Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	4	18.5/28.9	1	8

INDEX OF PLANS

SHEET No.	DESCRITPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3	CONSTRUCTION AREA SIGNS
4	SUMMARY OF QUANTITIES
5-8	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

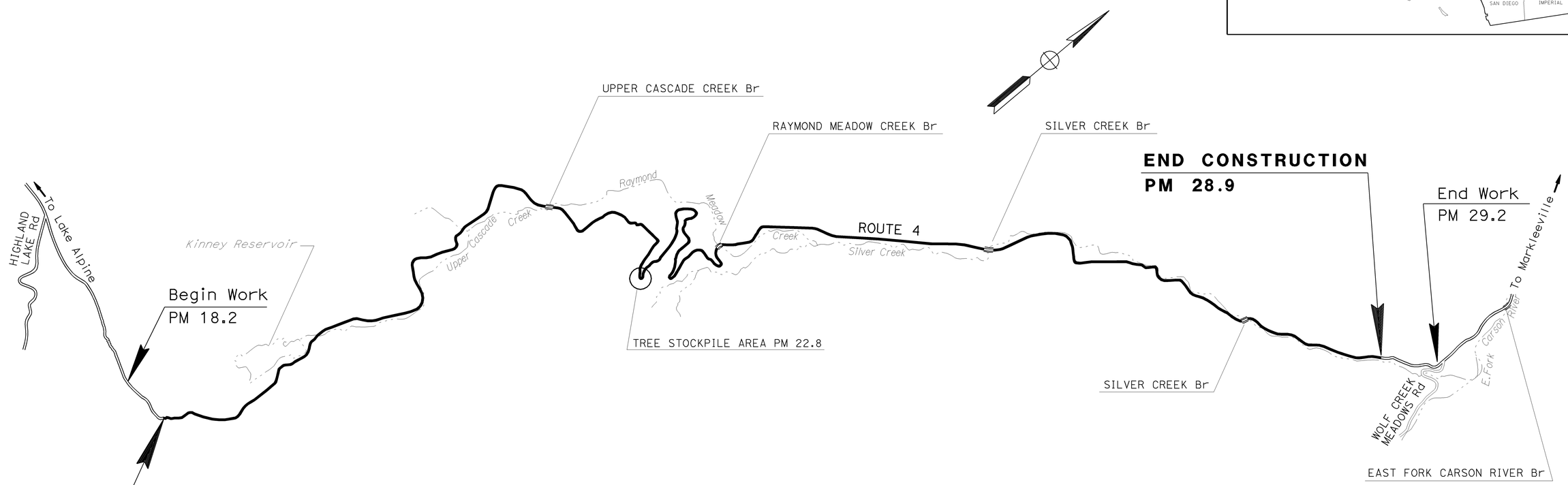
PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN ALPINE COUNTY
ABOUT 14.6 MILES EAST OF LAKE ALPINE
FROM 1.3 MILES EAST OF HIGHLAND LAKE ROAD
TO 0.3 MILE WEST OF WOLF CREEK MEADOWS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATION MAP



NO SCALE

PROJECT MANAGER ALVIN MANGINDIN

DESIGN ENGINEER ALVIN MANGINDIN

Rhodel De Claro 1/25/10
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

February 8, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RHODEL DE CLARO
No. 74058
Exp. 06/30/11
CIVIL
STATE OF CALIFORNIA

