INDEX OF PLANS

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2	TYPICAL CROSS SECTIONS
3-5	CONSTRUCTION DETAILS
6	TEMPORARY WATER POLLUTION CONTROL DETAILS
7	TEMPORARY WATER POLLUTION CONTROL QUANTITIES
8	CONSTRUCTION AREA SIGNS
9	SUMMARY OF QUANTITIES
10-12	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

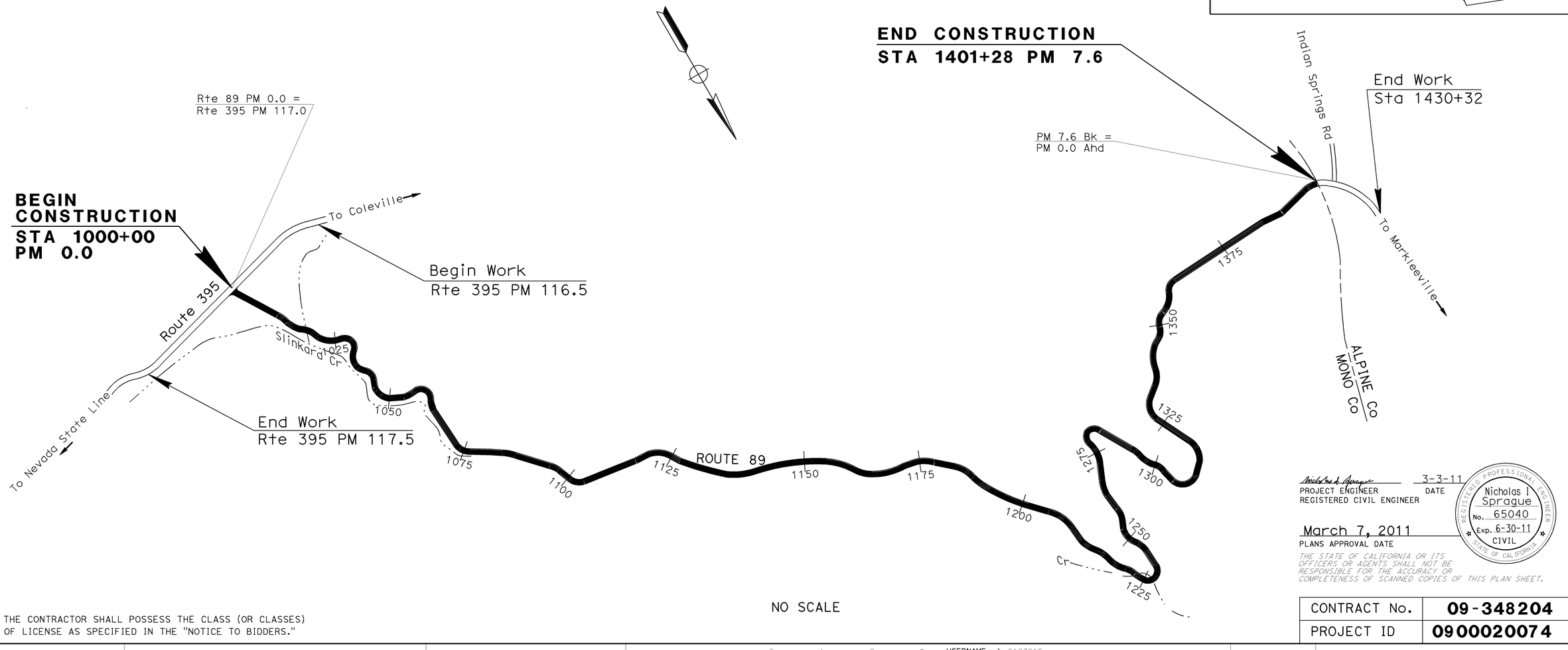
STATE HIGHWAY

IN MONO COUNTY NEAR COLEVILLE
FROM ROUTE 395
TO ALPINE COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	1	12

LOCATION MAP



NO SCALE

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

3-3-11
PROJECT ENGINEER — DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
Nicholas I Sprague
No. 65040
Exp. 6-30-11
CIVIL
STATE OF CALIFORNIA

March 7, 2011
PLANS APPROVAL DATE

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

CONTRACT No.	09-348204
PROJECT ID	0900020074

LAST REVISION 03-07-11
DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

PROJECT MANAGER: JOHN FOX
DESIGN ENGINEER: JOHN FOX

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	2	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

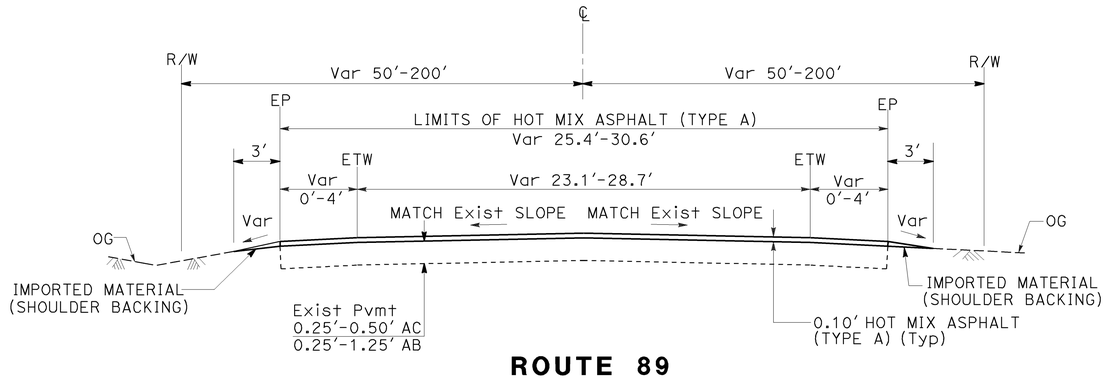
3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Nicholas I. Sprague
No. 65040
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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
4. PROTECT TRAFFIC LOOPS NEAR STA 1005+78 (PM 0.10) Rt.



