INDEX OF PLANS

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1	TITLE AND LOCATION MAP
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3	CONSTRUCTION AREA SIGNS
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6	SUMMARY OF QUANTITIES
7-8	TRAFFIC CONTROL SYSTEM
9-10	NEW OR REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

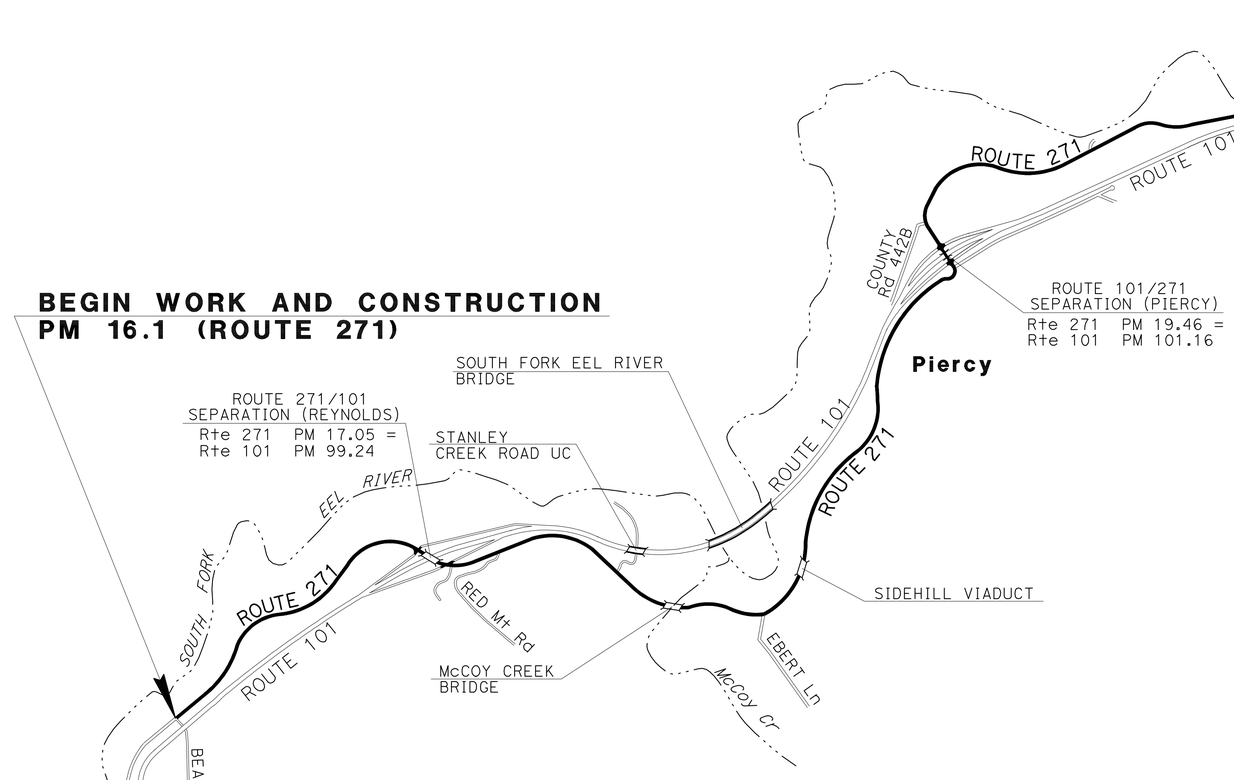
PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

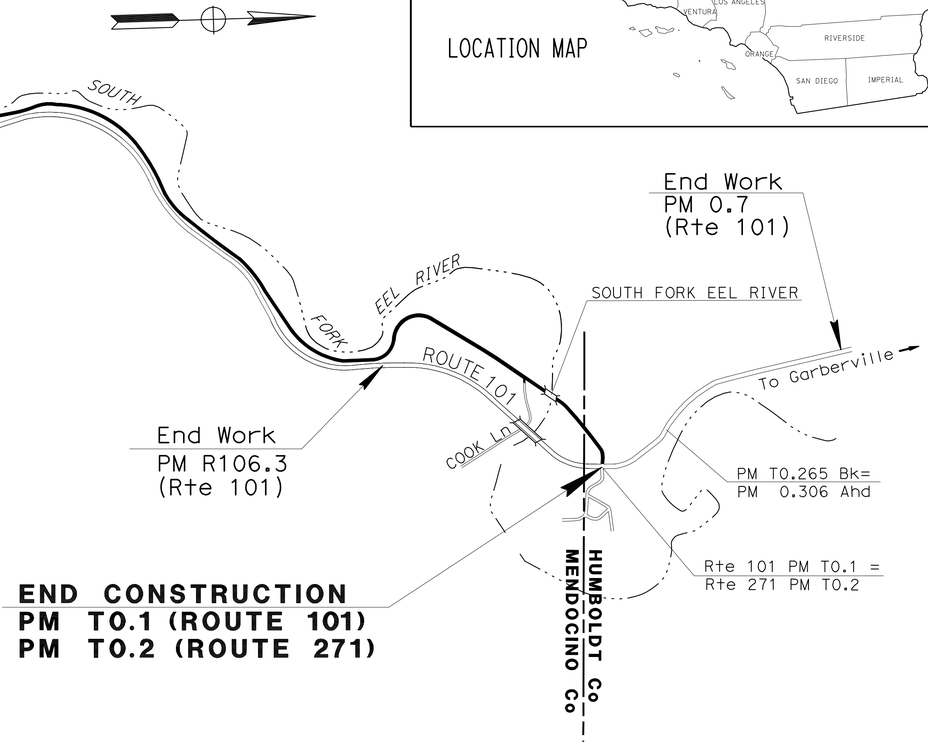
IN HUMBOLDT AND MENDOCINO COUNTIES NEAR PIERCY FROM BEAR PEN ROAD TO ROUTE 101

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	1	10

LOCATION MAP





PROJECT MANAGER: Royal B. McCarthy

DESIGN ENGINEER: Royal B. McCarthy

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

NO SCALE

Curtis D. Coburn 1/4/13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

January 4, 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.	01-0C1304
PROJECT ID	0112000231

