Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	1	15

ACSTP-X019(026)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN FRESNO COUNTY AT SQUAW VALLEY AND DUNLAP ON ROUTE 63 FROM 1.2 MILE SOUTH OF ANCHOR AVENUE TO ROUTE 180 AND ON ROUTE 180 FROM FRIANT KERN CANAL BRIDGE TO MILLWOOD ROAD

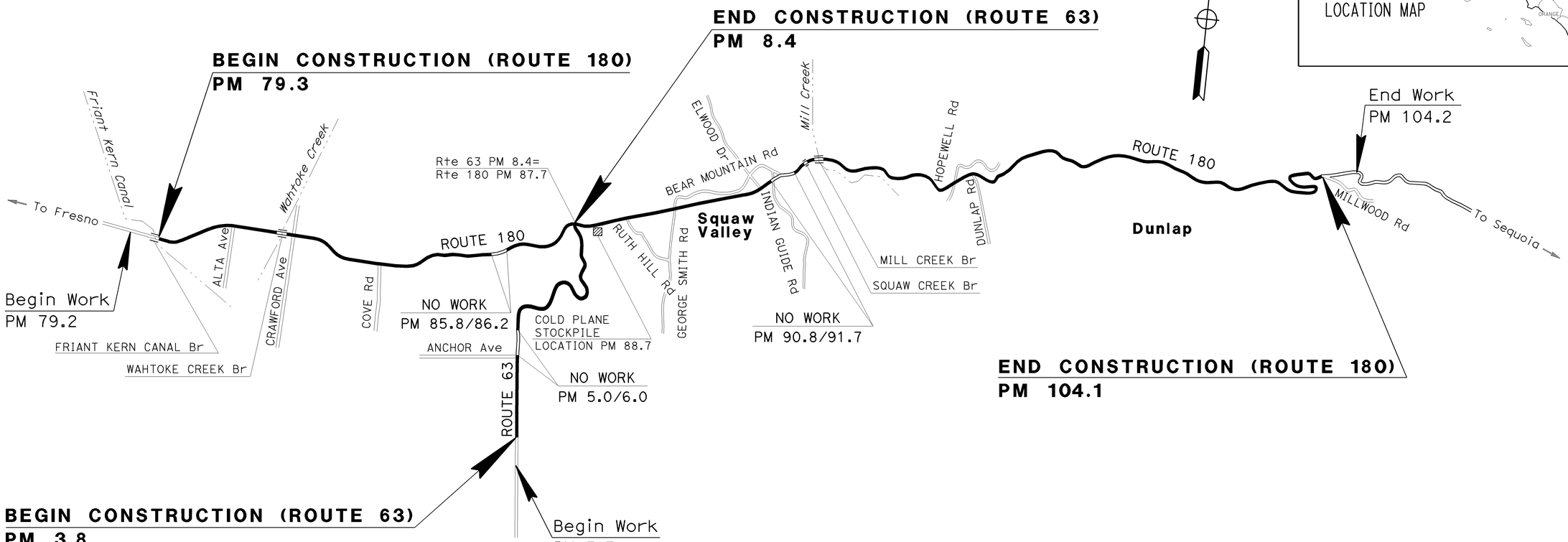
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3	CONSTRUCTION DETAILS
4	CONSTRUCTION AREA SIGNS
5-11	SUMMARY OF QUANTITIES
12-13	TRAFFIC CONTROL SYSTEM PLANS
14-15	REVISED STANDARD PLANS

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

LOCATION MAP



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

NO SCALE

PROJECT MANAGER: VICTOR SHAW
DESIGN ENGINEER: RENE SANCHEZ

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE 2-11-13

MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

Febuary 11, 2013
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.	06-0P9304
PROJECT ID	0612000309

LAST REVISION 02-11-13 — DATE PLOTTED => 04-MAR-2013 — TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	2	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

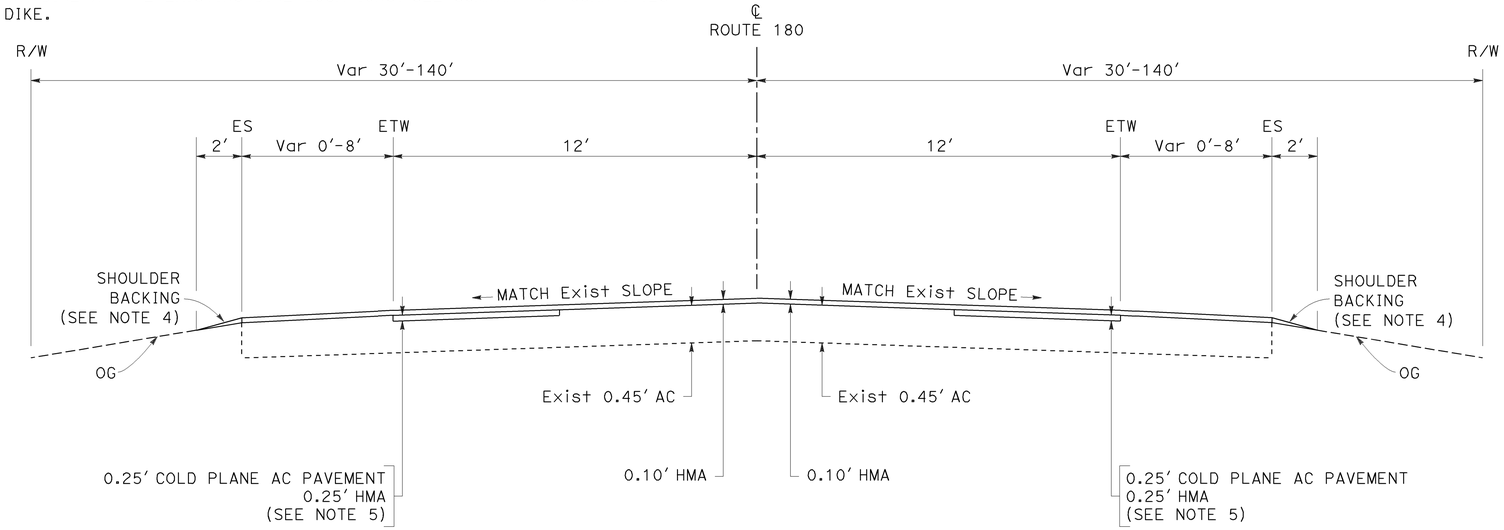
2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

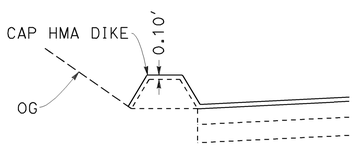
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

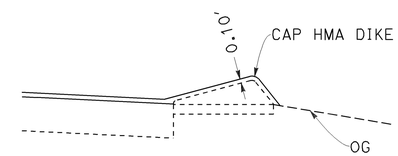
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
4. COSTRUCT SHOULDER BACKING ON ROUTE 63 FROM PM 3.8 TO PM 5.0 AND ON ROUTE 180 FROM PM 79.3 TO PM 83.8.
5. SEE SUMMARY OF QUANTITIES FOR DIMENSIONS AND LOCATIONS OF COLD PLANE AC PAVEMENT AND HMA.
6. USE DETAIL A OR B FOR CAP HMA DIKE AT THE EXISTING DIKE LOCATIONS. SEE SUMMARY OF QUANTITIES FOR TYPES AND LOCATIONS OF DIKE.



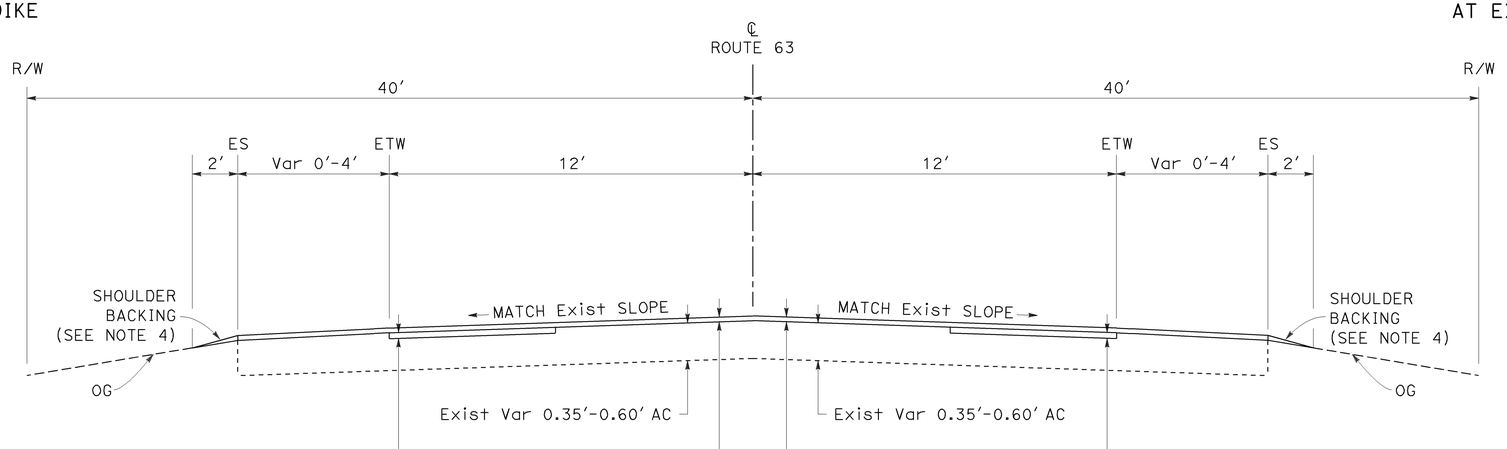
ROUTE 180
PM 79.3 TO PM 85.8
PM 86.2 TO PM 90.8
PM 91.7 TO PM 104.1