ROUTE 89

PM 0.0/7.6
STA 1000+00 TO STA 1401+28

TYPICAL CROSS SECTIONS

NO SCALE **X-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: JOHN FOX

	CALCULATED-DESIGNED BY	REVISED BY	DATE REVISED
	NICHOLAS SPRAGUE	NS	09-15-10
	MONTASHEEMA AFROZE	NS	12-18-10
	CHECKED BY	NS	01-04-11

LAST REVISION DATE PLOTTED => 09-MAR-2011
03-04-11 TIME PLOTTED => 15:09

BORDER LAST REVISED 7/2/2010 | USERNAME => S123915 | DGN FILE => 934820ca001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2480 | PROJECT NUMBER & PHASE 09000200741

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	3	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

Nicholas I. Sprague No. 65040 Exp. 6-30-11 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

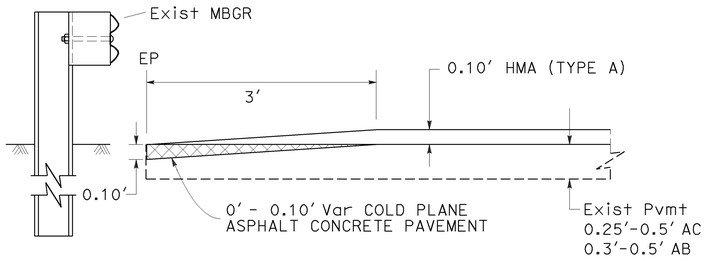
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

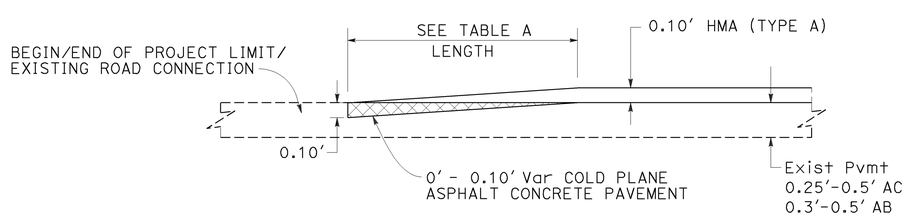
1. PROTECT TRAFFIC LOOPS NEAR Sta 1005+78 Rt.

LEGEND:

- LIMITS OF COLD PLANE AC AND HMA
- HMA
- MINOR HMA



COLD PLANE ASPHALT CONCRETE PAVEMENT AT MBGR

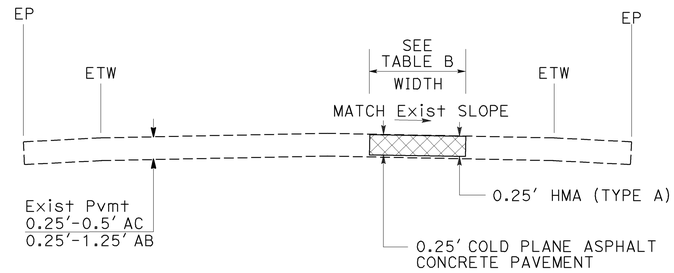


COLD PLANE ASPHALT CONCRETE PAVEMENT AT CONFORM (TYPICAL)

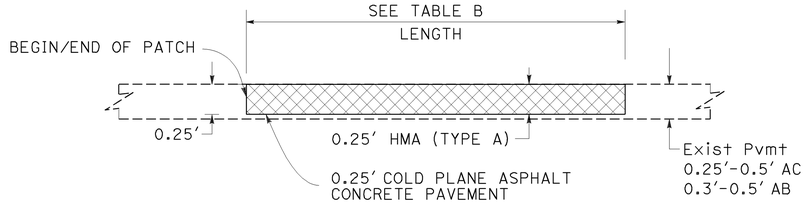
TABLE A
COLD PLANE ASPHALT CONCRETE PAVEMENT

PM	STA	DESCRIPTION	LENGTH	WIDTH	DEPTH	NOTES
0.0	1000+00	CONFORM GRIND	25'	135'	0.10'	BEGIN CONSTRUCTION
0.03	1001+58	CONFORM TAPER	30'	3'	0.10'	ENTRANCE TO FIRE STATION, Rt
0.05	1002+35	CONFORM TAPER	50'	3'	0.10'	ENTRANCE TO FIRE STATION, Rt
0.08	1004+00	CONFORM TAPER	130'	3'	0.10'	PAVED AREA,TRAFFIC LOOP, Rt
3.27	1172+66	CONFORM TAPER	64'	3'	0.10'	SLINKARD VALLEY ROAD, Lt
5.60	1295+24	CONFORM TAPER	1145'	3'	0.10'	METAL BEAM GUARD RAILING, Lt
7.60	1401+28	CONFORM GRIND	25'	29'	0.10'	END CONSTRUCTION

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS



COLD PLANE ASPHALT CONCRETE PAVEMENT AND HMA AT DIGOUT (CROSS SECTION)



COLD PLANE ASPHALT CONCRETE PAVEMENT AND HMA AT DIGOUT (PROFILE)

TABLE B
COLD PLANE ASPHALT CONCRETE PAVEMENT

PM	STA	DESCRIPTION	LENGTH	WIDTH	DEPTH	NOTES
1.79	1094+24	PATCH	91'	9'	0.25'	RIGHT LANE
1.81	1095+30	PATCH	25'	4.5'	0.25'	RIGHT LANE
1.82	1095+98	PATCH	4'	4.5'	0.25'	RIGHT LANE
4.68	1247+25	PATCH	51'	4.5'	0.25'	LEFT LANE
4.72	1249+40	PATCH	50'	4.5'	0.25'	LEFT LANE
4.74	1250+10	PATCH	62'	4.5'	0.25'	RIGHT LANE
5.22	1275+68	PATCH	90'	4.5'	0.25'	RIGHT LANE
5.33	1281+61	SHOULDER PATCH	100'	4.5'	0.25'	RIGHT LANE, SHOULDER
5.94	1313+72	PATCH	251'	4.5'	0.25'	RIGHT LANE
6.23	1328+77	PATCH	129'	4.5'	0.25'	LEFT LANE
6.89	1363+96	PATCH	107'	4.5'	0.25'	LEFT LANE
7.03	1371+21	PATCH	150'	4.5'	0.25'	LEFT LANE

CONSTRUCTION DETAILS
NO SCALE C-1

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
MONTASHEEMA AFROZE	NICHOLAS SPRAGUE	MA	09-28-10
		NS	12-18-10
		NS	01-19-11

FUNCTIONAL SUPERVISOR: JOHN FOX

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION 03-03-11 | DATE PLOTTED => 09-MAR-2011 | TIME PLOTTED => 15:09

BORDER LAST REVISED 7/2/2010 | USERNAME => S123915 | DGN FILE => 934820ga001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2480 | PROJECT NUMBER & PHASE 09000200741

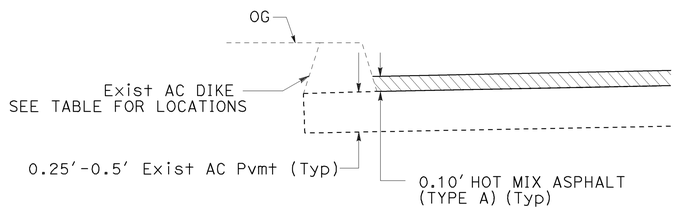
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	4	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

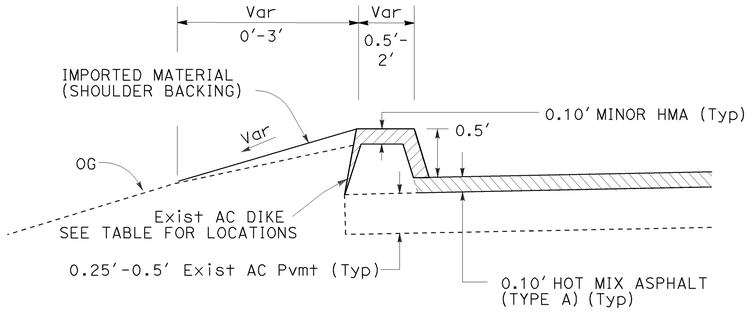
3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Nicholas I. Sprague — No. 65040 — 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.