LAST REVISION 00-00-00
DATE PLOTTED => 07-JAN-2013
TIME PLOTTED => 14:52

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	2	10

Curtis D. Coburn 1/4/13
REGISTERED CIVIL ENGINEER DATE

January 4, 2013
PLANS APPROVAL DATE

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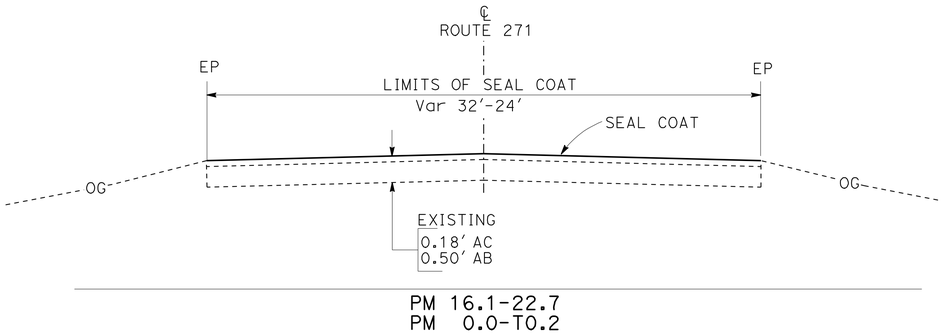
REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

NOTES

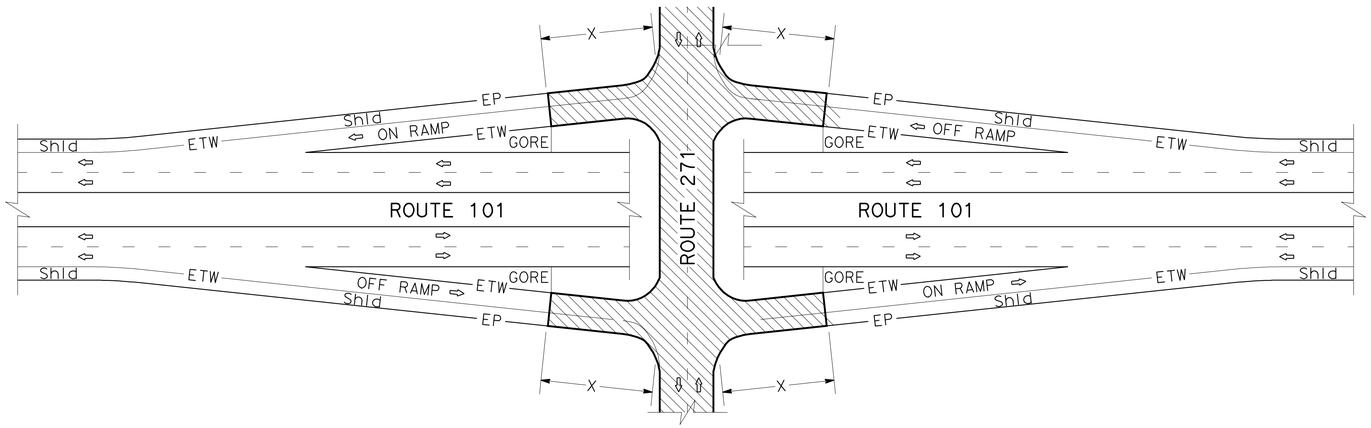
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.

LEGEND

SEAL COAT

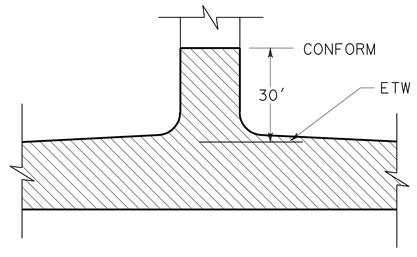


PM 16.1-22.7
PM 0.0-T0.2



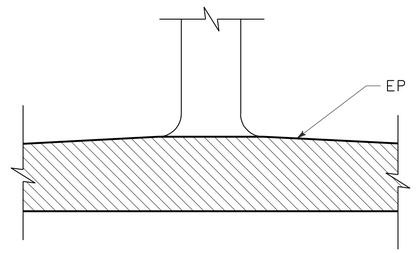
LOCATION	PM	X FT
101 SB ON RAMP (REYNOLDS)	17.00 R†	63
101 SB OFF RAMP (REYNOLDS)	17.01 L†	48
101 NB OFF RAMP (REYNOLDS)	R17.08 L†	88
101 NB ON RAMP (REYNOLDS)	R17.08 R†	55
101 NB OFF RAMP (PIERCY)	19.44 L†	40
101 NB ON RAMP (PIERCY)	19.44 R†	40
101 SB OFF RAMP (PIERCY)	19.48 R†	40
101 SB ON RAMP (PIERCY)	19.48 L†	40

RAMP CONNECTIONS



PUBLIC ROAD CONNECTION

COOK Ln - PM 22.54 R†



PRIVATE ROAD CONNECTION

TYPICAL CROSS SECTIONS AND CONSTRUCTION DETAILS
X-1

NO SCALE

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: Dave Chang | CHECKED BY: Johnathon Jackson
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 07-JAN-2013 | TIME PLOTTED => 14:52

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10c130ca001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120002311

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	3	10

Curtis D. Coburn 1/4/13
REGISTERED CIVIL ENGINEER DATE

January 4, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

	TYPE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
(A)	G20-1	ROAD WORK NEXT 7 MILES	90"x48"	2 - 6"x6"	1
	SP-1	RESURFACING	60"x14"		
(B)	W11-1	BICYCLE SYMBOL	36"x36"	1 - 6"x6"	2
	W16-1	SHARE THE ROAD	24"x30"		
(C)	G20-2	END ROAD WORK	36"x18"	1 - 4"x4"	1
(D)	G20-2	END ROAD WORK	48"x24"	1 - 4"x6"	6
(E)	W20-1	ROAD WORK AHEAD	36"x36"	1 - 4"x6"	5
(F)	W20-1	ROAD WORK AHEAD	48"x48"	1 - 6"x6"	6
(G)	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONE	144"x60"	2 - 6"x8"	2
(H)	SC6-3(CA)	RAMP CLOSED*	48"x48"	1 - 6"x6"	4

