INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	CONSTRUCTION DETAILS
6-7	CONSTRUCTION AREA SIGNS
8	SUMMARY OF QUANTITIES
9-11	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

HSINHG-000C(340)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	1	11

PROJECT PLANS FOR CONSTRUCTION ON

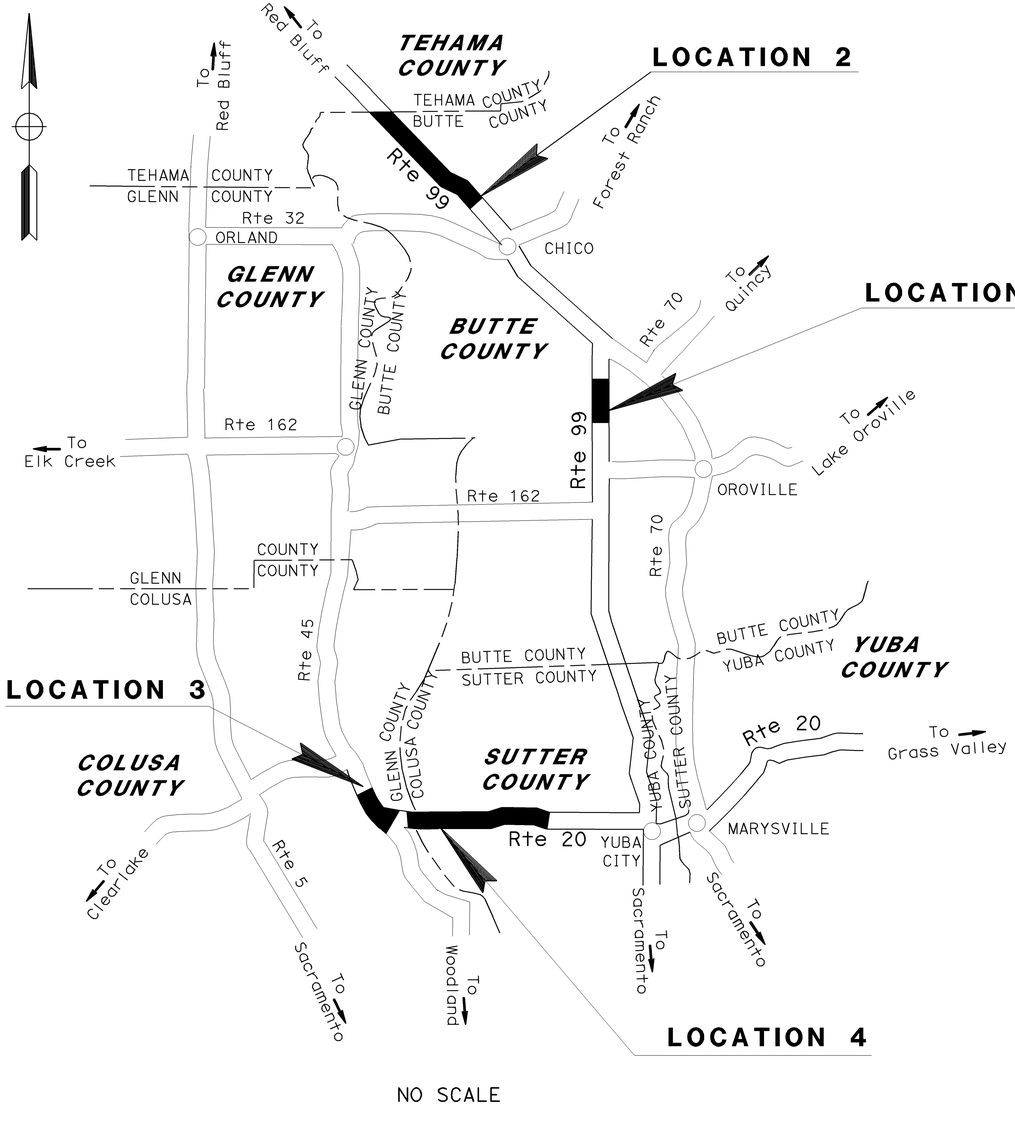
STATE HIGHWAY

IN BUTTE, COLUSA, AND SUTTER COUNTIES AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATIONS OF CONSTRUCTION

No.	COUNTY	ROUTE	PM
①	But	99	19.68 to 21.12
②	But	99	R37.50 to 45.98
③	Col	20	34.81 to 36.79
④	Col	20	38.03 to R39.37
	Sut	20	R0.00 to 10.67



NO SCALE

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

PROJECT MANAGER: NAJED DAKAK

DESIGN ENGINEER: ROBERT PETERSON

Michael Hagen 3-15-11
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

APRIL 4, 2011
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — MIKE HAGEN No. 59820 Exp. 12-31-11 CIVIL — STATE OF CALIFORNIA

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

CONTRACT No.	03-1F0304
PROJECT ID	0300020254

DATE PLOTTED => 06-APR-2011
TIME PLOTTED => 13:21
LAST REVISION 00-00-00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	2	11

Mikael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

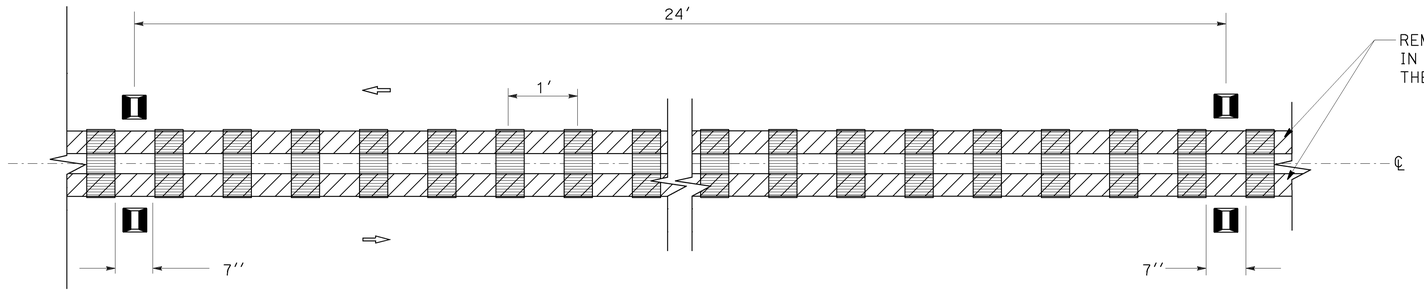
4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