PAVE INTO EXISTING AC DIKE DETAIL (TYPICAL)

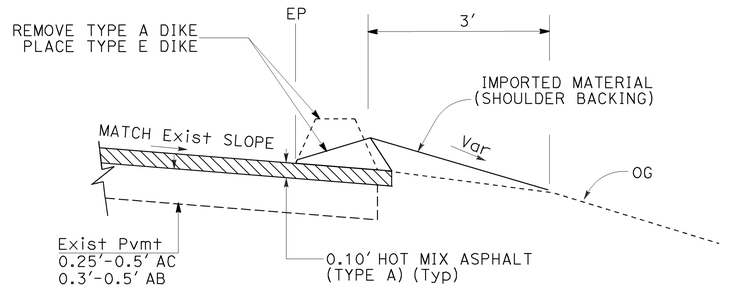


CAP AC DIKE (TYPICAL)

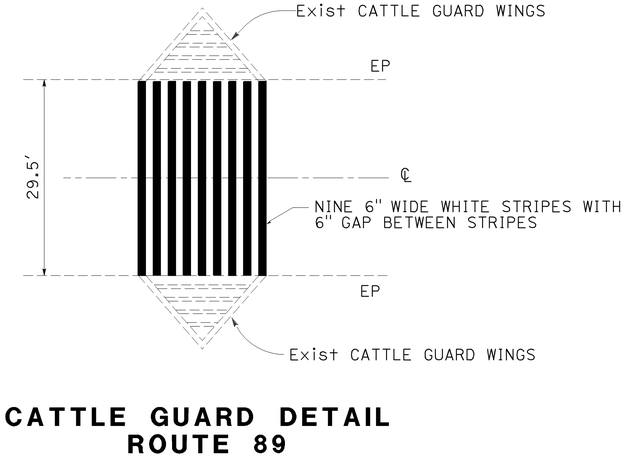
EXISTING AC DIKE

PM	STATION TO STATION		L†	R†	CAP AC DIKE	PAVE INTO EXISTING AC DIKE
	FROM	TO				
0.39-0.41	1020+42	1021+39	X		X	
0.45-0.55	1023+82	1029+21	X		X	
2.00-2.01	1105+60	1106+30	X			X
5.29-5.33	1279+29	1281+61	X			X

AC DIKE PAVING DETAIL (TYPICAL)
NO REMOVAL OF EXISTING DIKE

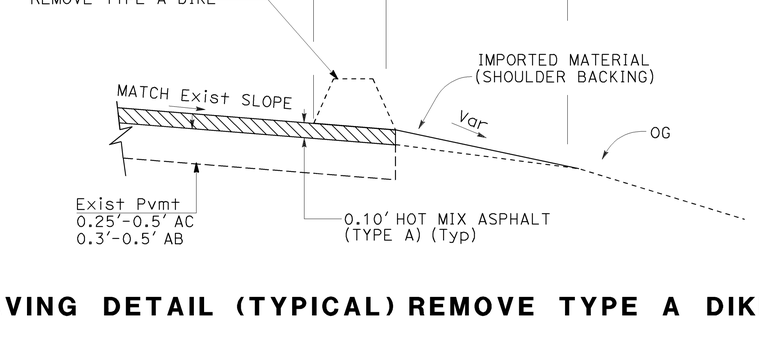


HMA DIKE PAVING DETAIL (TYPICAL)
REMOVE TYPE A AND PLACE TYPE E DIKE



CATTLE GUARD DETAIL
ROUTE 89

PM 1.23; STA 1064+67
PM 1.97; STA 1104+02
PM 6.24; STA 1329+47



PAVING DETAIL (TYPICAL) REMOVE TYPE A DIKE

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
NO SCALE **C-2**

REVISED BY	DATE REVISED
NS	01-04-11
NS	12-19-10
MA	09-27-10

CALCULATED-DESIGNED BY: MONTASHEEMA AFROZE
CHECKED BY: NICHOLAS SPRAGUE
FUNCTIONAL SUPERVISOR: JOHN FOX

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION 03-03-11
DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	5	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Nicholas I. Sprague — No. 65040 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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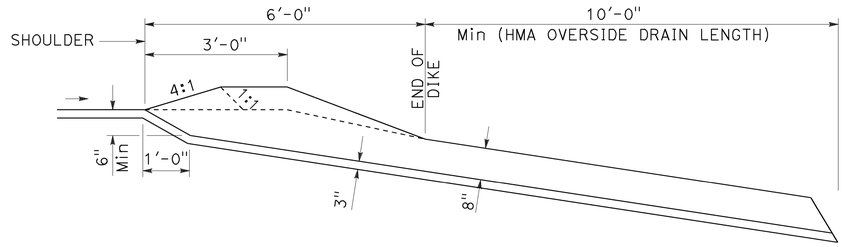
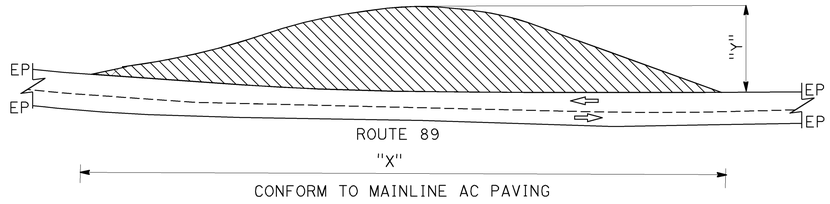
HOT MIX ASPHALT DIKE AND OVERSIDE DRAIN