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

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

CONTRACT No. **10-0S5904**

LAST REVISION 00-00-00 DATE PLOTTED => 10-FEB-2010 TIME PLOTTED => 13:32

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	4	18.5/28.9	2	8

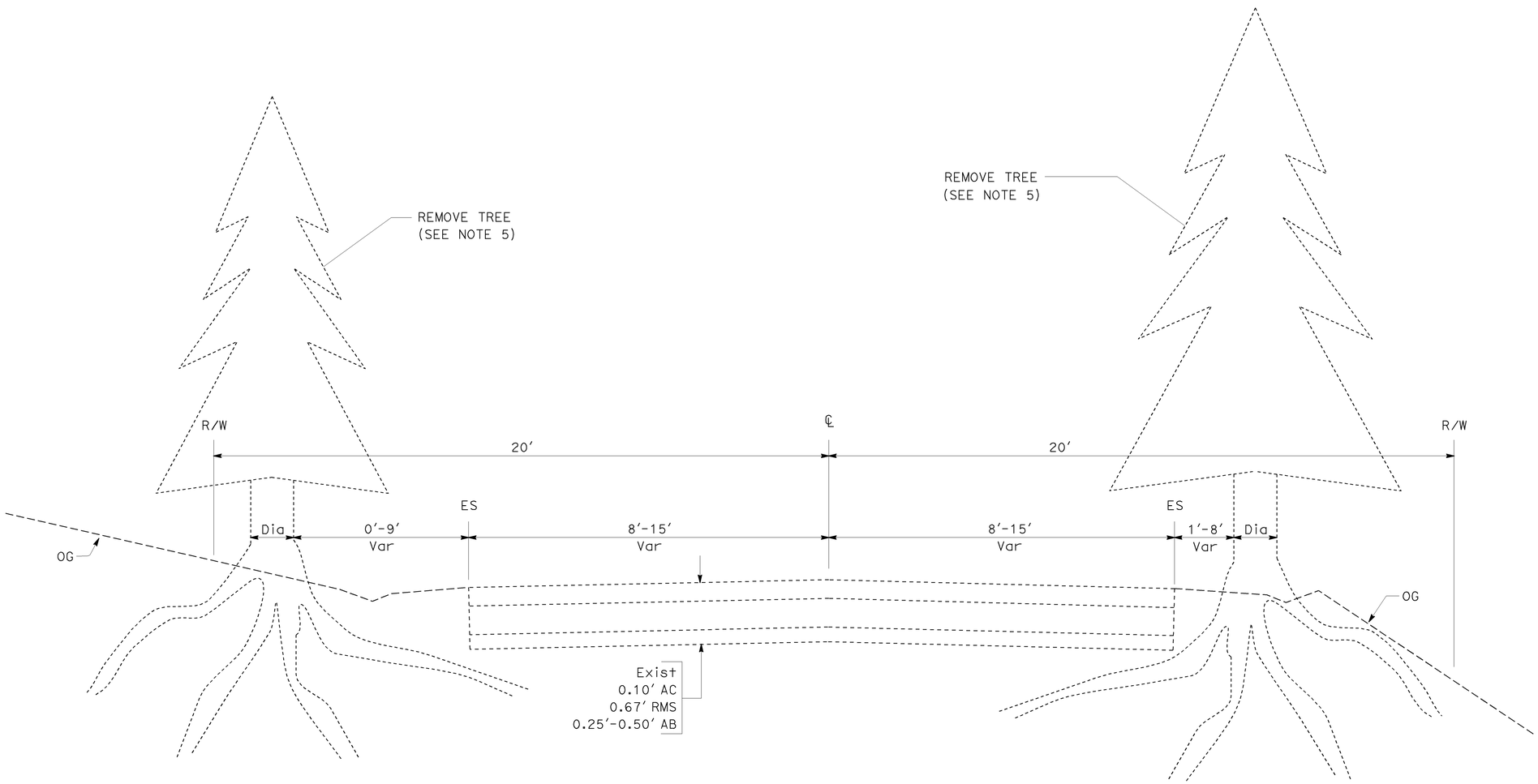
Rhodel DeClaro 1/25/10
REGISTERED CIVIL ENGINEER DATE

2/8/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RHODEL DE CLARO
No. 74058
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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

NOTES:
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
5. FOR TREE DIAMETER SEE SUMMARY OF QUANTITIES.



PM 18.5 TO PM 28.9

ROUTE 4

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A. ALICEA II
CHECKED BY: RHODEL DE CLARO
REVISED BY: RDC
DATE REVISED: 1/25/10

LAST REVISION 00-00-00
DATE PLOTTED => 10-FEB-2010
TIME PLOTTED => 13:34

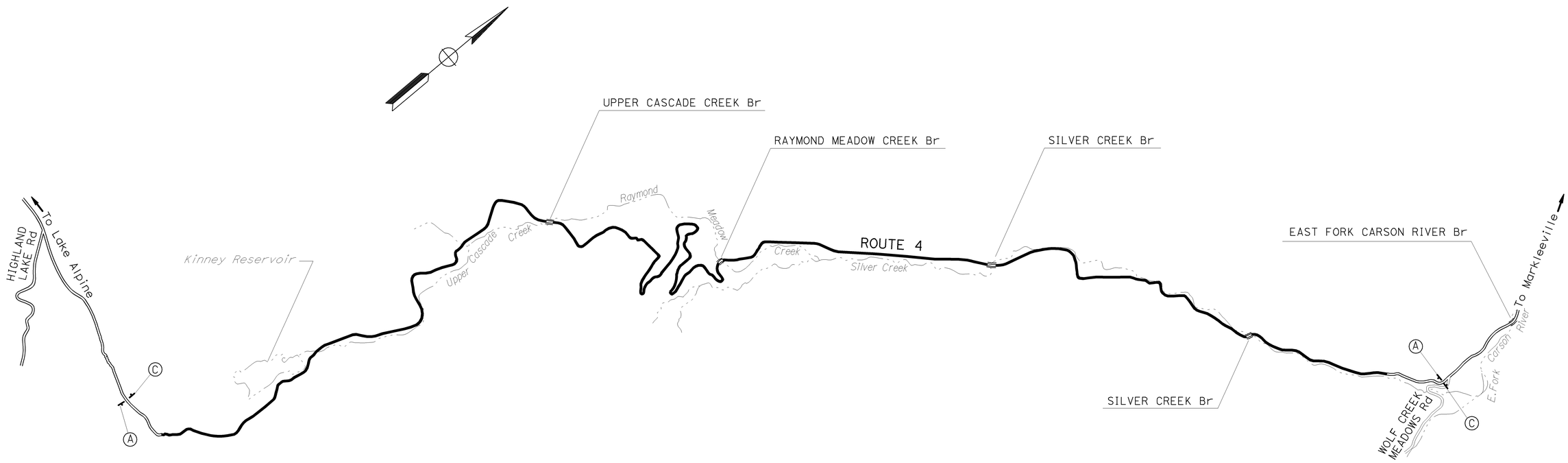
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	4	18.5/28.9	3	8

