Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	1	26

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

ACSTP-P026(027)E

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN SAN JOAQUIN COUNTY
IN AND NEAR STOCKTON
FROM ROUTE 26/99 SEPARATION TO NORD AVENUE
AND FROM THOMPSON ROAD TO WIMER ROAD

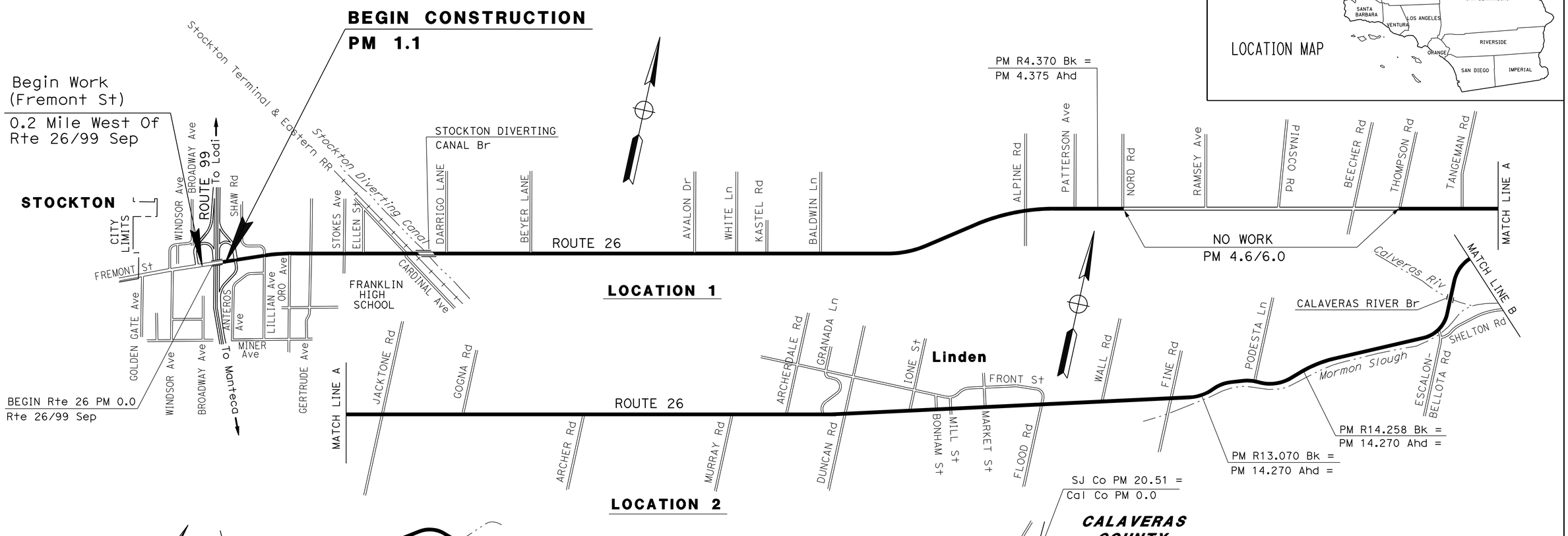
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRITPTION
1	TITLE AND LOCATION MAP
2	TYPICAL CROSS SECTION
3-10	CONSTRUCTION DETAILS
11	CONSTRUCTION AREA SIGNS
12-15	SUMMARY OF QUANTITIES
16-20	ELECTRICAL PLANS
21-22	TRAFFIC CONTROL SYSTEM PLANS
23-26	REVISED STANDARD PLAN

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."

PROJECT MANAGER: ALVIN MANGINDIN

DESIGN ENGINEER: ALVIN MANGINDIN

PROJECT ENGINEER / REGISTERED CIVIL ENGINEER — DATE: 9/26/12

REGISTERED PROFESSIONAL ENGINEER — JOSE A. ALICEA II — No. 64817 — Exp. 6/30/13 — CIVIL — STATE OF CALIFORNIA

December 10, 2012

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.	10-0V9204
PROJECT ID	1000020567

LAST REVISION 00-00-00 — DATE PLOTTED => 23-JAN-2013 — TIME PLOTTED => 13:09

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	2	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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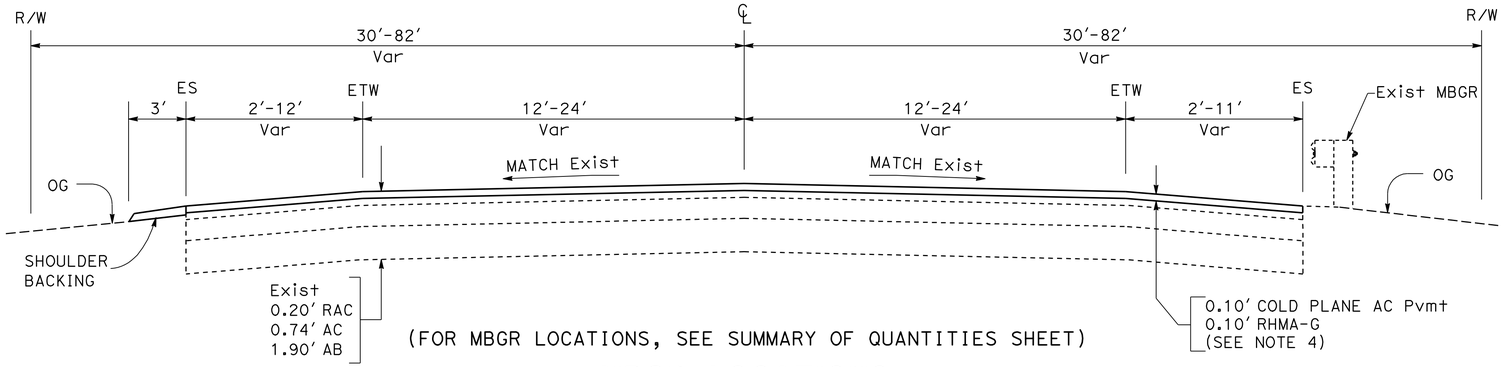
NOTES:

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. FOR COLD PLANE AC PAVEMENT DIMENSIONS AND LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.
5. FOR MBGR LOCATIONS SEE SUMMARY OF QUANTITIES.
6. FOR HMA DIKE AND CAP HMA DIKE LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET.

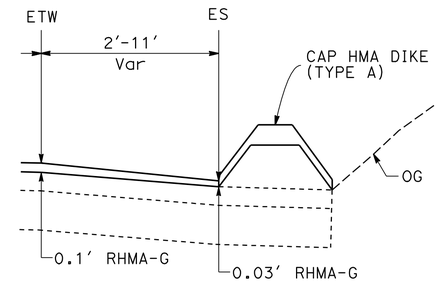
ABBREVIATION:

RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



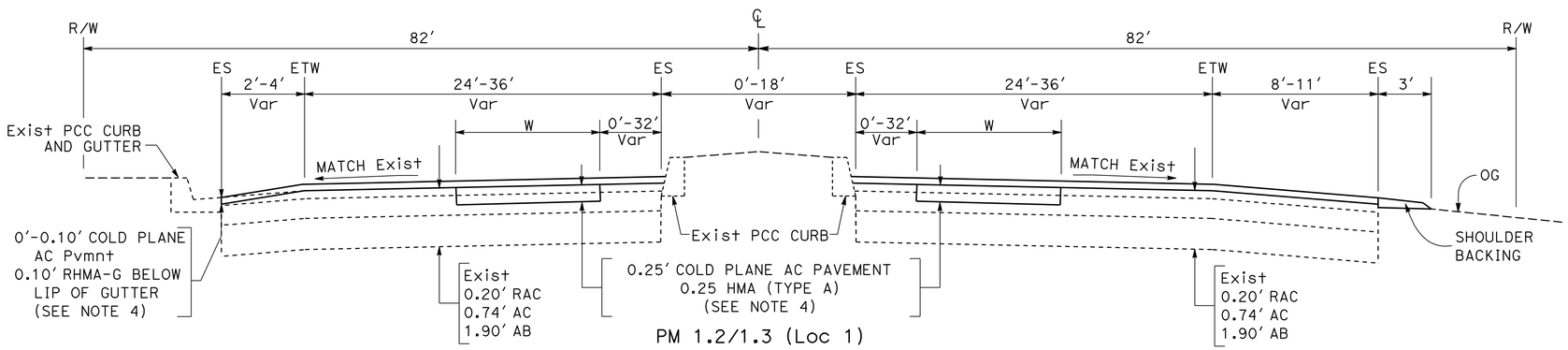
(FOR MBGR LOCATIONS, SEE SUMMARY OF QUANTITIES SHEET)

MBGR LOCATIONS

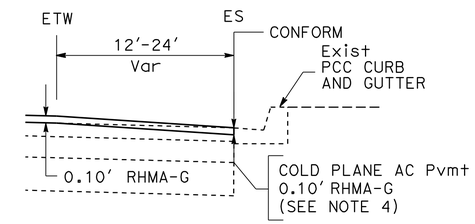


(SEE CONSTRUCTION DETAIL ON SHEET C-2)

CAP HMA DIKE

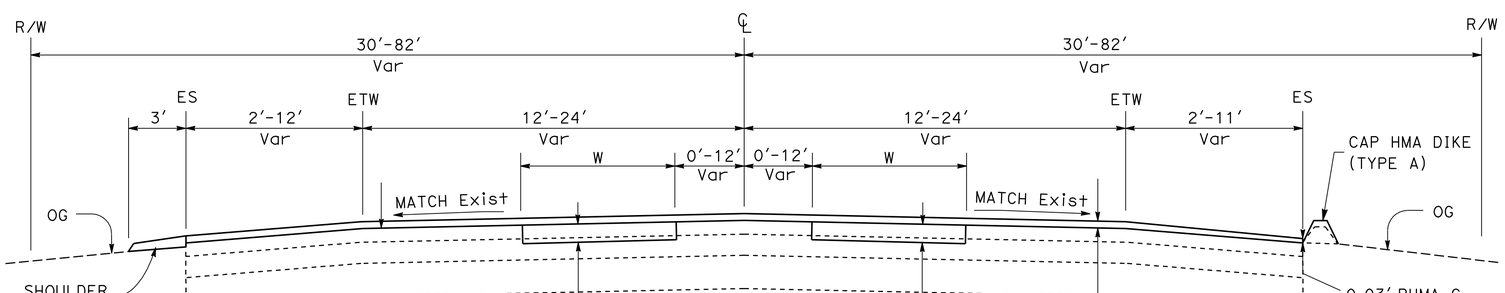


PM 1.2/1.3 (Loc 1)



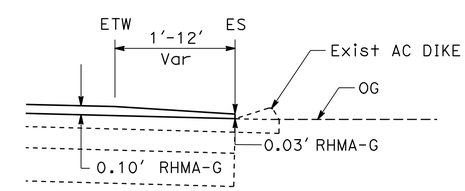
PM 1.18/1.28 (Lt)
PM 9.81/10.00 (Lt)
PM 10.56/10.84 (Rt)

CURB & GUTTER LOCATIONS



PM 1.1/1.2 (Loc 1)
PM 1.3/4.6 (Loc 1)
PM 6.0/20.3 (Loc 2)

ROUTE 26



PM 2.08/2.11 (Rt)
PM 14.96/15.20 (Rt)
PM 15.60/15.65 (Lt)

AC DIKE LOCATIONS

TYPICAL CROSS SECTIONS

NO SCALE

X-1

JAA	12/10/12
REVISED BY	DATE REVISED
JOSE ALICEA II	THOA HUYNH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 13:09

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12/10/12
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LEGEND

- COLD PLANE AC PAVEMENT RHMA-G
- COLD PLANE AC PAVEMENT HMA (TYPE A)
- RUMBLE STRIPS
- DELINEATORS
- WATER VALVE
- GAS VALVE

MARKERS

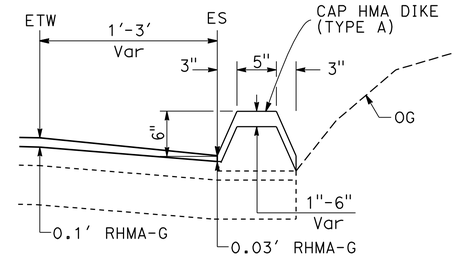
- TYPE D TWO-WAY YELLOW REFLECTIVE

STRIPING

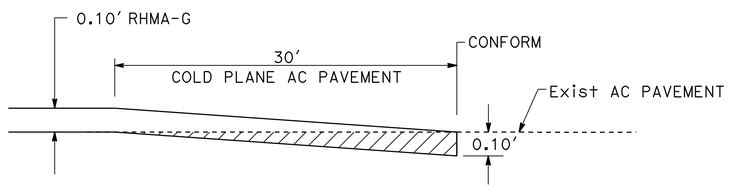
- THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) 4" YELLOW
- EXISTING 4" YELLOW THERMOPLASTIC TRAFFIC STRIPE

ABBREVIATION

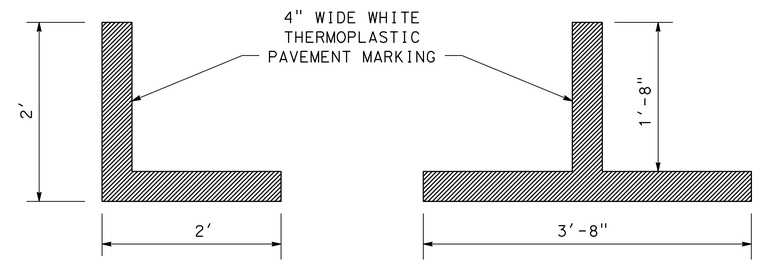
RHMA-G - RUBBERIZED HOT MIX ASPHALT (GAP GRADED)



CAP AC DIKE

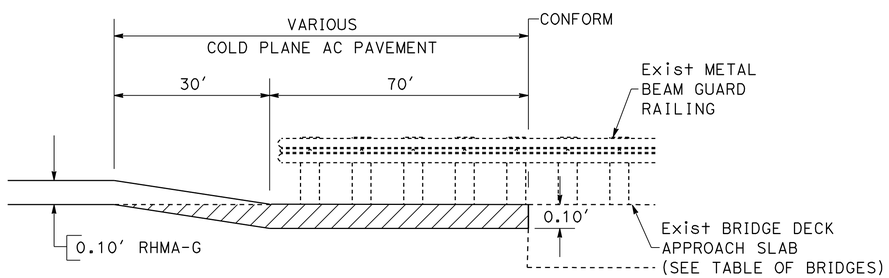


LONGITUDINAL CONFORM TAPER AT EXISTING AC PAVEMENT



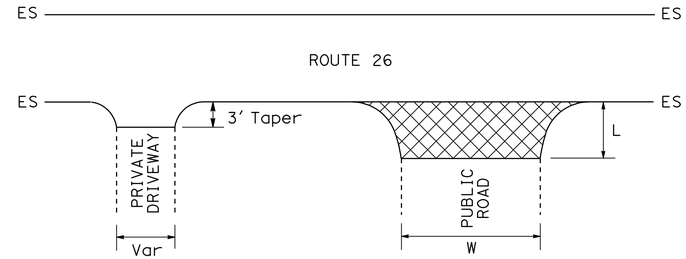
PM 10.70 TO 10.76

PARKING STALL MARKING



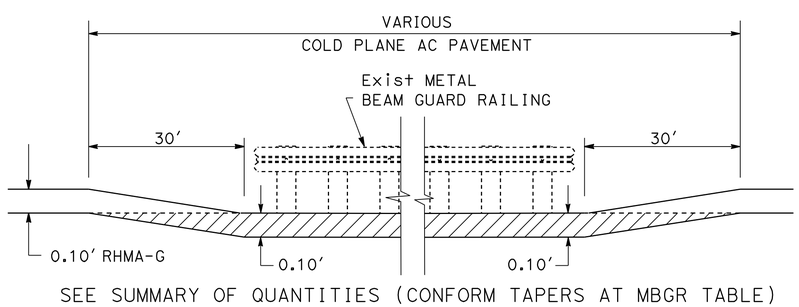
SEE SUMMARY OF QUANTITIES (CONFORM TAPERS TABLE)

CONFORM TAPER AT APPROACH/DEPARTURE BRIDGE DECK



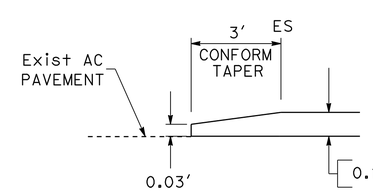
SEE PUBLIC ROAD INTERSECTIONS AND PRIVATE DRIVEWAY TABLES

PAVING LIMITS AT PRIVATE DRIVEWAYS AND PUBLIC ROAD INTERSECTIONS

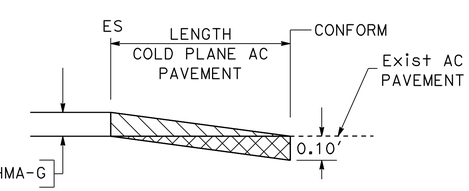


SEE SUMMARY OF QUANTITIES (CONFORM TAPERS AT MBGR TABLE)