DETAIL A
TYPICAL DETAIL
AT EXISTING (TYPE A) DIKE
(SEE NOTE 6)



DETAIL B
TYPICAL DETAIL
AT EXISTING (TYPE E) DIKE
(SEE NOTE 6)



ROUTE 63
PM 3.8 TO PM 5.0
PM 6.0 TO PM 8.4

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY | DATE REVISED
MARYAM RASTEGAR | RENE SANCHEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
RENE SANCHEZ

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

LAST REVISION 02-11-13 | DATE PLOTTED => 04-MAR-2013 | TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	3	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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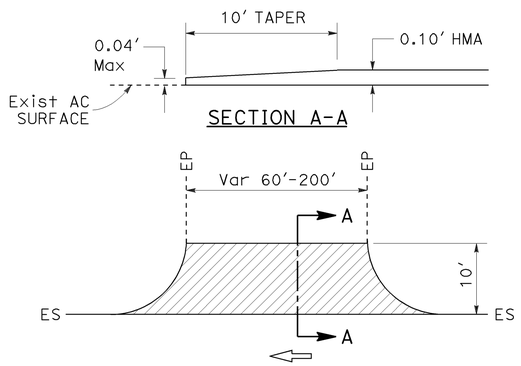
LEGEND:

- COLD PLANE AC PAVEMENT
- HMA
- DIRECTION OF TRAFFIC

NOTE:

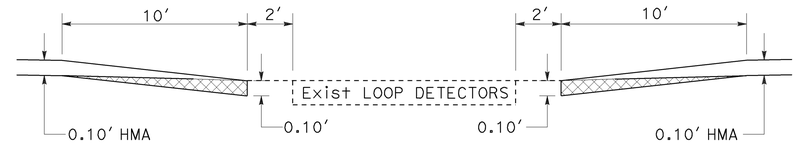
1. ALL HOLES IN WOOD POSTS AND BLOCKS SHALL BE 3/4" DIAMETER ± 1/16".



TYPICAL TAPER AT ROAD APPROACH

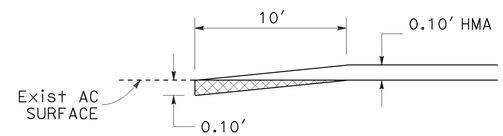
ROUTE 63
PM 5.0

ROUTE 180
PM 81.1
PM 82.1
PM 83.1
PM 83.8
PM 87.7
PM 88.5
PM 89.4
PM 95.1
PM 104.1



TYPICAL TAPER AT LOOP DETECTORS

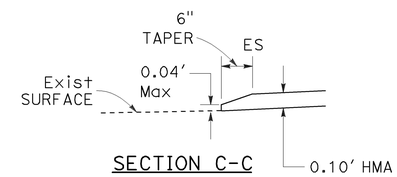
ROUTE 180
PM 83.9

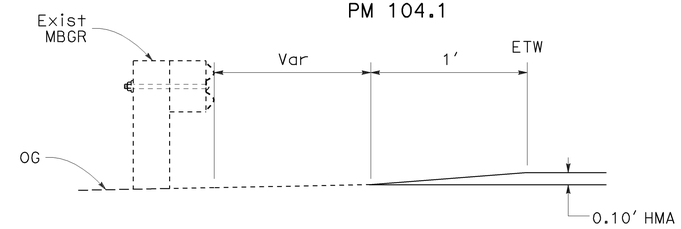


TYPICAL LONGITUDINAL PAVEMENT TAPER

ROUTE 63
PM 3.8
PM 5.0
PM 6.0

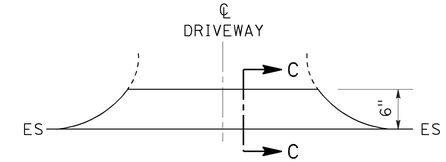
ROUTE 180
PM 79.3
PM 85.8
PM 86.2
PM 90.8
PM 91.7
PM 104.1



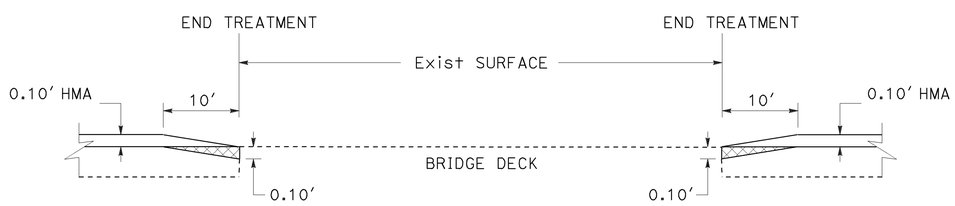


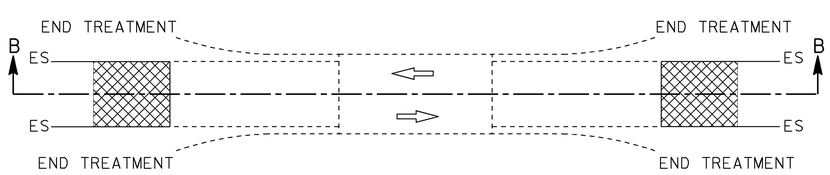
TYPICAL TAPER AT MBGR

ROUTE 63
PM 6.1 TO PM 6.9
ROUTE 180
PM 101.17 TO PM 101.30



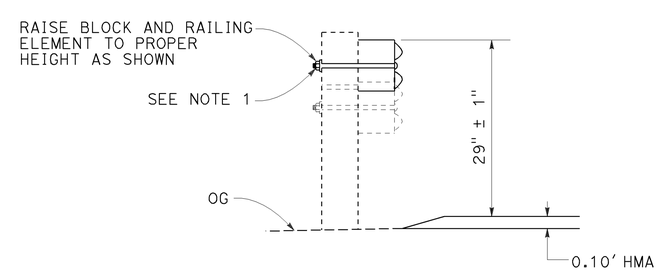
TYPICAL DRIVEWAY DETAIL





TYPICAL TAPER AT BRIDGE

ROUTE 180
PM 81.9
PM 91.9
PM 92.2



ADJUST METAL BEAM GUARD RAILING ELEMENT

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	4	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

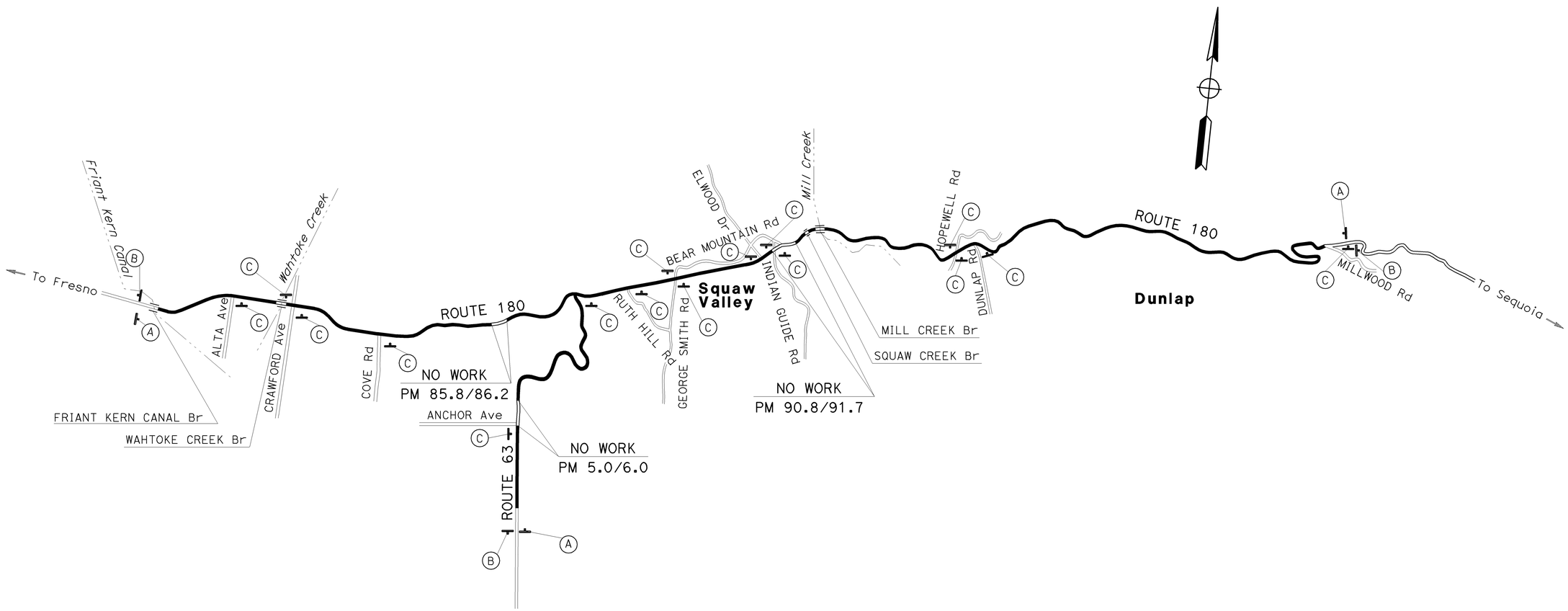
NOTE:

EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST	POST SIZE	No. OF SIGNS
A	W20-1	48" x 48"	ROAD WORK AHEAD	1	4" x 6"	3
B	G20-2	48" x 24"	END ROAD WORK	1	4" x 6"	3
C	W20-1	36" x 36"	ROAD WORK AHEAD	1	4" x 6"	16

NOTE: EXACT SIGN LOCATIONS TO BE DETERMINED BY THE ENGINEER.