Rhodel DeClaro 1/25/10
REGISTERED CIVIL ENGINEER DATE

2/8/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
RHODEL DE CLARO
No. 74058
Exp. 6/30/11
CIVIL
STATE OF CALIFORNIA

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



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	LOCATION	TYPE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	ROUTE 4 FEBT	G20-1	36" X 18"	1 - 4" x 4"	1	ROAD CONSTRUCTION NEXT 11 MILES
C	ROUTE 4 FWBT	G20-2	36" X 18"	1 - 4" x 4"	1	END ROAD WORK
A	ROUTE 4 FWBT	G20-1	36" X 18"	1 - 4" x 4"	1	ROAD CONSTRUCTION NEXT 11 MILES
C	ROUTE 4 FEBT	G20-2	36" X 18"	1 - 4" x 4"	1	END ROAD WORK

NOTE: EXACT SIGN LOCATIONS BE DETERMINED BY THE ENGINEER.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

CALCULATED-DESIGNED BY	JOSE A. ALICEA II
CHECKED BY	RHODEL DE CLARO
REVISED BY	RDC
DATE REVISED	1/25/10
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
MAINTENANCE

LAST REVISION 00-00-00
DATE PLOTTED => 10-FEB-2010
TIME PLOTTED => 13:35

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	Alp	4	18.5/28.9	4	8

Rhodel DeClaro 1/25/10
REGISTERED CIVIL ENGINEER DATE

2/8/10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER RHODEL DE CLARO No. 74058 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

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

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. EACH TREE IS DESIGNATED WITH A SPECIFIC NUMBER.
3. LOCATION OF TEMPORARY FIBER ROLLS IS APPROXIMATE, EXACT LOCATION TO BE DETERMINED BY THE ENGINEER.

REMOVE TREE

TREE No.	PM	SIDE	DISTANCE FROM EP (N)	DIAMETER (N)	TYPE	EA
1	18.51	RIGHT	1′	42"	LODGEPOLE PINE	1
2	19.57	RIGHT	3′	48"	SUGAR PINE	1
3	20.47	LEFT	6′	8"	LODGEPOLE PINE	1
4	20.47	LEFT	8′	4"	LODGEPOLE PINE	1
5	20.48	LEFT	6′	12"	LODGEPOLE PINE	1
6	20.66	RIGHT	2′	8"	LODGEPOLE PINE	1
7	20.66	RIGHT	2′	8"	LODGEPOLE PINE	1
8	20.87	RIGHT	2′	28"	WHITE FIR	1
9	20.91	RIGHT	3′	28"	LODGEPOLE PINE	1
10	21.01	LEFT	0′	18"	LODGEPOLE PINE	1
11	21.01	LEFT	3′	24"	LODGEPOLE PINE	1
12	21.03	LEFT	3′	48"	LODGEPOLE PINE	1
13	21.08	LEFT	2′	24"	LODGEPOLE PINE	1
14	21.10	RIGHT	2′	18"	LODGEPOLE PINE	1
15	21.23	LEFT	2′	18"	LODGEPOLE PINE	1
16	21.23	LEFT	2′	12"	LODGEPOLE PINE	1
17	21.23	RIGHT	7′	24"	ASPEN	1
21	22.66	LEFT	2′	36"	WHITE FIR	1
22	22.86	LEFT	3′	30"	WESTERN JUNIPER	1
23	22.86	RIGHT	2′	18"	JEFFREY PINE	1
24	22.89	RIGHT	3′	30"	WHITE FIR	1
25	23.24	RIGHT	5′	24"	ASPEN	1
26	23.24	RIGHT	5′	8"	ASPEN	1
27	23.26	RIGHT	5′	3"	RED FIR	1
28	23.26	RIGHT	3′	8"	WESTERN JUNIPER	1
29	23.26	RIGHT	3′	8"	WESTERN JUNIPER	1
30	23.26	RIGHT	4′	30"	JEFFREY PINE	1
31	23.27	RIGHT	4′	6"	CANYON LIVE OAK	1
32	23.28	RIGHT	8′	18"	WESTERN JUNIPER	1
33	23.29	RIGHT	8′	12"	WESTERN JUNIPER	1
34	23.30	RIGHT	8′	12"	ASPEN	1
35	23.35	LEFT	3′	12"	JEFFREY PINE	1
36	23.35	LEFT	3′	30"	JEFFREY PINE	1
37	23.36	RIGHT	1′	32"	JEFFREY PINE	1
SUBTOTAL						34