CONFORM TAPER AT METAL BEAM GUARD RAIL



PRIVATE DRIVEWAY CONFORM TAPER



PUBLIC ROAD CONFORM TAPER

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR
JAA	12/10/12	JOSE ALICEA II	THOA HUYNH	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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PRIVATE DRIVEWAYS

Loc	PM	SIDE	W	Loc	PM	SIDE	W	Loc	PM	SIDE	W	Loc	PM	SIDE	W
1	1.30	Lt	42′	1	2.86	Rt	38′	2	6.49	Lt	38′	2	11.03	Lt	40′
	1.31	Rt	25′		2.88	Lt	28′		6.58	Lt	33′		11.04	Lt	38′
	1.32	Lt	35′		2.92	Lt	40′		6.66	Lt	40′		11.04	Rt	34′
	1.33	Rt	55′		2.96	Lt	30′		6.66	Rt	65′		11.17	Lt	60′
	1.34	Lt	20′		3.05	Lt	28′		6.68	Lt	40′		11.19	Lt	18′
	1.36	Lt	27′		3.22	Lt	27′		6.77	Rt	27′		11.25	Rt	35′
	1.38	Lt	25′		3.27	Lt	30′		6.93	Lt	22′		11.32	Rt	40′
	1.48	Rt	70′		3.46	Lt	40′		6.97	Lt	25′		11.41	Rt	150′
	1.52	Lt	25′		3.54	Lt	40′		7.13	Lt	20′		11.55	Lt	28′
	1.53	Rt	50′		3.56	Lt	40′		7.22	Lt	30′		11.59	Lt	40′
	1.54	Lt	30′		3.79	Lt	40′		7.28	Lt	48′		11.66	Lt	30′
	1.56	Rt	35′		3.81	Lt	18′		7.56	Lt	110′		11.84	Lt	20′
	1.63	Lt	75′		3.83	Lt	23′		7.86	Lt	63′		12.20	Lt	35′
	1.66	Lt	43′		3.84	Lt	13′		8.12	Lt	66′		12.28	Lt	35′
	1.68	Rt	35′		3.84	Rt	25′		8.24	Lt	45′		12.80	Lt	22′
	1.68	Lt	35′		3.86	Lt	20′		8.27	Lt	80′		R12.83	Rt	50′
	1.69	Lt	28′		3.87	Rt	20′		8.27	Rt	30′		R12.86	Lt	20′
	1.73	Lt	160′		3.87	Lt	20′		8.42	Rt	35′		R12.92	Lt	35′
	1.76	Lt	75′		3.89	Lt	20′		8.44	Rt	30′		R12.97	Lt	35′
	1.78	Lt	40′		3.92	Lt	20′		8.69	Lt	30′		13.13	Lt	80′
	1.97	Lt	45′		3.93	Lt	25′		8.90	Lt	75′		13.29	Lt	27′
	2.10	Lt	25′		3.95	Lt	20′		8.85	Lt	40′		R13.85	Lt	45′
	2.13	Rt	25′		3.97	Lt	30′		8.88	Lt	50′		R14.14	Lt	94′
	2.14	Rt	25′		3.98	Lt	36′		8.97	Lt	38′		R14.14	Rt	78′
	2.18	Rt	25′		4.00	Lt	30′		9.35	Rt	50′		14.46	Lt	42′
	2.21	Lt	25′		4.02	Lt	25′		9.42	Rt	25′		14.52	Lt	105′
	2.21	Rt	25′		4.04	Lt	25′		9.57	Rt	40′		14.92	Lt	22′
	2.33	Lt	25′		4.08	Lt	30′		9.64	Lt	38′		14.94	Lt	30′
	2.33	Lt	25′		4.08	Rt	40′		9.71	Lt	50′		14.95	Lt	30′
	2.34	Lt	20′		4.10	Lt	48′		9.73	Rt	55′		15.13	Lt	25′
	2.36	Lt	20′		R4.28	Lt	22′		9.76	Lt	50′		15.18	Lt	25′
	2.37	Lt	20′		R4.32	Lt	60′		10.07	Lt	38′		15.24	Lt	80′
	2.40	Lt	90′		R4.36	Lt	25′		10.09	Lt	35′		15.25	Lt	40′
	2.42	Lt	40′		4.38	Lt	34′		10.11	Lt	28′		15.34	Lt	150′
	2.55	Lt	143′		4.40	Lt	25′		10.19	Lt	37′		15.38	Rt	50′
	2.66	Lt	24′		4.47	Lt	30′		10.23	Lt	38′		15.41	Lt	45′
	2.66	Rt	28′		4.49	Lt	20′		10.31	Lt	65′		15.60	Lt	90′
	2.72	Rt	30′		4.50	Lt	20′		10.35	Lt	38′		15.64	Rt	62′
	2.73	Lt	25′		4.52	Lt	50′		10.41	Lt	49′		16.58	Lt	82′
	2.75	Lt	20′		4.58	Lt	35′		10.57	Lt	34′		17.07	Rt	30′
	2.76	Lt	20′		4.61	Lt	35′		10.57	Rt	43′		17.10	Rt	30′
	2.76	Rt	20′	2	6.12	Lt	38′		10.60	Lt	86′		17.70	Rt	100′
	2.78	Rt	35′		6.27	Rt	25′		10.92	Lt	92′		17.89	Lt	70′
	2.86	Lt	35′		6.34	Lt	35′		10.99	Lt	35′		20.00	Lt	55′

PRIVATE DRIVEWAY WIDTHS AND LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS AND WIDTHS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.

TABLE OF BRIDGES

Loc	PM	BRIDGE NAME	BRIDGE No.
1	1.11	ROUTE 26/99 SEPARATION	29-0142
	1.90	STOCKTON DIVERTING CANAL	29-0040
2	15.30	CALAVERAS RIVER	29-0041
	16.87	DUCK CREEK	29-0042
	18.77	SANDSTONE CREEK	29-0066

PUBLIC ROAD INTERSECTIONS

Loc	PM	SIDE	ROAD NAME	LENGTH	WIDTH	Loc	PM	SIDE	ROAD NAME	LENGTH	WIDTH
1	1.18	Rt	Rte 99 NB OFF-RAMP	50′	54′	2	6.85	Rt	JACKTONE Rd	30′	40′
	1.18	Lt	Rte 99 NB ON/OFF-RAMP	65′	80′		6.85	Lt	JACKTONE Rd	30′	30′
	1.28	Rt	LILLIAN Ave	60′	20′		7.32	Lt	GOGNA Rd	25′	25′
	1.28	Lt	SHAW Ave	35′	40′		8.92	Rt	MURRAY Rd	25′	25′
	1.38	Rt	ORO Ave	30′	40′		9.46	Lt	ARCHERDALE Rd	50′	20′
	1.47	Rt	GERTRUDE Ave	40′	25′		9.86	Lt	GRANADA Ln	30′	40′
	1.60	Rt	FRANKLIN HIGH SCHOOL	35′	80′		10.00	Rt	DUNCAN Rd	38′	35′
	1.60	Lt	STOKES Ave	40′	30′		10.00	Lt	DUNCAN Rd	40′	35′
	1.67	Lt	ELLEN St	20′	30′		10.53	Lt	IONE St	35′	25′
	1.88	Rt	CARDINAL Ave OFF-RAMP	30′	20′		10.65	Lt	BONHAM St	30′	30′
	1.88	Rt	CARDINAL Ave	30′	58′		10.70	Rt	MILL St	25′	40′
	2.00	Lt	DARRIGO Ln	65′	20′		10.70	Lt	MILL St	20′	40′
	2.26	Lt	BEYER Ln	55′	45′		10.78	Lt	MARKET St	30′	30′
	2.70	Lt	AVALON Dr	50′	24′		11.08	Rt	FLOOD Rd	25′	25′
	2.81	Lt	WHITE Ln	45′	22′		11.08	Lt	FRONT St	25′	30′
	3.13	Lt	BALDWIN Ln	40′	18′		11.38	Lt	WALL Rd	30′	30′
	4.22	Rt	ALPINE Rd	65′	40′		12.67	Rt	FINE Rd	35′	40′
	4.22	Lt	ALPINE Rd	70′	30′		12.67	Lt	FINE Rd	40′	30′
	4.43	Lt	PATTERSON Ave	25′	20′		15.06	Rt	ESCALON BELLOTA Rd	60′	50′
	4.63	Lt	NORD Ave	40′	18′		19.03	Rt	SHELLEY Rd	45′	20′
2	6.04	Lt	THOMPSON Rd	35′	25′		20.30	Rt	WIMER Rd	85′	30′
	6.43	Lt	TANGEMAN Rd	30′	20′		20.30	Lt	WIMER Rd	90′	20′

SEE CONSTRUCTION AREA SIGNS FOR ALL PUBLIC ROAD LOCATIONS.

CONSTRUCTION DETAILS

NO SCALE

C-2

REVISED BY	DATE REVISED	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY
JAA	12/10/12	ALVIN MANGINDIN	JOSE ALICEA II	THOA HUYNH

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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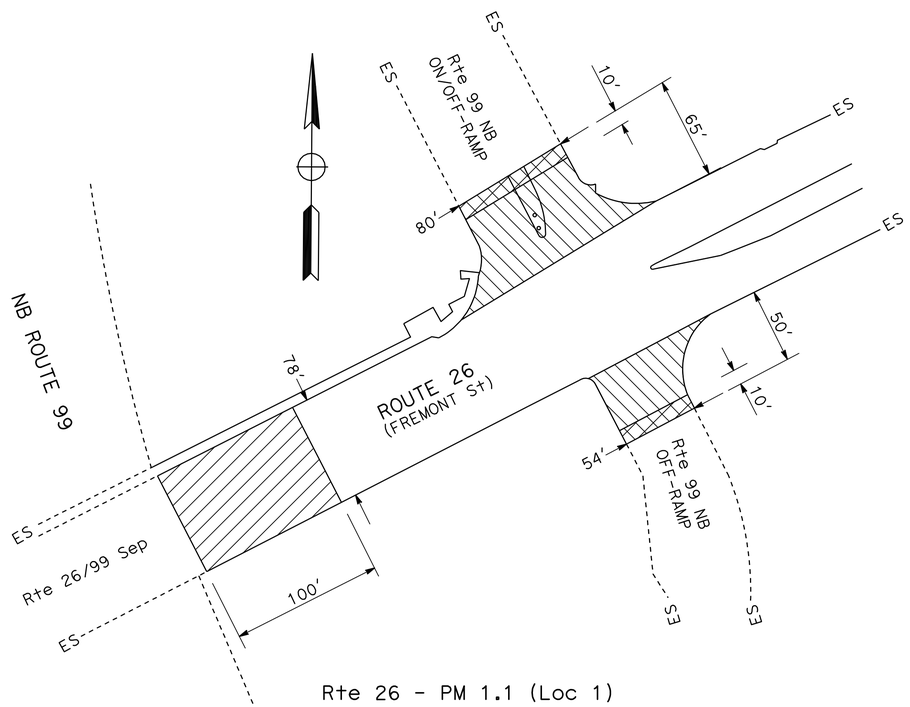
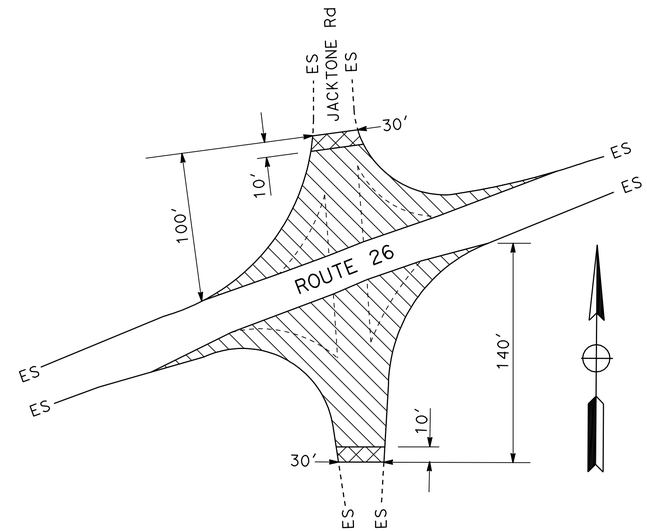


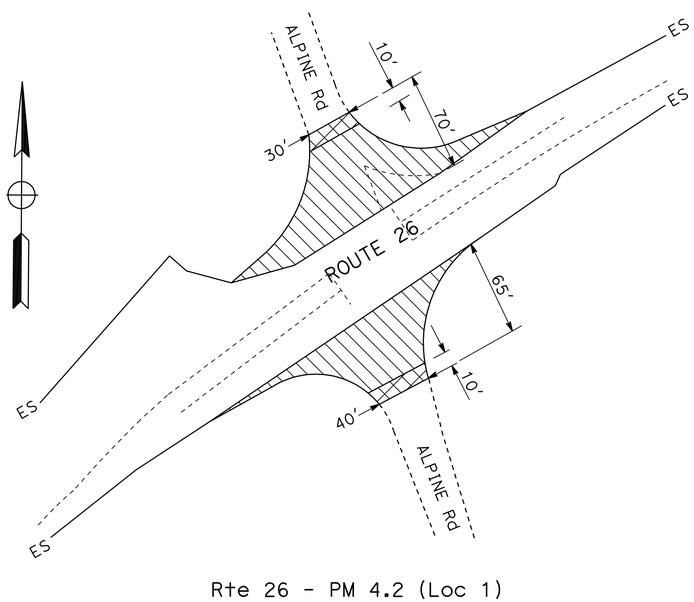
Rte 26 - PM 1.1 (Loc 1)

PAVING LIMIT AT FREMONT STREET ON/OFF-RAMPS



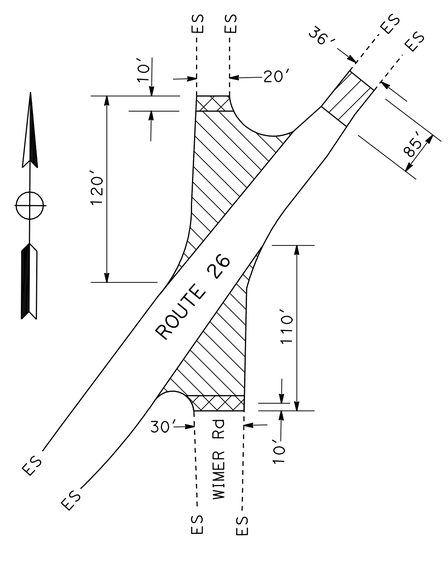
Rte 26 - PM 6.9 (Loc 2)

PAVING LIMIT AT JACKTONE ROAD



Rte 26 - PM 4.2 (Loc 1)

PAVING LIMIT AT ALPINE ROAD



Rte 26 - PM 20.3 (Loc 2)

PAVING LIMIT AT WIMER ROAD

CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY	JAA
DATE REVISED	12/10/12
JOSE ALICEA II	
THOA HUYNH	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ALVIN MANGINDIN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **MAINTENANCE**