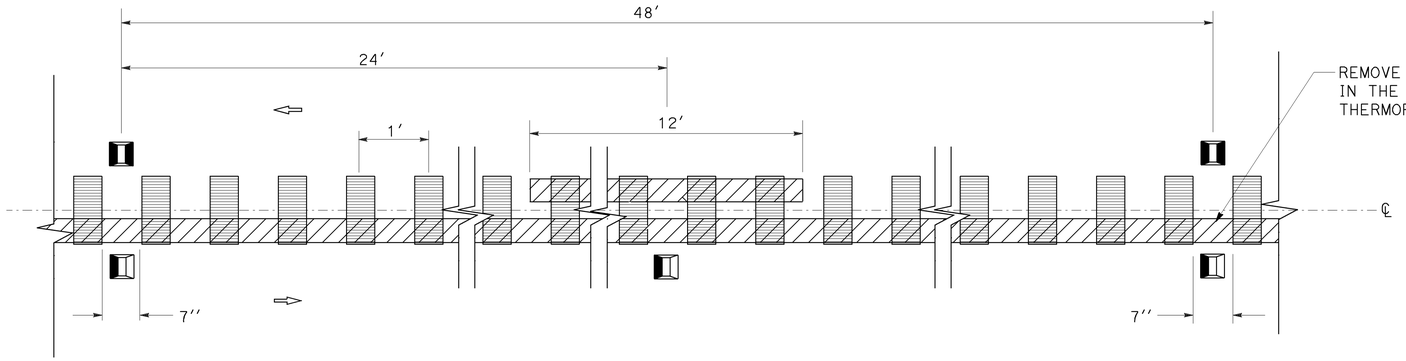
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

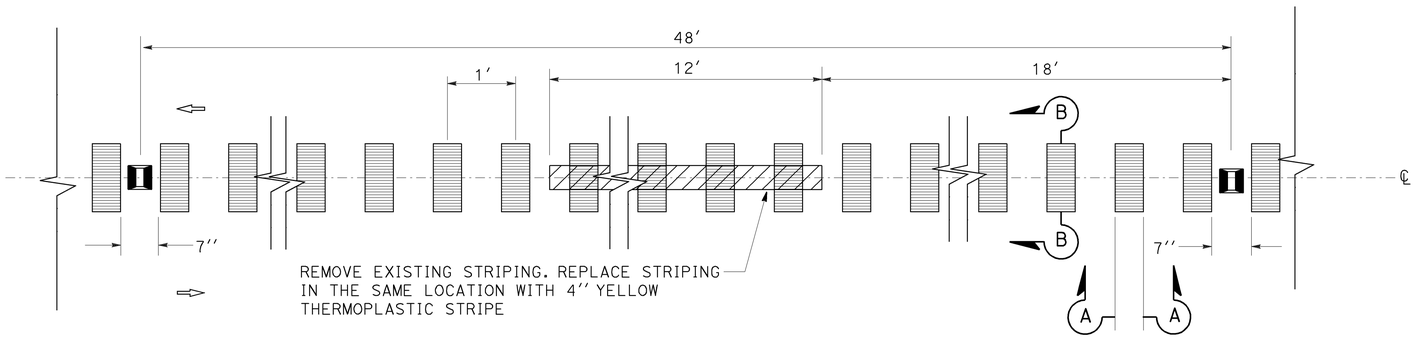
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. CENTERLINE RUMBLE STRIPS WILL CONTINUE THROUGH LOCATIONS WITH PRIVATE DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLANS. SEE SHEET C-3 FOR INTERSECTION DETAILS.
3. CENTERLINE RUMBLE STRIP SHALL BE CONSTRUCTED PRIOR TO INSTALLING THERMOPLASTIC TRAFFIC STRIPING.
4. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGE STRUCTURES OR APPROACH SLABS



DETAIL 22 WITH CENTERLINE RUMBLE STRIPS



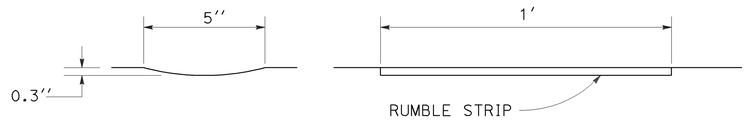
DETAIL 19 WITH CENTERLINE RUMBLE STRIPS



DETAIL 6 WITH CENTERLINE RUMBLE STRIPS

LEGEND

- DIRECTION OF TRAVEL
- PAVEMENT MARKER (RETROREFLECTIVE), TYPE D, YELLOW
- PAVEMENT MARKER (RETROREFLECTIVE - SPECIAL, TYPE H), YELLOW
- PAVEMENT MARKER (NON-REFLECTIVE), TYPE A, BLACK
- PAVEMENT MARKER (NON-REFLECTIVE), TYPE AY, YELLOW
- CENTERLINE RUMBLE STRIPS (AC, GROUND-IN INDENTATIONS)



SECTION A-A SECTION B-B

CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS) DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-1

REVISED BY | DATE REVISED
MIKE HAGEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION 01-13-11
DATE PLOTTED => 06-APR-2011
TIME PLOTTED => 13:21

