Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Lak,Men	29,175	Var	15	60

REGISTERED CIVIL ENGINEER 3-23-11 DATE

3-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARSHAD IQBAL No. C62831 Exp. 6-30-12 CIVIL STATE OF CALIFORNIA

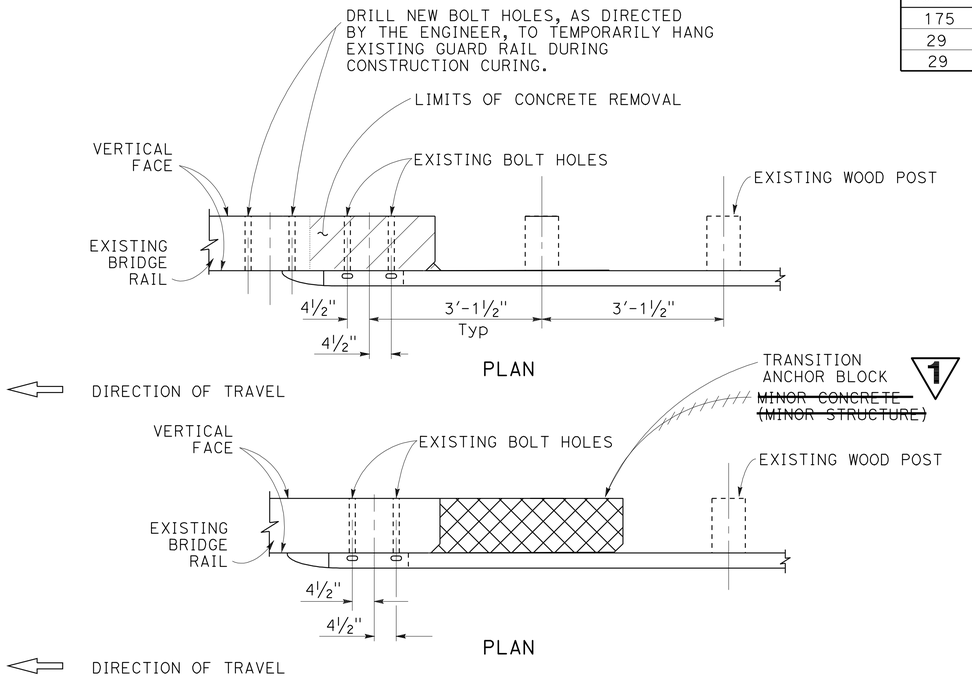
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

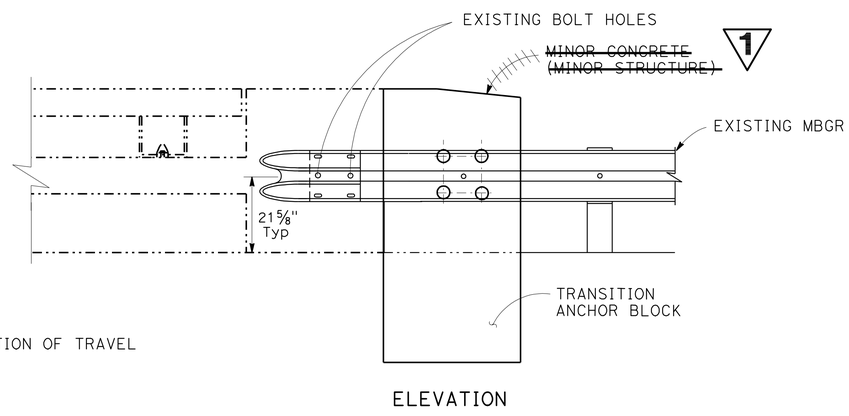
NOTES:

1. TO PROTECT NEW ANCHOR BLOCK DURING CURE TIME, RE-HANG EXISTING RAIL ELEMENT IN EXISTING BOLT HOLES.
2. USE FOR TRANSITION ANCHOR BLOCKS LESS THAN 10'.