REMOVE TREE

TREE No.	PM	SIDE	DISTANCE FROM EP (N)	DIAMETER (N)	TYPE	EA
38	23.37	LEFT	2′	12"	JEFFREY PINE	1
39	23.60	LEFT	3′	24"	WHITE FIR	1
40	23.77	LEFT	1′	36"	WHITE FIR	1
41	23.95	LEFT	4′	45"	JEFFREY PINE	1
42	24.06	RIGHT	4′	30"	WHITE FIR	1
43	24.06	RIGHT	4′	36"	WHITE FIR	1
44	24.06	RIGHT	7′	30"	WHITE FIR	1
45	24.07	RIGHT	3′	30"	WHITE FIR	1
46	24.07	RIGHT	5′	30"	WHITE FIR	1
47	24.07	RIGHT	3′	30"	WHITE FIR	1
48	24.09	LEFT	3′	72"	STUMP	1
49	24.11	LEFT	8′	30"	WHITE FIR	1
50	24.11	LEFT	8′	30"	WHITE FIR	1
51	24.11	LEFT	8′	24"	WHITE FIR	1
52	24.56	LEFT	5′	30"	JEFFREY PINE	1
53	24.63	RIGHT	3′	28"	JEFFREY PINE	1
54	24.65	RIGHT	3′	30"	JEFFREY PINE	1
55	24.76	RIGHT	4′	18"	WHITE FIR	1
56	24.77	RIGHT	5′	30"	WHITE FIR	1
57	24.78	RIGHT	4′	16"	JEFFREY PINE	1
58	24.84	LEFT	5′	18"	JEFFREY PINE	1
59	24.85	RIGHT	4′	36"	JEFFREY PINE	1
70	27.28	LEFT	2′	24"	JEFFREY PINE	1
71	27.28	LEFT	2′	30"	JEFFREY PINE	1
72	27.28	LEFT	4′	12"	JEFFREY PINE	1
73	27.28	LEFT	4′	20"	JEFFREY PINE	1
74	27.28	LEFT	3′	8"	JEFFREY PINE	1
76	27.46	LEFT	4′	18"	JEFFREY PINE	1
77	27.56	LEFT	6′	18"	WHITE FIR	1
97	28.54	LEFT	5′	18"	JEFFREY PINE	1
98	28.55	LEFT	6′	12"	JEFFREY PINE	1
99	28.55	LEFT	7′	18"	JEFFREY PINE	1
100	28.58	LEFT	8′	12"	JEFFREY PINE	1
101	28.59	LEFT	7′	36"	PONDEROSA PINE	1
SUBTOTAL						34
TOTAL						68

TEMPORARY FIBER ROLLS

LOCATION	LF
PM 22.8	200

SUMMARY OF QUANTITIES
Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE A. ALICEA II
CHECKED BY: RHODEL DE CLARO
REVISED BY: RDC
DATE REVISED: 10/25/10

LAST REVISION 00-00-00
DATE PLOTTED => 10-FEB-2010
TIME PLOTTED => 13:42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp	4	18.5/28.9	5	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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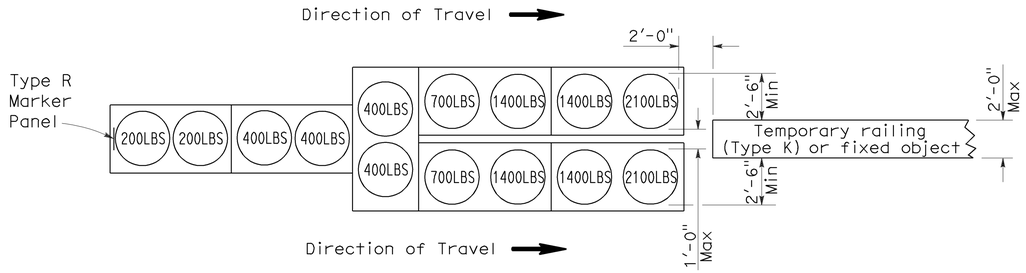
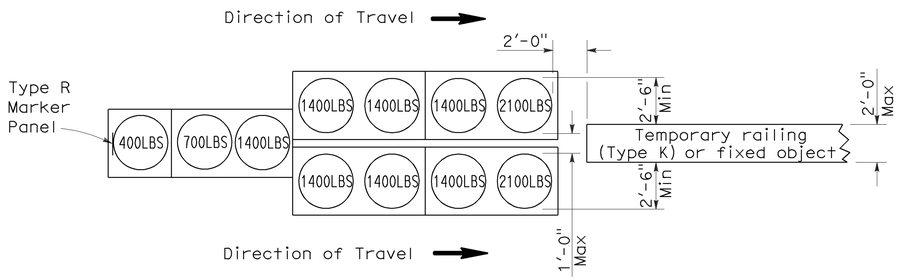
To accompany plans dated 2/8/10