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	3	11

Michael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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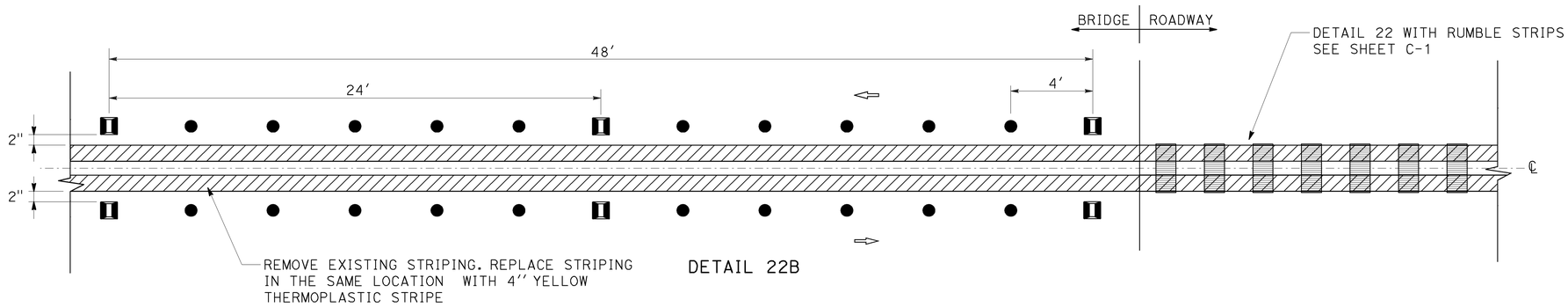
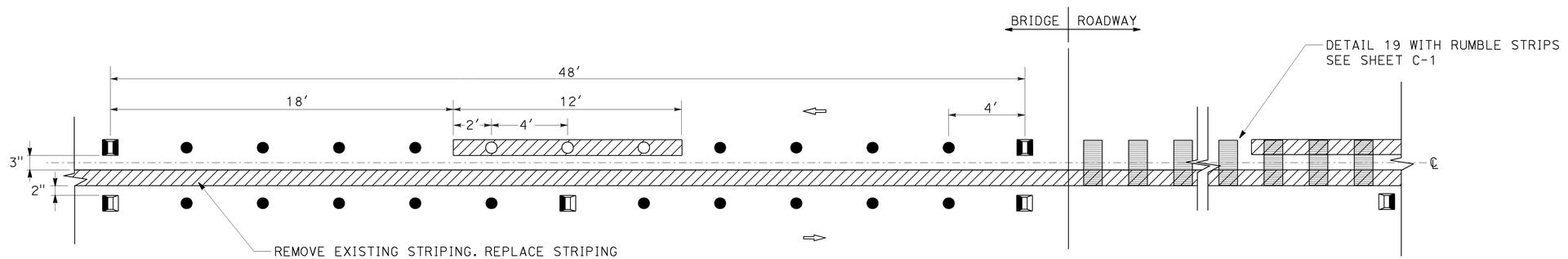
NOTES:

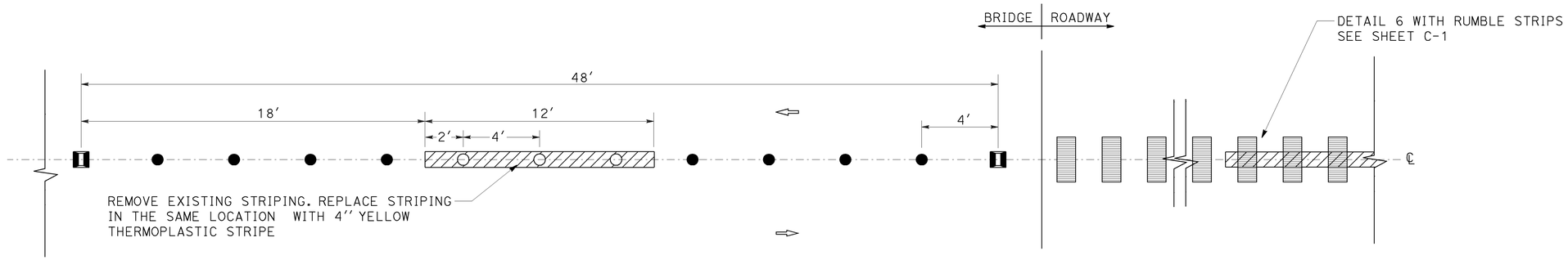
1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. CENTERLINE RUMBLE STRIP SHALL BE CONSTRUCTED PRIOR TO INSTALLING THERMOPLASTIC TRAFFIC STRIPING.
3. CENTERLINE STRIPING PATTERN TO MATCH EXISTING UNLESS OTHERWISE NOTED.
4. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGE STRUCTURES OR APPROACH SLABS



DETAIL 22B



DETAIL 19B



DETAIL 6B

CENTERLINE RUMBLE STRIPS AND STRIPING AT BRIDGE STRUCTURES

CONSTRUCTION DETAILS

NO SCALE

C-2

REVISED BY | DATE REVISED
MIKE HAGEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION 01-13-11 | DATE PLOTTED => 06-APR-2011 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME => s134507 | DGN FILE => 0300020254ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0391 | PROJECT NUMBER & PHASE 03000202541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	4	11

Mikael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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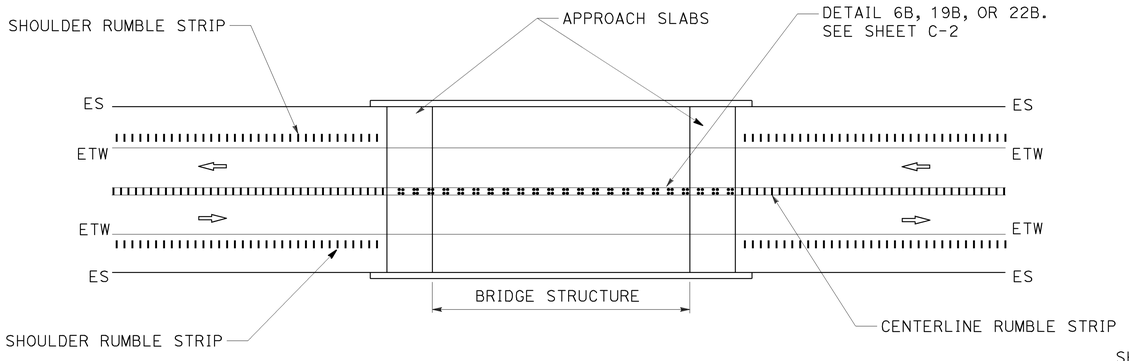
NOTES:

1. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.
2. CENTERLINE RUMBLE STRIPS WILL CONTINUE THROUGH LOCATIONS WITH PRIVATE DRIVEWAYS UNLESS OTHERWISE NOTED ON THE PLANS.
3. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGE STRUCTURES OR APPROACH SLABS.
4. CENTERLINE RUMBLE STRIPS SHALL NOT BE PLACED AT TWO-WAY LEFT TURN LANE LOCATIONS.
5. CENTERLINE STRIPING PATTERN TO MATCH EXISTING UNLESS OTHERWISE NOTED.
6. SEE STANDARD PLAN A40B FOR SHOULDER RUMBLE STRIP DETAILS.

