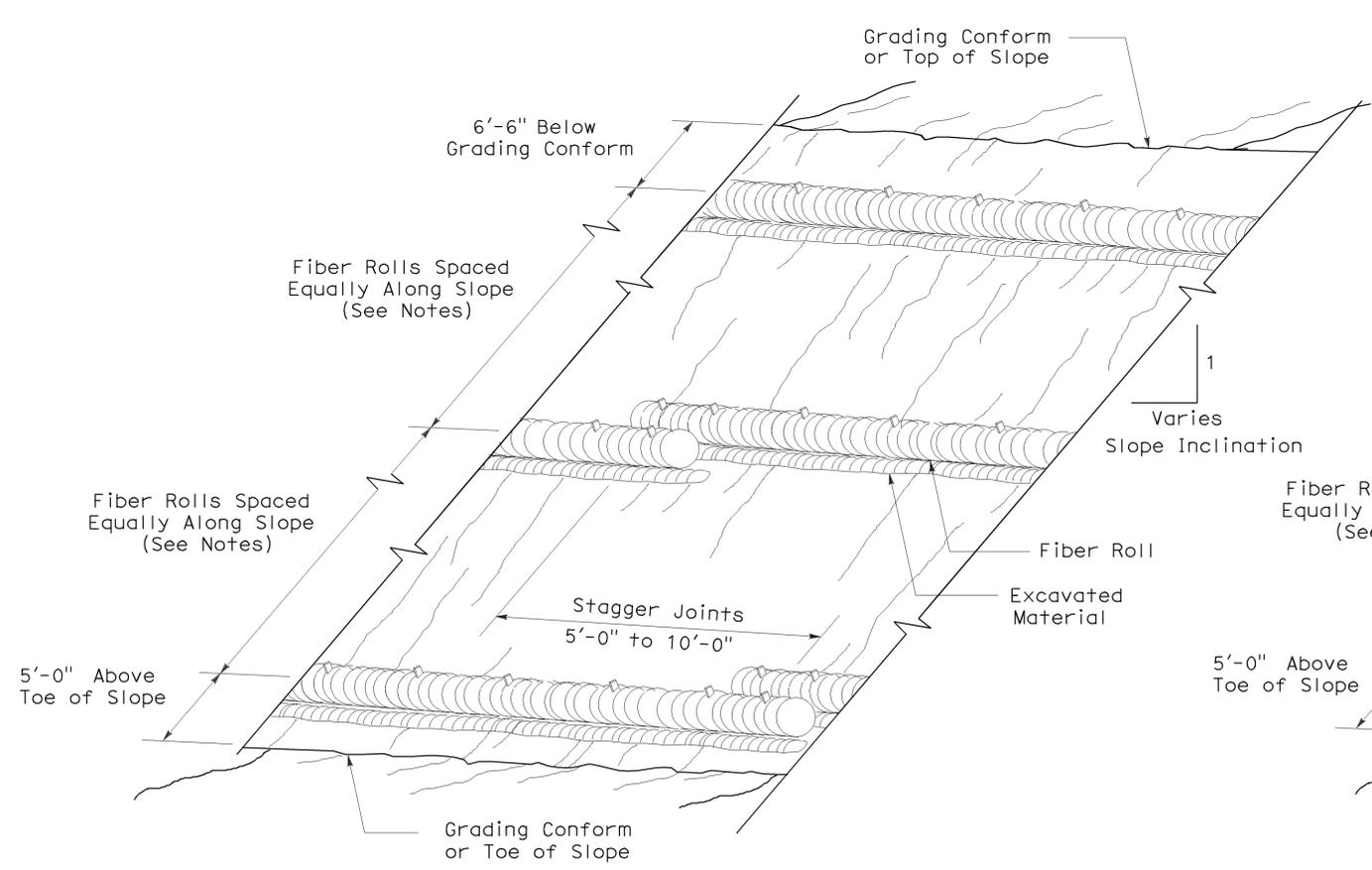
SECTION
TEMPORARY FIBER ROLL (TYPE 2)