PM	FROM	TO	L†	R†	REMOVE AC DIKE LF	HMA DIKE TYPE E LF	CAP EXISTING AC DIKE LF (N)	REMOVE AC OVERSIDE DRAIN EA (N)	HMA OVERSIDE DRAIN LENGTH (N)
0.17	1008+90	1012+33	X		343	343			
0.31	1016+46	1018+78	X		232	232			
0.39	1020+42	1021+39	X				97		
0.45	1023+82	1029+21	X				539		
0.55	1029+21	1031+91	X		270	270			
0.71	1037+32	1040+11	X		279	279			
0.98	1051+65	1055+55	X		390	390			
1.13	1059+64	1065+73	X		609	609			
1.67	1088+03	1091+93	X		390			1	
1.85	1097+58	1100+73	X		314				
2.01	1107+17	1108+63	X		146				
2.10	1110+77	1112+60	X		183	183		1	10
2.18	1114+97	1118+79	X		382			1	
2.30	1121+56	1126+23	X		467	467			
2.55	1134+50	1147+35	X		1285			2	
2.87	1151+25	1153+73	X		248	248		1	10
2.92	1153+94		X					1	10
3.11	1164+33		X					1	10
3.18	1167+69	1171+26	X		357	357			
3.27	1172+54	1177+77	X		523			1	10
3.37	1177+77	1180+50	X		273	273			
3.85	1203+37	1207+49	X		412	412			
4.04	1213+07	1216+42	X		335	335		1	10
4.21	1222+03	1224+18	X		215	215			
4.33	1228+40	1232+22		X	382	382		1	10
4.58	1241+91	1244+21		X	230	230			
4.67	1246+58	1249+85		X	327	327			
4.69	1247+43			X				1	10
4.88	1257+51	1266+82		X	931	931		3	10, 10, 10
5.08	1267+99	1274+62	X		663	663		1	10
5.39	1284+32	1287+71	X		339	339			
5.54	1292+39	1295+24	X		285	285			
5.86	1309+25		X					1	10
5.93	1312+86	1318+52		X	566	566		1	10
6.22	1328+34	1331+88		X	354	354			
6.35	1335+13	1338+95		X	382	382		1	10
6.66	1351+50	1352+20		X	70	70			
6.68	1352+82	1360+26	X		744	744			
6.82	1360+96	1381+91		X	2165				
7.30	1385+30	1397+54		X	1224			1	10
TOTAL					16,315	9886	636	20	

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



HMA OVERSIDE DRAIN PAVING DETAIL (TYPICAL)



PAVED TURNOUTS PAVING LIMITS (TYPICAL)

PAVED TURNOUTS

PM	STA	LEFT	RIGHT	"X" (LF)	"Y" (LF)	AREA (SQFT)
4.25	1224+18	X		422	13	4,391
4.63	1244+21		X	237	41.2	6,058
6.69	1352+95		X	686	17.5	10,280

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

CONSTRUCTION DETAILS
NO SCALE **C-3**

REVISED BY	MA	NS
DATE REVISED	09-27-10	01-27-11
CALCULATED-DESIGNED BY	MONTASHEEMA AFROZE	
CHECKED BY	NICHOLAS SPRAGUE	
FUNCTIONAL SUPERVISOR	JOHN FOX	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	6	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

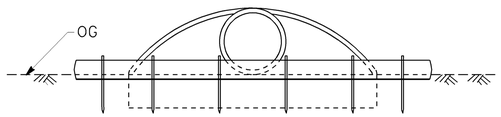
REGISTERED PROFESSIONAL ENGINEER — Nicholas I. Sprague — No. 65040 — Exp. 6-30-11 — CIVIL — STATE OF CALIFORNIA

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.

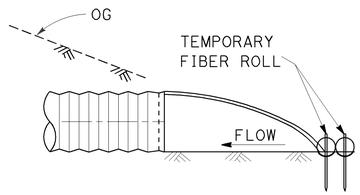
NOTE:
1. EXACT LOCATION AND POSITION OF TEMPORARY DRAINAGE PROTECTION AS APPROVED BY THE ENGINEER.

LEGEND

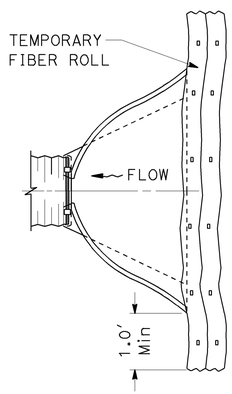
/// TFR /// TEMPORARY FIBER ROLL



ELEVATION

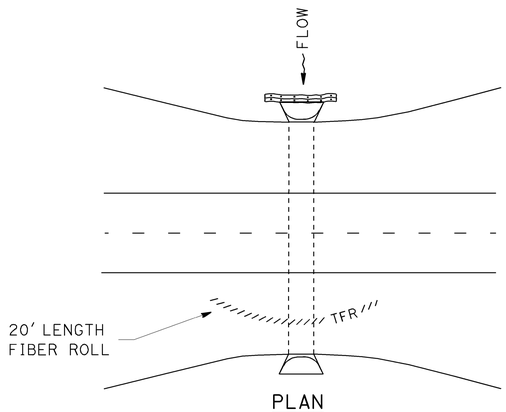


TYPICAL CROSS-SECTION



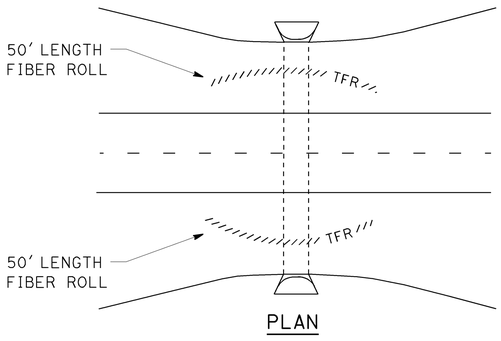
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (DRY CULVERT INLET)



PLAN

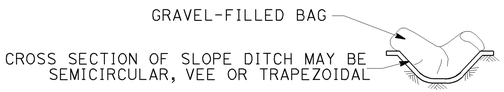
TEMPORARY DRAINAGE INLET PROTECTION (DRY CULVERT PLAN VIEW)



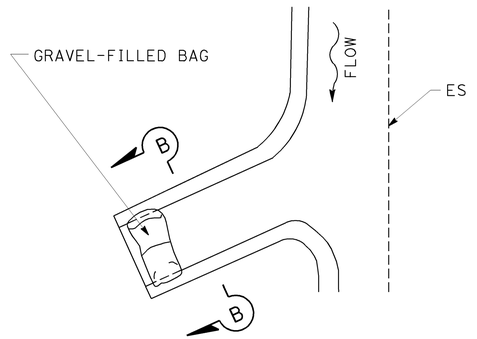
PLAN

TEMPORARY DRAINAGE INLET PROTECTION (LIVE WATER PLAN VIEW)