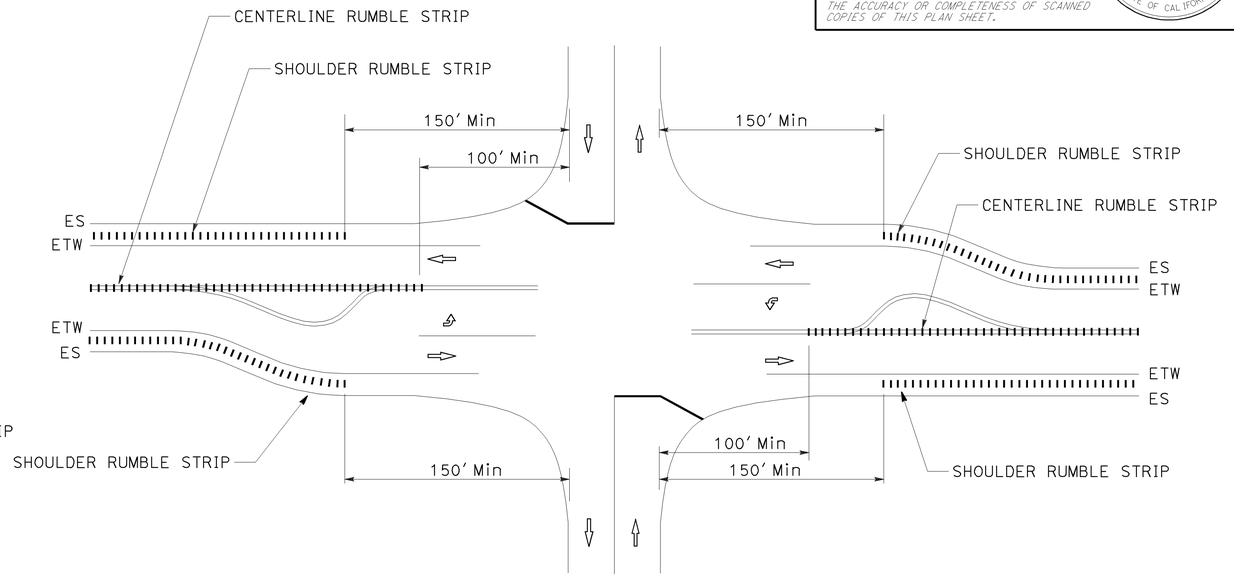
LEGEND:

⇨ DIRECTION OF TRAVEL

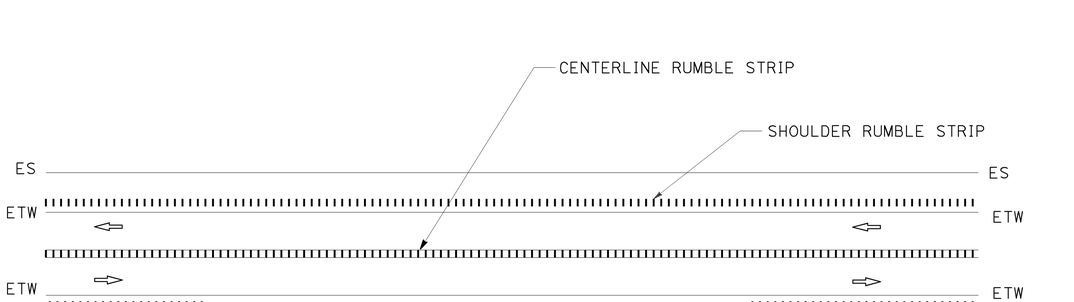
RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)



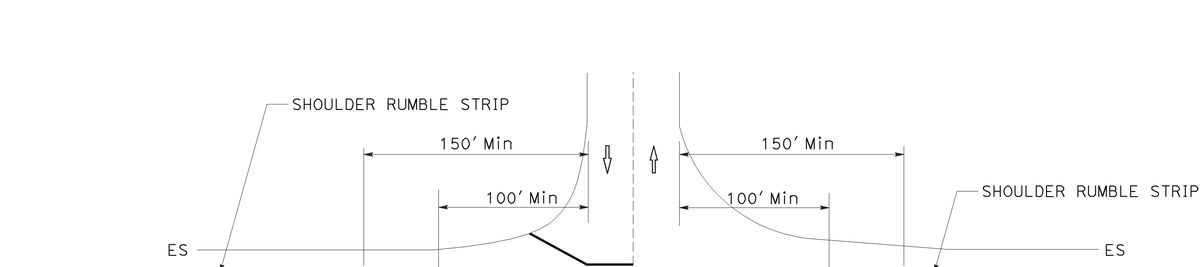
RUMBLE STRIPS AT BRIDGE STRUCTURES



RUMBLE STRIPS AT INTERSECTION WITH LEFT TURN POCKETS



RUMBLE STRIPS AT DRIVEWAY/ PRIVATE ROAD APPROACH



RUMBLE STRIPS AT PUBLIC ROAD INTERSECTION

CONSTRUCTION DETAILS

NO SCALE

C-3

REVISED BY: MIKE HAGEN
DATE REVISED:
CALCULATED-DESIGNED BY:
CHECKED BY:
FUNCTIONAL SUPERVISOR: ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION: 01-13-11
DATE PLOTTED => 06-APR-2011
TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME => s134507
DGN FILE => 03000202254ga003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0391
PROJECT NUMBER & PHASE 03000202541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	5	11