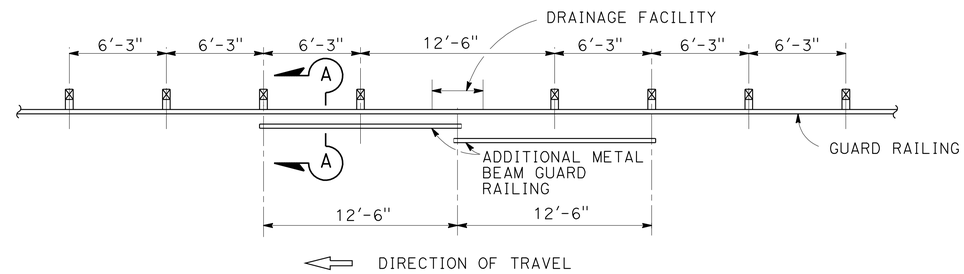
TRANSITION ANCHOR BLOCKS LESS THAN 10'

LOCATION			BRIDGE/STRUCTURE NAME	BARRIER TYPE	TRANSITION ANCHOR BLOCK LENGTH
ROUTE	PM	BRIDGE No.			LF
175	8.47	10-275	MCDOWELL SIDEHILL VIADUCT	27	5
29	0.17	14-52	ST. HELENA CREEK BRIDGE	27	5
29	1.28	14-53	ST. HELENA CREEK BRIDGE	27	5

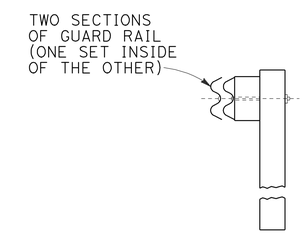




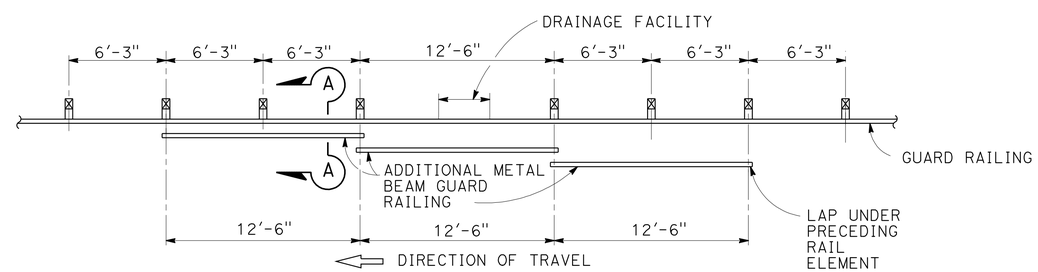
TEMPORARY TRAFFIC PROTECTION DETAILS



CASE 1
ONE POST OMITTED (SPLICE IN CENTER)



SECTION A-A



CASE 2
ONE POST OMITTED (SPLICE AT POSTS)

NESTED RAIL ELEMENTS

FOR DETAILS NOT SHOWN SEE STANDARD PLAN A77A1.

1 REVISED PER ADDENDUM No. 1 DATED MAY 16, 2011

TRAFFIC HANDLING DETAILS

NO SCALE

THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF DESIGN, SOUTH
DESIGN BRANCH S7

FUNCTIONAL SUPERVISOR: NESAR FORMOLI
CALCULATED-DESIGNED BY: L. VILLANUEVA
CHECKED BY: A. IQBAL
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 16-MAY-2011
TIME PLOTTED => 08:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Lak,Men	29,175	Var	17	60

REGISTERED CIVIL ENGINEER 3-23-11 DATE

3-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARSHAD IQBAL No. C62831 Exp. 6-30-12 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. EXACT LOCATIONS & LIMITS FOR COLD PLANE ASPHALT CONCRETE PAVEMENT WILL BE DETERMINED BY THE ENGINEER.
2. EXACT LOCATIONS FOR PLACEMENT OF CRASH CUSHION, SAND FILLED WILL BE DETERMINED BY THE ENGINEER.