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	6	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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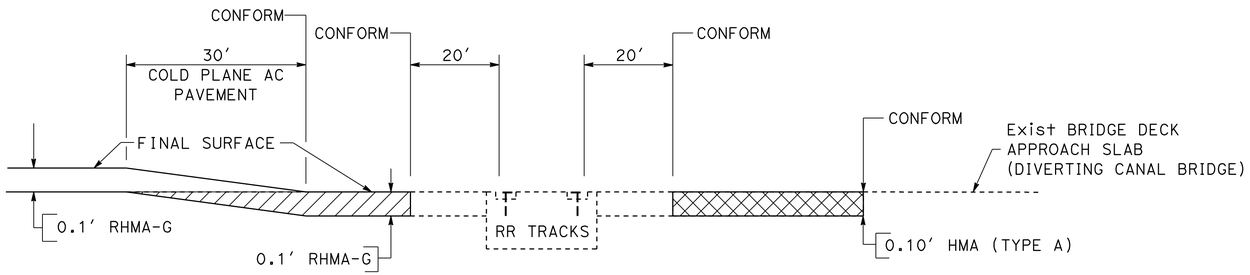
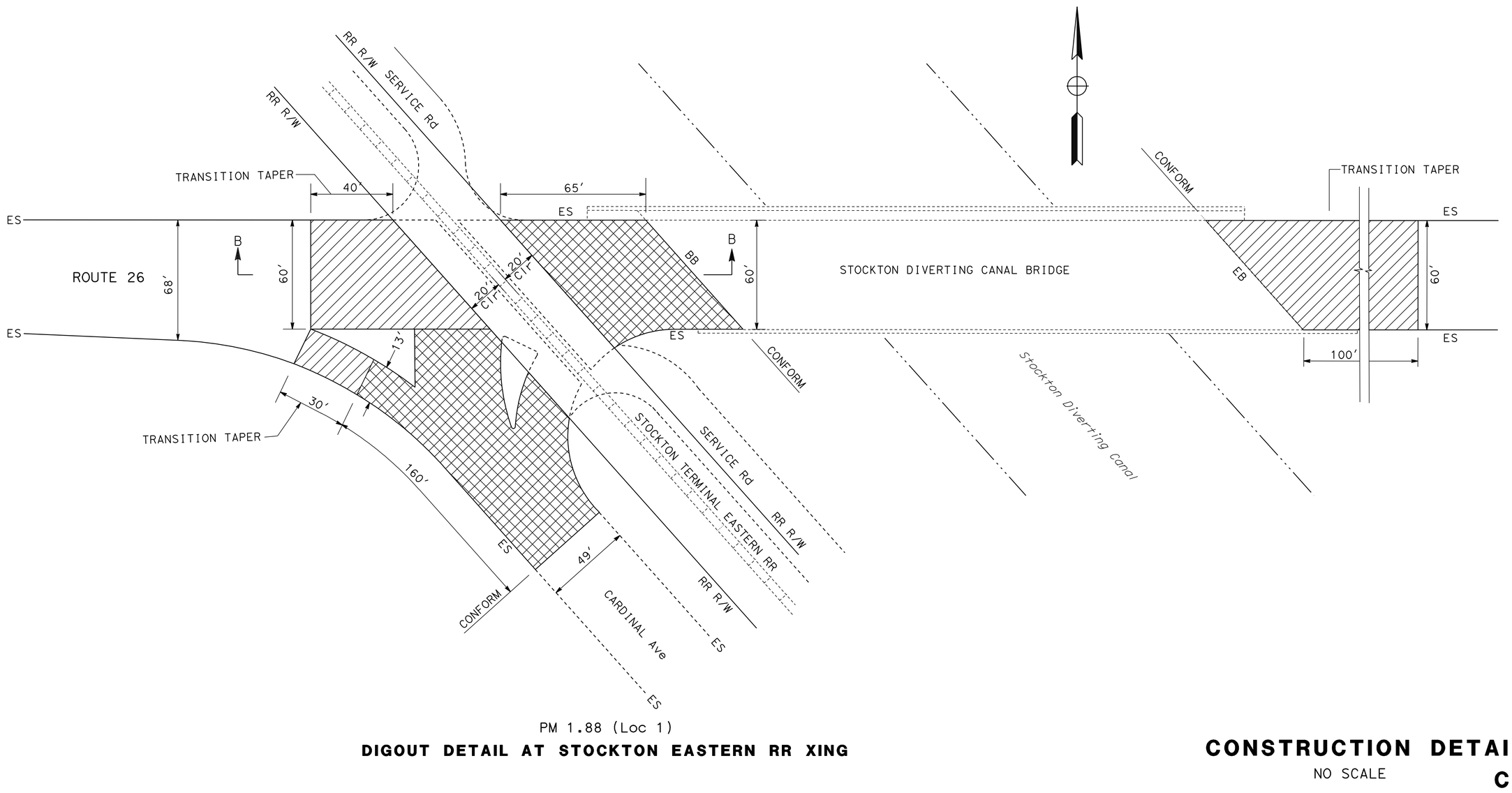


SECTION B-B



PM 1.88 (Loc 1)

DIGOUT DETAIL AT STOCKTON EASTERN RR XING

CONSTRUCTION DETAILS

NO SCALE

C-4

CALCULATED-DESIGNED BY	JOSE ALICEA II
CHECKED BY	THOA HUYNH
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN
REVISED BY	JAA
DATE REVISED	12/10/12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **MAINTENANCE**

LAST REVISION 00-00-00
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TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	7	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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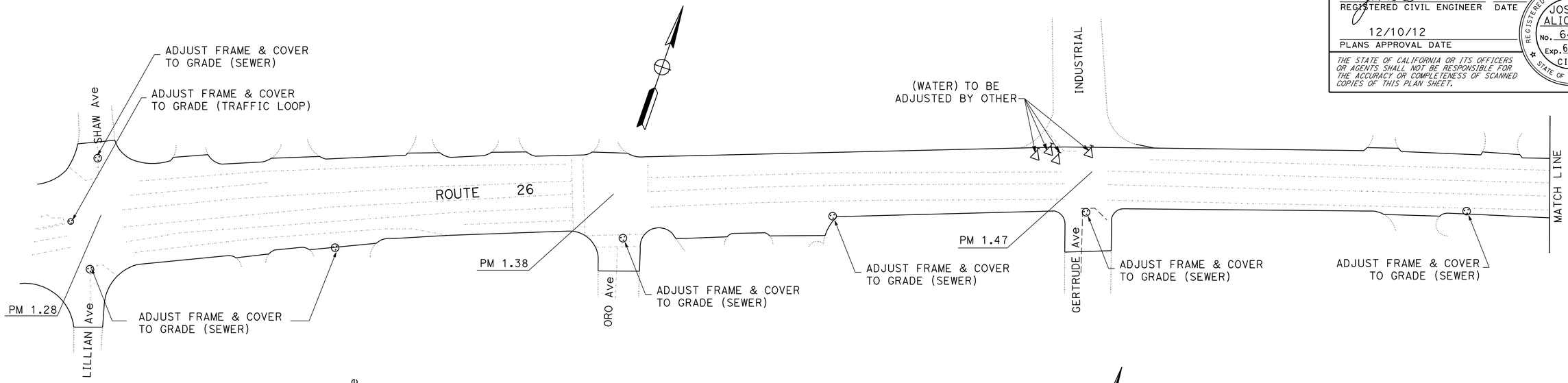
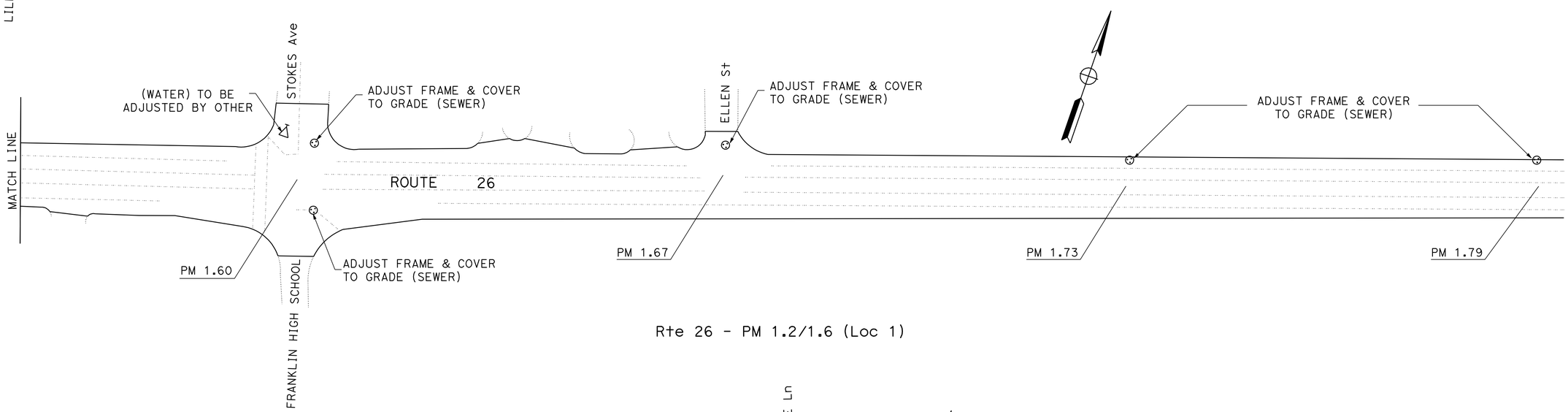
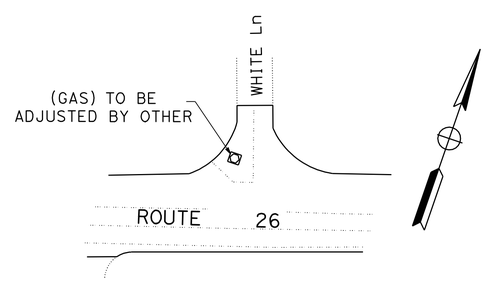




Rte 26 - PM 1.2/1.6 (Loc 1)



Rte 26 - PM 2.81 (Loc 1)
WHITE LANE

ADJUST FRAME AND COVER TO GRADE LOCATIONS

CONSTRUCTION DETAIL
NO SCALE **C-5**

JAA	10/08/12
REVISED BY	DATE REVISED
JOSE ALICEA II	THOA HUYNH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **MAINTENANCE**

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	8	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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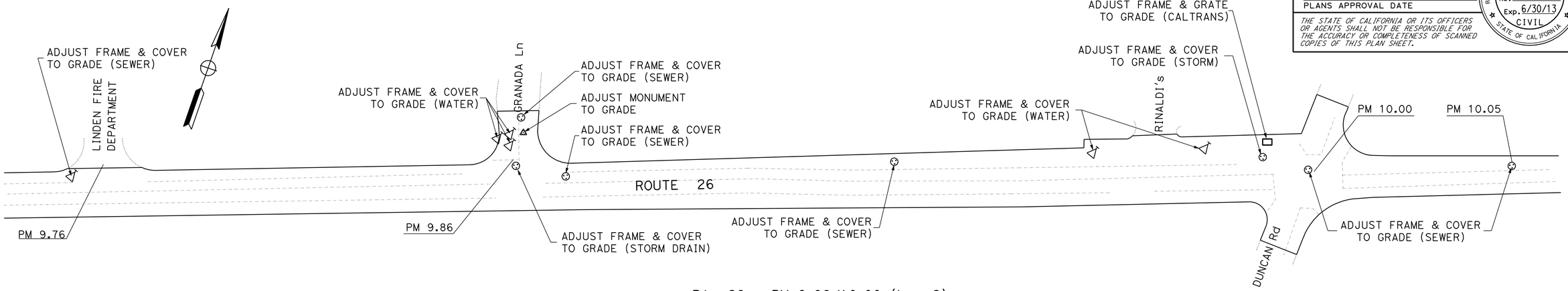
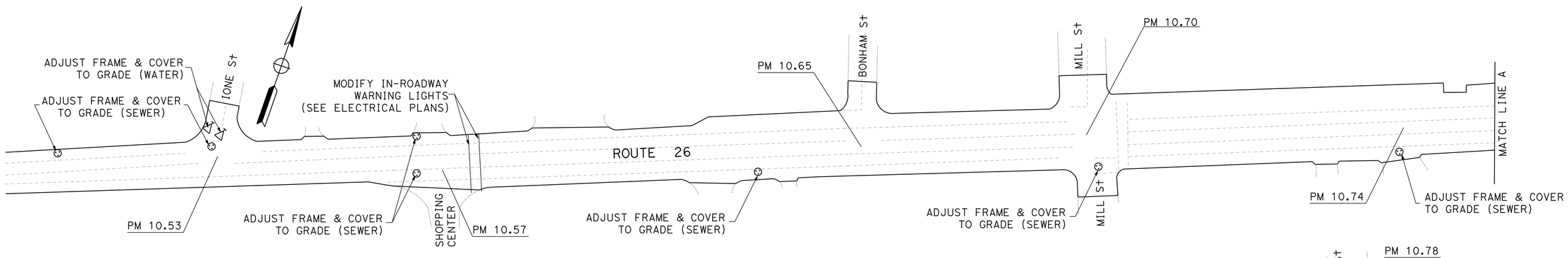
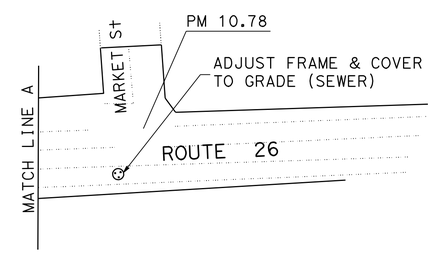
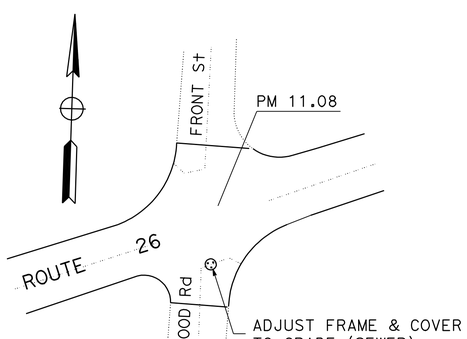


Rte 26 - PM 9.86/10.00 (Loc 2)



Rte 26 - PM 10.53/10.82 (Loc 2)





Rte 26 - PM 11.08 (Loc 2)

ADJUST FRAME AND COVER TO GRADE LOCATIONS

CONSTRUCTION DETAIL C-6

NO SCALE

JAA	12/10/12
REVISED BY	DATE REVISED
JOSE ALICEA II	THOA HUYNH
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	9	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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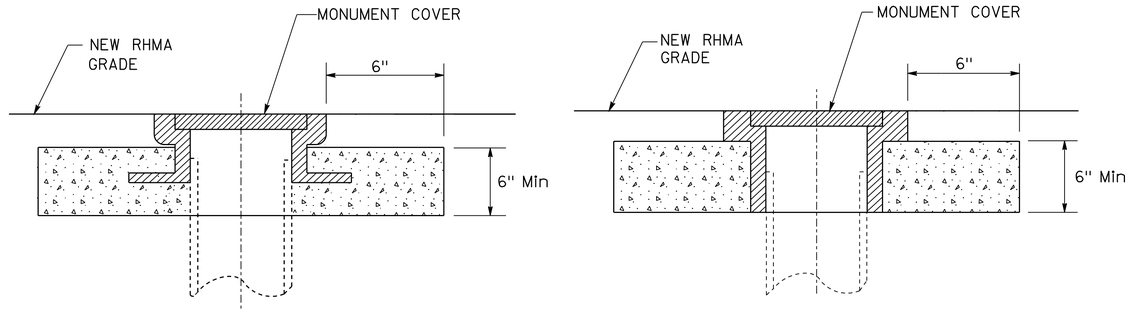
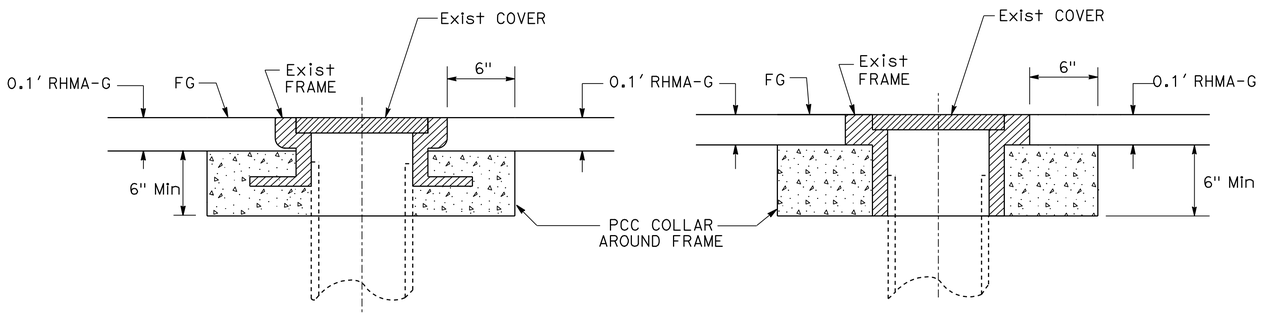