Michael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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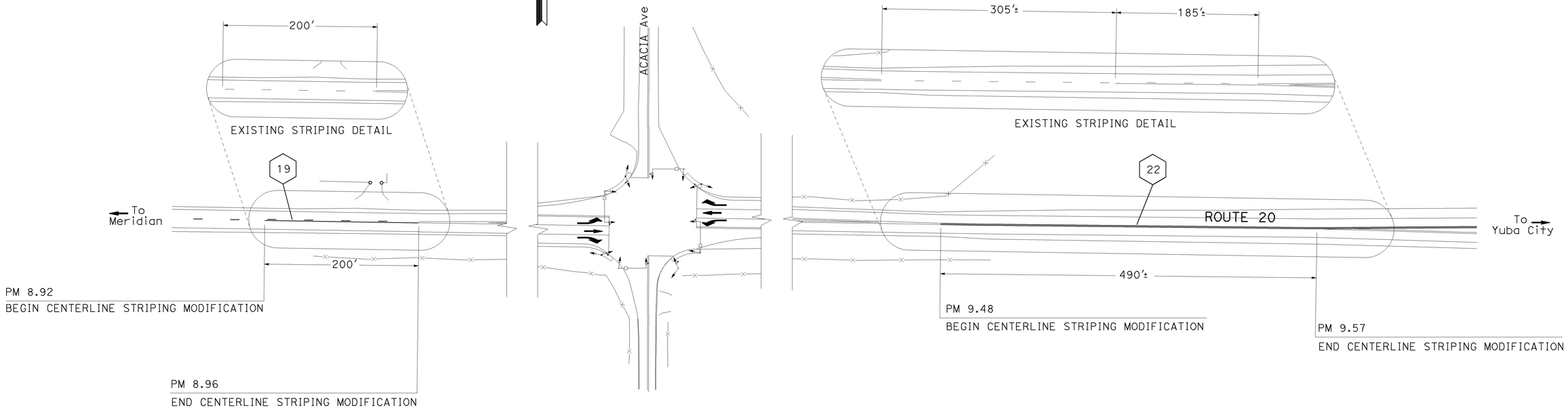
NOTE:

1. SEE SHEET Q-1 FOR STRIPING AND RUMBLE STRIP QUANTITIES

LEGEND:

(No.) PAVEMENT DETAIL DELINEATION NUMBER



CENTERLINE STRIPING MODIFICATIONS

LOCATION			LENGTH	EXISTING STRIPING DETAIL	NEW STRIPING DETAIL	COMMENTS
COUNTY	ROUTE	PM to PM	LF			
Sut	20	8.92 to 8.96	200	6	19	WITH CENTERLINE RUMBLE STRIPS**
Sut	20	9.48 TO 9.54	305	6	22	WITH CENTERLINE RUMBLE STRIPS**
Sut	20	9.54 TO 9.57	185	19	22	WITH CENTERLINE RUMBLE STRIPS**

**SEE NOTE 1

CONSTRUCTION DETAILS

NO SCALE

C-4

MIKE HAGEN — CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
ROBERT PETERSON — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION 01-13-11
DATE PLOTTED => 06-APR-2011
TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME => s134507
DGN FILE => 03000202541ga004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0391
PROJECT NUMBER & PHASE 03000202541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	6	11

Michael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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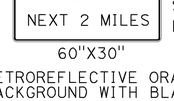
STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION AND DESCRIPTION	FACING TRAFFIC				SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER AND SIZE OF POST	NUMBER OF SIGNS
			NB	SB	EB	WB	FEDERAL	CALIFORNIA				
①	But-99	500 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 19.58	1				G20-1 [Spec] (2)		ROAD WORK NEXT 2 MILES	60" X 30"	2-4"X6"	1
		250 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 19.63		1			G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
		SHIPPEE RD - PM 19.68				1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		250 FT AFTER THE END OF RUMBLE STRIPS - PM R21.17	1				G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
		500 FT AFTER THE END OF RUMBLE STRIPS - PM R21.22		1			G20-1 [Spec] (2)		ROAD WORK NEXT 2 MILES	60" X 30"	2-4"X6"	1
②	But-99	500 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM R37.40	1				G20-1 [Spec] (9)		ROAD WORK NEXT 9 MILES	60" X 30"	2-4"X6"	1
		250 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM R37.45		1			G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
		GARNER LN - PM 37.77			1	1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	2
		ESPLANADE - PM T38.21			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		HEDSTROM WAY - PM T38.36				1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		WILSON LANDING RD - PM 38.79			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		GARDEN BROOK DR - PM 39.83				1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		ANITA RD - PM 40.03			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		KEEFER RD - PM 40.21				1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		MERIDIAN RD - PM 40.84				1	W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		CANA WAY - PM 42.43			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		HAMILTON NORD/CANA WAY - PM 44.00			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		BRAYLES RD - PM 44.33			1		W20-1	C23	ROAD WORK AHEAD	48" X 48"	1-6"X6"	1
		250 FT AFTER THE END OF RUMBLE STRIPS - PM 0.05	1				G20-2	C14	END ROAD WORK	36" X 18"	1-4"X4"	1
		500 FT AFTER THE END OF RUMBLE STRIPS - PM 0.10		1			G20-1 [Spec] (9)		ROAD WORK NEXT 9 MILES	60" X 30"	2-4"X6"	1

G20-1[Spec](2)

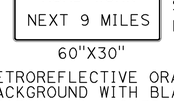


6" C SERIES LETTERS

60"X30"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

G20-1[Spec](9)



6" C SERIES LETTERS

60"X30"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

SIGN DETAILS

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
MIKE HAGEN
FUNCTIONAL SUPERVISOR
ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION | DATE PLOTTED => 06-APR-2011
01-13-11 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME => s134507
DGN FILE => 03000202541a001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0391
PROJECT NUMBER & PHASE 03000202541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	7	11

Michael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

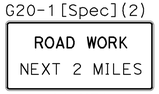
REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