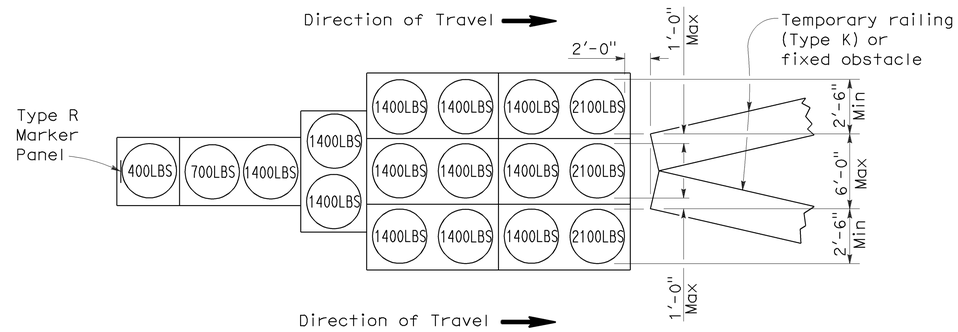
ARRAY 'TU14'

Approach speed 45 mph or more



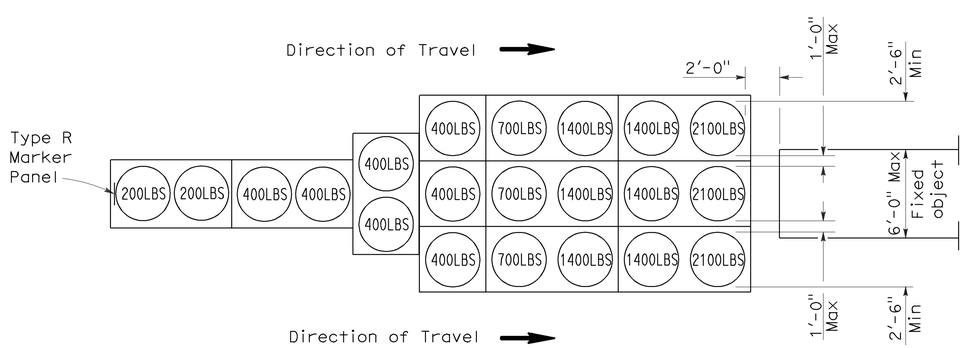
ARRAY 'TU11'

Approach speed less than 45 mph



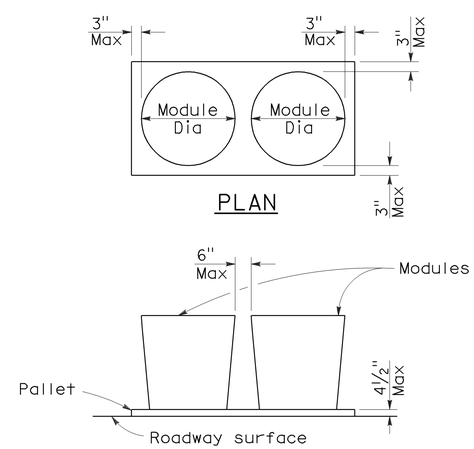
ARRAY 'TU17'

Approach speed less than 45 mph



ARRAY 'TU21'