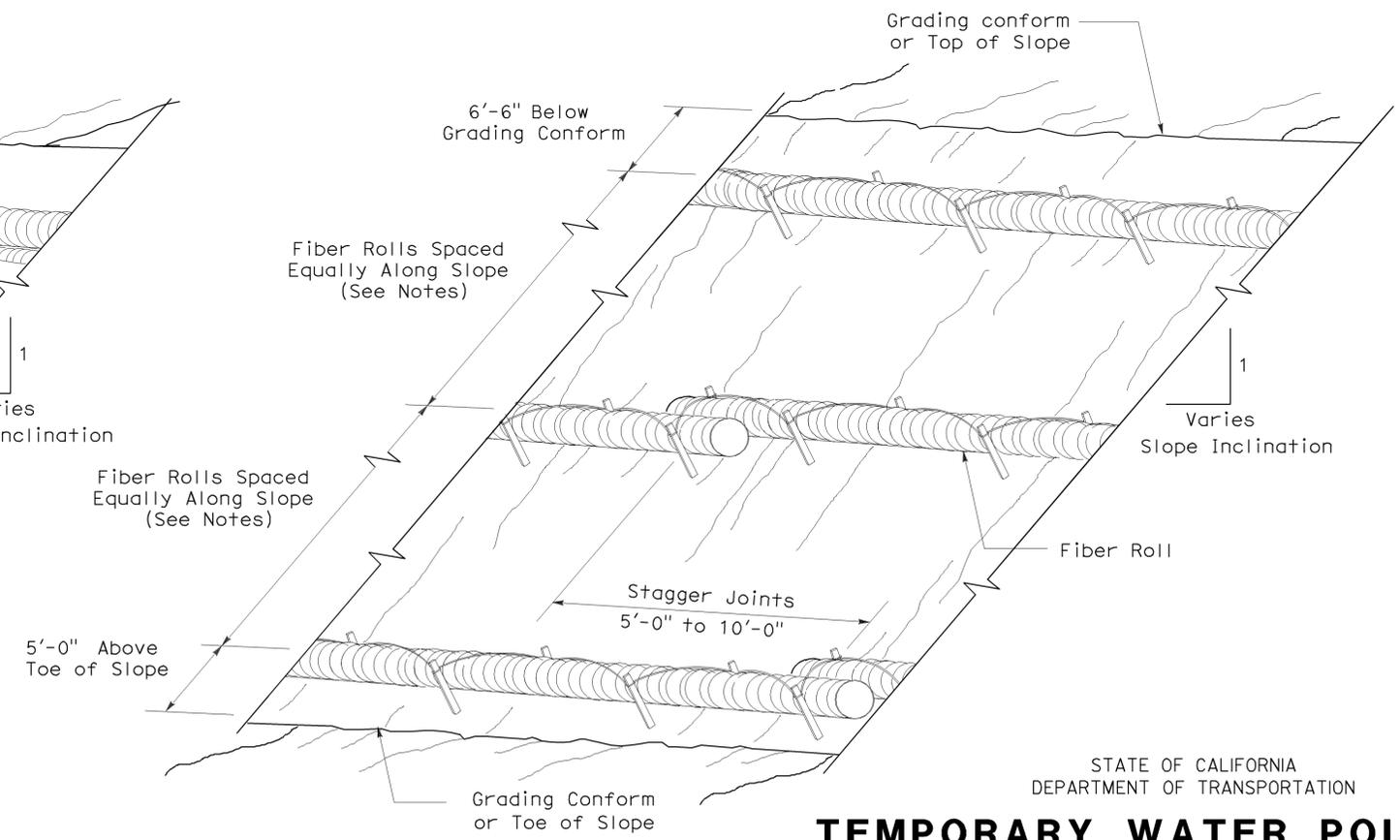
PLAN
ELEVATION
STAKE NOTCH DETAIL



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



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 1)



PERSPECTIVE
TEMPORARY FIBER ROLL (TYPE 2)

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TEMPORARY WATER POLLUTION CONTROL DETAILS (TEMPORARY FIBER ROLL)

NO SCALE

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

REVISED STANDARD PLAN RSP T56

232

2006 REVISED STANDARD PLAN RSP T56