LOCATION NUMBER	COUNTY AND ROUTE	SIGN LOCATION AND DESCRIPTION	FACING TRAFFIC				SIGN CODE		SIGN MESSAGE	PANEL SIZE	NUMBER AND SIZE OF POST	NUMBER OF SIGNS
			NB	SB	EB	WB	FEDERAL	CALIFORNIA				
③	Col-20	500 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 34.71			1		G20-1 [Spec] (2)		ROAD WORK NEXT 2 MILES	60" x 30"	2-4"x6"	1
		250 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 34.76				1	G20-2	C14	END ROAD WORK	36" x 18"	1-4"x4"	1
		NIAGRA AVE - PM 34.81	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		ROUTE 45 SOUTHBOUND - PM 36.79	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		250 FT AFTER THE END OF RUMBLE STRIPS - PM 36.84			1		G20-2	C14	END ROAD WORK	36" x 18"	1-4"x4"	1
		500 FT AFTER THE END OF RUMBLE STRIPS - PM 36.89				1	G20-1 [Spec] (2)		ROAD WORK NEXT 2 MILES	60" x 30"	2-4"x6"	1
④	Col-20	500 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 37.93			1		G20-1 [Spec] (12)		ROAD WORK NEXT 12 MILES	60" x 30"	2-4"x6"	1
		250 FT BEFORE THE BEGINNING OF RUMBLE STRIPS - PM 37.98				1	G20-2	C14	END ROAD WORK	36" x 18"	1-4"x4"	1
		SYCAMORE RD - PM 38.03	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		ALAMEDA CT - PM 39.12		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
	Sut-20	4TH ST - PM R0.24	1	1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	2
		CENTRAL ST - PM R0.86	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		FARMLAND RD - PM 1.46		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		DREXLER RD - PM 1.90	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		HAGEMAN RD - PM 2.72		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		SOUTH TARKE RD - PM 3.99	1				W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		WEST BUTTE RD - PM 5.16		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		MOREHEAD RD - PM 6.33		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		SOUTHRIDGE BLVD - PM 6.85		1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	1
		ACACIA AVE - PM 9.18	1	1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	2
		HUMPREY RD - PM 10.67	1	1			W20-1	C23	ROAD WORK AHEAD	48" x 48"	1-6"x6"	2
		250 FT AFTER THE END OF RUMBLE STRIPS - PM 10.72			1		G20-2	C14	END ROAD WORK	36" x 18"	1-4"x4"	1
		500 FT AFTER THE END OF RUMBLE STRIPS - PM 10.77				1	G20-1 [Spec] (12)		ROAD WORK NEXT 12 MILES	60" x 30"	2-4"x6"	1

G20-1[Spec](2)

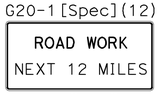


6" C SERIES LETTERS

60"X30"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

G20-1[Spec](12)



6" C SERIES LETTERS

60"X30"

RETROREFLECTIVE ORANGE BACKGROUND WITH BLACK LEGEND AND BORDER.

SIGN DETAILS

CONSTRUCTION AREA SIGNS

NO SCALE

CS-2

REVISED BY | DATE REVISED
MIKE HAGEN
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC SAFETY
Caltrans

LAST REVISION | DATE PLOTTED => 06-APR-2011
01-13-11 | TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010 | USERNAME => s134507 | DGN FILE => 03000202541a002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0391 | PROJECT NUMBER & PHASE 03000202541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But, Col, Sut	20, 99	Var	8	11

Michael Hagen 3-15-11
REGISTERED CIVIL ENGINEER DATE

4-4-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
MIKE HAGEN
No. 59820
Exp. 12-31-11
CIVIL
STATE OF CALIFORNIA

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

ROADWAY QUANTITIES

			LOCATION		LENGTH	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE (HAZARDOUS WASTE)	4" THERMOPLASTIC TRAFFIC STRIPE	4" THERMOPLASTIC TRAFFIC STRIPE (BROKEN 36-12)	REMOVE PAVEMENT MARKER	PAVEMENT MARKER (RETROREFLECTIVE)				PAVEMENT MARKER (NON-REFLECTIVE)			SHOULDER RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)	CENTERLINE RUMBLE STRIP (AC, GROUND-IN INDENTATIONS)	COMMENTS
							YELLOW	YELLOW	(N)	TYPE D YELLOW	TYPE H YELLOW	TYPE AY YELLOW	TYPE A BLACK						
No.	County	Route	PM to PM		LF	LF	LF	LF	EA	EA	EA	EA	EA				STA	STA	
1	But	99	19.68 to 21.12		7,603	8,418	6,880	7,030	451	297	154	46					128.8	64.4	
2			R37.50 to 45.98		51,110	65,573	57,320	33,160	3,198	2,428	770	196	7				846.4	316.8	
3	Col	20	34.81 to 36.79		10,454	6,965	4,960	8,130	388	368	20	19	7				205.8	102.9	
4	Col	20	38.03 to R39.37		7,075	5,713	5,700	3,010	312	292	20	155						59.1	
	Sut	20	R0.00 to 8.96		47,309	37,335	34,250	31,290	2,156	1,865	301	1,373	235					401.7	
			9.48 to 10.67		11,563	6,478	6,310	3,120	326	323	25	88						58.0	
			SUBTOTAL			130,482	115,420	85,740	6,831	5,573	1,290	1,877	249				1,181.0	1,002.9	
			TOTAL			130,482	115,420	85,740	6,831	6,863		2,126					1,181.0	1,002.9	

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

SUMMARY OF QUANTITIES

Q-1

CALCULATED-DESIGNED BY: MIKE HAGEN
CHECKED BY:
REVISED BY:
DATE REVISED:
FUNCTIONAL SUPERVISOR: ROBERT PETERSON
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC SAFETY

LAST REVISION 01-13-11
DATE PLOTTED => 06-APR-2011
TIME PLOTTED => 13:21

BORDER LAST REVISED 7/2/2010
USERNAME => s134507
DGN FILE => 0300020254pa001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0391
PROJECT NUMBER & PHASE 03000202541