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	5	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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CAP HOT MIX ASPHALT DIKE

BEGINNING POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	TYPE	CAP HMA DIKE	HMA (TYPE A)
				LF	TON
81.42	81.49	EB	E	370	4
81.58	81.62	EB	E	210	2
83.96	84.22	EB	A	1,373	15
84.29	84.53	EB	E	1,267	10
84.58	84.81	EB	E	1,214	13
84.88	85.03	EB	E	792	9
85.14	85.22	EB	E	422	5
85.28	85.38	EB	E	528	6
85.46	85.52	EB	E	317	4
85.60	85.75	EB	E	792	9
86.24	86.69	EB	E	2,376	26
86.90	86.95	EB	E	264	3
87.02	87.14	EB	E	634	7
87.21	87.38	EB	E	898	10
87.52	87.56	EB	E	211	2
87.61	87.76	EB	E	792	9
87.95	88.04	EB	E	475	5
88.04	88.21	EB	A	898	10
88.21	88.29	EB	E	422	5
88.29	88.44	EB	A	792	8
88.44	88.69	EB	E	1,320	15
88.96	89.05	EB	E	475	5
89.05	89.15	EB	A	528	6
89.15	89.38	EB	E	1,214	13
89.43	89.51	EB	E	422	5
89.51	89.58	EB	A	370	4
89.58	89.62	EB	E	211	2
89.66	89.75	EB	A	475	5
89.75	89.80	EB	E	264	3
89.85	90.02	EB	E	898	10
90.09	90.18	EB	E	475	5
90.22	90.25	EB	E	158	2
90.31	90.76	EB	E	2,376	26
91.78	91.86	EB	A	422	5
91.86	92.17	EB	E	1,637	18
92.31	92.56	EB	E	1,320	15
92.56	92.63	EB	A	370	4
92.66	92.69	EB	E	158	2
92.71	92.75	EB	E	211	2
92.75	92.78	EB	A	158	2
92.83	93.03	EB	E	1,056	12
93.03	93.08	EB	A	264	3
93.08	93.21	EB	E	686	8
93.21	93.27	EB	A	317	3
SUBTOTAL (TABLE 1 OF 5)				30,832	337

CAP HOT MIX ASPHALT DIKE

BEGINNING POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	TYPE	CAP HMA DIKE	HMA (TYPE A)
				LF	TON
93.27	93.34	EB	E	370	4
93.41	93.47	EB	E	317	4
93.47	93.54	EB	A	370	4
93.63	93.67	EB	A	210	2
93.67	94.00	EB	E	1,742	19
94.01	94.03	EB	A	106	1
94.03	94.10	EB	E	370	4
94.11	94.20	EB	A	475	5
94.20	94.27	EB	E	370	4
94.34	94.42	EB	E	422	5
94.42	94.58	EB	A	845	9
94.67	94.76	EB	A	475	5
94.99	95.01	EB	E	106	1
95.08	95.15	EB	E	370	4
95.18	95.30	EB	E	634	7
95.34	95.41	EB	E	370	4
95.44	95.50	EB	E	317	4
95.55	95.60	EB	E	264	3
95.75	95.84	EB	E	475	5
96.03	96.09	EB	E	317	4
96.20	96.30	EB	E	528	6
96.33	96.37	EB	E	211	2
96.49	96.65	EB	E	845	9
96.68	96.75	EB	E	370	4
96.80	96.86	EB	E	317	4
96.88	96.95	EB	E	370	4
96.97	96.98	EB	A	53	1
97.04	97.11	EB	E	370	4
97.14	97.22	EB	E	422	5
97.35	97.36	EB	E	53	1
97.39	97.49	EB	E	528	6
97.54	97.56	EB	E	106	1
97.65	97.77	EB	E	634	7
97.89	98.03	EB	E	739	8
98.31	98.53	EB	E	1,162	13
98.63	98.68	EB	E	264	3
98.73	98.83	EB	E	528	6
98.88	98.90	EB	E	106	1
98.94	99.22	EB	E	1,478	16
99.33	99.43	EB	E	528	6
99.59	99.63	EB	E	211	2
99.69	99.75	EB	E	317	4
99.81	99.92	EB	E	581	6
100.03	100.07	EB	E	211	2
SUBTOTAL (TABLE 2 OF 5)				19,857	219

CAP HOT MIX ASPHALT DIKE

BEGINNING POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	TYPE	CAP HMA DIKE	HMA (TYPE A)
				LF	TON
100.16	100.22	EB	E	317	4
100.43	100.53	EB	E	527	6
100.80	100.86	EB	E	317	4
100.92	100.98	EB	E	317	4
101.35	101.38	EB	E	158	2
101.57	101.63	EB	E	317	4
101.71	101.85	EB	E	739	8
102.02	102.15	EB	E	686	8
102.27	102.45	EB	E	950	10
102.78	102.79	EB	E	53	1
102.84	102.91	EB	E	370	4
102.97	103.06	EB	E	475	5
103.26	103.46	EB	E	1056	12
103.71	103.77	EB	E	317	4
103.98	104.10	EB	E	634	7
SUBTOTAL (TABLE 3 OF 5)				7233	83

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	6	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

CAP HOT MIX ASPHALT DIKE

BEGINNING POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	TYPE	CAP HMA DIKE	HMA (TYPE A)
				LF	TON
81.52	81.56	WB	E	211	2
84.40	84.48	WB	E	425	5
84.65	84.67	WB	E	106	1
85.03	85.04	WB	A	53	1
85.20	85.26	WB	E	317	4
85.50	85.54	WB	E	211	2
86.47	86.48	WB	E	53	1
86.76	86.95	WB	A	1,003	10
87.19	87.27	WB	E	422	5
87.93	88.08	WB	E	792	9
88.08	88.09	WB	A	53	1
88.19	88.24	WB	E	264	3
88.24	88.43	WB	A	1,003	10
88.43	88.61	WB	E	950	10
88.63	88.76	WB	A	686	7
88.76	88.79	WB	E	158	2
88.79	88.87	WB	A	422	5
88.87	89.01	WB	E	739	8
89.01	89.14	WB	A	686	7
89.14	89.25	WB	E	581	6
89.27	89.34	WB	A	370	4
89.38	89.47	WB	E	475	5
89.48	89.55	WB	A	370	4
89.55	89.57	WB	E	106	1
89.63	89.73	WB	A	528	6
89.73	89.78	WB	E	264	3
89.81	89.87	WB	E	317	4
90.08	90.11	WB	E	158	2
90.13	90.23	WB	E	528	6
90.31	90.40	WB	E	475	5
90.40	90.47	WB	A	370	4
90.47	90.66	WB	E	1,003	11
91.88	92.06	WB	E	950	11
92.27	92.41	WB	A	739	8
92.54	92.55	WB	A	53	1
92.64	92.73	WB	A	475	5
92.73	92.75	WB	E	106	1
92.75	92.89	WB	A	739	8
92.90	92.93	WB	E	158	2
92.94	93.07	WB	A	686	7
93.10	93.14	WB	A	211	2
93.14	93.18	WB	E	211	2
93.18	93.24	WB	A	317	3
93.27	93.28	WB	A	53	1
SUBTOTAL (TABLE 4 OF 5)				18,797	205

CAP HOT MIX ASPHALT DIKE

BEGINNING POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	TYPE	CAP HMA DIKE	HMA (TYPE A)
				LF	TON
93.30	93.41	WB	A	581	5
93.45	93.53	WB	A	422	5
93.55	93.72	WB	A	898	9
93.72	93.76	WB	E	214	2
93.76	93.81	WB	A	264	3
93.81	93.85	WB	E	211	2
93.85	93.92	WB	A	370	4
93.92	93.98	WB	E	317	4
94.01	94.12	WB	A	581	6
94.15	94.23	WB	A	422	5
94.30	94.36	WB	A	317	3
94.43	94.45	WB	E	106	1
94.45	94.63	WB	A	950	10
94.63	94.72	WB	E	475	5
94.83	94.86	WB	E	158	2
94.95	95.03	WB	E	422	5
95.04	95.08	WB	E	211	2
95.12	95.15	WB	E	158	2
95.21	95.33	WB	E	634	7
95.77	95.87	WB	E	528	6
96.04	96.08	WB	E	211	2
96.24	96.32	WB	E	422	5
96.53	96.59	WB	E	317	4
96.65	96.68	WB	E	158	2
96.71	96.75	WB	E	211	2
96.82	96.90	WB	E	422	5
97.11	97.19	WB	E	422	5
97.65	97.73	WB	E	422	5
100.96	100.97	WB	A	53	1
102.61	102.69	WB	E	422	5
SUBTOTAL (TABLE 5 OF 5)				11,299	124
SUBTOTAL (TABLE 4 OF 5)				18,797	205
SUBTOTAL (TABLE 3 OF 5)				7,233	83
SUBTOTAL (TABLE 2 OF 5)				19,857	219
SUBTOTAL (TABLE 1 OF 5)				30,832	337
TOTAL				88,018**	968**