ALTERNATIVE 1 ALTERNATIVE 2

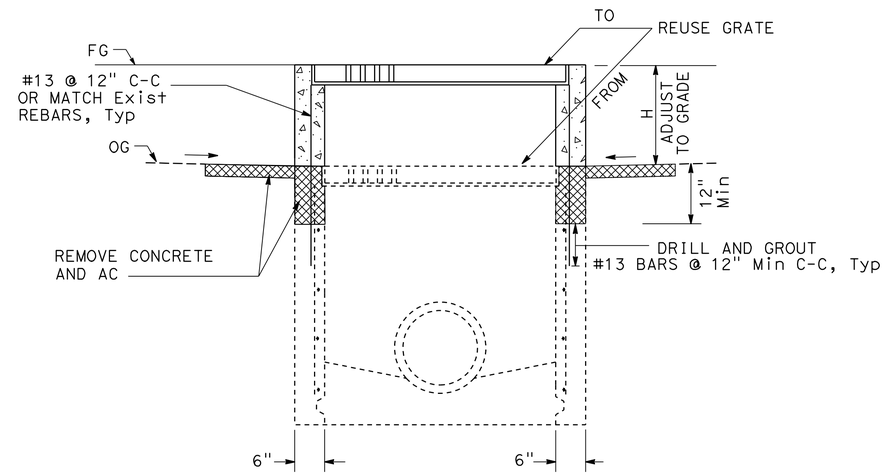
PM 9.86 (Loc 2) - GRANADA LANE

SURVEY MONUMENT



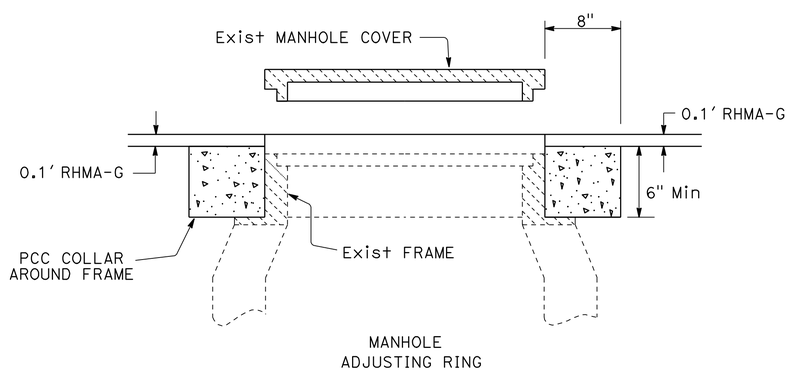
ALTERNATIVE 1 ALTERNATIVE 2

WATER VALVE



PM 10.07 (Lt Shld), PM 10.78 (Rt Shld)
PM 10.80 (Rt Shld), PM 10.82 (Lt Shld)
PM 13.09 (Rt Shld), PM 13.12 (Rt Shld)
PM 13.13 (Rt Shld)

ADJUST FRAME AND GRATE TO GRADE



UTILITY MANHOLES

SEE LOCATIONS ON SHEETS C-6, C-7 AND SUMMARY OF QUANTITIES (ADJUST FRAME AND COVER TO GRADE TABLE)

ADJUST FRAME AND COVER TO GRADE

CONSTRUCTION DETAILS

NO SCALE

C-7

REVISED BY	DATE REVISED
JAA	12/10/12

CALCULATED-DESIGNED BY: JOSE ALICEA II
CHECKED BY: THOA HUYNH
FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **MAINTENANCE**

LAST REVISION 00-00-00
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TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	10	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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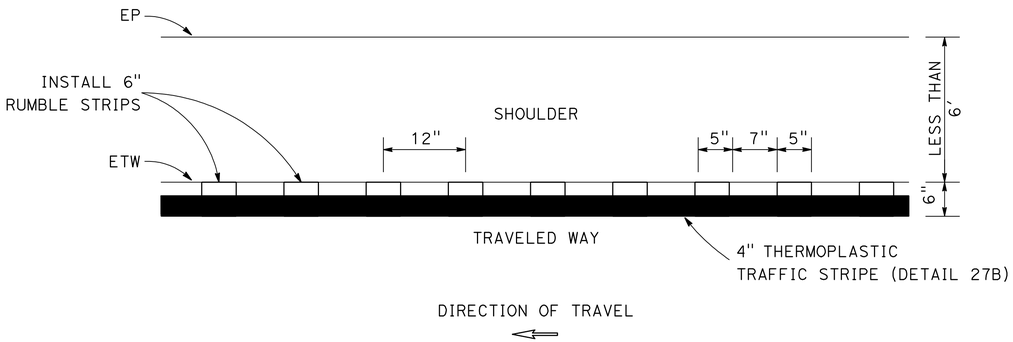
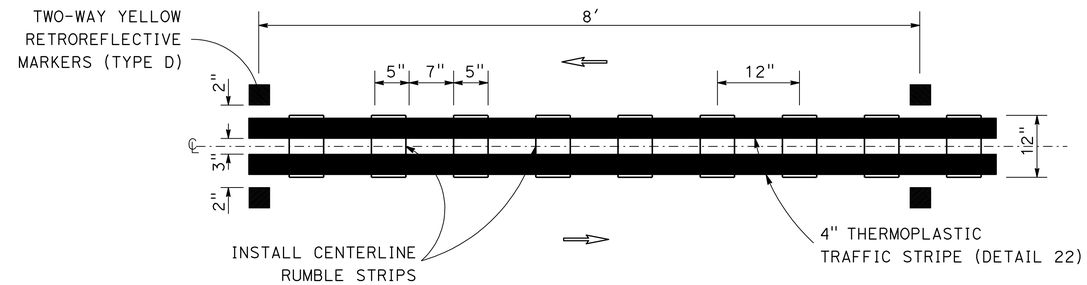
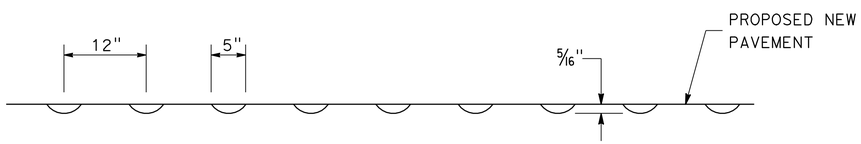


PLAN VIEW



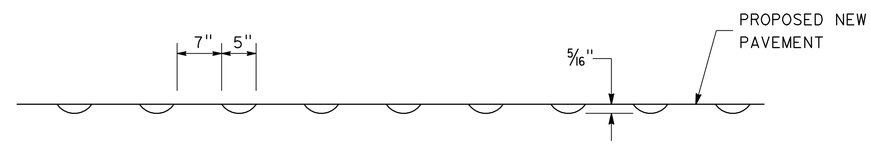
PLAN VIEW



ELEVATION VIEW

PM 18.49/19.38

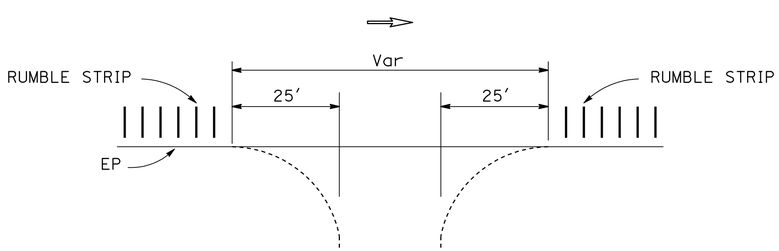
6" SHOULDER RUMBLE STRIP WITH GROUND-IN INDENTATIONS



ELEVATION VIEW

SEE SUMMARY OF QUANTITIES (RUMBLE STRIP TABLE)

CENTERLINE RUMBLE STRIP DETAIL 22 (MODIFIED)



SEE PRIVATE DRIVEWAY TABLE

RUMBLE STRIP GAP AT DRIVEWAY TYPICAL DETAIL

CONSTRUCTION DETAILS

NO SCALE

C-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans **MAINTENANCE**

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 12/10/12

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	11	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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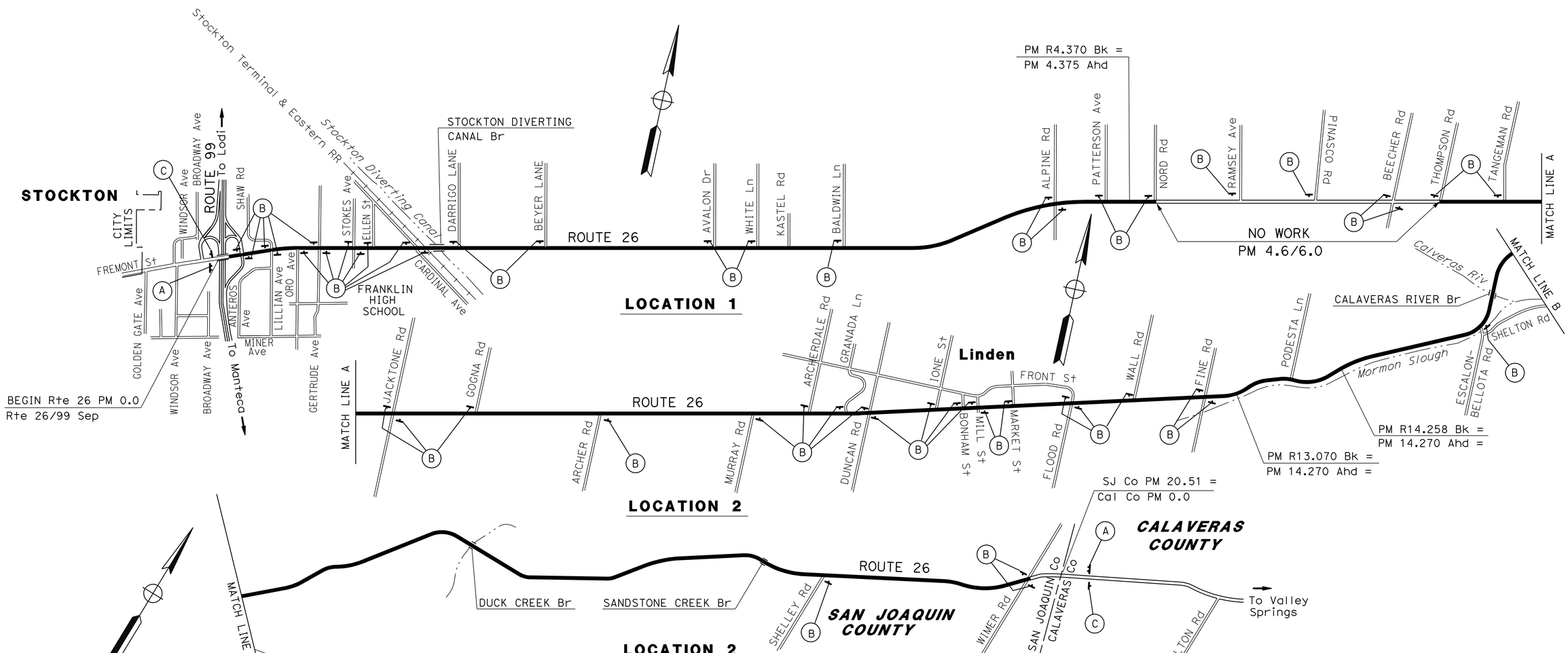
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN	SIGN CODE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS	SIGN MESSAGE
A	G20-1	60" x 36"	2 - 4" x 6"	2	ROAD WORK NEXT 20 MILES
B	W20-1	36" x 36"	1 - 4" x 6"	50	ROAD WORK AHEAD
C	G20-2	36" x 18"	1 - 4" x 4"	2	END ROAD WORK

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



APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
ALVIN MANGINDIN	JOSE ALICEA II	THOA HUYNH	JAA	12/10/12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 13:10

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10	SJ	26	1.1/4.6, 6.0/20.3	12	26

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12/10/12
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CONFORM TAPERS AT INTERSECTIONS

LOCATION		PM	SIDE	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
Loc	DESCRIPTION					SQYD	TON
1	NB FREMONT St OFF-RAMP	1.18	Rt	50'	54'	300	21
	NB FREMONT St OFF/ON-RAMP	1.18	Lt	65'	80'	578	39
	LILLIAN Ave	1.28	Rt	60'	20'	134	9
	SHAW Ave	1.28	Lt	35'	40'	156	11
	ORO Ave	1.38	Rt	30'	40'	134	9
	GERTRUDE Ave	1.47	Rt	40'	25'	112	8
	FRANKLIN HIGHSCHOOL	1.60	Rt	35'	80'	312	21
	STOKES Ave	1.60	Lt	40'	30'	134	9
	ELLEN St	1.67	Lt	20'	30'	67	5
	CARDINAL Ave OFF-RAMP	1.88	Rt	30'	20'	67	5
	CARDINAL Ave	1.88	Rt	30'	49'	825	56
	DARRIGO Ln	2.00	Lt	65'	20'	145	10
	BEYER Ln	2.26	Lt	55'	45'	275	19
	AVALON Dr	2.70	Lt	50'	24'	134	9
	WHITE Ln	2.81	Lt	45'	22'	110	8
	BALDWIN Ln	3.13	Lt	40'	18'	80	6
	ALPINE Rd	4.22	Rt	35'	45'	175	12
	ALPINE Rd	4.22	Lt	70'	30'	234	16
	PATTERSON Ave	4.43	Lt	25'	20'	56	4
	NORD Ave	4.63	Lt	40'	18'	80	6
2	THOMPSON Rd	6.04	Lt	35'	25'	98	7
	TANGEMAN Rd	6.43	Lt	30'	20'	67	5
	JACKTONE Rd	6.85	Rt	30'	40'	134	9
	JACKTONE Rd	6.85	Lt	30'	30'	100	7
	GOGNA Rd	7.32	Lt	25'	25'	70	5
	MURRAY Rd	8.92	Rt	25'	25'	70	5
	ARCHERDALE Rd	9.46	Lt	50'	20'	112	8
	GRANADA Ln	9.86	Lt	30'	40'	134	9
	DUNCAN Rd	10.00	Rt	38'	35'	148	10
	DUNCAN Rd	10.00	Lt	40'	35'	156	11
	IONE St	10.53	Lt	35'	25'	98	7
	BONHAM St	10.65	Lt	30'	30'	100	7
	MILL St	10.70	Rt	25'	40'	112	8
	MILL St	10.70	Lt	20'	40'	89	6
	MARKET St	10.78	Lt	30'	30'	100	7
	FLOOD Rd	11.08	Rt	25'	25'	70	5
	FRONT St	11.08	Lt	25'	30'	84	6
	WALL Rd	11.38	Lt	30'	30'	100	7
	FINE Rd	12.67	Rt	35'	40'	156	11
	FINE Rd	12.67	Lt	40'	30'	134	9
	ESCALON BELLOTA Rd	15.06	Rt	60'	50'	334	23
	SHELLEY Rd	19.03	Rt	45'	20'	100	7
	WIMER Rd	20.30	Rt	80'	30'	284	20
	WIMER Rd	20.30	Lt	85'	20'	212	15
					TOTAL	7170 *	497 *

NOTES:

1. (N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.
2. * - TOTAL INCLUDED IN ROADWAY ITEMS TABLE.
3. TRAFFIC MANAGEMENT SYSTEM ELEMENT LOCATIONS ARE APPROXIMATE.