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But,Col, Sut	20,99	Var	9	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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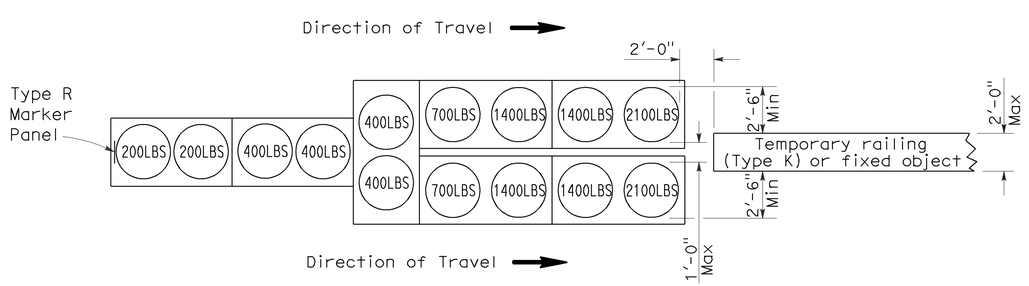
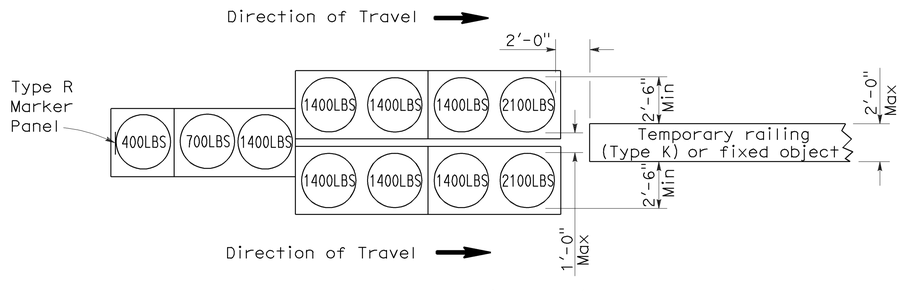
To accompany plans dated 4-4-11



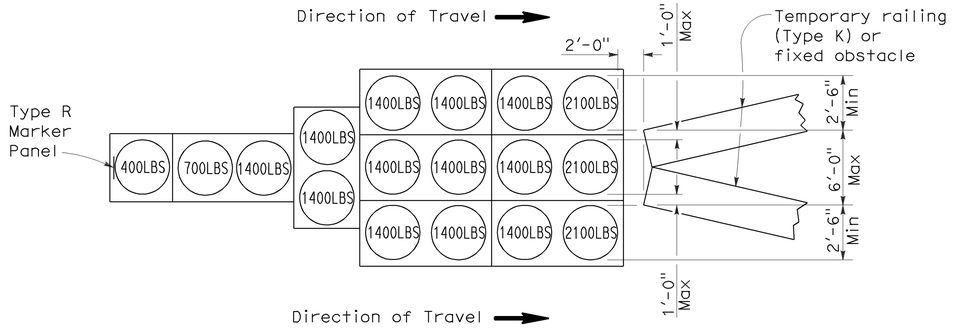
ARRAY 'TU14'

Approach speed 45 mph or more



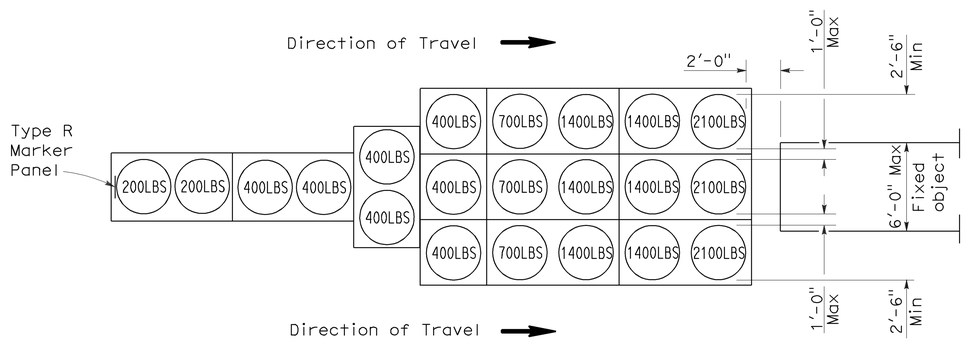
ARRAY 'TU11'

Approach speed less than 45 mph



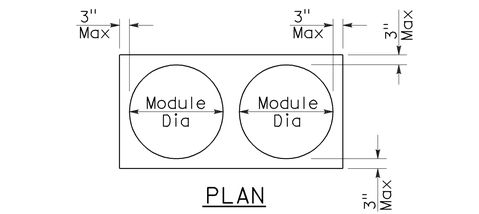
ARRAY 'TU17'

Approach speed less than 45 mph

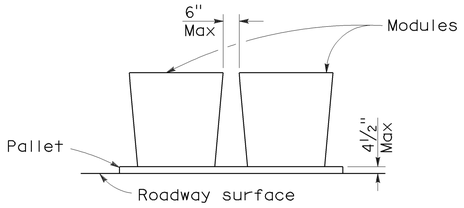


ARRAY 'TU21'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (UNIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1A