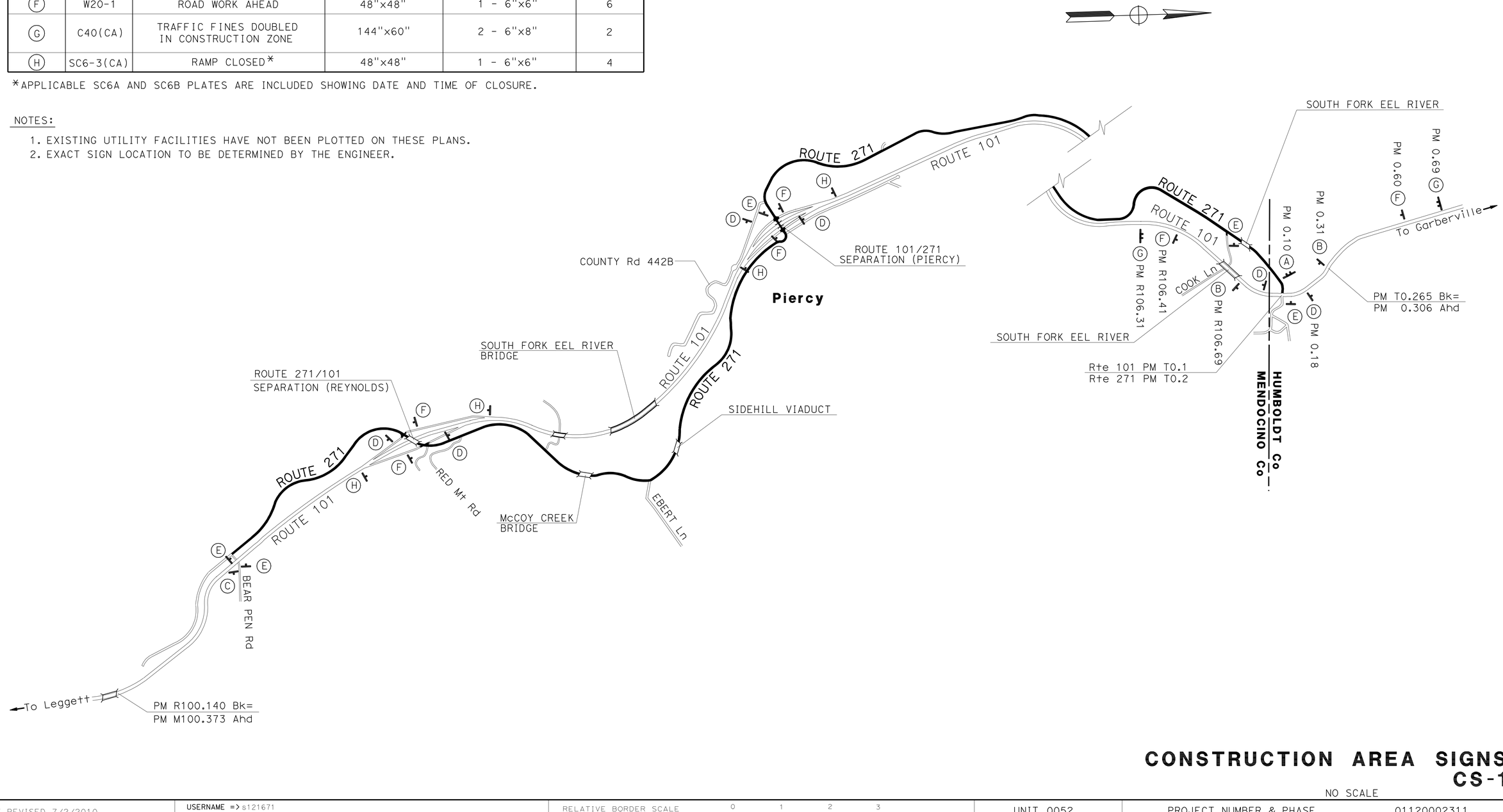
*APPLICABLE SC6A AND SC6B PLATES ARE INCLUDED SHOWING DATE AND TIME OF CLOSURE.

NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

SP-1
60" x 14"
6" Caps
BLACK/ORANGE

RESURFACING



CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: Johnathon Jackson
CHECKED BY: Dave Chang
DETAILER
REVISED BY
DATE REVISED

LAST REVISION | DATE PLOTTED => 07-JAN-2013
00-00-00 | TIME PLOTTED => 14:52

BORDER LAST REVISED 7/2/2010

USERNAME => s121671
DGN FILE => 10c1301a001.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0052

PROJECT NUMBER & PHASE 01120002311

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	4	10

Curtis D. Coburn 1/4/13
REGISTERED CIVIL ENGINEER DATE

January 4, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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THERMOPLASTIC TRAFFIC STRIPE AND PAVEMENT MARKERS