CONFORM TAPERS AT MBGR

LOCATION		LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
Loc	PM/PM			SQYD	TON
2	16.31 / 16.34	220'	26'	636 *	43 *

CONFORM TAPERS AT CURB AND GUTTER

LOCATION		SIDE	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
Loc	PM/PM				SQYD	TON
1	1.18/1.28	Lt	530'	4'	236	16
2	9.81/10.00	Lt	1005'	12'	1340	90
2	10.56/10.84	Rt	1480'	12'	1974	132
				TOTAL	3550*	238*

CONFORM TAPERS

LOCATION		PM	LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	RHMA-G
Loc	DESCRIPTION				SQYD	TON
1	Rte 26/99 SEPARATION (BEGIN CONSTRUCTION)	1.10	100'	78'	867	58
	RAILROAD XING	1.88	30'	70'	234	16
	STOCKTON DIVERTING CANAL Br (DEPARTURE)	1.90	65'	60'	434	29
	STOCKTON DIVERTING CANAL Br (APPROACH)	1.90	100'	60'	667	45
	ROUTE 26 (END CONSTRUCTION)	4.63	30'	44'	147	10
2	ROUTE 26 (BEGIN CONSTRUCTION)	6.04	30'	26'	87	6
	CALAVERAS RIVER Br (DEPARTURE)	15.30	100'	40'	445	30
	CALAVERAS RIVER Br (APPROACH)	15.30	100'	40'	445	30
	DUCK CREEK Br (DEPARTURE)	16.87	100'	32'	356	24
	DUCK CREEK Br (APPROACH)	16.87	100'	32'	356	24
	SANDSTONE Cr (DEPARTURE)	18.77	100'	32'	356	24
	SANDSTONE Cr (APPROACH)	18.77	100'	32'	356	24
	ROUTE 26 (END CONSTRUCTION)	20.30	30'	36'	120	8
				TOTAL	5071 *	341*

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 12/10/12

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	13	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION ITEMS

LOCATION		THERMOPLASTIC PAVEMENT MARKING																					
		LIMIT LINE	CROSSWALK	STOP	SIGNAL	AHEAD	YEILD	PED	XING	"25" NUMERAL	PARKING STALL MARKING	RAILROAD XING	RAILROAD XING 2' LIMIT LINE	TYPE 1 (18'-0") ARROW	TYPE II (R) ARROW	TYPE III (R) ARROW	TYPE III (L) ARROW	TYPE IV (L) ARROW	TYPE VI (L) ARROW	CROSSWALK (YELLOW)	SLOW (YELLOW)	SCHOOL (YELLOW)	XING (YELLOW)
Loc	PM	SQFT																					
1	1.1/4.6	675	517	528	96	217						140	156	75	33	210	1218	30	126	155	69	105	63
2	6.0/20.3	567	100	792		186	96	36	42	36	19						798			455		140	42
	SUBTOTAL	1242	617	1320	96	403	96	36	42	36	19	140	156	75	33	210	2016	30	126	617	69	240	105
	TOTAL	7734																					

CAP AC DIKE

LOCATION			CAP AC DIKE	HMA (TYPE A)	DIKE TYPE
Loc	PM/PM	SIDE	LF	TON	
2	13.09/13.13	R†	220	9	A
	13.76/13.81	R†	270	11	A
	TOTAL		490	20*	

PAVEMENT DELINEATION ITEMS

LOCATION		THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE)													PAVEMENT MARKER (RETROREFLECTIVE)											PAVEMENT MARKER (NON-REFLECTIVE)
		4" WHITE						4" YELLOW						8" WHITE	TYPE D						TYPE G				TYPE H	TYPE A
		DETAIL 9	DETAIL 12	DETAIL 13	DETAIL 27B	DETAIL 27C	DETAIL 40	DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 22 (Mod)	DETAIL 29	DETAIL 32	DETAIL 38	DETAIL 6	DETAIL 19	DETAIL 22	DETAIL 22 (Mod)	DETAIL 29	DETAIL 32	DETAIL 9	DETAIL 12	DETAIL 13	DETAIL 38	DETAIL 19	DETAIL 19
Loc	PM	LF													EA											EA
1	1.1/4.6	3379	40	40	37,278	1255	320	2534	1638	603	6863	3485	10,455	3798	56	36	66	578	146	550	72	2	2	172	80	4
2	6.0/20.3				145,307	2205		33,159	15,313	3481	23,707	1584	11,088	1355	708	342	310	1986	68	582				64	734	
	SUBTOTAL	3379	40	40	182,585	3460	320	35,693	16,951	4084	30,570	5069	21,543	5153	764	378	376	2564	214	1132	72	2	2	236	814	4
	TOTAL	308,847													6484											4

REMOVE PAVEMENT DELINEATION ITEMS

LOCATION		REMOVE THERMOPLASTIC PAVEMENT MARKING																			REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER (N)
		CROSSWALK (YELLOW)	SLOW (YELLOW)	SCHOOL (YELLOW)	XING (YELLOW)	LIMIT LINE	CROSSWALK	STOP	SIGNAL	AHEAD	YEILD	PED	XING	RAILROAD XING	RAILROAD XING 2' LIMIT LINE	TYPE 1 (18'-0") ARROW	TYPE III (R) ARROW	TYPE III (L) ARROW	TYPE IV (L) ARROW	TYPE VI (L) ARROW	DETAIL 22 (Mod)	DETAIL 29	DETAIL 32	DETAIL 38	
Loc	PM	SQFT																			LF				EA
1	1.1/4.6	155	69	105	63	240	255	264	96	217				140	156	25	84	1134	30	126	13,726	6970	20,910	3798	1764
2	6.0/20.3	360		140	42	178	100	352		186	96	36	42					798			52,694	3168	22,176	1355	4724
	SUBTOTAL	515	69	245	105	418	355	616	96	403	96	36	42	140	156	25	84	1932	30	126	66,420	10,138	43,086	5153	6488
	TOTAL	5490																			124,797				

TRAFFIC MANAGEMENT SYSTEM ELEMENT (EXISTING)

LOCATION		PM	TYPE
Loc	DESCRIPTION		
1	FREMONT STREET	1.11	SIGNAL
	EAST OF Jct Rte 99	1.11	SIGNAL
2	ORO AVENUE	19.29	TRAFFIC MONITORING STATION

SUMMARY OF QUANTITIES

Q-2

REVISED BY	DATE REVISED	JAA	12/10/12
CALCULATED-DESIGNED BY	CHECKED BY	JOSE ALICEA II	THOA HUYNH
FUNCTIONAL SUPERVISOR		ALVIN MANGINDIN	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	14	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 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.

ADJUST MONUMENT TO GRADE

LOCATION				DESCRIPTION	TYPE	EA
Loc	PM	SIDE	DESCRIPTION			
2	9.86	Lt	GRANADA Ln	10' LEFT OF Exist GUTTER & GRANADA Ln CENTERLINE	MONUMENT WELL	1

ADJUST FRAME AND COVER TO GRADE

LOCATION		TYPE	EA	DESCRIPTION
Loc	PM			
1	1.28	TRAFFIC LOOP	1	CALTRANS
	1.28	SEWER	2	CITY OF STOCKTON
	1.33	SEWER	1	CITY OF STOCKTON
	1.38	SEWER	1	CITY OF STOCKTON
	1.42	SEWER	1	CITY OF STOCKTON
	1.46	SEWER	1	CITY OF STOCKTON
	1.53	SEWER	1	CITY OF STOCKTON
	1.60	SEWER	2	CITY OF STOCKTON
	1.67	SEWER	1	CITY OF STOCKTON
	1.73	SEWER	1	CITY OF STOCKTON
	1.79	SEWER	1	CITY OF STOCKTON
2	9.79	WATER	1	LINDEN Co WATER DISTRICT
	9.86	WATER	3	LINDEN Co WATER DISTRICT
	9.86	SEWER	2	LINDEN Co WATER DISTRICT
	9.86	STORM	1	SJ Co UTILITY DISTRICT
	9.94	SEWER	1	LINDEN Co WATER DISTRICT
	9.96	WATER	1	LINDEN Co WATER DISTRICT
	9.98	WATER	1	LINDEN Co WATER DISTRICT
	9.99	STORM	1	CALTRANS
	9.99	STORM	1	SJ Co UTILITY DISTRICT
	10.00	SEWER	1	LINDEN Co WATER DISTRICT
	10.05	SEWER	1	LINDEN Co WATER DISTRICT
	10.53	WATER	2	LINDEN Co WATER DISTRICT
	10.53	SEWER	2	LINDEN Co WATER DISTRICT
	10.57	SEWER	2	LINDEN Co WATER DISTRICT
	10.62	SEWER	1	LINDEN Co WATER DISTRICT
	10.70	SEWER	1	LINDEN Co WATER DISTRICT
	10.77	SEWER	1	LINDEN Co WATER DISTRICT
	10.78	SEWER	1	LINDEN Co WATER DISTRICT
	10.82	SEWER	1	LINDEN Co WATER DISTRICT
		TOTAL	38	

ADJUST FRAME AND GRATE TO GRADE

LOCATION			TYPE	EA
Loc	PM	SIDE		
2	10.07	RIGHT SHOULDER	GRATE	1
	10.78	RIGHT SHOULDER	GRATE	1
	10.80	RIGHT SHOULDER	GRATE	1
	10.82	LEFT SHOULDER	GRATE	1
	13.09	RIGHT SHOULDER	GRATE	1
	13.12	RIGHT SHOULDER	GRATE	1
	13.13	RIGHT SHOULDER	GRATE	1
			TOTAL	7

SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

LOCATION		STATION	DESCRIPTION
Loc	PM / PM		
2	19.00 / 19.38	41	RIGHT EDGE LINE RUMBLE STRIP

CENTERLINE RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)

LOCATION		STATION	DESCRIPTION
Loc	PM / PM		
1	1.30 / 1.33	2	CENTERLINE RUMBLE STRIP
	1.80 / 2.02	12	CENTERLINE RUMBLE STRIP
	2.15 / 2.28	7	CENTERLINE RUMBLE STRIP
	2.61 / 2.71	6	CENTERLINE RUMBLE STRIP
	2.82 / 2.90	5	CENTERLINE RUMBLE STRIP
	3.61 / 4.27	35	CENTERLINE RUMBLE STRIP
	4.55 / 4.63	5	CENTERLINE RUMBLE STRIP
2	9.78 / 9.86	5	CENTERLINE RUMBLE STRIP
	9.96 / 10.05	5	CENTERLINE RUMBLE STRIP
	10.85 / 11.09	13	CENTERLINE RUMBLE STRIP
	12.68 / 14.14	78	CENTERLINE RUMBLE STRIP
	14.46 / 14.52	4	CENTERLINE RUMBLE STRIP
	14.86 / 14.98	7	CENTERLINE RUMBLE STRIP
	15.06 / 15.13	4	CENTERLINE RUMBLE STRIP
	15.20 / 16.63	76	CENTERLINE RUMBLE STRIP
	17.00 / 17.28	15	CENTERLINE RUMBLE STRIP
	17.43 / 17.87	24	CENTERLINE RUMBLE STRIP
	19.00 / 19.22	12	CENTERLINE RUMBLE STRIP
	19.80 / 20.30	27	CENTERLINE RUMBLE STRIP
	TOTAL	342	

SUMMARY OF QUANTITIES

Q-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

FUNCTIONAL SUPERVISOR: ALVIN MANGINDIN
CALCULATED-DESIGNED BY: JOSE ALICEA II
CHECKED BY: THOA HUYNH
REVISED BY: JAA
DATE REVISED: 12/10/12

LAST REVISION 00-00-00
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	15	26

REGISTERED CIVIL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOSE A. ALICEA II No. 64817 Exp. 6/30/13 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.

DIGOUTS

LOCATION			LENGTH (N)	WIDTH (N)	COLD PLANE AC Pvmt	HMA (TYPE A)
Loc	PM	SIDE			SQYD	TON
1	1.1	EB	150′	12′	200	34
	2.0	EB	150′	12′	200	34
	3.0	EB	150′	12′	200	34
	4.0	EB	150′	12′	200	34
	1.1	WB	150′	12′	200	34
	2.0	WB	150′	12′	200	34
	3.0	WB	150′	12′	200	34
	4.0	WB	150′	12′	200	34
2	6.0	EB	150′	12′	200	34
	7.0	EB	150′	12′	200	34
	8.0	EB	150′	12′	200	34
	9.0	EB	150′	12′	200	34
	10.0	EB	150′	12′	200	34
	11.0	EB	150′	12′	200	34
	12.0	EB	150′	12′	200	34
	13.0	EB	150′	12′	200	34
	14.0	EB	150′	12′	200	34
	15.0	EB	150′	12′	200	34
	16.0	EB	150′	12′	200	34
	17.0	EB	150′	12′	200	34
	18.0	EB	150′	12′	200	34
	19.0	EB	150′	12′	200	34
	20.0	EB	150′	12′	200	34
	6.0	WB	150′	12′	200	34
	7.0	WB	150′	12′	200	34
	8.0	WB	150′	12′	200	34
	9.0	WB	150′	12′	200	34
	10.0	WB	150′	12′	200	34
	11.0	WB	150′	12′	200	34
	12.0	WB	150′	12′	200	34
	R13.0	WB	150′	12′	200	34
	R14.0	WB	150′	12′	200	34
	15.0	WB	150′	12′	200	34
	16.0	WB	150′	12′	200	34
	17.0	WB	150′	12′	200	34
	18.0	WB	150′	12′	200	34
	19.0	WB	150′	12′	200	34
	20.0	WB	150′	12′	200	34
				TOTAL	7600*	1292*

ACTUAL LOCATIONS AND DIMENSIONS OF DIGOUTS MAY VARY IN THE FIELD AND WILL BE DETERMINED BY THE ENGINEER.

ROADWAY ITEMS

LOCATION	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	TACK COAT	SHOULDER BACKING
	SQYD	TON			
PM 1.1/4.6, PM 6.0/20.3			22,570	142	10,200
DIGOUTS	7600	1292		4	
CONFORM TAPERS	5071		341	3	
CONFORM TAPERS AT INTERSECTIONS	7170	497		3	
CONFORM TAPERS AT PRIVATE DRIVEWAYS			232	1	
CONFORM TAPERS AT MBGR	636		43	1	
CONFORM TAPERS AT CURB & GUTTER	3550		238	1	
CAP AC DIKE (TYPE A)		20		1	
TOTAL	24,027	1809	23,424	156	10,200

SUMMARY OF QUANTITIES

Q-4

JAA	12/10/12	REVISED BY	DATE REVISED
JOSE ALICEA II	THOA HUYNH	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	ALVIN MANGINDIN		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans MAINTENANCE

LAST REVISION 00-00-00 | DATE PLOTTED => 23-JAN-2013 | TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	16	26

REGISTERED ELECTRICAL ENGINEER 9/26/12

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp. 6/30/14 ELECTRICAL 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.

LEGEND:

1 RAISE Exist HANDHOLE DETECTOR TO NEW FINISH GRADE.

2 Exist IRWL CONTROL ASSEMBLY INSIDE A TYPE B DEMARCATION CABINET.

3 REMOVE Exist IRWL FIXTURES PRIOR TO OVERLAY OPERATION.
INSTALL EXTENSION RING TO Exist BASE CAN TO MATCH THE AC OVERLAY AND REINSTALL IRWL FIXTURE.

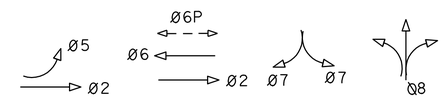
- IN-ROADWAY WARNING LIGHTS

NOTES:

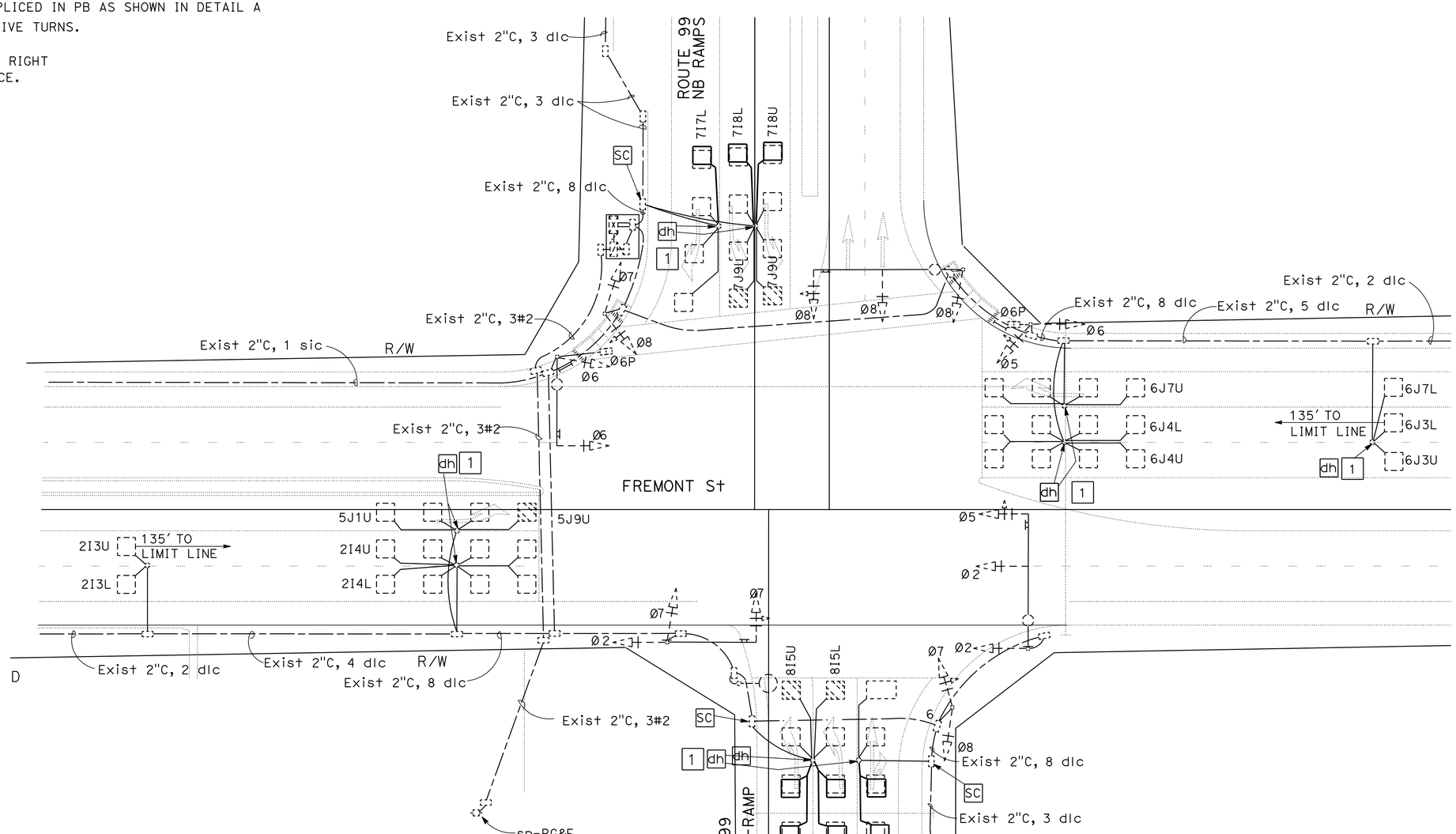
1. AB Exist LOOP DETECTORS AND INSTALL LOOP DETECTORS AS SHOWN.
2. LOOP DETECTORS IN THRU LANE SHALL BE SPLICED IN PB AS SHOWN IN DETAIL A ON THIS SHEET. TYPE D LOOP SHALL HAVE FIVE TURNS.
3. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