PM 4.22; PM 4.33
PM 1.45

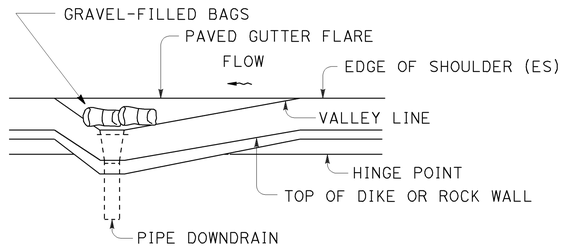


SECTION B-B



PLAN

TEMPORARY DRAINAGE INLET PROTECTION AT ASPHALT CONCRETE OVERSIDE DRAIN (TYPICAL)



TEMPORARY DRAINAGE INLET PROTECTION AT PIPE DOWNDRAIN (TYPICAL)

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

TEMPORARY WATER POLLUTION CONTROL DETAILS

NO SCALE **WPCD-1**

CALCULATED-DESIGNED BY NICHOLAS SPRAGUE
CHECKED BY MONTASHEEMA AFROZE
FUNCTIONAL SUPERVISOR JOHN FOX
REVISED BY NS NS
DATE REVISED 12-14-10 01-11-11
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION | DATE PLOTTED => 09-MAR-2011 | TIME PLOTTED => 15:09 | 03-03-11

BORDER LAST REVISED 7/2/2010 | USERNAME => S123915 | DGN FILE => 934820gc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2480 | PROJECT NUMBER & PHASE 09000200741

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	7	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Nicholas I. Sprague — No. 65040 — 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.

NOTE:

1. EXACT LOCATION AND POSITION OF TEMPORARY DRAINAGE PROTECTION AS APPROVED BY THE ENGINEER.

TEMPORARY DRAINAGE INLET PROTECTION

POST MILE	STATION	L†	R†	EA	FIBER ROLL LF (N)	DESCRIPTION
0.31	1016+46	X		1		PIPE DOWNDRAIN
0.39	1020+42	X		1		PIPE DOWNDRAIN
0.41	1021+39		X	1	33	CULVERT INLET
0.49	1025+94	X		1		PIPE DOWNDRAIN
0.71	1037+32	X		1		PIPE DOWNDRAIN
0.80	1042+30		X	1	33	CULVERT INLET
0.88	1046+82		X	1	33	CULVERT INLET
1.08	1056+02		X	1	33	CULVERT INLET
1.14	1060+15	X		1		PIPE DOWNDRAIN
1.23	1064+94		X	1	33	CULVERT INLET (JUST BEYOND CATTLEGUARD)
1.38	1072+71		X	1	36	CULVERT INLET
1.45	1076+69		X	1	100	CULVERT INLET (2 X 36" CMP - SEASONAL FLOW)
1.67	1088+03	X		1		AC OVERSIDE DRAIN
1.70	1089+90		X	1	33	CULVERT INLET
1.82	1095+98		X	1	33	CULVERT INLET
1.85	1097+59	X		1		PIPE DOWNDRAIN
1.92	1101+18	X		1		AC OVERSIDE DRAIN
2.10	1110+57	X		1		AC OVERSIDE DRAIN
2.10	1110+90		X	1	36	CULVERT INLET
2.18	1115+05	X		1		AC OVERSIDE DRAIN
2.30	1121+56	X		1		PIPE DOWNDRAIN
2.39	1126+23		X	1	33	CULVERT INLET
2.48	1130+85		X	1	33	CULVERT INLET
2.55	1134+85	X		1		PIPE DOWNDRAIN
2.56	1135+05		X	1	33	CULVERT INLET
2.66	1140+44	X		1		AC OVERSIDE DRAIN
2.72	1143+51	X		1		AC OVERSIDE DRAIN
2.89	1152+22		X	1	33	CULVERT INLET
2.92	1153+94	X		1		AC OVERSIDE DRAIN
3.00	1158+62		X	1	33	CULVERT INLET
3.11	1164+33	X		1		AC OVERSIDE DRAIN
3.22	1169+93		X	1	36	CULVERT INLET
3.37	1177+68	X		1		PIPE DOWNDRAIN
3.40	1179+38		X	1	33	CULVERT INLET
3.60	1189+88		X	1	33	CULVERT INLET
3.67	1193+49		X	1	33	CULVERT INLET
3.74	1197+63		X	1	33	CULVERT INLET
3.79	1200+10		X	1	33	CULVERT INLET
3.99	1210+44		X	1	33	CULVERT INLET
4.04	1213+07	X		1		AC OVERSIDE DRAIN
4.21	1222+03	X		1		PIPE DOWNDRAIN
4.22	1222+73		X	1	100	CULVERT INLET, LIVE STREAM
4.33	1227+18	X		1	100	CULVERT INLET, LIVE STREAM
4.34	1228+96		X	1		AC OVERSIDE DRAIN
4.34	1229+11	X		1	33	CULVERT INLET
4.54	1239+71	X		1	33	CULVERT INLET
4.58	1241+90	X		1	33	CULVERT INLET
SUBTOTAL TABLE 1				47	1101	

TEMPORARY DRAINAGE INLET PROTECTION (Cont)

POST MILE	STATION	L†	R†	EA	FIBER ROLL LF (N)	DESCRIPTION
4.68	1247+32		X	1		AC OVERSIDE DRAIN
4.72	1249+30	X		1	33	CULVERT INLET
4.78	1252+60	X		1	33	CULVERT INLET
4.85	1256+10	X		1	33	CULVERT INLET
4.88	1257+51		X	1		AC OVERSIDE DRAIN
4.96	1261+89	X		1	33	CULVERT INLET
4.98	1263+11		X	1		AC OVERSIDE DRAIN
5.01	1264+59		X	1		AC OVERSIDE DRAIN
5.08	1268+20	X		1		AC OVERSIDE DRAIN
5.10	1269+30	X		1	33	CULVERT INLET
5.18	1273+30	X		1	33	CULVERT INLET
5.30	1279+93		X	1	33	CULVERT INLET
5.39	1284+32		X	1	33	CULVERT INLET
5.53	1292+39	X		1		PIPE DOWNDRAIN
5.69	1300+53		X	1	33	CULVERT INLET
5.93	1312+86		X	1		AC OVERSIDE DRAIN
6.03	1318+52		X	1		AC OVERSIDE DRAIN
6.09	1321+64	X		1	33	CULVERT INLET
6.17	1325+78	X		1	33	CULVERT INLET
6.22	1328+34		X	1		PIPE DOWNDRAIN
6.35	1335+13		X	1		AC OVERSIDE DRAIN
6.37	1336+42	X		1	33	CULVERT INLET
6.61	1349+01	X		1	33	CULVERT INLET
6.68	1352+52	X		1	33	CULVERT INLET
6.97	1368+01		X	1		AC OVERSIDE DRAIN
7.28	1384+11	X		1	33	CULVERT INLET
7.30	1385+30		X	1		AC OVERSIDE DRAIN
7.54	1398+22	X		1	33	CULVERT INLET
SUBTOTAL TABLE 2				28	528	
SUBTOTAL TABLE 1				47	1101	
TOTAL				75	1629	