LOCATION (PM)		DETAIL NUMBER	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKERS (RETROREFLECTIVE)		REMARKS
				REMOVE 8 INCH WHITE	8 INCH WHITE	4 INCH YELLOW	4 INCH WHITE	4 INCH WHITE (BROKEN 12-3)	TYPE D YELLOW (TWO-WAY)	TYPE H YELLOW (ONE WAY)	
FROM	TO			LF					EA		
Men-271											
16.14	17.02	22	4647			9294			390		BEAR PENN Rd
16.14 L†	17.03 L†	27B	4700				4700				BEAR PENN Rd
16.14 R†	17.02 R†	27B	4647				4647				BEAR PENN Rd
17.01 R†	17.03 R†	38A	220	440	220						101 SB ON RAMP (REYNOLDS) - ISLAND
17.01 R†	17.03 R†	38A	101	202	101						101 SB ON RAMP (REYNOLDS) - ISLAND HATCH
17.02 R†		25A	102			102				6	101 SB ON RAMP (REYNOLDS)
17.03	17.08	22	264			528			24		ROUTE 271/101 SEPARATION (REYNOLDS)
17.03 L†		25A	41			41				3	101 SB OFF RAMP (REYNOLDS)
17.02 R†	17.08 R†	27B	317				317				ROUTE 271/101 SEPARATION (REYNOLDS)
17.03 L†	17.09 L†	27B	317				317				ROUTE 271/101 SEPARATION (REYNOLDS)
17.09	19.41	22	12250			24500			1023		
17.09 R†		25A	75			75				5	101 NB OFF RAMP (REYNOLDS)
17.09 L†		25A	85			85				5	101 NB ON RAMP (REYNOLDS)
17.09 R†	19.44 R†	27B	12461				12461				
17.10 L†	17.11 L†	38A	171	342	171						101 NB ON RAMP (REYNOLDS) - ISLAND
17.10 L†	17.11 L†	38A	72	144	72						101 NB ON RAMP (REYNOLDS) - ISLAND HATCH
17.09 L†	19.44 L†	27B	12408				12408				
19.42	19.43	22	53			106			8		NEAR PEPPERWOOD SPRINGS Rd
19.44	19.47	22	159			318			16		UNDER ROUTE 101/271 SEPARATION (PIERCY)
19.44 L†	19.48 L†	27B	212				212				UNDER ROUTE 101/271 SEPARATION (PIERCY)
19.44 R†	19.48 R†	27B	212				212				UNDER ROUTE 101/271 SEPARATION (PIERCY)
19.44 L†		25A	32			32				3	101 NB OFF RAMP (PIERCY)
19.44 R†		25A	45			45				3	101 NB ON RAMP (PIERCY)
19.48	19.54	22	317			634			30		
19.48 L†	19.54 L†	27B	317				317				
19.48 R†	22.56 R†	27B	16263				16263				
19.48 R†		25A	32			32				3	101 SB OFF RAMP (PIERCY)
19.48 L†		25A	35			35				3	101 SB ON RAMP (PIERCY)
19.53 L†	19.56 L†	27C	159					159			COUNTY Rd 442B
19.55	22.54	22	15788			31576			1318		
19.55 L†	22.72 L†	27B	16738				16738				
22.54 R†		22	25			50			6		COOK Ln
22.55	22.72	22	903			1806			78		
22.57 R†	22.72 R†	27B	798				798				
Hum-271											
0.00	T0.17	22	898			1796			78		
0.00	T0.17 L†	27B	898				898				
0.00	T0.17 R†	27B	898				898				
SUBTOTAL						71055	71186		2971	31	
TOTAL				1128	564	142241		159	3002		

PAVEMENT DELINEATION QUANTITIES
PDQ-1

REVISED BY | DATE REVISED
Dave Chang | Johnathon Jackson
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2013
00-00-00 | TIME PLOTTED => 14:52

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10c130nc001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120002311

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	5	10

Curtis D. Coburn 1/4/13
REGISTERED CIVIL ENGINEER DATE

January 4, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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REMOVE THERMOPLASTIC PAVEMENT MARKINGS

COUNTY	LOCATION (PM)	L+/R+ MEDIAN	ORIENTATION	TYPE/LEGEND	AREA (SQFT) WHITE	REMARKS
Men	17.01	R+	FSBT	TYPE I ARROW	31	101 SB ON RAMP (REYNOLDS)
Men	17.02	R+	FSBT	TYPE I ARROW	31	101 SB ON RAMP (REYNOLDS)
Men	17.03	L+	FSBT	LIMIT LINE	48	101 SB OFF RAMP (REYNOLDS)
Men	17.03	L+	FSBT	STOP	22	101 SB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	TYPE V ARROW	33	101 NB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	LIMIT LINE	54	101 NB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	STOP (2)	44	101 NB OFF RAMP (REYNOLDS)
Men	17.10	L+	FNBT	TYPE I ARROW	31	101 NB ON RAMP (REYNOLDS)
Men	17.11	L+	FNBT	TYPE I ARROW	31	101 NB ON RAMP (REYNOLDS)
Men	19.44	L+	FNBT	LIMIT LINE	54	101 NB OFF RAMP (PIERCY)
Men	19.44	L+	FNBT	STOP (2)	44	101 NB OFF RAMP (PIERCY)
Men	19.48	R+	FSBT	LIMIT LINE	54	101 SB OFF RAMP (PIERCY)
Men	19.48	R+	FSBT	STOP (2)	44	101 SB OFF RAMP (PIERCY)
Men	22.54	R+	FWBT	LIMIT LINE	38	COOK Ln
Men	22.54	R+	FWBT	STOP	22	COOK Ln
Hum	T0.09	R+	FNBT	STOP	22	NB LANE
Hum	T0.10	R+	FNBT	AHEAD	31	NB LANE
Hum	T0.17	R+	FNBT	LIMIT LINE	32	NB LANE
Hum	T0.17	R+	FNBT	STOP (2)	44	NB LANE
				TOTAL	454	