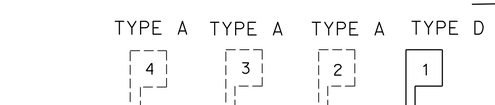
ABBREVIATIONS:

PG&E - PACIFIC GAS & ELECTRIC
IRWL - IN-ROADWAY WARNING LIGHTS



PHASE DIAGRAM
STEADY DEMAND SEQUENCE





TYPICAL LOOP CONNECTIONS
DETAIL A

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

NO SCALE **E-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD
CALCULATED-DESIGNED BY: JASPAL SINGH
CHECKED BY: FRED IYASERE
REVISED BY: JS
DATE REVISED: 12/10/12

LAST REVISION 09-17-12
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	17	26

REGISTERED ELECTRICAL ENGINEER 9/26/12 DATE

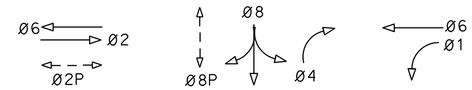
12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

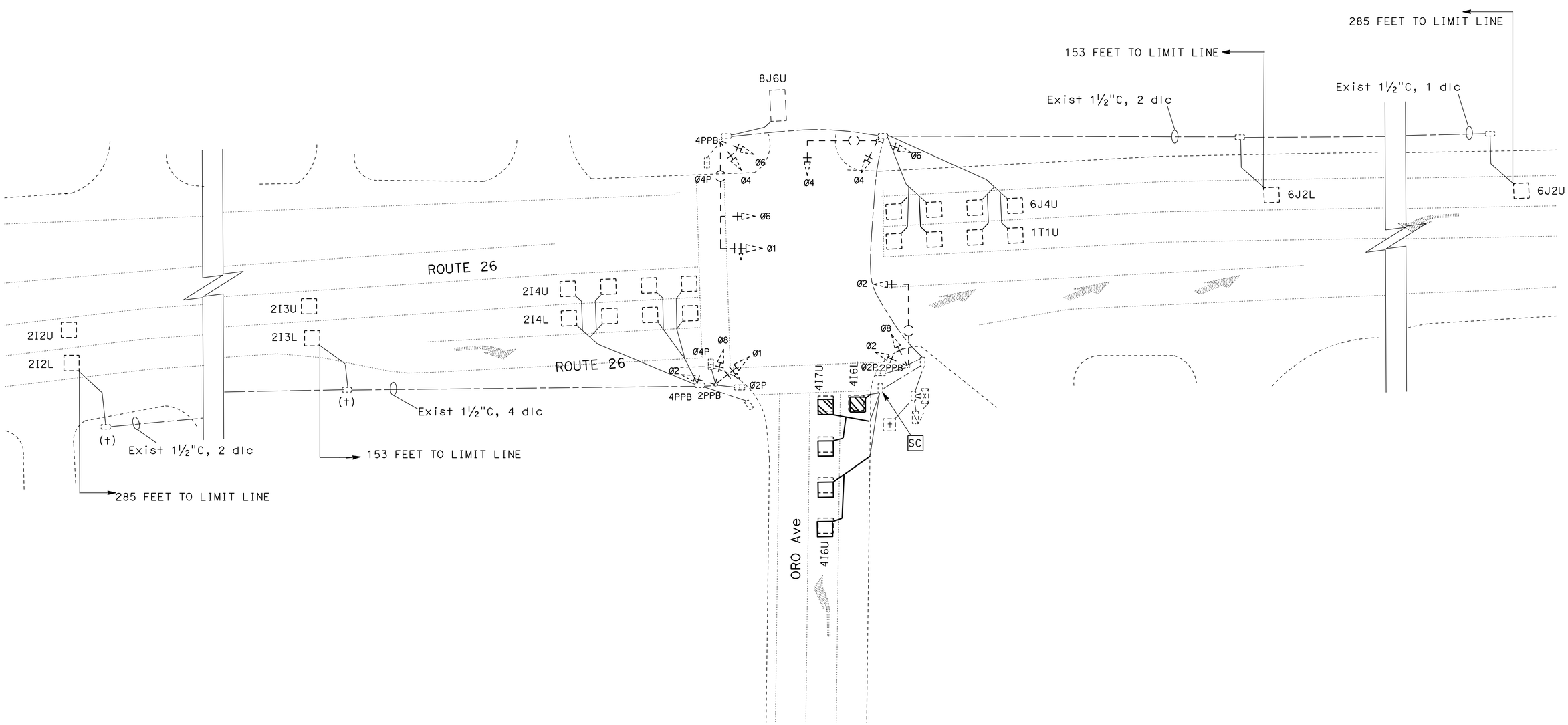
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PHASE DIAGRAM
STEADY DEMAND SEQUENCE



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

NO SCALE **E-2**

REVISED BY	DATE REVISED
Js	12/10/12

CALCULATED-DESIGNED BY: JASPAL SINGH
CHECKED BY: FRED IYASERE
FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **ELECTRICAL DESIGN**

LAST REVISION 09-17-12
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	18	26

REGISTERED ELECTRICAL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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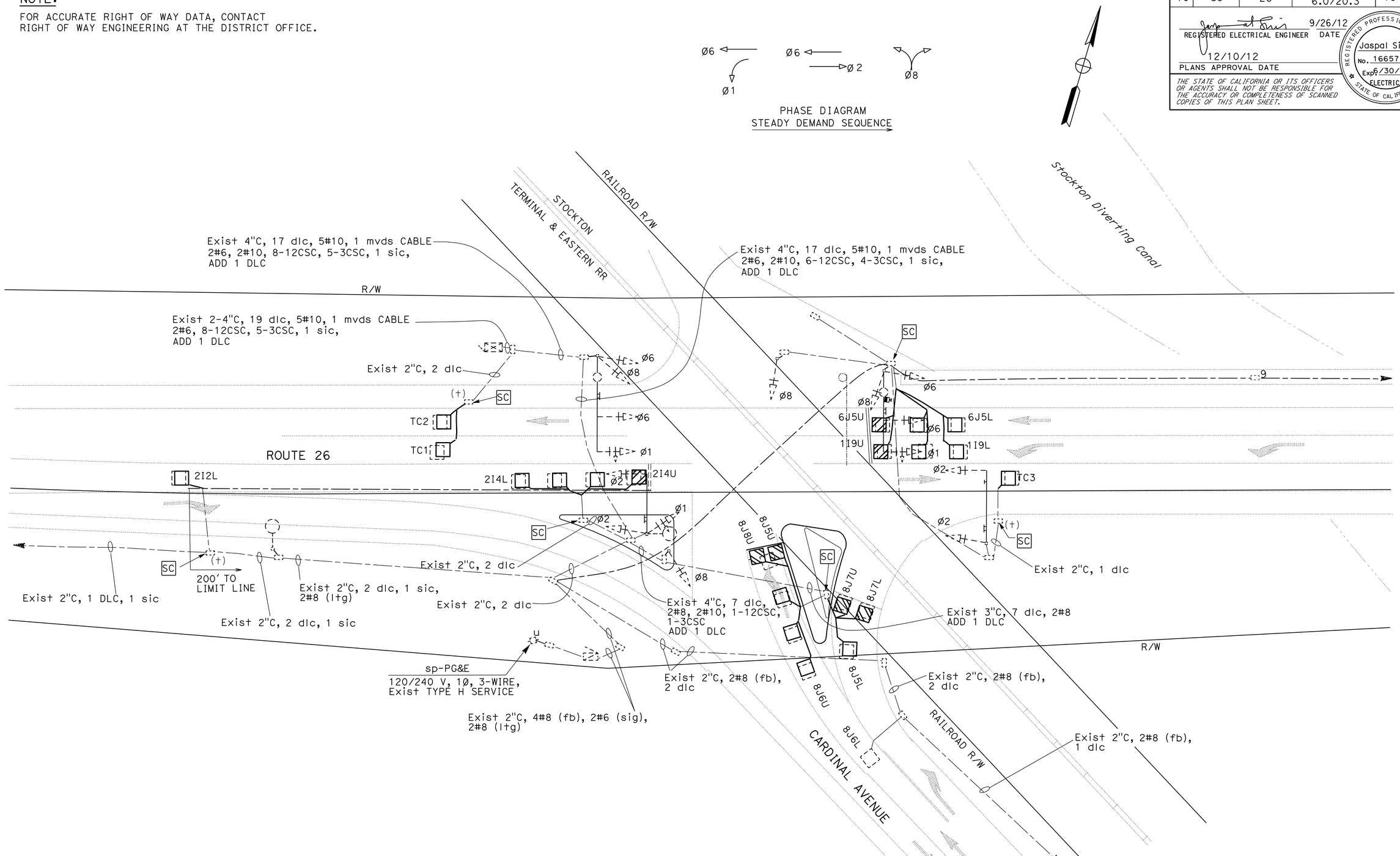
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR ELECTRICAL WORK ONLY

MODIFY SIGNAL

NO SCALE

E-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **ELECTRICAL DESIGN**

FUNCTIONAL SUPERVISOR: ALI BAKHDOUD

JASPAL SINGH — FRED IYASERE

REVISED BY: JS — DATE REVISED: 12/10/12

CALCULATED-DESIGNED BY — CHECKED BY

LAST REVISION 09-17-12 — DATE PLOTTED => 23-JAN-2013 — TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	19	26

REGISTERED ELECTRICAL ENGINEER 9/26/12

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp. 6/30/14 ELECTRICAL STATE OF CALIFORNIA

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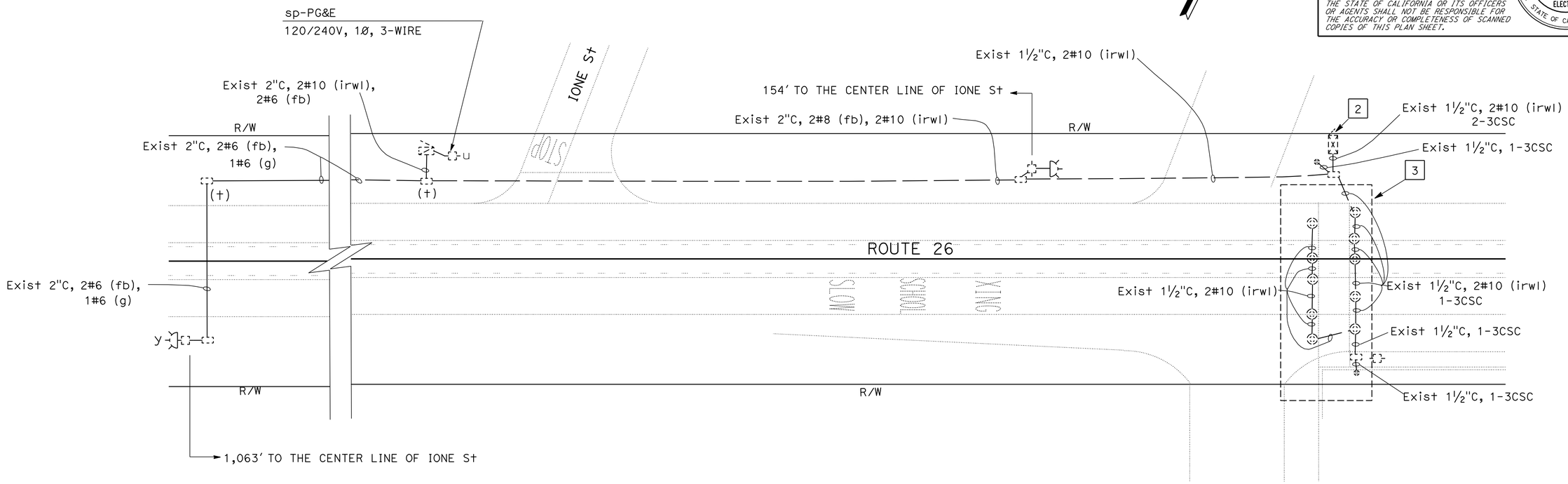
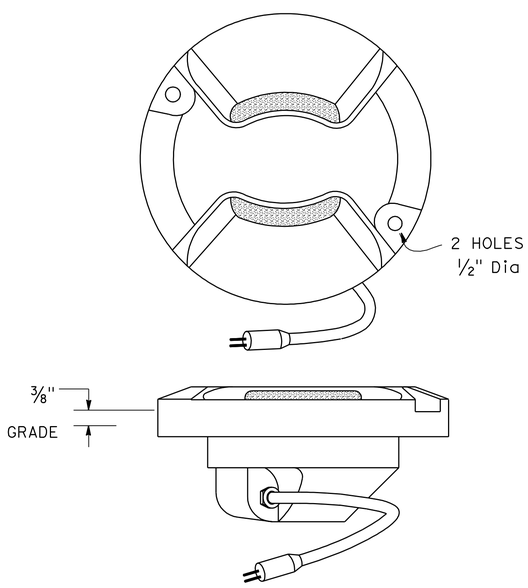
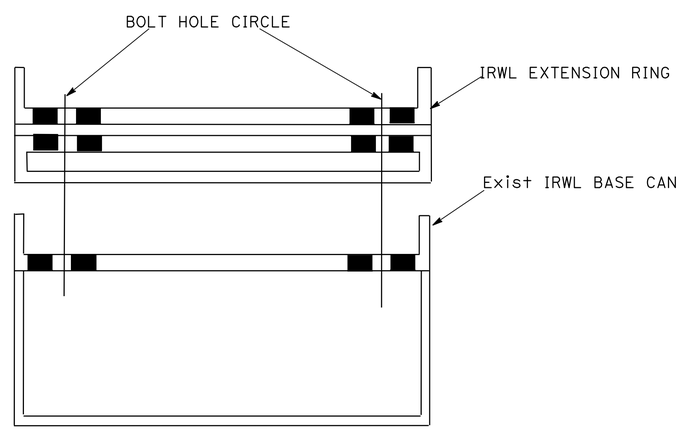
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



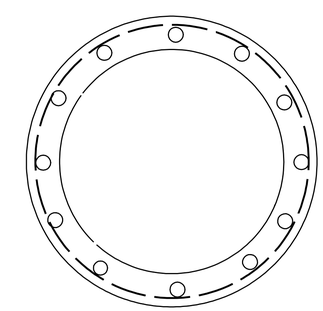


Exist IRWL GENERAL ARRANGEMENT



DETAIL A

Exist IRWL BASE CAN WITH EXTENSION RING TYPICAL INSTALLATION



IRWL EXTENSION RING

APPROVED FOR ELECTRICAL WORK ONLY

MODIFY IN-ROADWAY WARNING LIGHTS

NO SCALE

E-4

REVISED BY	JS
DATE REVISED	12/10/12
JASPAL SINGH	
FRED IYASERE	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ALI BAKHDOUD	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

LAST REVISION 09-17-12
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:10

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	20	26

REGISTERED ELECTRICAL ENGINEER 9/26/12 DATE

12/10/12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jaspal Singh No. 16657 Exp. 6/30/14 ELECTRICAL 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:

THE QUANTITIES ON THIS SHEET ARE FOR INFORMATION ONLY AND ARE NOT A SEPARATE BID ITEMS.