** INCLUDED IN ROADWAY QUANTITIES TABLE.

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED
MARYAM RASTEGAR | RENE SANCHEZ
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RENE SANCHEZ
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

LAST REVISION 02-11-13 | DATE PLOTTED => 04-MAR-2013 | TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	7	15

REGISTERED CIVIL ENGINEER 02-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

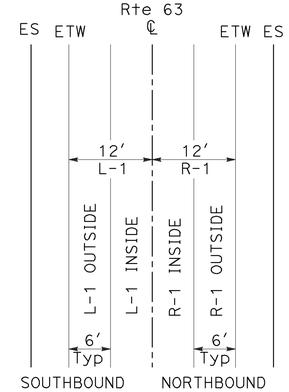
REPAIR FAILED AREA

BEGIN POST MILE (Fre 63)	END POST MILE (Fre 63)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
6.184	6.200	R-1 OUTSIDE	84	6	56	10
6.213	6.220	R-1 OUTSIDE	37	6	25	4
6.233	6.238	R-1 FULL WIDTH	26	12	35	6
6.253	6.276	R-1 FULL WIDTH	121	12	162	26
6.276	6.291	R-1 OUTSIDE	79	6	53	9
6.326	6.350	R-1 FULL WIDTH	127	12	169	28
6.385	6.387	R-1 INSIDE	11	6	7	1
6.398	6.407	R-1 OUTSIDE	48	6	32	5
6.505	6.516	R-1 INSIDE	58	6	39	6
6.552	6.558	R-1 FULL WIDTH	32	12	42	7
6.576	6.591	R-1 OUTSIDE	79	6	53	9
6.591	6.603	R-1 FULL WIDTH	63	12	84	14
6.603	6.615	R-1 INSIDE	63	6	42	7
6.687	6.696	R-1 OUTSIDE	48	6	32	5
6.707	6.717	R-1 FULL WIDTH	53	12	70	11
6.753	6.759	R-1 INSIDE	32	6	21	3
6.764	6.772	R-1 OUTSIDE	42	6	28	5
6.826	6.831	R-1 OUTSIDE	26	6	18	3
6.855	6.881	R-1 OUTSIDE	137	6	92	15
6.881	6.905	R-1 FULL WIDTH	127	12	169	28
6.915	6.948	R-1 OUTSIDE	174	6	116	19
6.956	6.971	R-1 FULL WIDTH	79	12	106	17
6.971	6.987	R-1 INSIDE	84	6	56	9
6.987	7.009	R-1 FULL WIDTH	116	12	155	25
7.022	7.031	R-1 OUTSIDE	48	6	32	5
7.091	7.101	R-1 FULL WIDTH	53	12	70	11
7.120	7.130	R-1 FULL WIDTH	53	12	70	11
7.155	7.160	R-1 OUTSIDE	26	6	18	3
7.188	7.199	R-1 OUTSIDE	58	6	39	6
7.226	7.276	R-1 FULL WIDTH	264	12	352	57
7.292	7.303	R-1 INSIDE	58	6	39	6
7.340	7.357	R-1 OUTSIDE	90	6	60	10
7.435	7.491	R-1 FULL WIDTH	296	12	394	64
7.539	7.543	R-1 FULL WIDTH	21	12	28	5
7.621	7.626	R-1 OUTSIDE	26	6	18	3
7.634	7.655	R-1 OUTSIDE	111	6	74	12
7.655	7.681	R-1 FULL WIDTH	137	12	183	30
7.692	7.704	R-1 FULL WIDTH	63	12	84	14
7.717	7.723	R-1 FULL WIDTH	32	12	42	7
7.737	7.741	R-1 FULL WIDTH	21	12	28	5
7.767	7.785	R-1 FULL WIDTH	95	12	127	21
7.805	7.814	R-1 FULL WIDTH	48	12	63	10
7.837	7.843	R-1 FULL WIDTH	32	12	42	7
7.849	7.853	R-1 FULL WIDTH	21	12	28	5
8.001	8.011	R-1 FULL WIDTH	53	12	70	11
8.021	8.032	R-1 OUTSIDE	58	6	39	6
NB SUBTOTAL (TABLE 1 OF 2)					3562	581

REPAIR FAILED AREA

BEGIN POST MILE (Fre 63)	END POST MILE (Fre 63)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
8.045	8.074	R-1 OUTSIDE	153	6	101	17
8.090	8.097	R-1 INSIDE	37	6	25	4
8.102	8.115	R-1 OUTSIDE	69	6	46	7
8.132	8.149	R-1 FULL WIDTH	90	12	120	20
8.155	8.170	R-1 FULL WIDTH	79	12	106	17
8.218	8.223	R-1 FULL WIDTH	26	12	35	6
8.297	8.302	R-1 INSIDE	26	6	18	3
NB SUBTOTAL (TABLE 2 OF 2)					451	74
NB SUBTOTAL (TABLE 1 OF 2)					3562	581
ROUTE 63 NB TOTAL					4013 **	655 **

** INCLUDED IN ROADWAY QUANTITIES TABLE.
EXACT LOCATION AS DIRECTED BY THE ENGINEER.



LANE DESCRIPTION CHART

NO SCALE

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	8	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

REPAIR FAILED AREA

BEGIN POST MILE (Fre 63)	END POST MILE (Fre 63)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
8.343	8.312	L-1 OUTSIDE	164	6	109	18
8.305	8.297	L-1 FULL WIDTH	42	12	56	9
8.297	8.277	L-1 OUTSIDE	106	6	69	11
8.175	8.170	L-1 INSIDE	26	6	18	3
8.158	8.147	L-1 OUTSIDE	58	6	39	6
8.114	8.095	L-1 FULL WIDTH	100	12	134	22
8.045	8.032	L-1 INSIDE	69	6	46	7
8.032	8.025	L-1 FULL WIDTH	37	12	49	8
7.962	7.944	L-1 FULL WIDTH	95	12	127	21
7.823	7.797	L-1 INSIDE	137	6	92	15
7.797	7.791	L-1 FULL WIDTH	32	12	42	7
7.783	7.775	L-1 FULL WIDTH	42	12	56	9
7.775	7.768	L-1 INSIDE	37	6	25	4
7.748	7.743	L-1 FULL WIDTH	26	12	35	6
7.720	7.711	L-1 FULL WIDTH	48	12	63	10
7.705	7.696	L-1 INSIDE	48	6	32	5
7.689	7.682	L-1 INSIDE	37	6	25	4
7.609	7.564	L-1 FULL WIDTH	238	12	317	52
7.523	7.517	L-1 OUTSIDE	32	6	21	3
7.486	7.477	L-1 OUTSIDE	48	6	32	5
7.462	7.450	L-1 FULL WIDTH	63	12	84	14
7.427	7.423	L-1 FULL WIDTH	21	12	28	5
7.417	7.405	L-1 OUTSIDE	63	6	42	7
7.384	7.369	L-1 OUTSIDE	79	6	53	9
7.345	7.341	L-1 INSIDE	21	6	14	2
7.328	7.323	L-1 INSIDE	26	6	18	3
7.323	7.318	L-1 FULL WIDTH	26	12	35	6
7.310	7.299	L-1 FULL WIDTH	58	12	77	13
7.282	7.228	L-1 FULL WIDTH	285	12	380	62
7.216	7.128	L-1 FULL WIDTH	465	12	620	101
7.128	7.104	L-1 INSIDE	127	6	84	14
7.104	7.091	L-1 FULL WIDTH	69	12	92	15
7.091	7.065	L-1 INSIDE	137	6	92	15
7.052	6.998	L-1 FULL WIDTH	285	12	380	62
6.998	6.988	L-1 INSIDE	53	6	35	6
6.988	6.967	L-1 FULL WIDTH	111	12	148	24
6.804	6.801	L-1 INSIDE	16	6	11	2
6.792	6.776	L-1 FULL WIDTH	84	12	113	18
6.679	6.676	L-1 OUTSIDE	16	6	11	2
6.670	6.657	L-1 INSIDE	69	6	46	7
6.657	6.640	L-1 OUTSIDE	90	6	59	10
6.618	6.610	L-1 FULL WIDTH	42	12	56	9
6.605	6.593	L-1 FULL WIDTH	63	12	84	14
6.582	6.577	L-1 INSIDE	26	6	18	3
SB SUBTOTAL (TABLE 1 OF 2)					3967	648

REPAIR FAILED AREA

BEGIN POST MILE (Fre 63)	END POST MILE (Fre 63)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
6.577	6.563	L-1 FULL WIDTH	74	12	99	16
6.556	6.539	L-1 OUTSIDE	90	6	60	10
6.539	6.512	L-1 FULL WIDTH	143	12	190	31
6.499	6.494	L-1 OUTSIDE	26	6	18	3
6.460	6.455	L-1 INSIDE	26	6	18	3
6.437	6.411	L-1 FULL WIDTH	137	12	183	30
6.357	6.333	L-1 FULL WIDTH	127	12	169	28
6.333	6.322	L-1 INSIDE	58	6	39	6
6.307	6.264	L-1 FULL WIDTH	227	12	302	48
6.247	6.235	L-1 FULL WIDTH	63	12	84	14
SB SUBTOTAL (TABLE 2 OF 2)					1162	189
SB SUBTOTAL (TABLE 1 OF 2)					3967	648
ROUTE 63 SB TOTAL					5129 **	837 **