THERMOPLASTIC PAVEMENT MARKINGS

COUNTY	LOCATION (PM)	L+/R+ MEDIAN	ORIENTATION	TYPE/LEGEND	AREA (SQFT) WHITE	REMARKS
Men	17.01	R+	FSBT	TYPE I ARROW	31	101 SB ON RAMP (REYNOLDS)
Men	17.02	R+	FSBT	TYPE I ARROW	31	101 SB ON RAMP (REYNOLDS)
Men	17.03	L+	FSBT	LIMIT LINE	48	101 SB OFF RAMP (REYNOLDS)
Men	17.03	L+	FSBT	STOP	22	101 SB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	TYPE V ARROW	33	101 NB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	LIMIT LINE	54	101 NB OFF RAMP (REYNOLDS)
Men	17.09	R+	FNBT	STOP (2)	44	101 NB OFF RAMP (REYNOLDS)
Men	17.10	L+	FNBT	TYPE I ARROW	31	101 NB ON RAMP (REYNOLDS)
Men	17.11	L+	FNBT	TYPE I ARROW	31	101 NB ON RAMP (REYNOLDS)
Men	19.44	L+	FNBT	LIMIT LINE	54	101 NB OFF RAMP (PIERCY)
Men	19.44	L+	FNBT	STOP (2)	44	101 NB OFF RAMP (PIERCY)
Men	19.48	R+	FSBT	LIMIT LINE	54	101 SB OFF RAMP (PIERCY)
Men	19.48	R+	FSBT	STOP (2)	44	101 SB OFF RAMP (PIERCY)
Men	22.54	R+	FWBT	LIMIT LINE	38	COOK Ln
Men	22.54	R+	FWBT	STOP	22	COOK Ln
Hum	T0.09	R+	FNBT	STOP	22	NB LANE
Hum	T0.10	R+	FNBT	AHEAD	31	NB LANE
Hum	T0.17	R+	FNBT	LIMIT LINE	32	NB LANE
Hum	T0.17	R+	FNBT	STOP (2)	44	NB LANE
				TOTAL	454	

PAVEMENT DELINEATION QUANTITIES
PDQ-2

REVISED BY | DATE REVISED
Dave Chang | Johnathon Jackson
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 07-JAN-2013 | TIME PLOTTED => 14:52

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10c130nc002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120002311

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	6	10

Curtis D. Coburn 1/4/13
REGISTERED CIVIL ENGINEER DATE

January 4, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
CURTIS D. COBURN
No. 58431
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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ROADWAY QUANTITIES

LOCATION (PM)		AVERAGE WIDTH	SCREENINGS (HOT APPLIED)	ASPHALTIC RUBBER BINDER	ASPHALTIC EMULSION (FOG SEAL)	SAND COVER	REMARKS
FROM	TO	FT	TON				
Men-271							
16.14	17.03	32	250.7	45.3	4.2	30.1	BEAR PENN Rd
17.00 R†		105	11.0	2.0	0.2	1.4	101 SB ON RAMP (REYNOLDS)
17.01 L†		54	4.3	0.8	0.1	0.6	101 SB OFF RAMP (REYNOLDS)
17.03	R17.06						ROUTE 271/101 SEPARATION (REYNOLDS)
R17.06	17.23	31	46.4	8.4	0.8	5.6	
17.08 L†		49	7.2	1.3	0.2	0.9	101 NB OFF RAMP (REYNOLDS)
17.08 R†		121	11.1	2.1	0.2	1.4	101 NB ON RAMP (REYNOLDS)
17.23	17.25	30	5.3	1.0	0.1	0.7	
17.25	17.88	27	149.8	27.1	2.5	18.0	
17.88	17.92						McCOY CREEK BRIDGE
17.92	18.39	28	115.9	21.0	2.0	13.9	
18.39	18.41						SIDEHILL VIADUCT (McCOY CREEK)
18.41	18.78	30	97.7	17.7	1.7	11.8	
18.78	19.00	30	58.1	10.5	1.0	7.0	
19.00	19.19	27	45.2	8.2	0.8	5.5	
19.19	22.59	24	718.3	129.7	12.0	86.2	
19.44 L†		181	12.1	2.2	0.3	1.5	101 NB OFF RAMP (PIERCY)
19.44 R†		194	13.0	2.4	0.3	1.6	101 NB ON RAMP (PIERCY)
19.48 R†		170	11.4	2.1	0.2	1.4	101 SB OFF RAMP (PIERCY)
19.48 L†		163	10.9	2.0	0.2	1.3	101 SB ON RAMP (PIERCY)
22.54 R†		91	4.6	0.9	0.1	0.6	COOK Ln
22.59	22.64						SOUTH FORK EEL RIVER BRIDGE
22.64	22.72	24	16.9	3.1	0.3	2.1	
Hum-271							
0.00	T0.17	24	65.5	11.9	1.1	7.9	JUNCTION ROUTE 101/271
		TOTAL	1655.4	299.7	28.3	199.5	

SUMMARY OF QUANTITIES
Q-1

REVISED BY | DATE REVISED
Dave Chang | Johnathon Jackson
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 07-JAN-2013
00-00-00 | TIME PLOTTED => 14:52

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10c130pq001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120002311

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	7	10

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

January 4, 2013
PLANS APPROVAL DATE

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

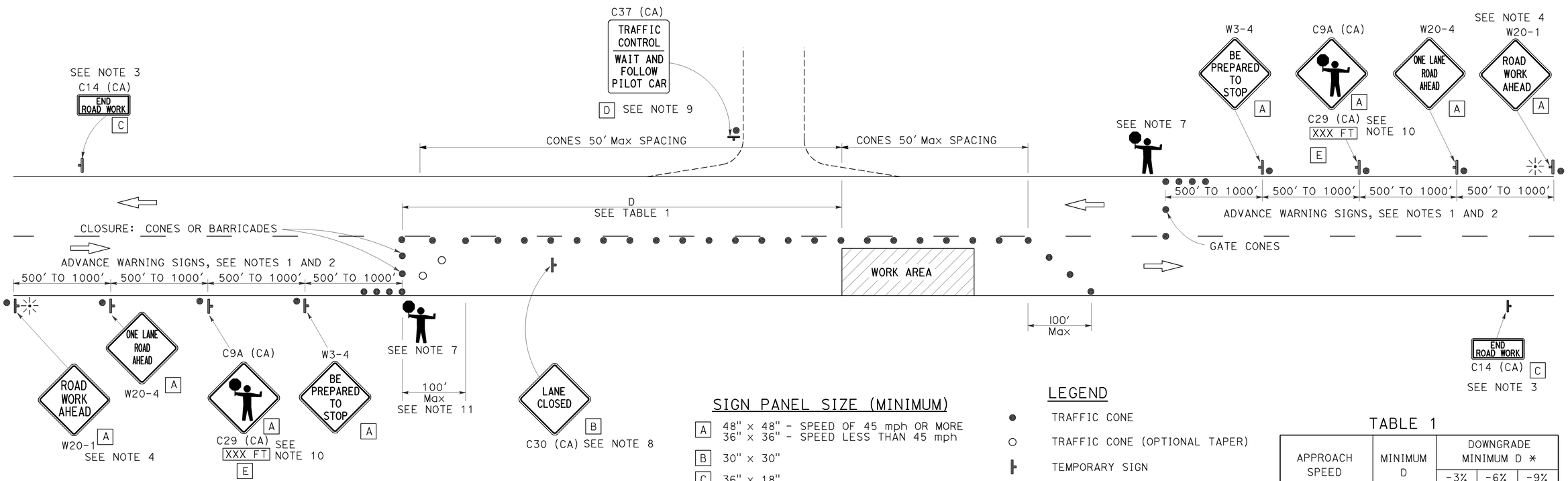
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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

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.