Approach speed 45 mph or more



PLAN

ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp	4	18.5/28.9	6	8

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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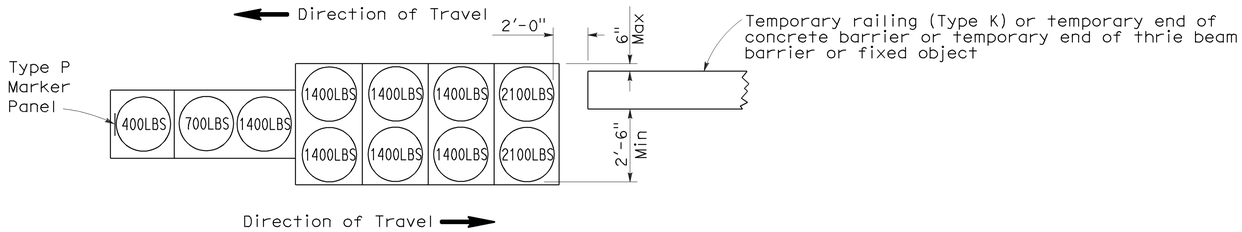
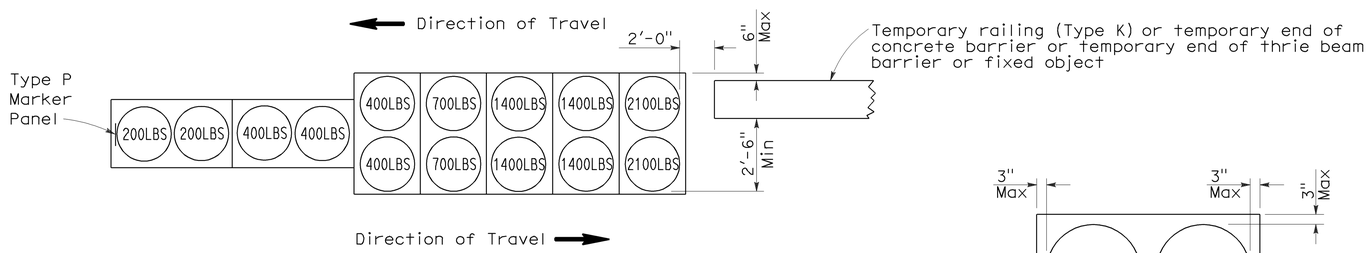
To accompany plans dated 2/8/10



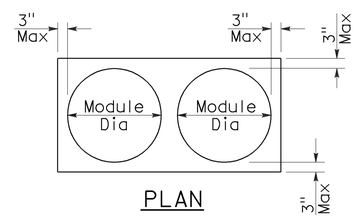
ARRAY 'TB11'

Approach speed less than 45 mph

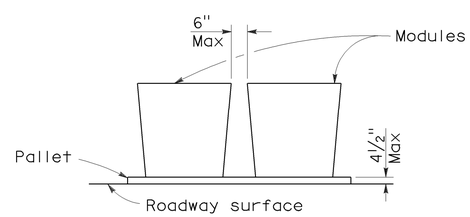


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp	4	18.5/28.9	7	8

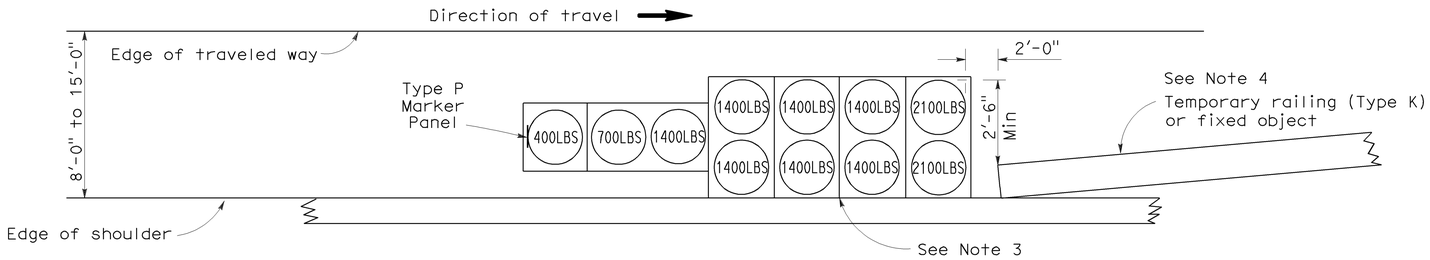
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

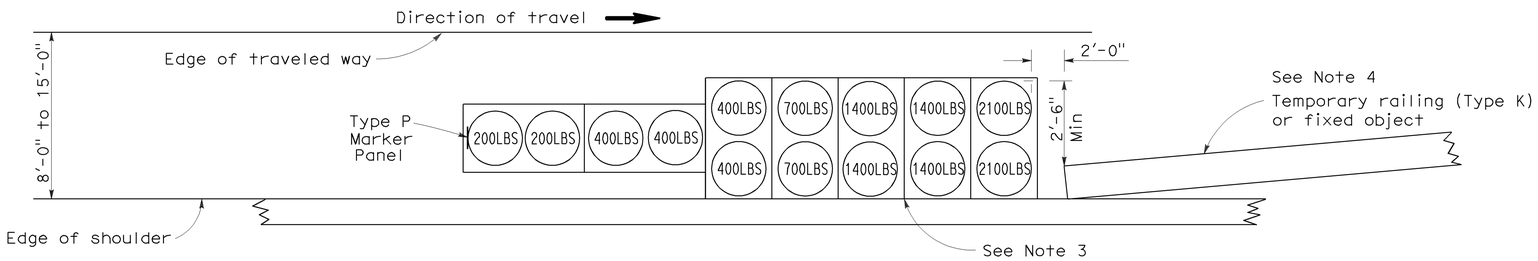
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2/8/10