ROADWAY QUANTITIES

LOCATION	TACK COAT	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	IMPORTED MATERIAL (SHOULDER BACKING)	CRACK TREATMENT	COLD PLANE ASPHALT CONCRETE PAVEMENT	IMPORTED BORROW
	TON	TON	TON	TON	LNMI	SQYD	CY
Men 175, PM 0.0 TO Lak 175, PM 0.6	131		28,433.2	3,296.8	20.0	2,244.0	
Lak 175, PM 4.8/8.3	46	5,772.0		425.1	6.6	459.6	
Lak 175, PM 8.3/28.0	142	34,960.4	1,397.4	4,317.2	39.3	8,870.9	
Lak 29, PM 0.0/11.9	228	26,421.9	4,356.6	3,275.6	23.7	13,021.0	
PUBLIC, LOCAL, PRIVATE Rd ON Lak 29	39	1,567.9	345.2	48.4		1,733.3	
PUBLIC, LOCAL, PRIVATE Rd ON Lak 175	46	1,306.9	271.3	57.1		2,044.4	
PUBLIC, LOCAL, PRIVATE Rd ON Men 175	12		828.9	22.8		533.3	
PLACE HMA DIKE			651				1,092
							~~1,092~~
TOTAL	644	70,029.1	36,283.6	11,443.0	89.6	28,906.5	1,092

DELINEATOR

LOCATION PM/DESCRIPTION	LOCATION	DELINEATOR TYPE E	
		CLASS 1	CLASS 2
		EA	EA
Men 175, PM 0.0 TO Lak 175, PM 0.6	Lt & Rt	67	50
Lak 175, PM 4.8/8.3	Lt & Rt	50	11
Lak 175, PM 8.3/28.0	Lt & Rt	140	99
Lak 29, PM 0.0/11.9	Lt & Rt	110	90
	TOTAL	367	250

NOTE: EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER

HIGHWAY POST MARKERS

LOCATION PM/DESCRIPTION	DIRECTION	HIGHWAY POST MARKER
		EA
Men 175, PM 0.0 TO Lak 175, PM 0.6	EB & WB	14
Lak 175, PM 4.8/8.3	EB & WB	4
Lak 175, PM 8.3/28.0	EB & WB	34
Lak 29, PM 0.0/11.9	NB & SB	34
	TOTAL	86

NOTE: EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER

RELOCATE ROADSIDE SIGN

SIGN NUMBER (No.)	SIGN CODE		SIGN MESSAGE	RELOCATE ROADSIDE SIGN
	FEDERAL	CALIFORNIA		EA
1	R1-1		STOP	1
2	M6-4	G26-2	US 101 ↔	1
3	D1-2		← Santa Rosa Ukiah →	1
4	M6-4	G28	29 ↔	1
			TOTAL	4

NOTE: FOR SIGN RELOCATION, SEE SHEET C-2

CRASH CUSHION, SAND FILLED

1

LOCATION	ARRAY U11
	EA
Men 175, PM 0.1 EASTBOUND	1
Men 175, PM 0.1 WESTBOUND	1
TOTAL	2

HMA (LEVELING)

LOCATION PM/DESCRIPTION	QUANTITY
	TON
Men 175, PM 0.0 TO Lak 175, PM 0.6	3,000.0
Lak 175, PM 4.8/8.3	2,000.0
Lak 175, PM 8.3/28.0	8,000.0
Lak 29, PM 0.0/11.9	7,000.0
TOTAL	20,000.0

NOTE: EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER

RUMBLE STRIP

LOCATION PM		RUMBLE STRIP	
		CENTERLINE	SHOULDER
FROM	TO	STA	
0.00	0.72	38	
3.50	5.00	80	
6.52	11.86	282	
7.40	7.90		26
	TOTAL	400	26