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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-1

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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

BORDER LAST REVISED 7/2/2010 | USERNAME => s114640 | DGN FILE => tcs13.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01120002311

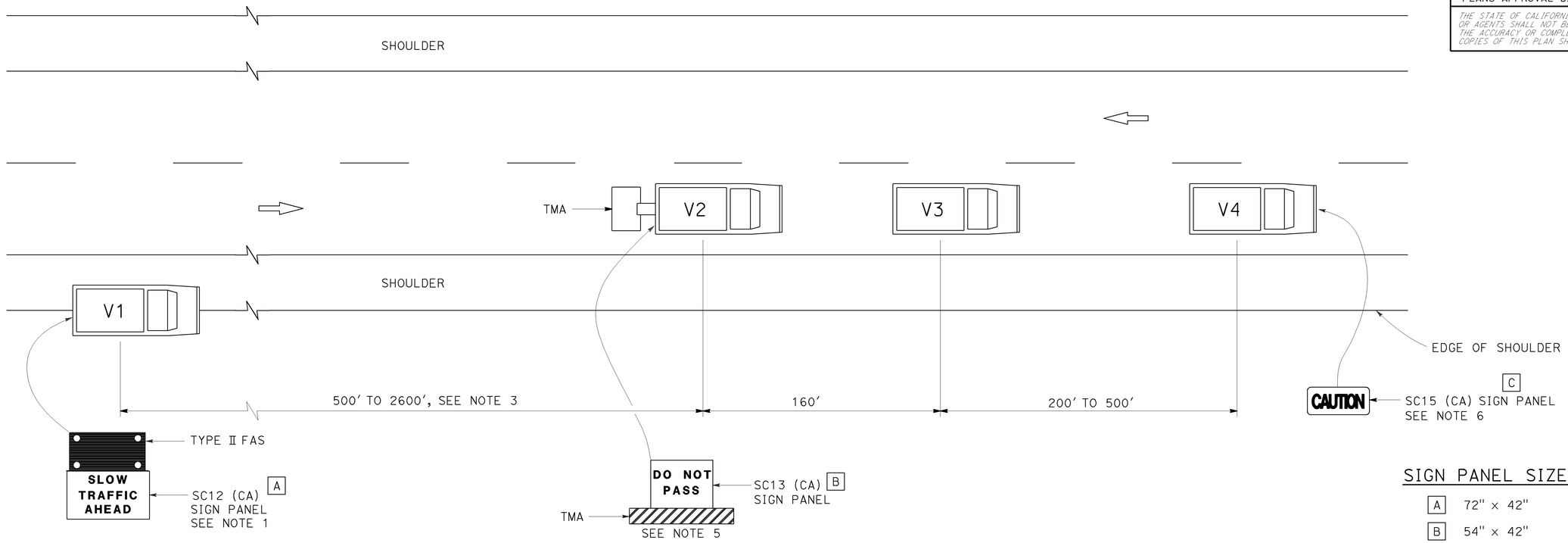
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	8	10

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

January 4, 2013
PLANS APPROVAL DATE

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

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



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

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

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
01	Hum, Men	271	0.0/T0.2 16.1/22.7	9	10

REGISTERED CIVIL ENGINEER

April 20, 2012
PLANS APPROVAL DATE

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

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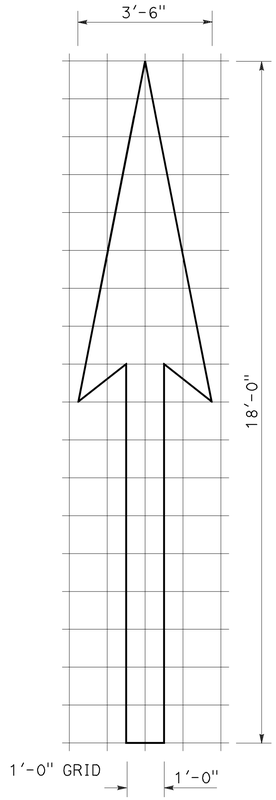
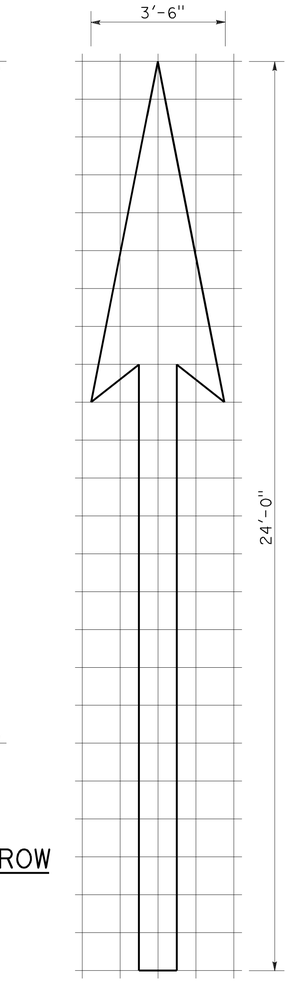
TO ACCOMPANY PLANS DATED January 4, 2013