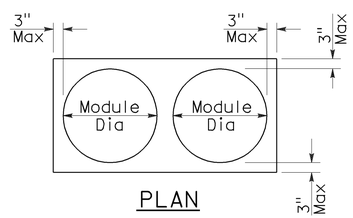
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

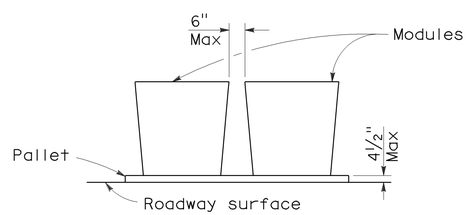


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
10	Alp	4	18.5/28.9	8	8

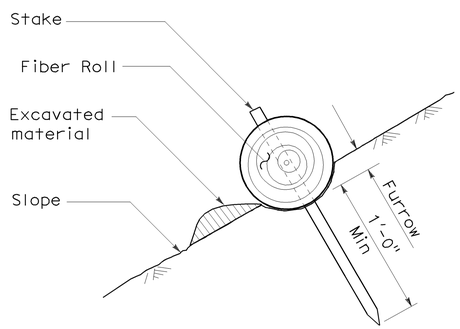
Robert B Schott
LICENSED LANDSCAPE ARCHITECT

April 3, 2009
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
Robert B. Schott 3695
Signature
11-30-10
Renewal Date
2-25-09
Date
STATE OF CALIFORNIA

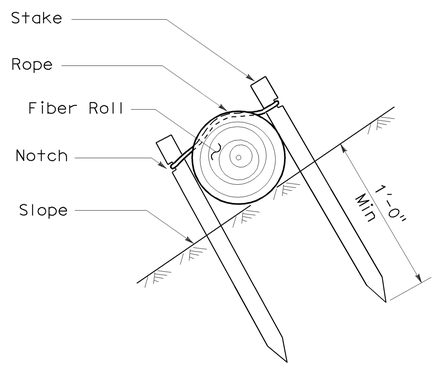
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

To accompany plans dated 2/8/10

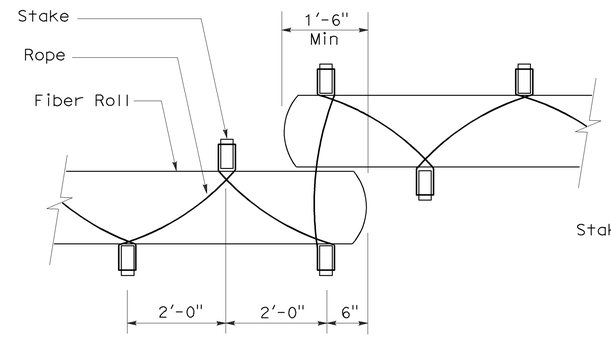


SECTION

TEMPORARY FIBER ROLL (TYPE 1)

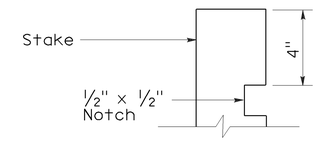


SECTION



PLAN

TEMPORARY FIBER ROLL (TYPE 2)