(N) NOT A SEPARATE PAY ITEM; FOR INFORMATION ONLY

TEMPORARY WATER POLLUTION CONTROL QUANTITIES
WPCQ-1

	REVISED BY	DATE REVISED
	NS	01-27-11
	MA	01-12-11

CALCULATED-DESIGNED BY: MONTASHEEMA AFROZE
CHECKED BY: NICHOLAS SPRAGUE
FUNCTIONAL SUPERVISOR: JOHN FOX

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

BORDER LAST REVISED 7/2/2010 | USERNAME => S123915 | DGN FILE => 934820gd001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 2480 | PROJECT NUMBER & PHASE 09000200741

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	8	12

REGISTERED CIVIL ENGINEER 3-3-11 DATE

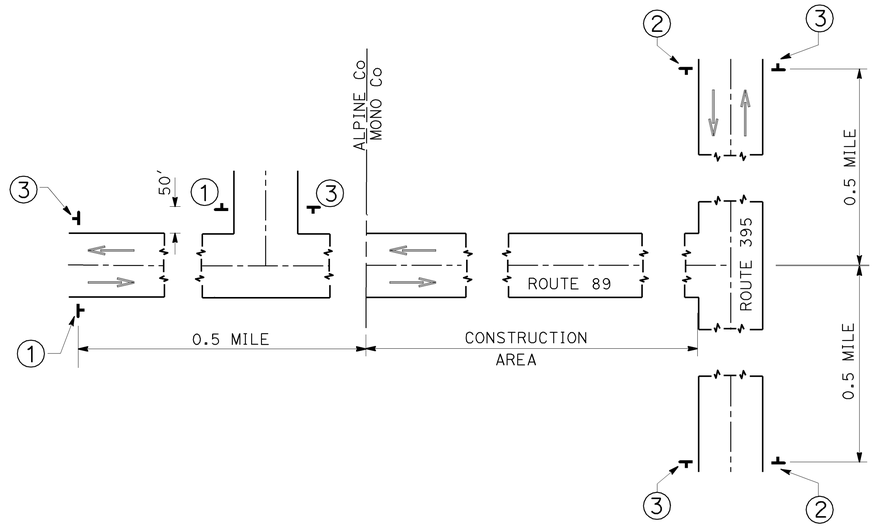
3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Nicholas I. Sprague No. 65040 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. FOR SIGN INSTALLATION DETAILS AND DIMENSIONS NOT SHOWN SEE Std PLANS.
2. SEE TABLE FOR PLACEMENT TYPE. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.



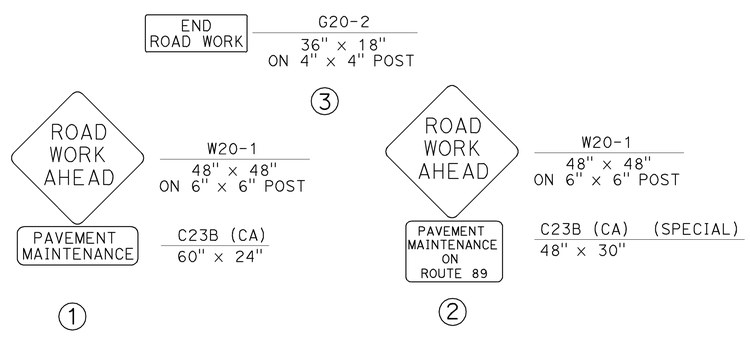
TYPICAL SIGN PLACEMENT

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LAYOUT	TYPE	PANEL SIZE (Inch)	SIGN MESSAGE	No. OF POST AND SIZE (Inch)	EACH
1	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2
	C23B (CA)	60" x 24"	PAVEMENT MAINTENANCE		
2	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 6" x 6"	2
	C23B (CA) (SPECIAL)	48" x 30"	PAVEMENT MAINTENANCE ON ROUTE 89		
3	G20-2	36" x 18"	END ROAD WORK	1 - 4" x 4"	4

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

COUNTY	ROUTE	PM	PLACEMENT	REMARKS
Mno	395	116.47	2,3	BEGIN WORK, END WORK ROUTE 395
Alp	89	0.11	3,1	END WORK, BEGIN WORK INDIAN SPRINGS Rd
Alp	89	0.50	3,1	END WORK, BEGIN WORK ROUTE 89
Mno	395	117.47	3,2	END WORK, BEGIN WORK ROUTE 395



TYPICAL SIGN LAYOUT

PORTABLE CHANGEABLE MESSAGE SIGNS

MESSAGE FOR UNDIVIDED HIGHWAY		
USE CAUTION	PREPARE TO STOP	EXPECT 20 MINUTE DELAY
MESSAGE FOR ROUTE 395		
EXPECT 20 MINUTE DELAY	STATE ROUTE 89	PAVEMENT MAINTENANCE

1. PORTABLE CHANGEABLE MESSAGE SIGN LOCATIONS TO BE CONFIRMED BY THE ENGINEER BEFORE THE ACTUAL CLOSURE.
2. ALTERNATE MESSAGES MUST BE APPROVED BY THE ENGINEER.
3. MESSAGE MAY BE ALTERED BY THE ENGINEER.
4. WHEN CONSTRUCTION OPERATIONS ARE NOT ACTIVELY IN PROGRESS, PORTABLE CHANGEABLE MESSAGE SIGNS SHALL NOT DISPLAY A MESSAGE UNLESS DIRECTED BY THE ENGINEER.

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
NO SCALE
CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE ENGINEERING

FUNCTIONAL SUPERVISOR: JOHN FOX
CALCULATED-DESIGNED BY: MONTASHEEMA AFROZE
CHECKED BY: NICHOLAS SPRAGUE
REVISED BY: MA
DATE REVISED: 10-18-10
NS: 01-05-11

LAST REVISION 03-03-11
DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
09	Mno	89	0.0/7.6	9	12

Nicholas I. Sprague 3-3-11
REGISTERED CIVIL ENGINEER DATE

3-7-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Nicholas I. Sprague
No. 65040
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.