REPLACE AC SURFACING

ROUTE	PM		DIRECTION	LENGTH	WIDTH	DEPTH	VOLUME
	BEGIN	END		LF	LF	LF	CY
Men 175	0.23	0.27	EB	211.20	10	0.25	19.56
Men 175	0.42	0.45	EB	158.40	10	0.25	14.67
Men 175	0.43	0.44	EB	52.80	6	0.25	2.93
Men 175	0.43	0.44	WB	52.80	6	0.25	2.93
Men 175	0.57	0.59	EB	105.60	10	0.25	9.78
Men 175	0.78	0.82	EB	211.20	10	0.25	19.56
Men 175	0.78	0.82	WB	211.20	10	0.25	19.56
Men 175	0.91	0.96	EB	264.00	6	0.25	14.67
Men 175	2.50	2.52	EB	105.60	10	0.25	9.78
Men 175	3.38	3.59	WB	1108.80	10	0.25	102.67
Men 175	4.94	5.00	EB	316.80	4	0.25	11.73
Men 175	5.40	5.44	EB	211.20	4	0.25	7.82
Men 175	6.48	6.49	EB	52.80	10	0.25	4.89
Men 175	6.53	6.55	EB	105.60	10	0.25	9.78
Men 175	7.71	7.75	WB	211.20	10	0.25	19.56
Men 175	8.68	8.70	EB	105.60	10	0.25	9.78
Men 175	8.88	8.91	EB	158.40	10	0.25	14.67
Men 175	9.01	9.03	EB	105.60	10	0.25	9.78
Men 175	9.37	9.51	EB	739.20	10	0.25	68.44
Men 175	9.76	9.77	EB	52.80	10	0.25	4.89
Lak 175	5.58	5.61	EB	158.40	10	0.25	14.67
Lak 175	5.58	5.60	WB	105.60	10	0.25	9.78
Lak 175	5.73	5.73	EB	21.12	4	0.25	0.78
Lak 175	5.74	5.75	EB	52.80	6	0.25	2.93
Lak 175	5.76	5.78	EB	105.60	6	0.25	5.87
Lak 175	6.32	6.45	EB	686.40	10	0.25	63.56
Lak 175	6.79	6.80	WB	52.80	6	0.25	2.93
Lak 175	6.82	6.83	WB	52.80	6	0.25	2.93
Lak 175	7.08	7.17	EB	475.20	10	0.25	44.00
Lak 175	7.33	7.39	WB	316.80	10	0.25	29.33
Lak 175	27.74	27.78	EB	211.20	11	0.25	21.51
Lak 175	27.78	27.86	WB	422.40	11	0.25	43.02
Lak 175	27.86	27.90	EB	211.20	11	0.25	21.51
Lak 175	27.83	27.86	WB	158.40	11	0.25	16.13
Lak 175	27.86	27.94	WB	422.40	6	0.25	23.47
Lak 175	27.94	27.97	EB	158.40	11	0.25	16.13
Lak 175	27.95	27.99	WB	211.20	11	0.25	21.51
Lak 29	1.96	2.00	NB	211.20	12	0.25	23.47
Lak 29	5.96	5.97	SB	52.80	12	0.25	5.87
Lak 29	7.28	7.29	NB	26.40	12	0.25	2.93
Lak 29	7.28	7.32	SB	211.20	12	0.25	23.47
						TOTAL	773.23

1 REVISED PER ADDENDUM No. 1 DATED MAY 16, 2011

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
NORTH REGION
OFFICE OF DESIGN, SOUTH
DESIGN BRANCH S7

FUNCTIONAL SUPERVISOR: NESAR FORMOLI
CALCULATED-DESIGNED BY: L. VILLANUEVA
CHECKED BY: A. IQBAL
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 16-MAY-2011
TIME PLOTTED => 08:17

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Lak,Men	29,175	Var	18	60

REGISTERED CIVIL ENGINEER 3-23-11 DATE

3-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER ARSHAD IQBAL No. C62831 Exp. 6-30-12 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.