** INCLUDED IN ROADWAY QUANTITIES TABLE.
EXACT LOCATION AS DIRECTED BY THE ENGINEER.

SUMMARY OF QUANTITIES

Q-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	9	15

REGISTERED CIVIL ENGINEER 02-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

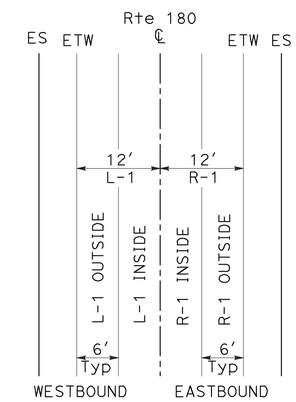
REPAIR FAILED AREA

BEGIN POST MILE (Fre 180)	END POST MILE (Fre 180)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
81.141	81.191	R-1 OUTSIDE	264	6	176	29
82.356	82.369	R-1 OUTSIDE	69	6	46	7
82.467	82.469	R-1 OUTSIDE	11	6	7	1
83.286	83.294	R-1 OUTSIDE	42	6	28	5
85.402	85.417	R-1 OUTSIDE	79	6	53	9
85.595	85.614	R-1 FULL WIDTH	100	12	134	22
85.625	85.637	R-1 FULL WIDTH	63	12	84	14
86.288	86.330	R-1 INSIDE	222	6	148	24
86.388	86.476	R-1 FULL WIDTH	465	12	620	101
86.586	86.590	SHOULDER	21	6	14	2
86.864	86.872	R-1 FULL WIDTH	42	12	56	9
86.872	86.882	R-1 OUTSIDE	53	6	35	6
86.966	86.972	R-1 OUTSIDE	32	6	21	3
86.972	86.979	R-1 FULL WIDTH	37	12	49	8
86.979	87.002	R-1 OUTSIDE	121	6	81	13
87.614	87.620	R-1 FULL WIDTH	32	12	42	7
87.620	87.627	R-1 OUTSIDE	37	6	25	4
87.642	87.647	R-1 OUTSIDE	26	6	18	3
87.708	87.734	R-1 FULL WIDTH	137	12	183	30
87.985	87.995	R-1 FULL WIDTH	53	12	70	11
87.995	88.032	R-1 OUTSIDE	195	6	130	21
88.032	88.062	R-1 FULL WIDTH	158	12	211	34
88.150	88.171	R-1 INSIDE	111	6	74	12
88.199	88.221	R-1 INSIDE	116	6	77	13
88.222	88.233	R-1 FULL WIDTH	58	12	77	13
88.245	88.280	R-1 FULL WIDTH	185	12	246	40
88.400	88.473	R-1 FULL WIDTH	385	12	514	84
88.473	88.485	R-1 OUTSIDE	63	6	42	7
88.510	88.563	R-1 FULL WIDTH	280	12	373	61
88.564	88.616	R-1 INSIDE	275	6	183	30
88.616	88.674	R-1 FULL WIDTH	306	12	408	67
88.728	88.790	R-1 FULL WIDTH	327	12	436	71
88.916	88.938	R-1 FULL WIDTH	116	12	155	25
89.001	89.016	R-1 FULL WIDTH	79	12	106	17
89.090	89.105	R-1 FULL WIDTH	79	12	106	17
89.312	89.324	R-1 FULL WIDTH	63	12	84	14
89.378	89.389	R-1 OUTSIDE	58	6	39	6
89.499	89.515	R-1 OUTSIDE	84	6	56	9
90.718	90.750	R-1 FULL WIDTH	169	12	225	37
91.729	91.849	R-1 FULL WIDTH	634	12	845	138
91.849	91.913	R-1 OUTSIDE	338	6	226	37
91.975	91.996	R-1 FULL WIDTH	111	12	149	24
92.056	92.074	R-1 OUTSIDE	95	6	64	11
EB SUBTOTAL (TABLE 1 OF 2)					6716	1096

REPAIR FAILED AREA

BEGIN POST MILE (Fre 180)	END POST MILE (Fre 180)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
92.090	92.100	R-1 OUTSIDE	53	6	35	6
92.164	92.170	R-1 FULL WIDTH	32	12	42	7
92.260	92.269	R-1 FULL WIDTH	48	12	63	11
92.517	92.538	R-1 OUTSIDE	111	6	74	12
92.547	92.554	R-1 OUTSIDE	37	6	25	4
93.187	93.201	R-1 FULL WIDTH	74	12	99	16
93.335	93.360	R-1 INSIDE	132	6	88	14
94.167	94.193	R-1 FULL WIDTH	137	6	92	15
94.288	94.365	R-1 FULL WIDTH	407	12	542	88
94.962	94.987	R-1 FULL WIDTH	132	6	88	14
94.988	95.004	R-1 INSIDE	84	12	113	18
95.026	95.030	R-1 FULL WIDTH	21	12	28	5
95.038	95.062	R-1 FULL WIDTH	127	12	169	28
95.062	95.073	R-1 OUTSIDE	58	6	39	6
95.073	95.089	R-1 INSIDE	84	12	113	18
98.146	98.161	R-1 FULL WIDTH	79	12	106	17
98.795	98.806	R-1 FULL WIDTH	58	12	77	13
99.084	99.096	R-1 OUTSIDE	63	6	42	7
99.237	99.273	R-1 FULL WIDTH	190	12	253	41
99.273	99.288	R-1 OUTSIDE	79	6	53	9
99.300	99.317	R-1 FULL WIDTH	90	12	120	20
99.335	99.381	R-1 INSIDE	243	6	162	26
99.460	99.475	R-1 FULL WIDTH	79	12	106	17
100.035	100.048	R-1 INSIDE	69	6	46	7
100.245	100.250	R-1 FULL WIDTH	26	12	35	6
100.650	100.671	R-1 FULL WIDTH	111	12	148	24
100.769	100.813	R-1 INSIDE	232	6	155	25
100.821	100.833	R-1 FULL WIDTH	63	12	84	14
100.874	100.896	R-1 INSIDE	116	6	77	13
102.644	102.658	R-1 OUTSIDE	74	6	49	8
102.780	102.793	R-1 FULL WIDTH	69	12	92	15
103.321	103.327	R-1 INSIDE	32	6	21	3
103.327	103.339	R-1 FULL WIDTH	63	12	84	14
103.351	103.357	R-1 FULL WIDTH	32	12	42	7
103.478	103.494	R-1 FULL WIDTH	84	12	113	18
103.494	103.506	R-1 INSIDE	63	6	42	7
103.639	103.674	R-1 INSIDE	185	6	123	20
103.679	103.685	R-1 FULL WIDTH	32	12	42	7
103.842	103.849	R-1 INSIDE	37	6	25	4
103.959	103.966	R-1 FULL WIDTH	37	12	49	8
EB SUBTOTAL (TABLE 2 OF 2)					3,756	612
EB SUBTOTAL (TABLE 1 OF 2)					6,716	1096
ROUTE 180 EB TOTAL					10,472**	1708**

** INCLUDED IN ROADWAY QUANTITIES TABLE.
EXACT LOCATION AS DIRECTED BY THE ENGINEER.



LANE DESCRIPTION CHART
NO SCALE

SUMMARY OF QUANTITIES

Q-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PAVEMENT PRESERVATION
Caltrans

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY / DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	10	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

REPAIR FAILED AREA

BEGIN POST MILE (Fre 180)	END POST MILE (Fre 180)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
103.865	103.852	L-1 FULL WIDTH	69	12	92	15
103.757	103.720	L-1 INSIDE	195	6	129	21
103.720	103.706	L-1 FULL WIDTH	74	12	98	16
103.706	103.688	L-1 INSIDE	95	6	63	10
103.434	103.426	L-1 FULL WIDTH	42	12	56	9
101.639	101.627	L-1 FULL WIDTH	63	12	84	14
100.805	100.781	L-1 FULL WIDTH	127	12	169	28
100.727	100.722	L-1 OUTSIDE	26	6	18	3
100.722	100.712	L-1 FULL WIDTH	53	12	70	11
100.682	100.669	L-1 INSIDE	69	6	46	7
100.603	100.580	L-1 INSIDE	121	6	81	13
100.557	100.531	L-1 INSIDE	137	6	92	15
100.213	100.209	L-1 INSIDE	21	6	14	2
99.285	99.267	L-1 INSIDE	95	6	63	10
99.223	99.206	L-1 INSIDE	90	6	60	10
98.488	98.482	L-1 FULL WIDTH	32	12	42	7
95.130	95.110	L-1 INSIDE	106	6	70	11
95.075	95.048	L-1 FULL WIDTH	143	12	190	31
94.966	94.949	L-1 INSIDE	90	6	60	10
94.730	94.720	L-1 INSIDE	53	6	35	6
94.710	94.697	L-1 FULL WIDTH	69	12	92	15
94.273	94.242	L-1 OUTSIDE	164	6	109	18
94.147	94.139	L-1 FULL WIDTH	42	12	56	9
94.122	94.116	L-1 FULL WIDTH	32	12	42	7
93.846	93.803	L-1 FULL WIDTH	227	12	303	49
93.634	93.628	L-1 INSIDE	32	6	21	3
93.052	93.035	L-1 FULL WIDTH	90	12	120	20
92.968	92.955	L-1 OUTSIDE	69	6	46	7
92.953	92.935	L-1 FULL WIDTH	95	12	127	21
92.314	92.286	L-1 FULL WIDTH	148	12	197	32
91.843	91.838	L-1 OUTSIDE	26	6	18	3
91.838	91.831	L-1 FULL WIDTH	37	12	49	8
91.830	91.812	L-1 OUTSIDE	95	6	63	10
91.812	91.790	L-1 FULL WIDTH	116	12	155	25
91.790	91.780	L-1 INSIDE	53	6	35	6
91.780	91.767	L-1 FULL WIDTH	69	12	92	15
90.796	90.785	L-1 INSIDE	58	6	39	6
89.916	89.905	L-1 FULL WIDTH	58	12	77	13
89.905	89.894	L-1 OUTSIDE	58	6	39	6
89.877	89.863	L-1 FULL WIDTH	74	12	99	16
89.862	89.816	L-1 OUTSIDE	243	6	162	26
89.815	89.801	L-1 FULL WIDTH	74	12	99	16
89.732	89.727	L-1 OUTSIDE	26	6	18	3
89.727	89.704	L-1 FULL WIDTH	121	12	162	26
WB SUBTOTAL (TABLE 1 OF 2)					3752	612