ROADWAY QUANTITY SUMMARY

PM 0.0 TO 7.6	HOT MIX ASPHALT (TYPE A)	MINOR HMA	PLACE HMA (Misc AREA)	COLD PLANE ASPHALT CONCRETE PAVEMENT	TACK COAT	REMOVE AC DIKE	PLACE HMA DIKE (TYPE E)	
	TON	TON*	SQYD**	SQYD	TON	LF	LF	TON
	8986	254	229	1460	55	16,315	9885	228
TOTAL	8986	254	229	1460	55	16,315	9885	228

*THIS QUANTITY IS FOR HMA OVERSIDE DRAINS, OVERLAY DIKE AND PLACE HMA DIKE

**THIS QUANTITY INCLUDES AREAS FOR HMA OVERSIDE DRAINS AND OVERLAY DIKE

PAINT TRAFFIC STRIPE (2-COAT)

PM 0.0 TO 7.6	DETAIL NUMBER			
	5	18	21	27B
	LF	LF	LF	LF
	951	7656	31,521	80,256
TOTAL	120,384			

IMPORTED MATERIAL (SHOULDER BACKING)

PM 0.0 TO 7.6	STATION	LEFT	RIGHT	QUANTITY
				TON
	1000+00 TO 1401+28	X	X	1565
TOTAL				1565

PAINT PAVEMENT MARKING (2-COAT)

PM 0.0 TO 7.6	LIMIT LINE		CATTLEGUARD		"AHEAD"		"STOP"	
	LF(N)	SQFT	EA(N)	SQFT	EA(N)	SQFT	EA(N)	SQFT
	50	50	3	133	1	31	2	44
SUBTOTAL	50		399		31		44	
TOTAL	524							

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

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS

SUMMARY OF QUANTITIES
Q-1

CALCULATED-DESIGNED BY: NICHOLAS SPRAGUE
CHECKED BY: MONTASHEEMA AFROZE
REVISED BY: MA
DATE REVISED: 10-26-10
NS: 01-19-11
FUNCTIONAL SUPERVISOR: JOHN FOX

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE ENGINEERING

LAST REVISION: 03-03-11
DATE PLOTTED => 09-MAR-2011
TIME PLOTTED => 15:09

BORDER LAST REVISED 7/2/2010
USERNAME => S123915
DGN FILE => 934820pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 2480
PROJECT NUMBER & PHASE 09000200741

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	89	0.0/7.6	10	12

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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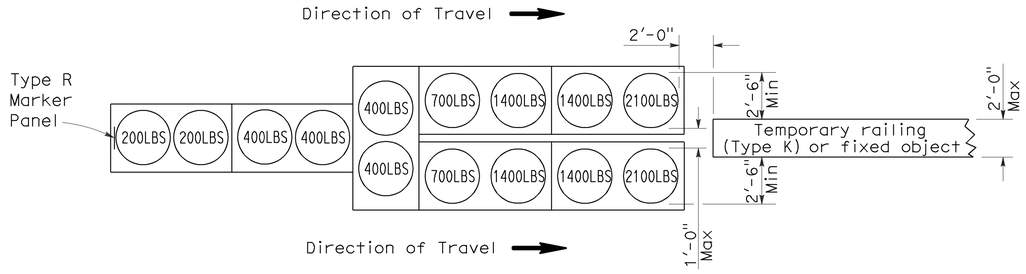
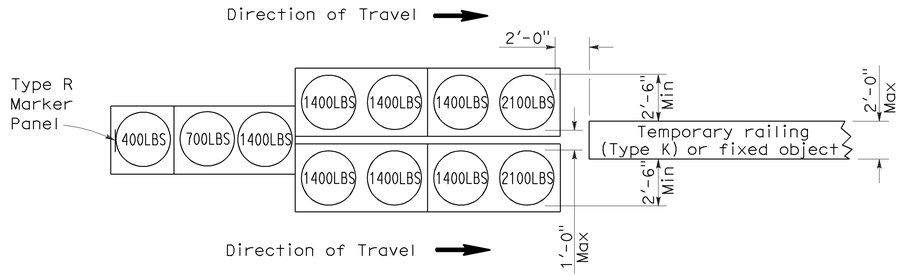
To accompany plans dated 3-7-11



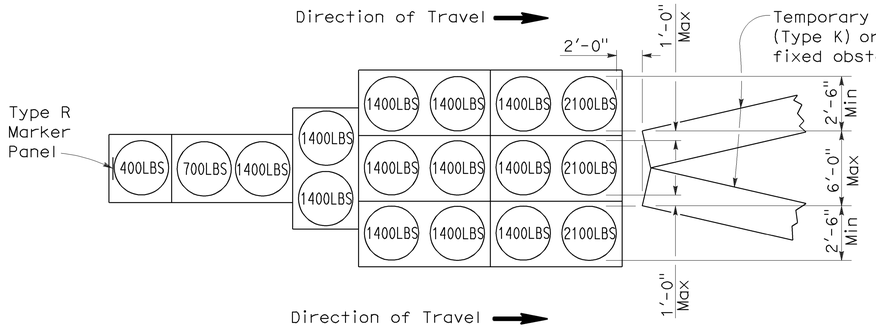
ARRAY 'TU14'

Approach speed 45 mph or more



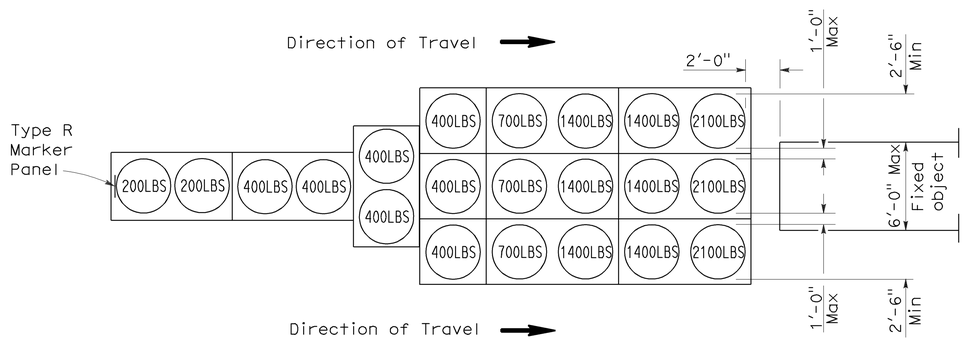
ARRAY 'TU11'

Approach speed less than 45 mph



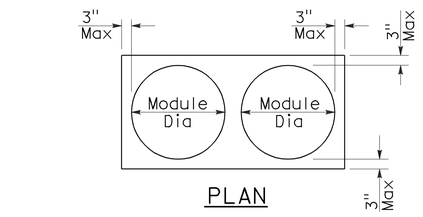
ARRAY 'TU17'