METAL BEAM GUARD RAILING

LOCATION: COUNTY	ROUTE	PM TO PM	DIRECTION	REMOVE MBGR (LF)	RECONSTRUCT MBGR (LF)	RECONSTRUCT MBGR (7' POST) (LF)	RECONSTRUCT MBGR (SPECIAL) (LF)	MBGR (WOOD POST) (LF)	MBGR (7' POST) (LF)	(N) BURIED POST ANCHOR (EA)	TRANSITION RAILING (TYPE WB) (EA)	ALTERNATIVE IN-LINE TERMINAL SYSTEM (EA)	ALTERNATIVE FLARED TERMINAL SYSTEM (EA)	X-TENSION TERMINAL SYSTEM (EA)	WEED CONTROL MAT (FIBER) (SQYD)	CONCRETE BARRIER (TRANSITION ANCHOR BLOCK) (LF) 1	END CAP (TYPE A) (EA)	END CAP (TYPE TC) (EA)	GUARD RAILING DELINEATOR (EA)	OBJECT MARKER (TYPE P) (EA)	OBJECT MARKER (TYPE L-1) (EA)	RESET MARKER (EA)	LAYOUT TYPE	COMMENTS
Men	175	2.93 TO 3.03	EB	100	450	450						2			333				26				11D	NEST ELEMENTS AT OSD
Men	175	3.17 TO 3.19	WB	37.5	150.0					1			1		85				6		1	1	11L	
Men	175	3.57 TO 3.69	WB	37.5	587.5					1			1		230				17		1	1	11G	
Men	175	5.76 TO 5.78	WB	25	75			87.5		2					76				5		1	1	11F	
				12.5								1												
Men	175	6.31 TO 6.33	EB		75										74				6		1	1	11I	
				12.5				50		1														
Men	175	6.35 TO 6.39	EB	37.5		187.5				1			1		97				7		1		11L	TYPE I DELINEATOR (WHITE FRONT, YELLOW BACK)
Men	175	7.08 TO 7.16	WB	37.5		387.5				1			1		164				12		1		11L	
		7.36		50								1												
Men	175	7.36 TO 7.38	WB			62.5									74				6		1		11H	
		7.38		12.5					37.5				1											
				25										1										
Men	175	7.49 TO 7.51	WB			100									58				5				11D	
				12.5										1										
Men	175	7.72 TO 7.74	WB	25		112.5								2	62				6				11D	
Men	175	7.97 TO 7.99	EB		112.5					2					60				4		1	1	11F	
Men	175	8.06 TO 8.17	WB	87.5	175	350						2			208						1	1	11D	
Men	175	8.35 TO 8.38	WB	75	50		50						2		69				5		1	1	11E	
Men	175	8.47 TO 8.48	WB	41							1		1		32	6.6		1	3	1			12BB	SIDEHILL VIADUCT
Men	175	8.52 TO 8.53	WB	50							1		1		32	6.6	1		3	1	1	1	12B	SIDEHILL VIADUCT
Men	175	8.68 TO 8.73	WB	25	225								2		118				8		1	1	11E	
Men	175	8.77 TO 8.80	WB	75		325							2		155				11		1		11E	RECONSTRUCT MBGR SPECIAL WALL AND TIES, SEE DETAILS
		8.99		36.4										1										
Men	175	8.99 TO 9.02	WB												6				3					SOLDIER PILE WALL
		9.02		45.6				50					1								1			
Men	175	9.06 TO 9.09	WB	87.5	62.5							1	1		61				5		1		11H	
Lak	29	0.15 TO 0.17	NB	97				75		1	1				46	6.6		1	3		1		12C	
Lak	29	1.25 TO 1.26	NB	59							1		1		29	6.6		1	3		1		12B	
Lak	29	1.28 TO 1.30	NB	53							1		1		46	6.6	1		3				12BB	
Lak	29	1.59 TO 1.61	NB		125										11				4		1			
Lak	29	1.63 TO 1.60	SB		125										11				4		1			
Lak	29	1.29 TO 1.28	SB	47							1		1		29	6.6		1	3		1		12B	
Lak	29	1.26 TO 1.25	SB	57							1		1		29	6.6	1		3				12BB	
Lak	29	0.22 TO 0.21	SB	59							1		1		29	6.6		1	2		1		12B	
Lak	29	0.18 TO 0.17	SB	47							1		1		29	6.6	1		3				12BB	
		TOTAL		1367	2213	1975	50	262.5	37.5	10	9	7	21	5	2253	59.4	4	5	166	2	21	9		

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

1 REVISED PER ADDENDUM No. 1 DATED MAY 16, 2011

SUMMARY OF QUANTITIES

Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
NORTH REGION
OFFICE OF DESIGN, SOUTH
DESIGN BRANCH S7

FUNCTIONAL SUPERVISOR: NESAR FORMOLI
CALCULATED-DESIGNED BY: A. IQBAL
CHECKED BY:
REVISED BY: L. VILLANUEVA
DATE REVISED:

LAST REVISION 00-00-00 | DATE PLOTTED => 16-MAY-2011 | TIME PLOTTED => 08:17

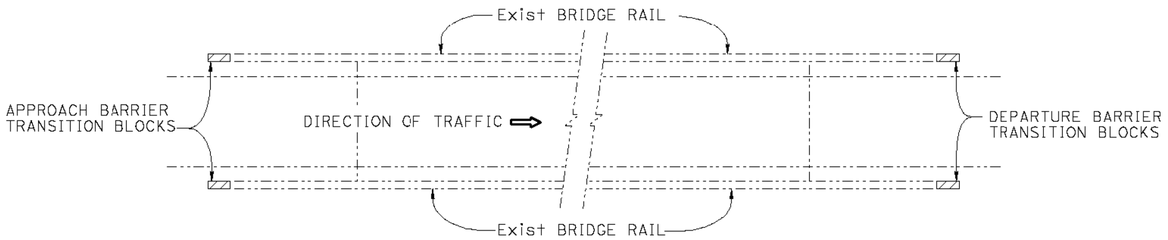
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	LAK, MEN	29, 175	VARIES	58	60

REGISTERED CIVIL ENGINEER 2-10-11 DATE

3-23-11
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JOEL MAGANA No. C61500 Exp. 6/30/11 CIVIL STATE OF CALIFORNIA

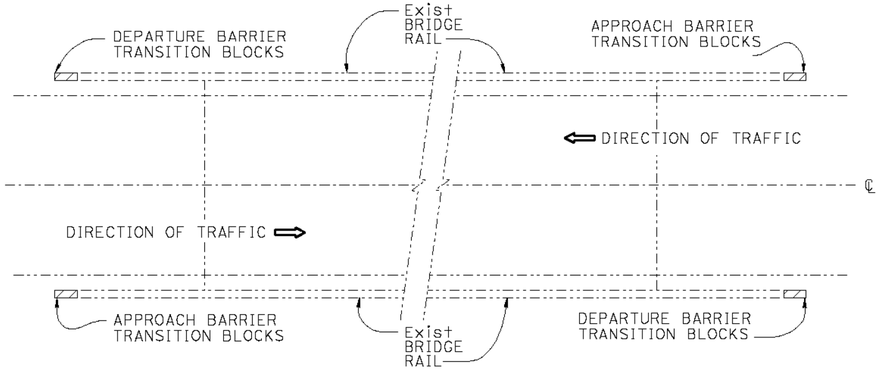
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



ONE WAY BRIDGES (PLAN A)

NO SCALE

Note:
For MBGR see ROADWAY PLANS



TWO WAY BRIDGES (PLAN B)

NO SCALE

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	TYPE 27 BARRIER TRANSITION (CASE 1)
3.	TYPE 27 BARRIER TRANSITION (CASE 2)

STANDARD PLANS DATED MAY 2006

A10A	ACRONYMS AND ABBREVIATIONS (A-L)
A10B	ACRONYMS AND ABBREVIATIONS (M-Z)
A62C	LIMITS OF PAYMENT FOR EXCAVATION AND BACKFILL - BRIDGE
RSP A77J2	METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILING DETAILS
1 ~~RSP~~ A77J3	METAL BEAM GUARD RAILING CONNECTIONS TO BRIDGE RAILING DETAILS

QUANTITIES

1 ~~TRANSITION ANCHOR BLOCKS TYPE 27 (CASE 1 & 2)~~ CONCRETE BARRIER (TRANSITION ANCHOR BLOCK)	59 LF

Note:
See "Roadway Plans" for work locations.

1 REVISED PER ADDENDUM No. 1 DATED MAY 16, 2011

JAMES SAGAR
DESIGN ENGINEER

	BY	CHECKED
DESIGN	J MAGANA	G DORIA
DETAILS	B EDWARDS	J MAGANA
QUANTITIES	G DORIA	G DORIA

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HL93 W/"LOW-BOY"; PERMIT DESIGN VEHICLE

	BY	CHECKED
LAYOUT	J MAGANA	G DORIA
SPECIFICATIONS	K HODGSON	PLANS AND SPECS COMPARED K HODGSON

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
SPECIAL DESIGN BRANCH

BRIDGE NO. VARIES
POST MILE VARIES

TRANSITION ANCHOR BLOCKS
GENERAL PLAN

UNIT: 3625
PROJECT NUMBER & PHASE: 0100020305 1 CONTRACT NO.: 3994u1
FILE => 01-3994u01agp.dgn

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES

SHEET 1 OF 3

STRUCTURES DESIGN GENERAL PLAN SHEET (ENGLISH) (REV.09-01-10)

USERNAME => pwellis DATE PLOTTED => 15-FEB-2011 TIME PLOTTED => 12:47