2006 REVISED STANDARD PLAN RSP T1A

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But,Col, Sut	20,99	Var	10	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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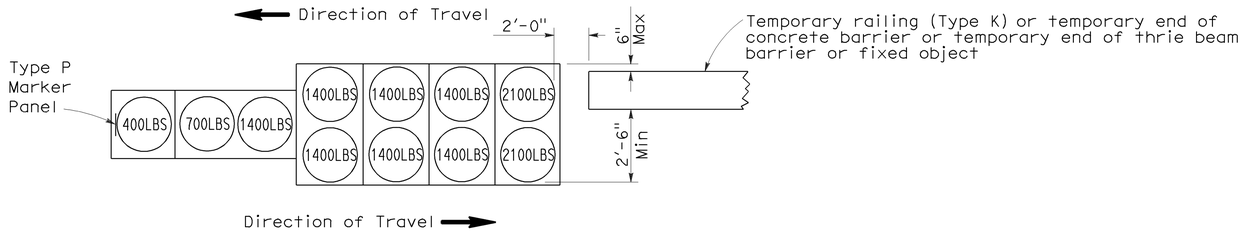
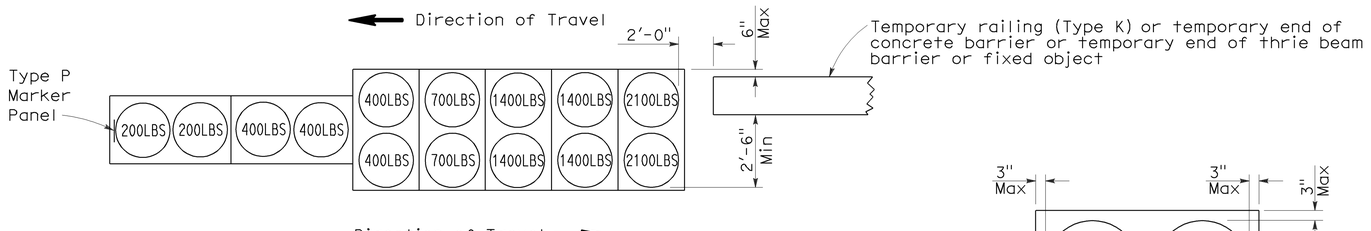
To accompany plans dated 4-4-11



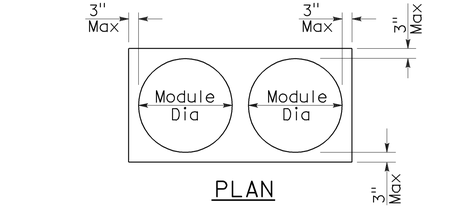
ARRAY 'TB11'

Approach speed less than 45 mph

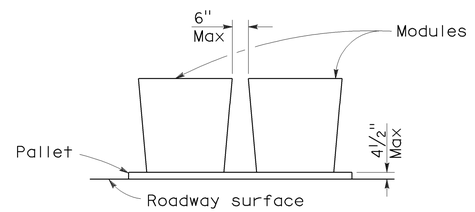


ARRAY 'TB14'

Approach speed 45 mph or more



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 7

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (BIDIRECTIONAL)

NO SCALE

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

REVISED STANDARD PLAN RSP T1B

2006 REVISED STANDARD PLAN RSP T1B

5-15-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
03	But,Col, Sut	20,99	Var	11	11

Randell D. Hiatt
REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

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

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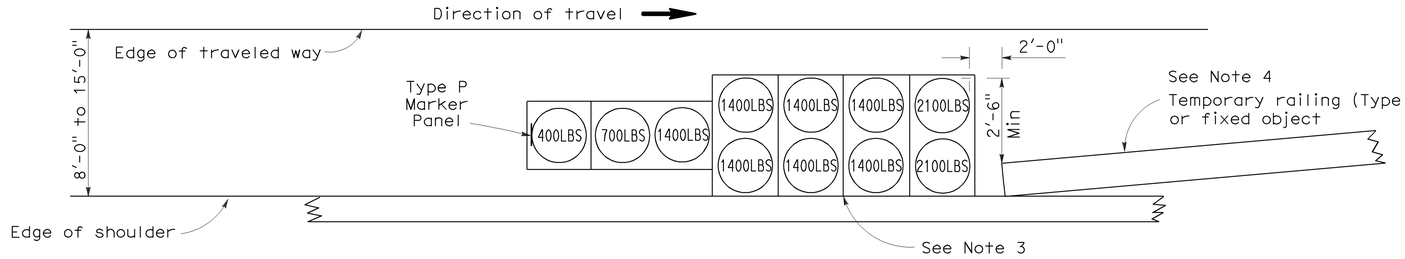
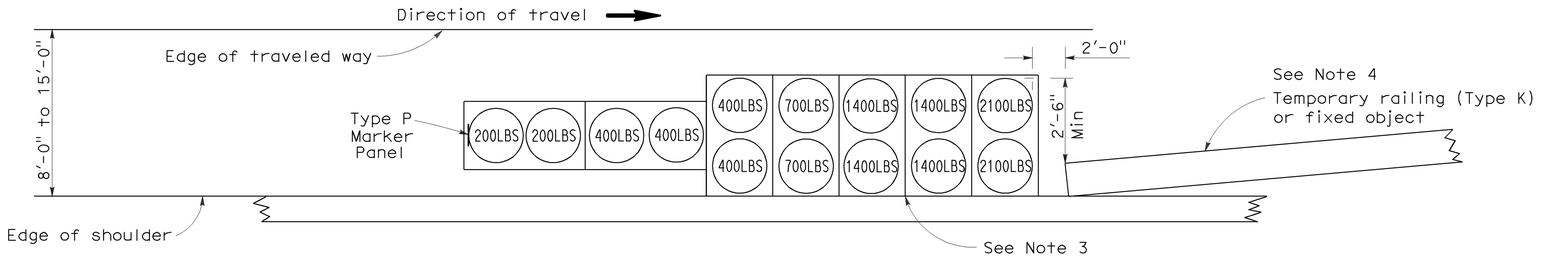
To accompany plans dated 4-4-11



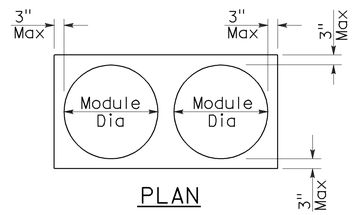
ARRAY 'TS11'

Approach speed less than 45 mph
See Note 9

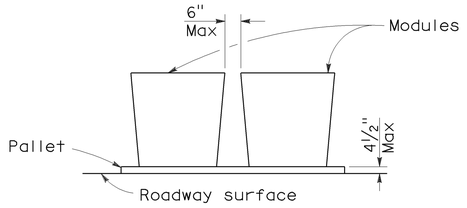


ARRAY 'TS14'

Approach speed 45 mph or more
See Note 9



PLAN



ELEVATION

CRASH CUSHION PALLET DETAIL

See Note 11

NOTES:

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TEMPORARY CRASH CUSHION, SAND FILLED (SHOULDER INSTALLATIONS)

NO SCALE

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

REVISED STANDARD PLAN RSP T2

2006 REVISED STANDARD PLAN RSP T2

5-15-08