REPAIR FAILED AREA

BEGIN POST MILE (Fre 180)	END POST MILE (Fre 180)	LOCATION	LENGTH	WIDTH	COLD PLANE AC PAVEMENT	HMA (TYPE A)
			LF	LF	SQYD	TON
89.657	89.633	L-1 OUTSIDE	127	6	84	14
89.633	89.593	L-1 FULL WIDTH	211	12	282	46
89.395	89.358	L-1 FULL WIDTH	195	12	260	42
89.114	88.997	L-1 FULL WIDTH	618	12	824	134
88.997	88.947	L-1 OUTSIDE	264	6	176	29
88.947	88.606	L-1 FULL WIDTH	1800	12	2,401	392
88.585	88.573	L-1 FULL WIDTH	63	12	84	14
88.564	88.474	L-1 FULL WIDTH	475	12	634	103
88.454	88.425	L-1 INSIDE	153	6	102	17
88.379	88.325	L-1 OUTSIDE	285	6	190	31
88.325	88.312	L-1 FULL WIDTH	69	12	92	15
88.177	88.145	L-1 OUTSIDE	169	6	113	18
88.055	88.009	L-1 INSIDE	243	6	162	26
87.999	87.979	L-1 INSIDE	106	6	70	11
87.956	87.950	L-1 INSIDE	32	6	21	3
87.905	87.871	L-1 FULL WIDTH	180	12	239	39
87.615	87.610	L-1 OUTSIDE	26	6	18	3
87.331	87.324	L-1 OUTSIDE	37	6	25	4
87.303	87.294	L-1 OUTSIDE	48	6	32	5
87.272	87.268	L-1 OUTSIDE	21	6	14	2
86.877	86.841	L-1 INSIDE	190	6	127	21
86.683	86.610	L-1 OUTSIDE	385	6	257	42
86.449	86.428	L-1 INSIDE	111	6	74	12
86.392	86.385	L-1 OUTSIDE	37	6	25	4
86.355	86.336	L-1 OUTSIDE	100	6	67	12
86.328	86.285	L-1 OUTSIDE	227	6	150	25
85.760	85.741	L-1 OUTSIDE	100	6	67	12
85.655	85.649	L-1 OUTSIDE	32	6	21	3
85.649	85.634	L-1 FULL WIDTH	79	12	105	17
WB SUBTOTAL (TABLE 2 OF 2)					6,716	1096
WB SUBTOTAL (TABLE 1 OF 2)					3,752	612
ROUTE 180 WB TOTAL					10,468**	1708**

** INCLUDED IN ROADWAY QUANTITIES TABLE.
EXACT LOCATION AS DIRECTED BY THE ENGINEER.

ADJUST METAL BEAM GUARD RAILING ELEMENT

BEGIN POST MILE (Fre 180)	END POST MILE (Fre 180)	DIRECTION	LF
98.19	98.31	EB	634
99.23	99.32	EB	475
99.96	100.01	EB	264
100.64	100.78	EB	739
TOTAL			2112

SUMMARY OF QUANTITIES

Q-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY
DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:24

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	11	15

REGISTERED CIVIL ENGINEER 2-11-13 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER MARYAM RASTEGAR No. 65550 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

ABBREVIATION:
LNMI LANE MILE

ROADWAY QUANTITIES

LOCATIONS	COLD PLANE AC PAVEMENT	TACK COAT	HOT MIX ASPHALT	CAP HOT MIX ASPHALT DIKE	CRACK TREATMENT	SHOULDER BACKING
	SQYD	TON	TON	LF	LNMI	TON
ROUTE 63 PM 3.8 TO PM 8.4	93	12	3767		7	
ROUTE 180 PM 79.3 TO PM 104.1	436	408	28,954		50	
ROUTE 63 PM 3.8 TO PM 5						101
ROUTE 180 PM 79.3 TO PM 83.8						379
CAP HOT MIX ASPHALT DIKE		3	968	88,018		
ROUTE 63 NB REPAIR FAILED AREA	4013	2	655			
ROUTE 63 SB REPAIR FAILED AREA	5129	2	837			
ROUTE 180 EB REPAIR FAILED AREA	10,472	2	1,708			
ROUTE 180 WB REPAIR FAILED AREA	10,468	2	1,708			
TOTAL	30,611	431	38,597	88,018	57	480

PAVEMENT DELINEATION QUANTITIES

LOCATIONS	DETAIL No.	PAVEMENT MARKER (RETROREFLECTIVE)			THERMOPLASTIC TRAFFIC STRIPE					THERMOPLASTIC PAVEMENT MARKING		REMOVE THERMOPLASTIC PAVEMENT MARKING	REMOVE THERMOPLASTIC TRAFFIC STRIPE	REMOVE PAVEMENT MARKER (N)
		TYPE D TWO-WAY YELLOW	TYPE G ONE-WAY CLEAR	TYPE H ONE-WAY YELLOW	4" (BROKEN 36-12)	4" (BROKEN 12-3)	4" WHITE	4" YELLOW	8" WHITE					
		EA	EA	EA	LF	LF	LF	LF	LF	DESCRIPTION	SQFT	SQFT	LF	EA
ROUTE 63 PM 3.8 TO PM 8.4	6	198			9451					2- STOP	44	44		198
	19	68		133	3,168			3,168		1- AHEAD	31	31		201
	22	958						22,916		LIMIT LINE	62	62		958
	27B						48,154							
	27C					63								
ROUTE 180 PM 79.3 TO PM 104.1	5				1,901					9- STOP	198	198		
	6	346			16,580					2-TYPE IV (L) ARROW	30	30		346
	18				5,597			5,597		LIMIT LINE	462	462		
	19	490		976	23,390			23,390						1466
	21							72,864						
	22	3972						95,251						3972
	27B						279,518							
	27C					2447								
	29	38						1,690						38
	38		8						167				334	
	38A								2047				4094	8
SUBTOTAL		6070	8	1109	60,087	2510	327,672	224,876	2214		827	827	4428	
TOTAL		7187			60,087	2510	552,548		2214		827	827	4428	

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

SUMMARY OF QUANTITIES

Q-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PAVEMENT PRESERVATION

FUNCTIONAL SUPERVISOR: RENE SANCHEZ
CALCULATED-DESIGNED BY: MARYAM RASTEGAR
CHECKED BY: RENE SANCHEZ
REVISED BY / DATE REVISED

LAST REVISION 02-11-13
DATE PLOTTED => 04-MAR-2013
TIME PLOTTED => 09:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	12	15

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

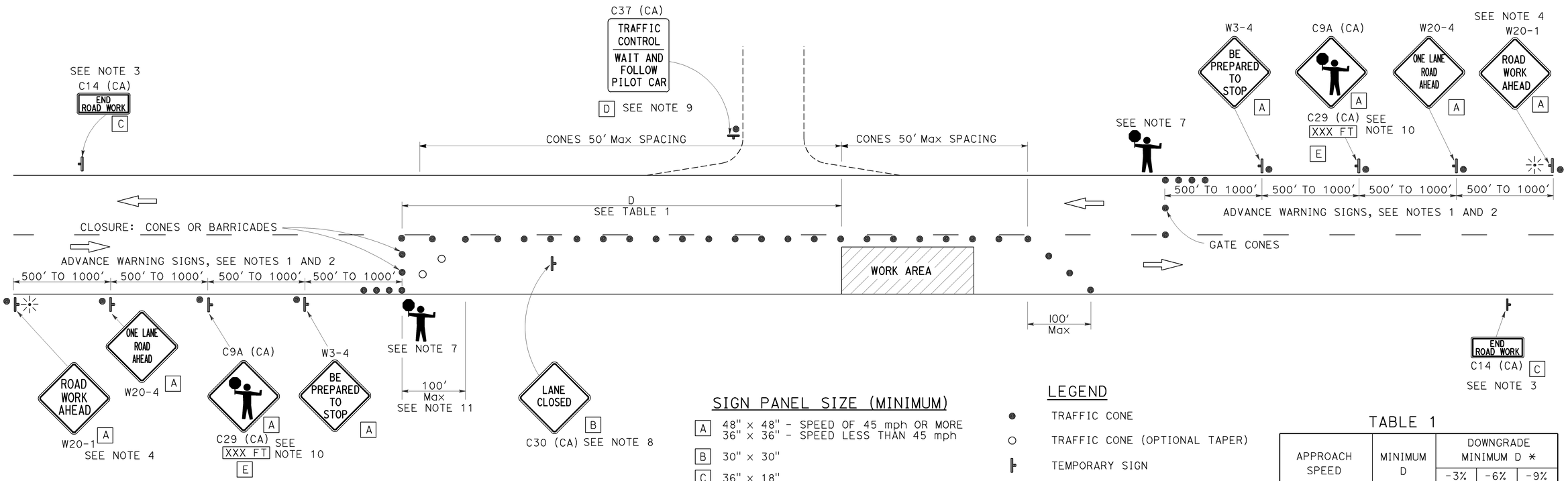
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