Approach speed less than 45 mph

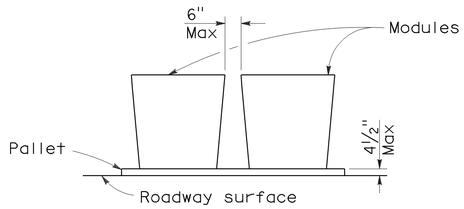


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	89	0.0/7.6	11	12

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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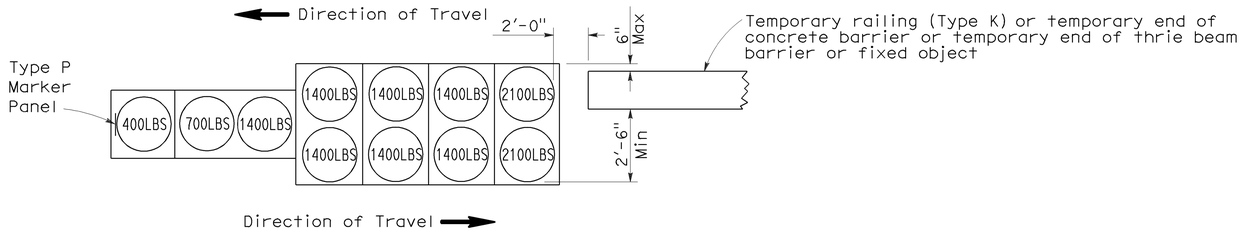
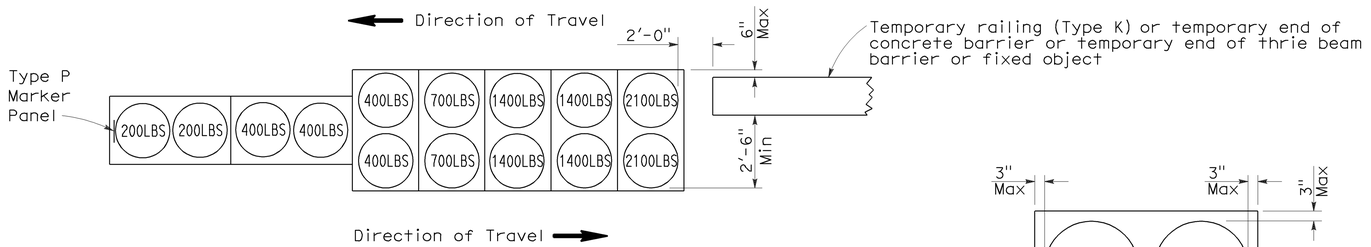
To accompany plans dated 3-7-11



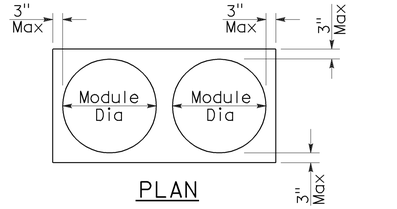
ARRAY 'TB11'

Approach speed less than 45 mph

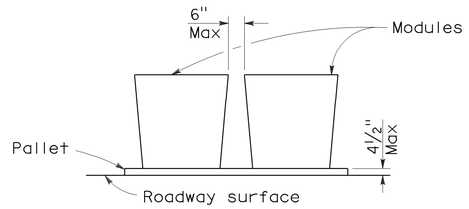


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
09	Mno	89	0.0/7.6	12	12

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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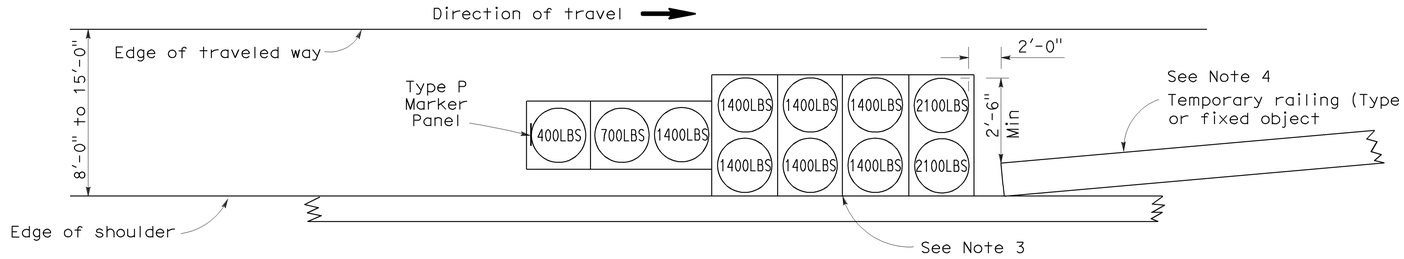
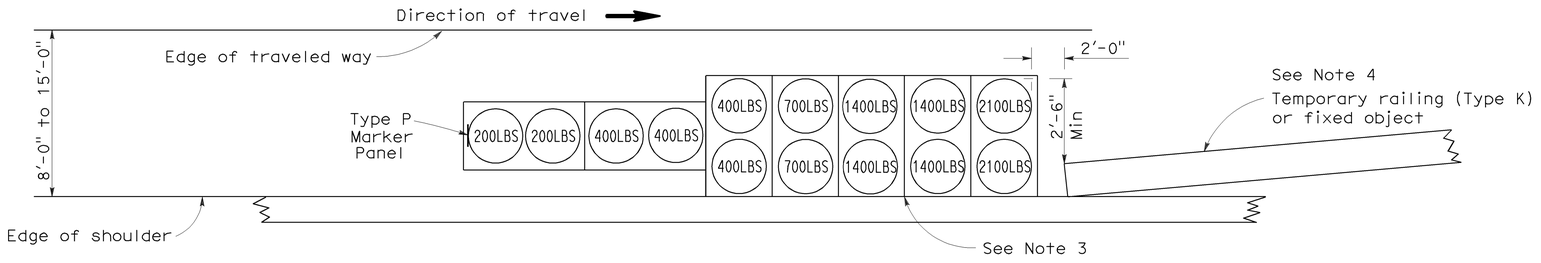
To accompany plans dated 3-7-11



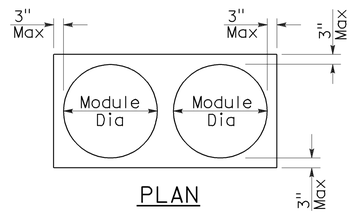
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

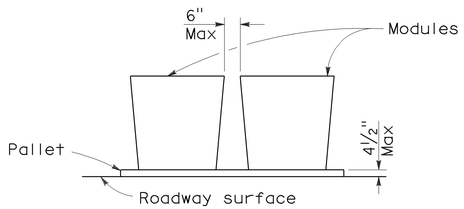


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08