MODIFY SIGNAL

SHEET No.	TYPE A INDUCTIVE LOOP DETECTOR	TYPE D INDUCTIVE LOOP DETECTOR	DLC
	EA	EA	LF
E-1	9	-	
E-2	3	2	
E-3	15	7	224

MODIFY IN-ROADWAY WARNING LIGHTS

SHEET No.	IRWL EXTENSION RING
	EA
E-4	10

ELECTRICAL QUANTITIES
E-5

REVISED BY	JS
DATE REVISED	12/10/12
JASPAL SINGH	
FRED IYASERE	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
ALI BAKHDOUD	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® ELECTRICAL DESIGN

LAST REVISION 10-01-12
DATE PLOTTED => 23-JAN-2013
TIME PLOTTED => 13:11

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	21	26

REGISTERED CIVIL ENGINEER 12-7-12 DATE

12/10/12
PLANS APPROVAL DATE

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

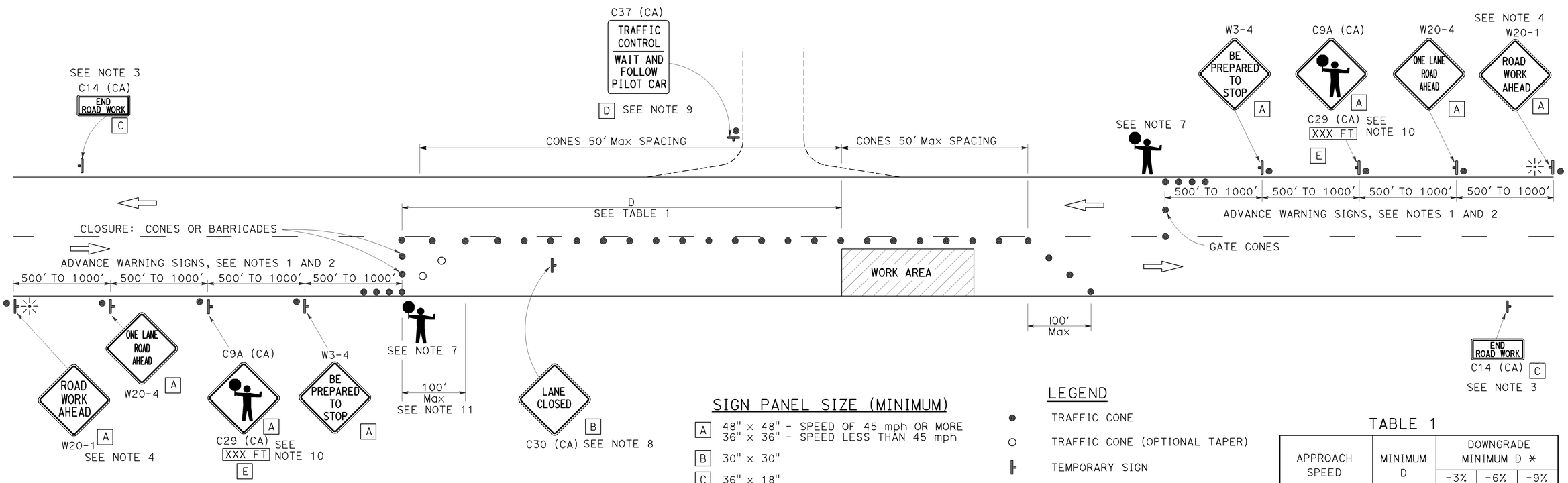
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

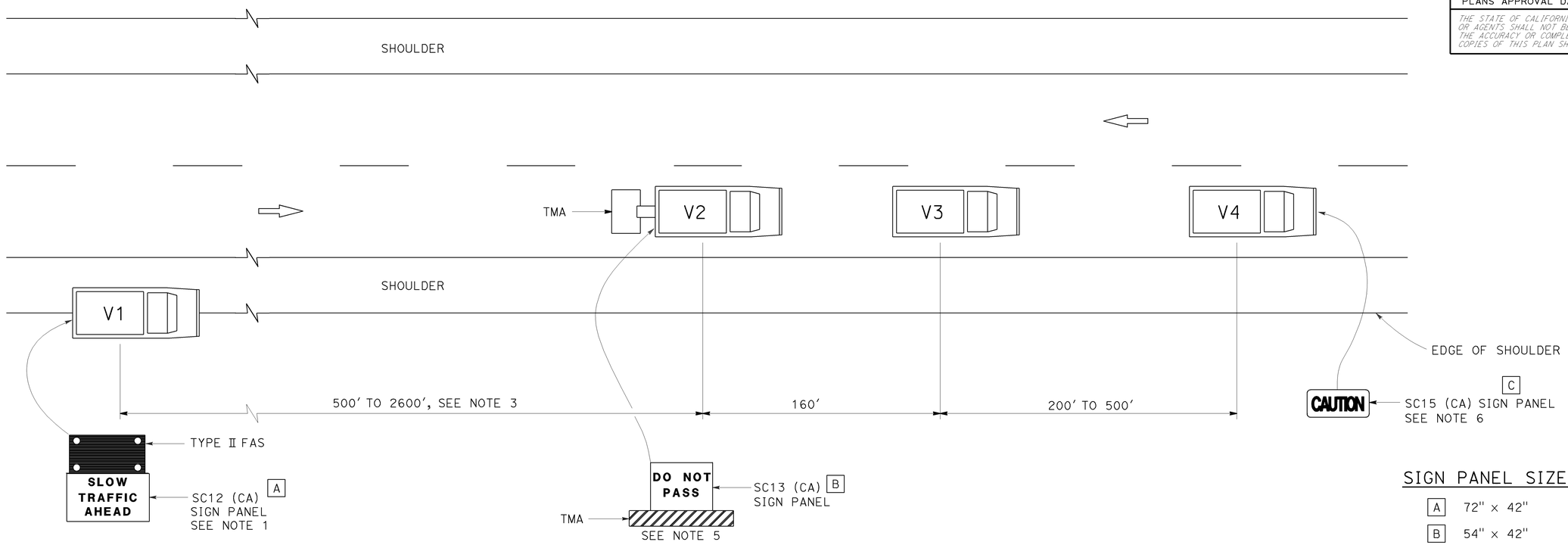
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	22	26

REGISTERED CIVIL ENGINEER 12-7-12 DATE

12/10/12
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" × 42"
B	54" × 42"
C	54" × 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
10	SJ	26	1.1/4.6, 6.0/20.3	23	26

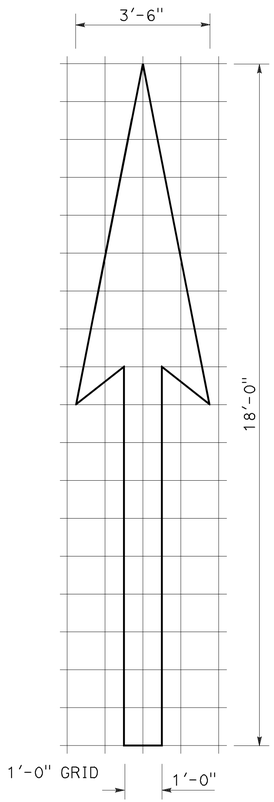
REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

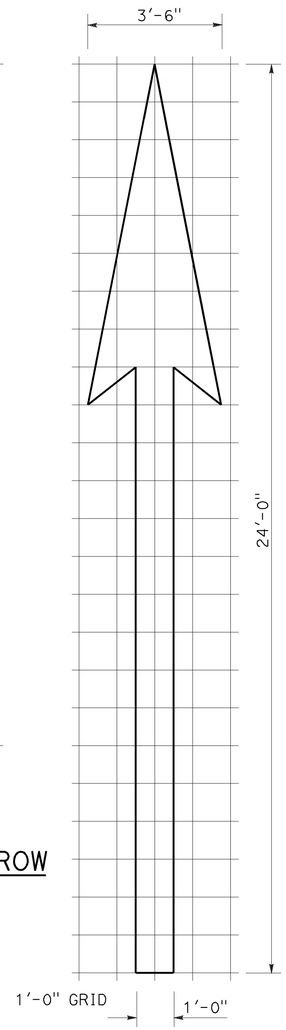
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 12/10/12



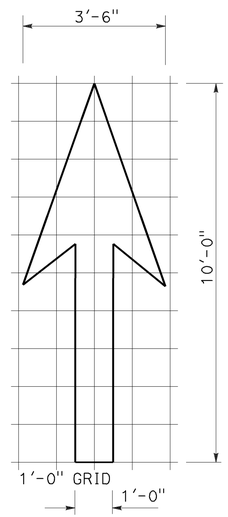
A=25 ft^2

TYPE I 18'-0" ARROW



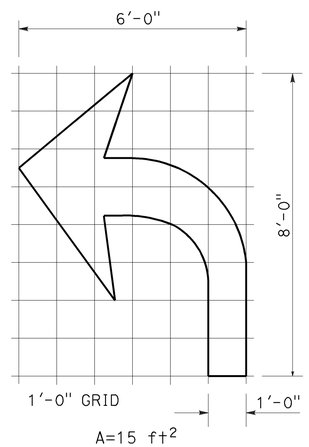
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

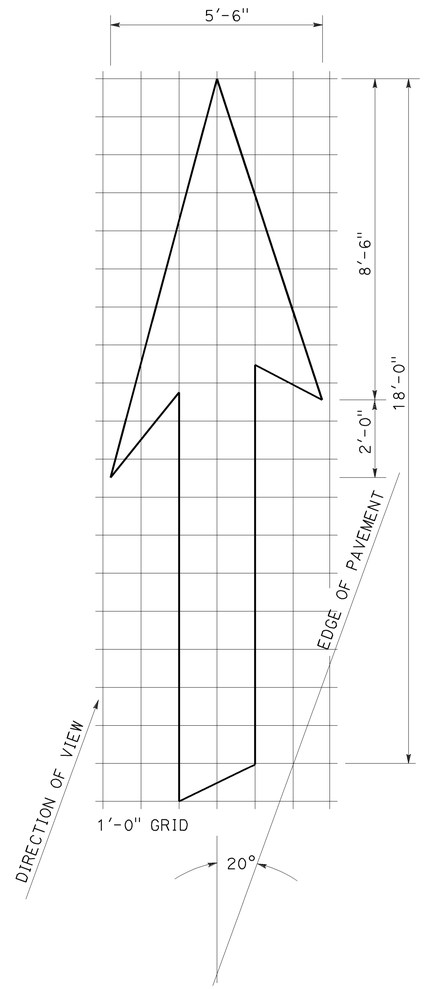
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

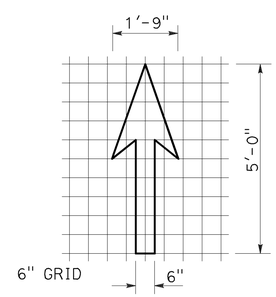
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

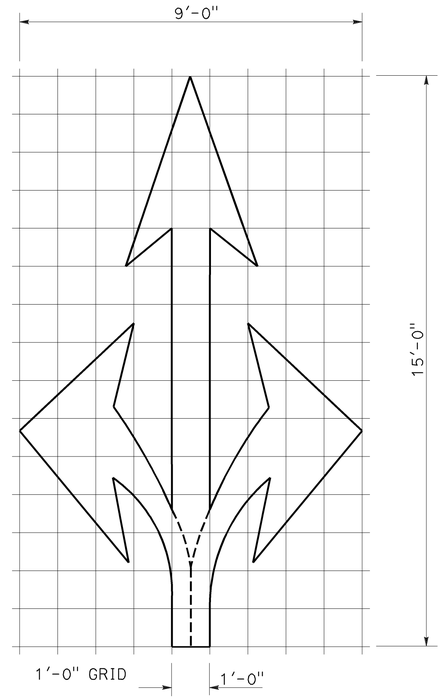
TYPE VI ARROW

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



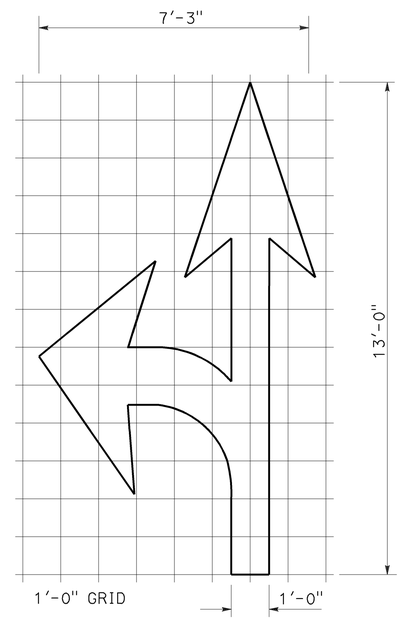
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

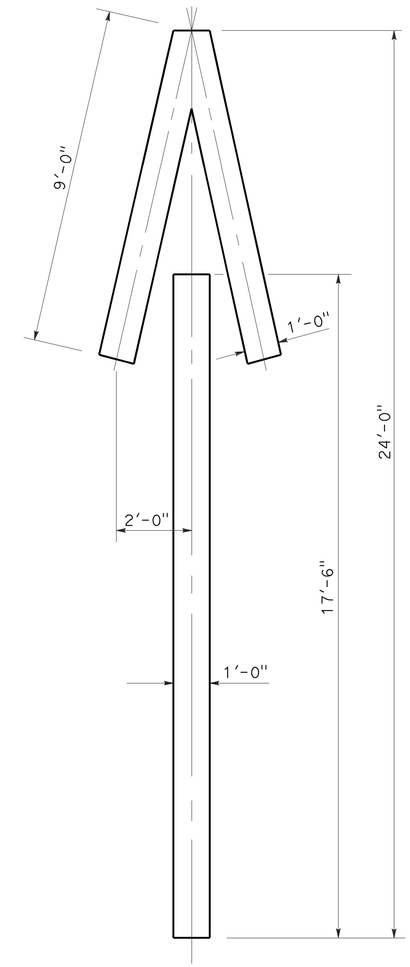
TYPE VIII ARROW



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
10	SJ	26	1.1/4.6, 6.0/20.3	24	26

REGISTERED CIVIL ENGINEER

October 19, 2012
PLANS APPROVAL DATE

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

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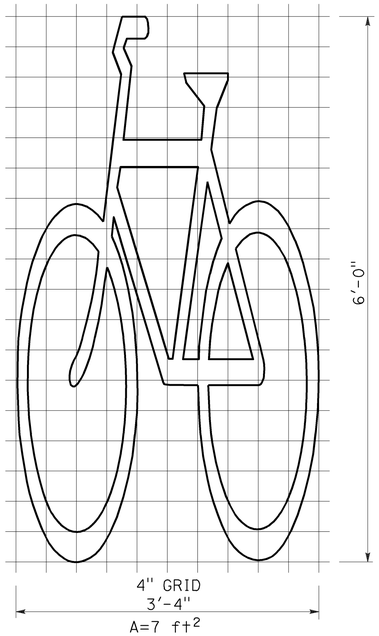
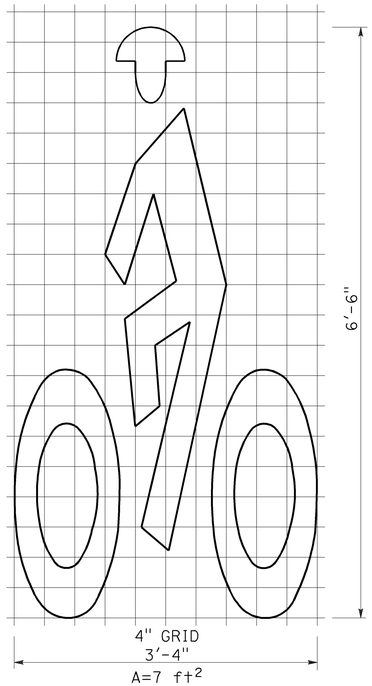
NOTE: TO ACCOMPANY PLANS DATED 12/10/12

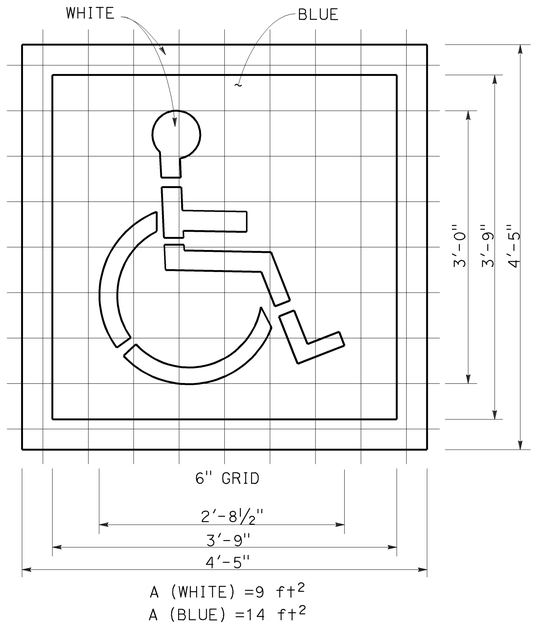
Minor variations in dimensions may be accepted by the Engineer.