A	48" x 48" - SPEED OF 45 mph OR MORE 36" x 36" - SPEED LESS THAN 45 mph
B	30" x 30"
C	36" x 18"
D	36" x 42"
E	36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR | CALCULATED-DESIGNED BY | CHECKED BY | REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 10-DEC-2012 | TIME PLOTTED => 09:45

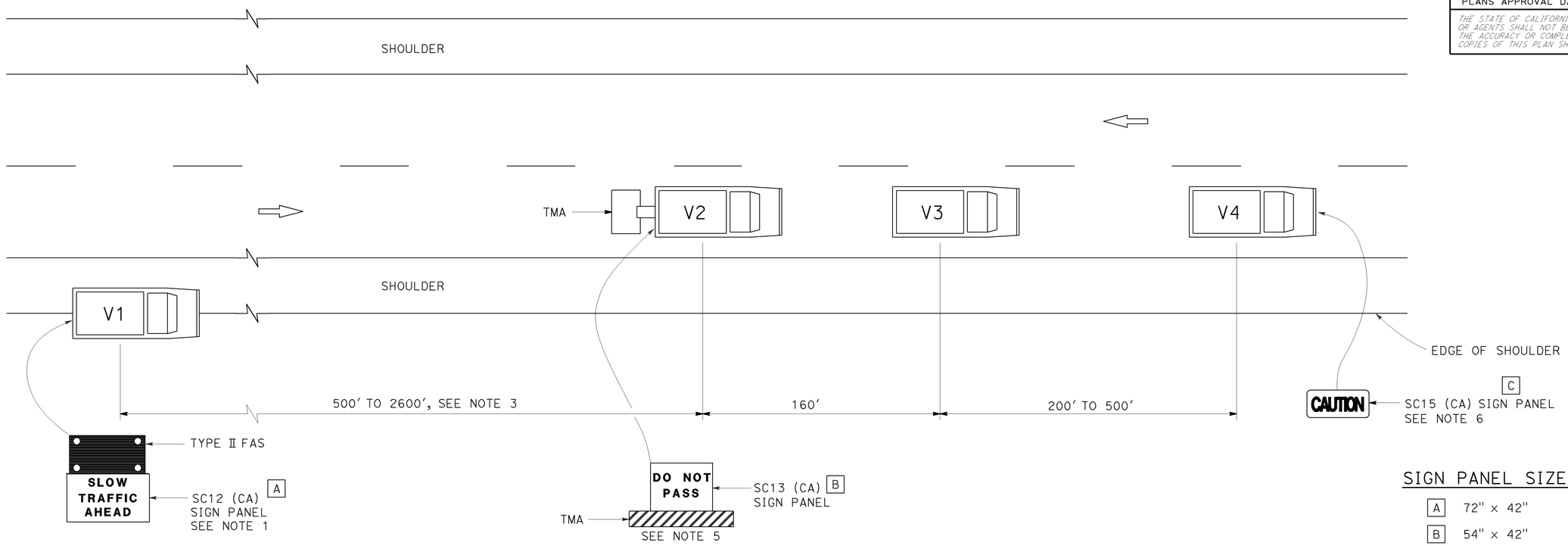
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4 79.3/104.1	13	15

REGISTERED CIVIL ENGINEER 12-7-12 DATE

2-11-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 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.



SIGN PANEL SIZE (Min)

A	72" x 42"
B	54" x 42"
C	54" x 24"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
V4	SIGN VEHICLE
TMA	TRUCK-MOUNTED ATTENUATOR
	FLASHING ARROW SIGN (FAS) IN FLASHING CAUTION MODE

NOTES:

1. Either a changeable message sign or a SC12 (CA) "SLOW TRAFFIC AHEAD" sign shall be mounted on the rear of sign vehicle V1. A Type II flashing arrow sign may be used with the SC12 (CA) sign panel.
2. Sign vehicle V1 should be positioned where highly visible when shoulders are not available.
3. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue.
4. Vehicle-mounted sign panels shall be Type III, IV VII, VIII or IX retroreflective sheeting, black on white, black on orange, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
5. Gross Vehicle Weight of shadow vehicle shall be a minimum of 20,000 pounds and shall be equipped with a truck-mounted attenuator. The sign panel shown shall be mounted on the rear of shadow vehicle V2. The message "LANE CLOSED" may be used in place of the "DO NOT PASS" message.
6. The sign panel shown shall be mounted on the front of sign vehicle V4, facing opposing traffic.
7. All vehicles shall be equipped with flashing or rotating amber lights.
8. Sign vehicle V4 will not be required when the work and vehicles V2 and V3 are 2' or more from the centerline of the highway during the work or application operations.
9. All vehicles used for lane closures shall be equipped with two-way radios and the vehicle operators shall maintain communication during the work or application operation.
10. When multiple work vehicles are used in close proximity to each other, only one shadow vehicle is required and spacing between work vehicles shall be minimized in order to deter traffic from entering the closed lane.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON TWO LANE HIGHWAYS

NO SCALE

TCS-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

FUNCTIONAL SUPERVISOR
CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 10-DEC-2012
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	14	15

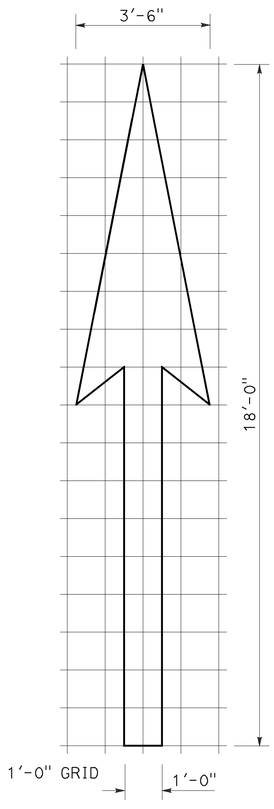
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

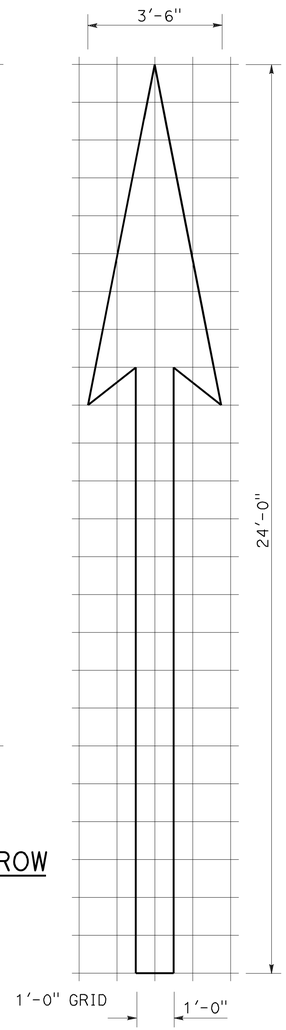
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 2-11-13



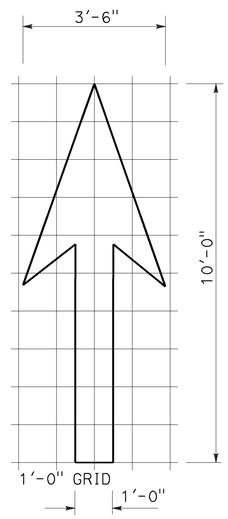
A=25 ft^2

TYPE I 18'-0" ARROW



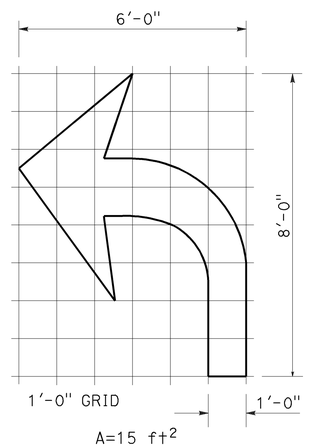
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

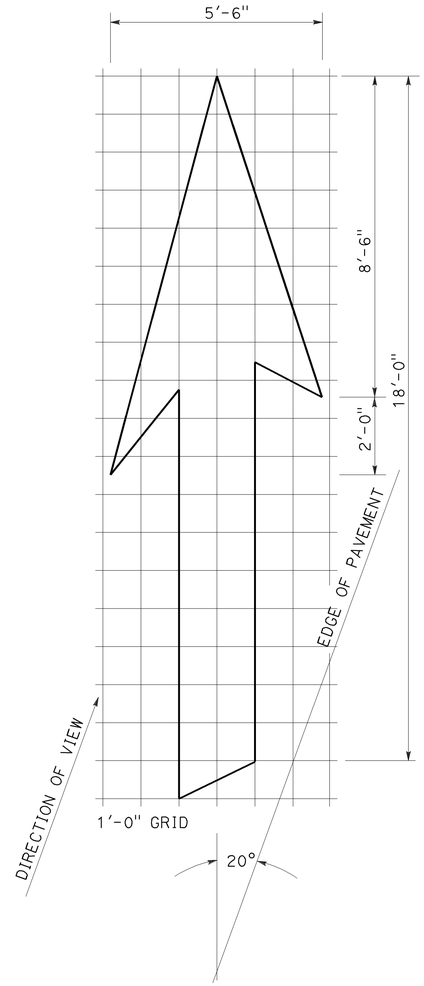
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