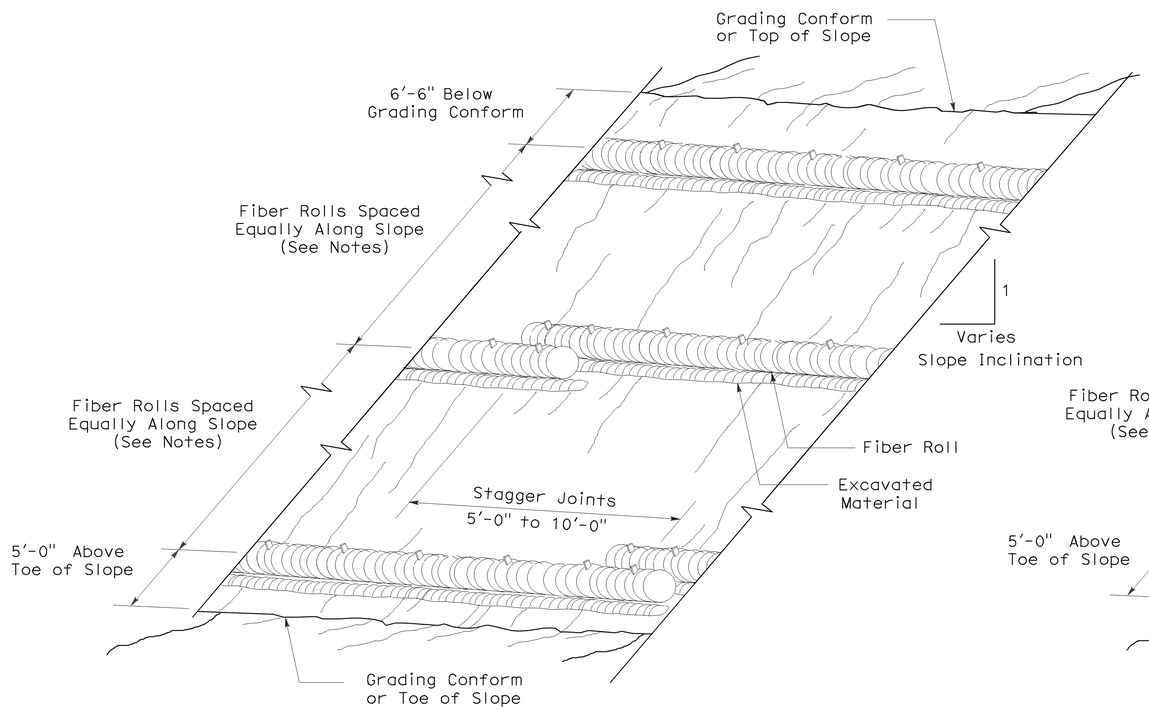


ELEVATION

STAKE NOTCH DETAIL

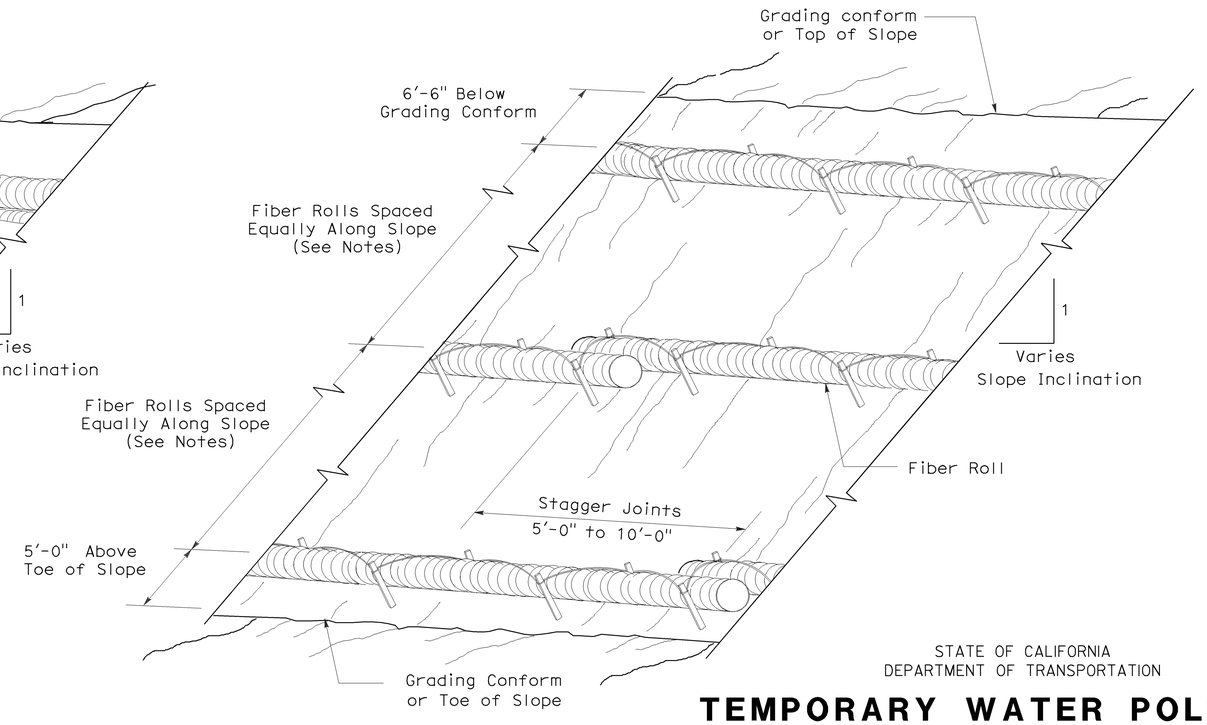
NOTES:

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

2006 REVISED STANDARD PLAN RSP T56

2-23-09