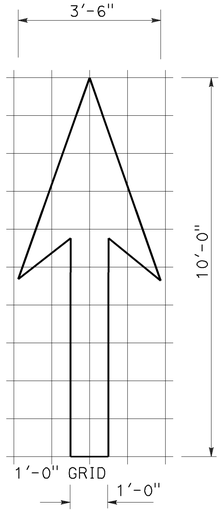
A=25 ft²

TYPE I 18'-0" ARROW



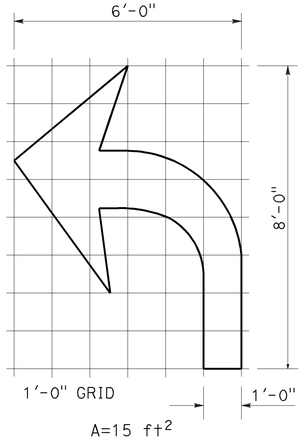
A=31 ft²

TYPE I 24'-0" ARROW



A=14 ft²

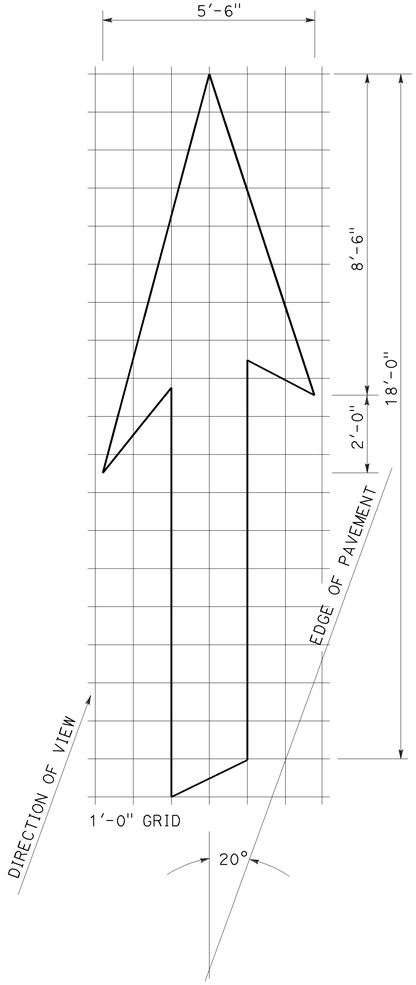
TYPE I 10'-0" ARROW



A=15 ft²

TYPE IV (L) ARROW

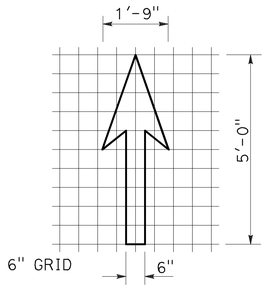
(For Type IV (R) arrow, use mirror image)