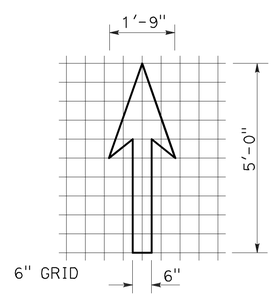
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

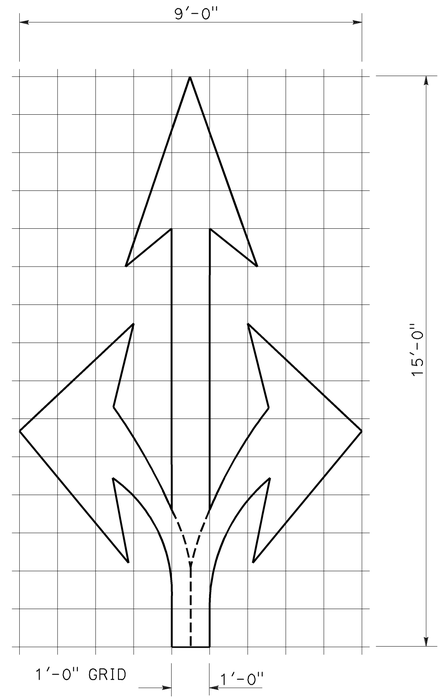
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



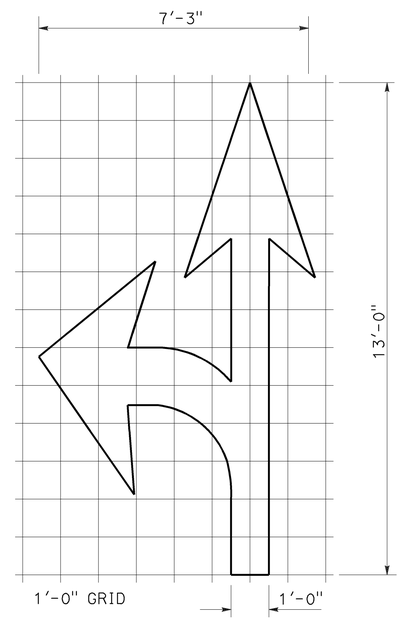
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

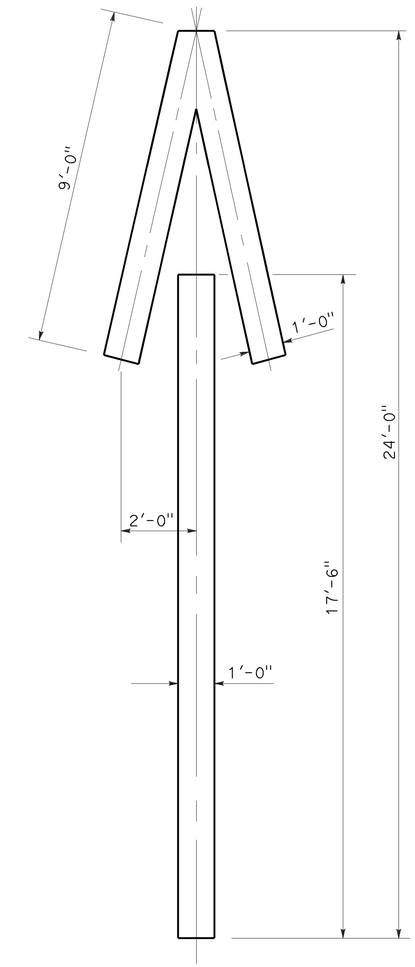
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
06	Fre	63,180	3.8/8.4, 79.3/104.1	15	15

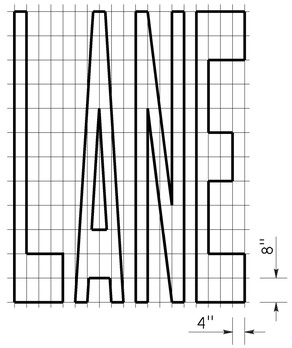
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

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

TO ACCOMPANY PLANS DATED 2-11-13



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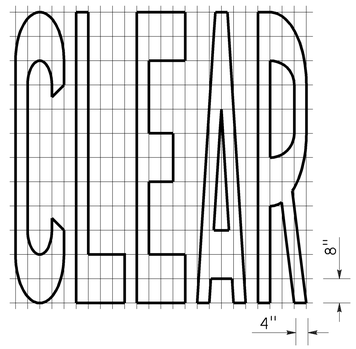

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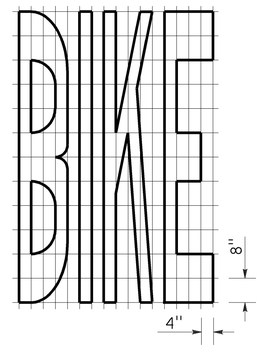
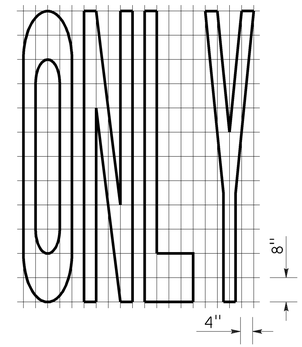
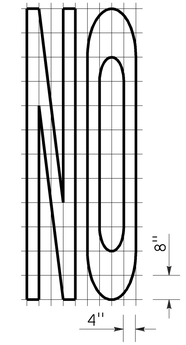


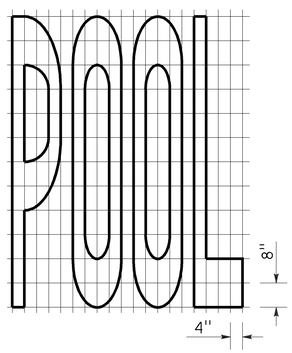
A=21 ft²



A=22 ft²



A=14 ft²



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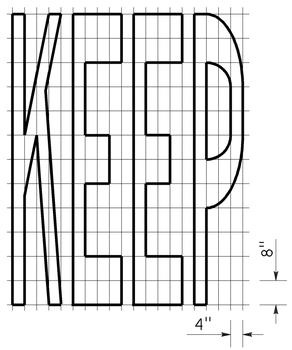
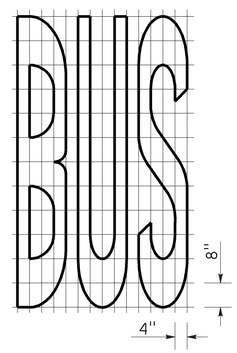


A=24 ft²



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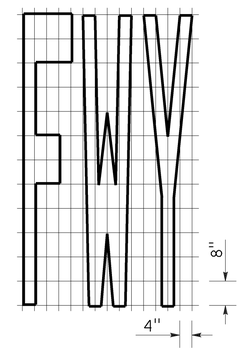

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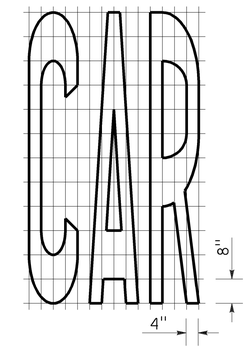
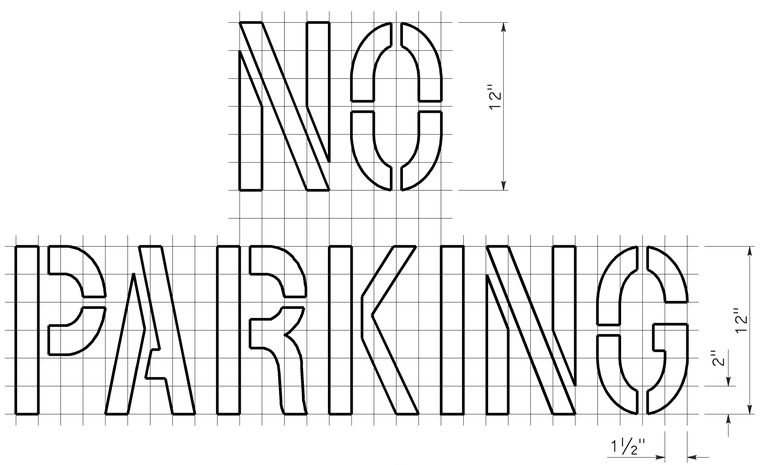
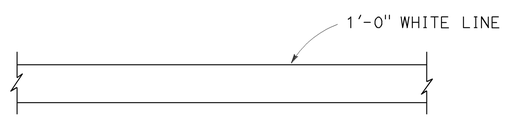


A=17 ft²

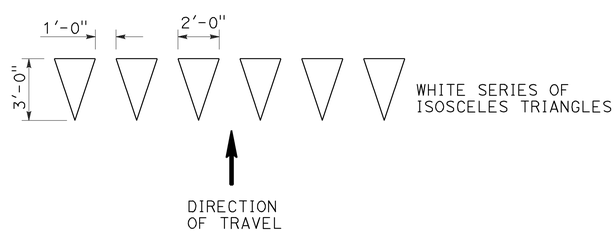
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



A=2 ft²
See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12