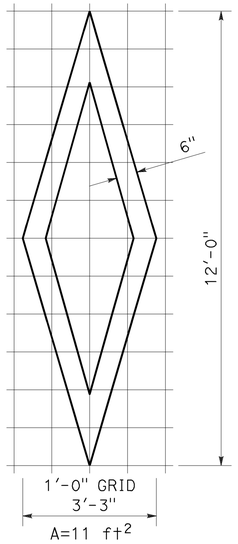
BIKE LANE SYMBOL WITHOUT PERSON



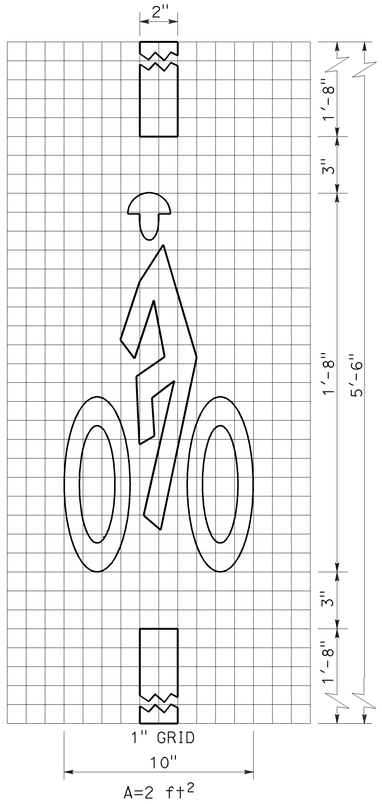
BIKE LANE SYMBOL WITH PERSON



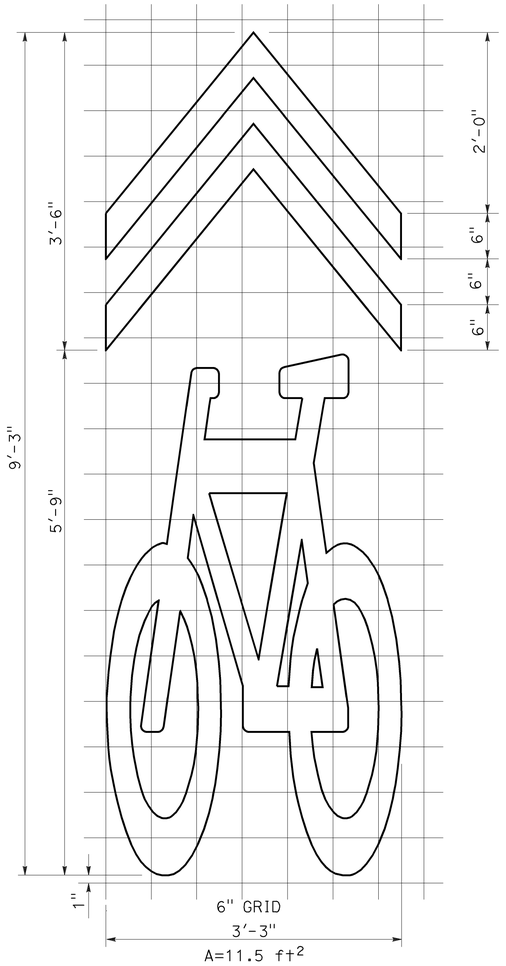
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



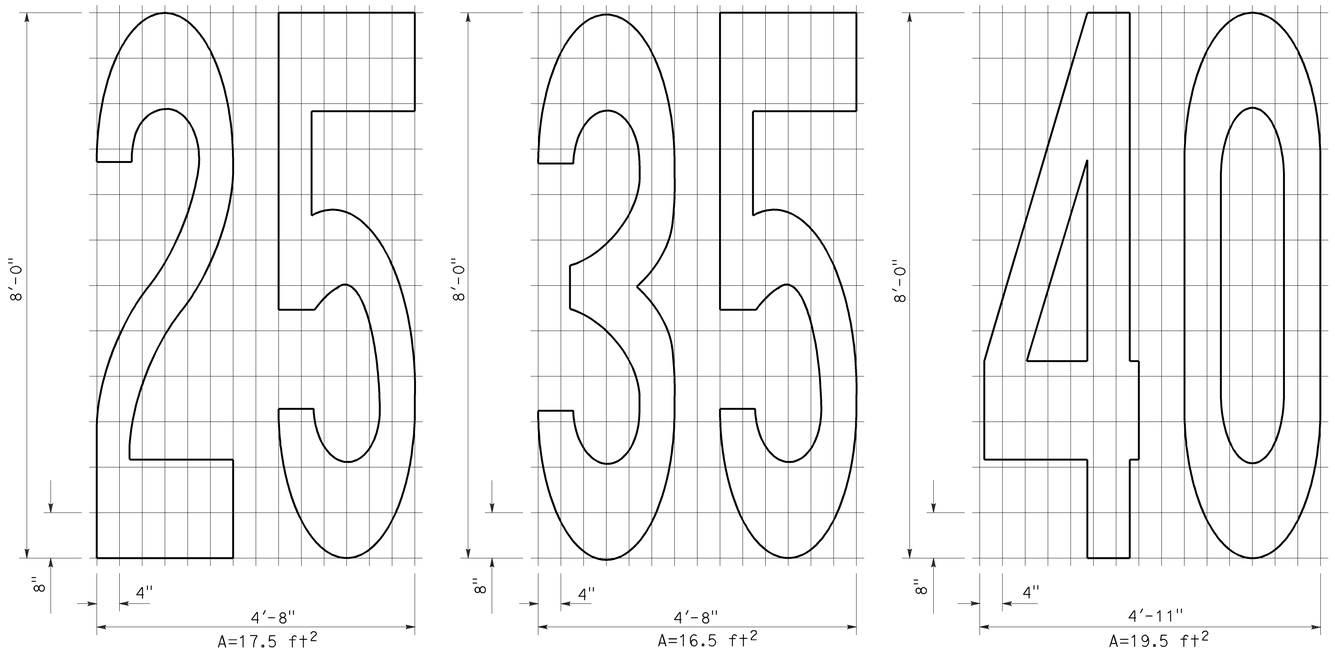
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	25	26

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

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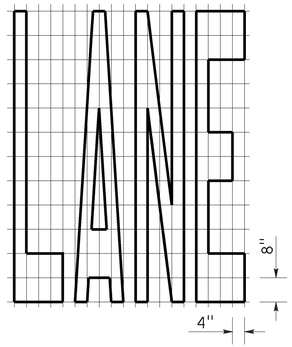
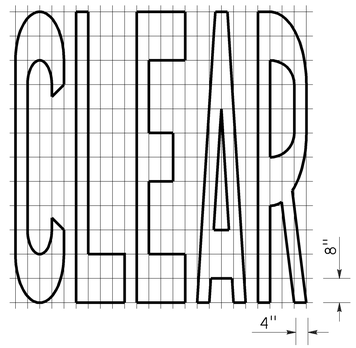
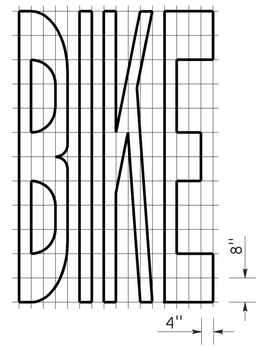
TO ACCOMPANY PLANS DATED 12/10/12



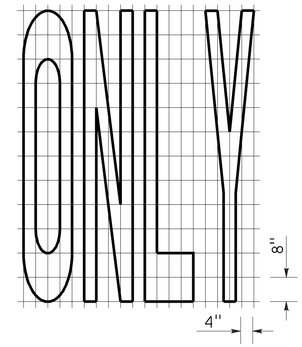
A=24 ft²



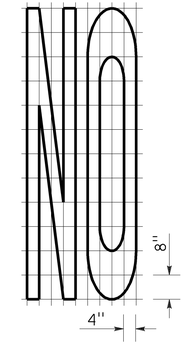
A=27 ft²



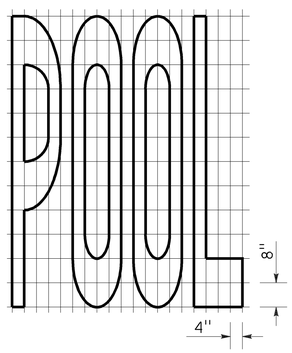
A=21 ft²



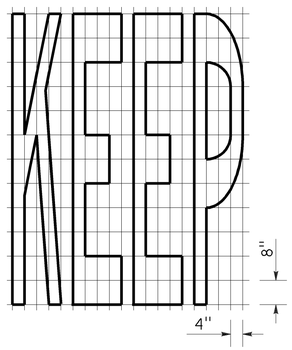
A=22 ft²



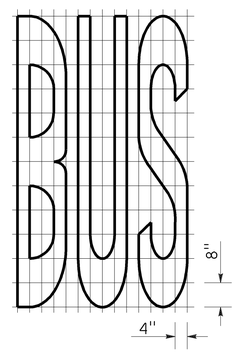
A=14 ft²



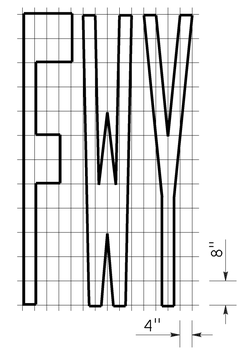
A=23 ft²



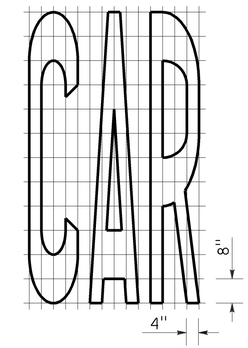
A=24 ft²



A=20 ft²

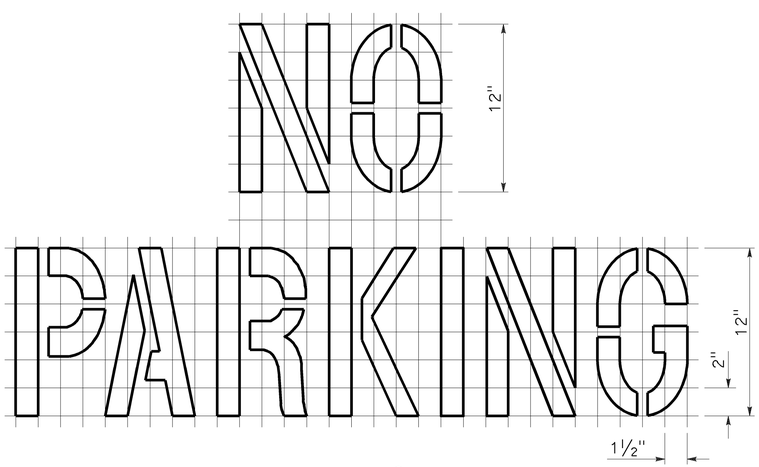


A=16 ft²

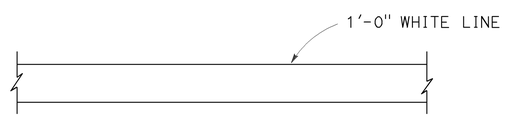


A=17 ft²

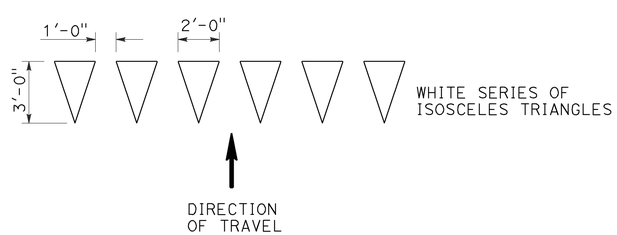
WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16



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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
10	SJ	26	1.1/4.6, 6.0/20.3	26	26

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

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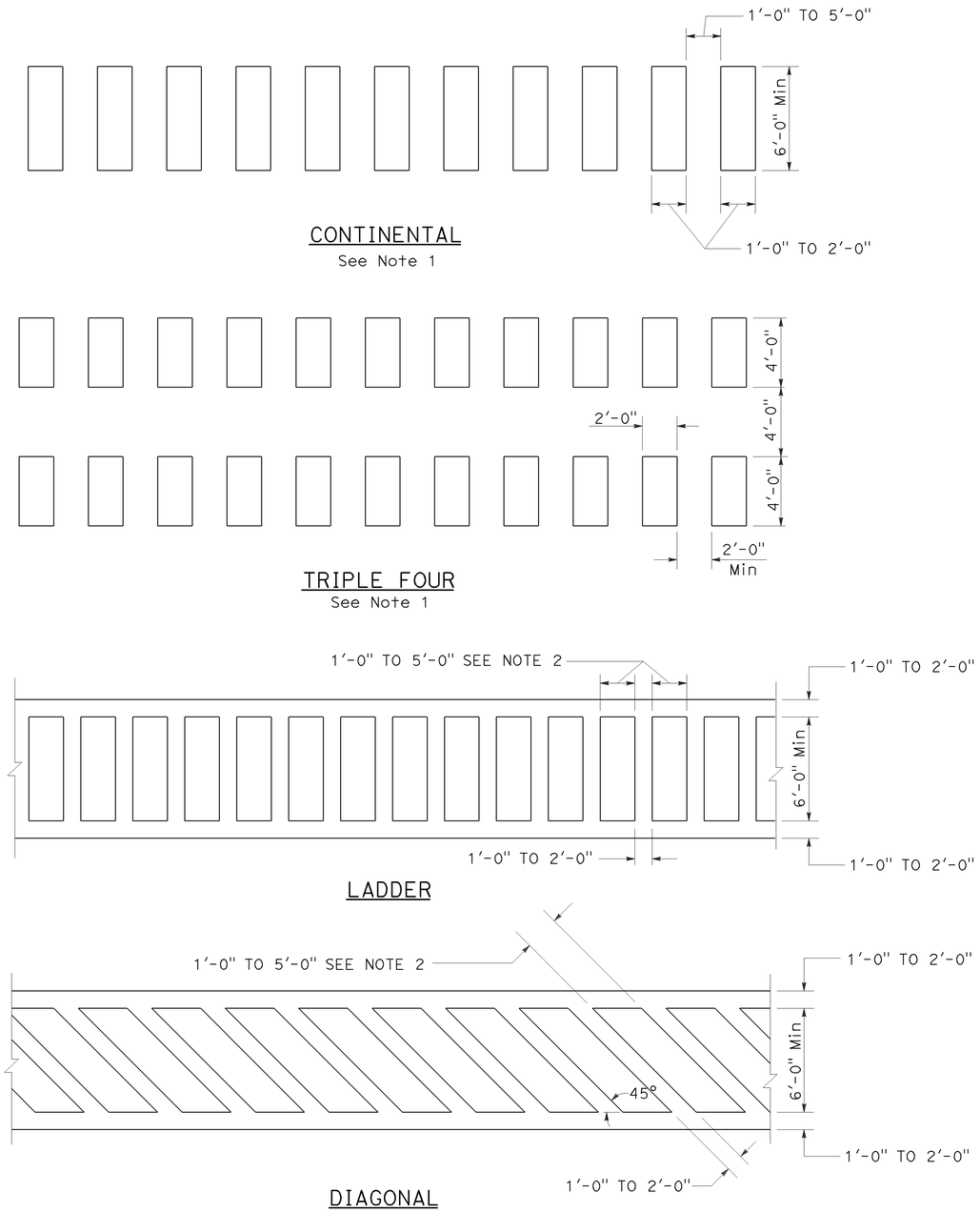
TO ACCOMPANY PLANS DATED 12/10/12

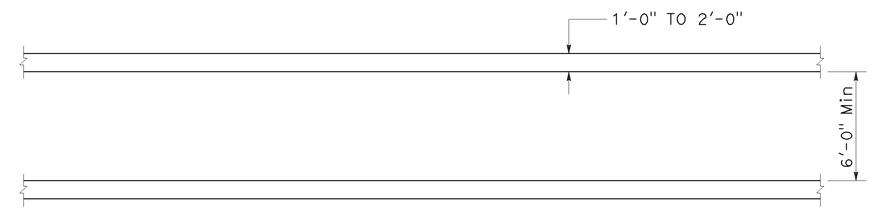
2010 REVISED STANDARD PLAN RSP A24F



HIGHER VISIBILITY CROSSWALKS

NOTES:

1. Spaces between markings should be placed in wheel tracks of each lane.
2. Spacings not to exceed 2.5 times width of longitudinal line.
3. All crosswalk markings must be white except for those near schools must be yellow.



BASIC

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS CROSSWALKS

NO SCALE

RSP A24F DATED JULY 20, 2012 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24F

6-28-12