A=42 ft²

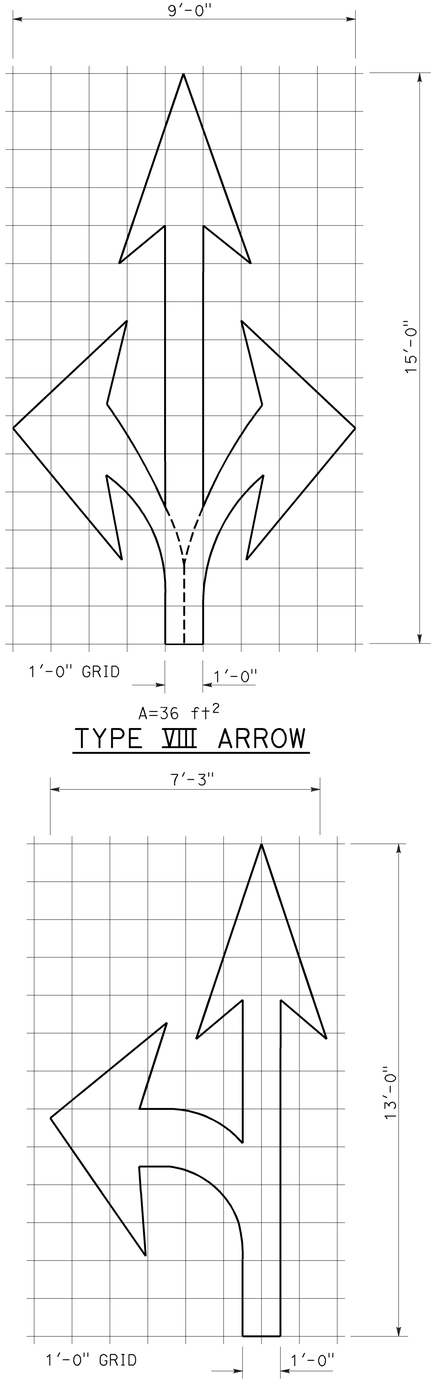
TYPE VI ARROW

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



A=3.5 ft²

BIKE LANE ARROW



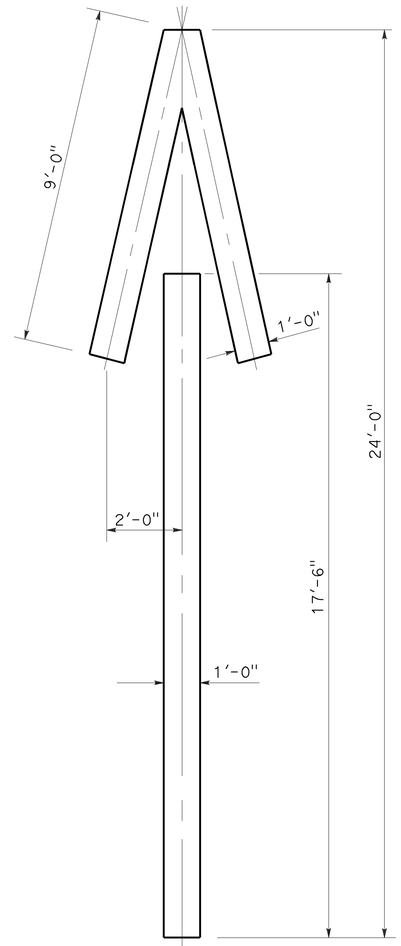
A=36 ft²

TYPE VIII ARROW

A=27 ft²

TYPE VII (L) ARROW

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



A=33 ft²

TYPE V ARROW

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

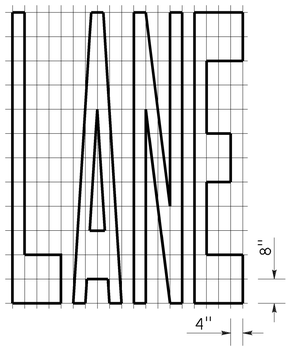
NO SCALE

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

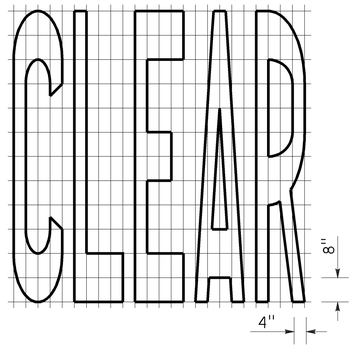
REVISED STANDARD PLAN RSP A24A

2010 REVISED STANDARD PLAN RSP A24A

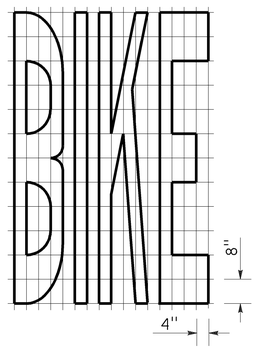
3-14-12



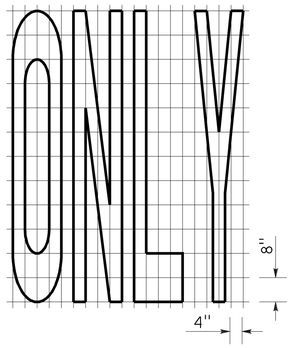
A=24 ft^2



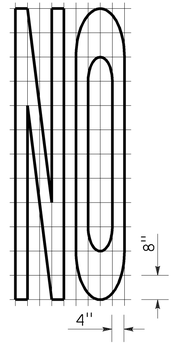
A=27 ft^2



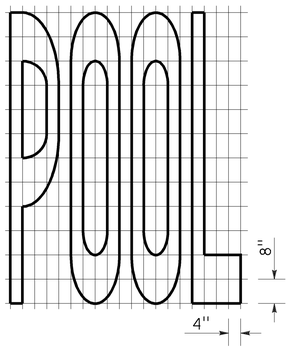
A=21 ft^2



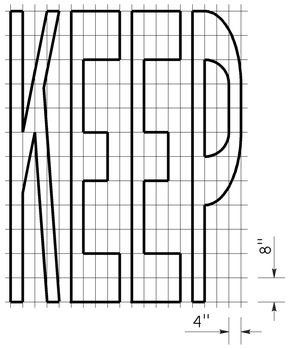
A=22 ft^2



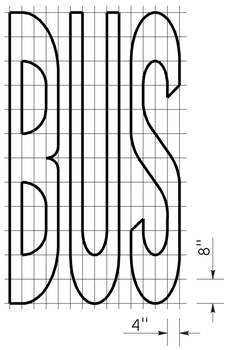
A=14 ft^2



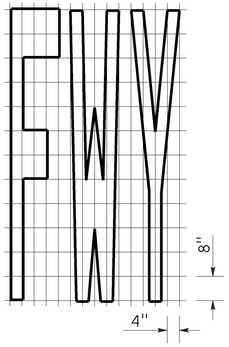
A=23 ft^2



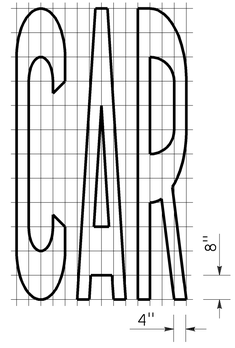
A=24 ft^2



A=20 ft^2

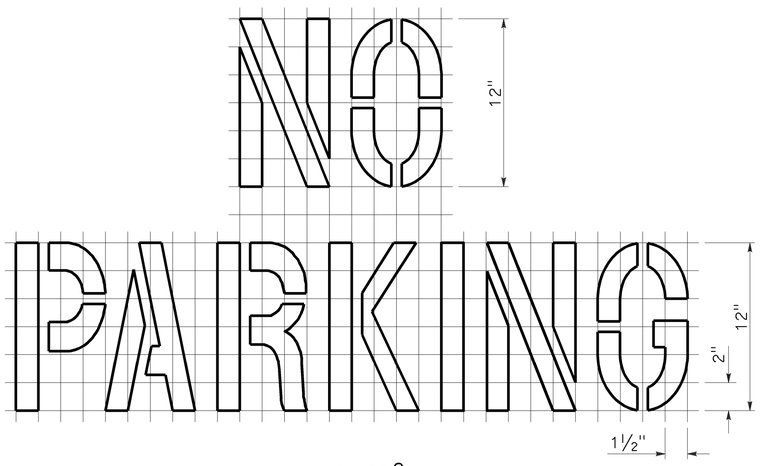


A=16 ft^2



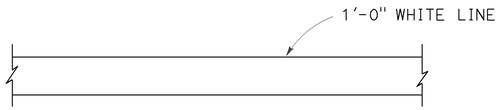
A=17 ft^2

WORD MARKINGS			
ITEM	ft^2	ITEM	ft^2
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

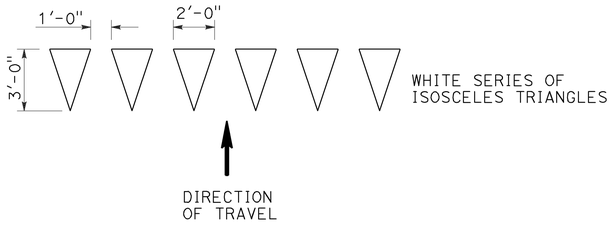


A=2 ft^2

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.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum, Men	271	0.0/T0.2 16.1/22.7	10	10

Roberta L. McLaughlin
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 January 4, 2013

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