DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	13, 24, 80, 84, 880	Var	106	136

REGISTERED CIVIL ENGINEER — DATE 4-13-2016

6-20-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TAMARA S. MARCHENKO — No. C76837 — Exp. 12/31/16 — CIVIL — STATE OF CALIFORNIA

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INDEX TO PLANS

NO.	TITLE
1.	CONCRETE BARRIER TRANSITIONS - GENERAL PLAN
2.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 1)
3.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 2)
4.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 3)
5.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 4)
6.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 5)
7.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 6)
8.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO WINGWALL/RETAINING WALL (CASE 7)
9.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 1 (CASE 1)
10.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 1 (CASE 2)
11.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (CASE 1)
12.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (CASE 2)
13.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (CASE 3)
14.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (CASE 4)
15.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (CASE 5)
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17.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 9 (CASE 1)
18.	CONCRETE BARRIER TRANSITIONS - CONCRETE BARRIER TYPE 9 (CASE 2) CONCRETE REMOVAL
19.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 9 (CASE 2)
20.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 9 (CASE 3)
21.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL RAILING (CASE 1)
22.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL RAILING (CASE 2)
23.	CONCRETE BARRIER TRANSITIONS - STEEL RAILING DEMOLITION (CASE 3)
24.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL RAILING (CASE 3)
25.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER TYPE 2
26.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO FIXED COLUMN DETAILS
27.	CONCRETE BARRIER TRANSITIONS - PROTECTION OF EXISTING CONCRETE FOOTING
28.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL PLATE
29.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL PLATE DETAILS
30.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO STEEL CRIB WALL
31.	CONCRETE BARRIER TRANSITIONS - CONNECTION TO CONCRETE BARRIER (TYPE 60 MOD)

STANDARD PLANS DATED MAY 2010

A10A	ABBREVIATIONS (SHEET 1 OF 2)
RSPA76A	CONCRETE BARRIER TYPE 60
A78I	DOUBLE THRIE BEAM BARRIER CONNECTION TO CONCRETE BARRIER
RSP A10B	ABBREVIATIONS (SHEET 2 OF 2)
RSP A77U1	MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 1
RSP A77U2	MIDWEST GUARDRAIL SYSTEM CONNECTIONS TO BRIDGE RAILINGS WITHOUT SIDEWALKS DETAILS No. 2
RSP A77U4	MIDWEST GUARDRAIL SYSTEM TRANSITION RAILING (TYPE WB-31)
B0-3	BRIDGE DETAILS

STANDARD PLAN SHEET No.

DETAIL No.

1

BRIDGE REMOVAL (PORTION)	LUMP SUM
CONCRETE BARRIER (TRANSITION)	457 ~~441~~ LF
CONCRETE BARRIER (TYPE 60 MODIFIED)	237 LF

GENERAL NOTES:

1. See "ROADWAY PLANS" for work locations and Midwest Guardrail System.
2. For barrier curvature, see "Roadway Plans".
3. Refer to "Roadway Plans" for utility verification.
4. 3'-0" footing shall be utilized where 3'-0" minimum bench requirement is not met.
5. Existing barrier rail heights vary. Where existing barrier height is higher than 2'-8", a 4:1 slope shall be utilized to meet the 2'-8" height requirement.
6. Concrete cover to reinforcement in barrier transition to be 1" except a noted. Longitudinal reinforcement shall stop at all expansion joints.
7. Shoring shall be utilized for needed site conditions determined by Engineer.

GENERAL DESIGN DATA

DESIGN:
AASHTO LRFD Bridge Design Specifications 6th Edition with California Amendments

IMPACT LOAD:
Vehicular collision force
F_t = 54 kips on barrier

REINFORCED CONCRETE:
fy = 60 ksi
f'c = 3.6 ksi
n = 8

STRUCTURAL STEEL:
fy = Grade 50

1 **REPLACED PER ADDENDUM No. 1 DATED OCTOBER 26, 2016**

LEGEND:

-·-·-·-·- Indicates existing Structure

——— Indicates new structure

THE CONTRACTOR MUST VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DAVID NEUMANN
DESIGN ENGINEER

	BY	CHECKED
DESIGN	NIRANJEN KANEPATHIPILLAI	TAMARA MARCHENKO
DETAILS	SHUMEI JIANG / B.H.	TAMARA MARCHENKO
QUANTITIES	NIRANJEN KANEPATHIPILLAI	TAMARA MARCHENKO

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

	BY	CHECKED
LAYOUT	N. KANEPATHIPILLAI	T MARCHENKO
SPECIFICATIONS	J. MAHE	PLANS AND SPECS COMPARED X

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
DESIGN AND TECHNICAL SERVICES
SPECIAL DESIGNS BRANCH B

BRIDGE NO. Var
POST MILE Var

CONCRETE BARRIER TRANSITIONS
GENERAL PLAN

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 04140000571
CONTRACT NO.: 04-2G5024

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 10-12-15 11-10-15 11-18-15 4-28-16

SHEET 1 OF 31

USERNAME => s128787 DATE PLOTTED => 20-OCT-2016 TIME PLOTTED => 14:52

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

FILE => 04-2g5021-a-gp01.dgn