

## DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0181

Facility Carried: SILVERADO CNYN RD.

Location : 3.1 MI E/O SANTIAGO ROAD

City

X

Inspection Date : 07/12/2011

Inspection Type Routine FC Underwater Special Other

Bridge Inspection Report

STRUCTURE NAME: SILVERADO CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1970 Year Widened: N/A

Skew (degrees): 59 No. of Joints: 0

Length (m) : 14

No. of Hinges :

Structure Description: Single span CIP/RC rigid frame slab, all supported upon spread

footings.

Span Configuration : (W) 1 @ 6.1 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: 63.2 metric tonnes Operating Rating: 99.8 metric tonnes

Calculation Method: NO RATING ANALYSIS Calculation Method: NO RATING ANALYSIS

Permit Rating : PPPPP

Posting Load : Type 3: <u>Legal</u>

Type 3S2:Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.6 m min deck, 0.3 m br, 2 @ 4.1 m, 0.3 m br, 0.6 m min deck (N)

Total Width: 8.2 m

Net Width: 7.3 m

No. of Lanes: 2 Rail Code : 1000

Rail Description: MBGR

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom.

INSPECTION COMMENTARY

CONDITION OF STRUCTURE

There was 200mm of water running; all elements were visaully inspected.

There were 4 longitudinal cracks from abutment to abutment with white efflorescence.

There were 8 vertical cracks at each abutment wall 0.5 mm wide.

The bottom of the westerly spread footing is exposed at its northerly terminus.

ELEMENT INSPECTION RATINGS								
Elem No. Element Description	Env	Total Qty	Units	Qt St. 1	y in eac St. 2	ch Condi	tion Sta	te St. 5
39 Concrete Slab - Unprotected w/ AC Overlay	2		sq.m.	115	0	0	0	(
215 Reinforced Conc Abutment	3	40	m.	38	2	0	0	
333 Other Bridge Railing	2	38	m.	38	0	0	0	(
361 Scour	. 2	1	ea.	0	1	0	0	(

WORK RECOMMENDATIONS - NONE

Printed on: Thursday 09/15/2011 09:44 AM

Inspected By : MT.Zaarour/A.Shenouda

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Mikhael T. Zaarour (Registered Civil Engineer)



## STRUCTURE INVENTORY AND APPRAISAL REPORT

	TX.				
	**************************************			***********	***
	STATE NAME- CALIFORNIA 069			SUFFICIENCY RATING = 61.0 STATUS	
	STRUCTURE NUMBER 55C0181				
	INVENTORY ROUTE(ON/UNDER) - ON 140000000			HEALTH INDEX 98.5	
	HIGHWAY AGENCY DISTRICT 12			PAINT CONDITION INDEX = N/A	
(3)	COUNTY CODE 059 (4) PLACE CODE 00000			******** CLASSIFICATION *********	CODE
(6)	FEATURE INTERSECTED- SILVERADO CANYON CREEK			NBIS BRIDGE LENGTH- YES	Y
(7)	FACILITY CARRIED- SILVERADO CNYN RD.			HIGHWAY SYSTEM- NOT ON NHS	0
	LOCATION- 3.1 MI E/O SANTIAGO ROAD			FUNCTIONAL CLASS- COLLECTOR URBAN	17
	MILEPOINT/KILOMETERPOINT 0			DEFENSE HIGHWAY- NOT STRAHNET	0
	BASE HIGHWAY NETWORK- NOT ON NET 0			PARALLEL STRUCTURE- NONE EXISTS	N
	LRS INVENTORY ROUTE & SUBROUTE		(102)	DIRECTION OF TRAFFIC- 2 WAY	2
	LATITUDE 33 DEG 44 MIN 49.92 SEC		(103)	TEMPORARY STRUCTURE-	
	LONGITUDE 117 DEG 37 MIN 23.19 SEC			FED.LANDS HWY- NOT APPLICABLE	0
	BORDER BRIDGE STATE CODE % SHARE %			DESIGNATED NATIONAL NETWORK - NOT ON NET	0
(99)	BORDER BRIDGE STRUCTURE NUMBER			TOLL- ON FREE ROAD	3
	******* STRUCTURE TYPE AND MATERIAL *******				02
	OMBIGORIA				02
,	TYPE - SLAB CODE 101		(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE	5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA			*********** CONDITION ************************************	ODE
	TYPE- OTHER/NA CODE 000			DECK	7
(45)	NUMBER OF SPANS IN MAIN UNIT 1		(59)	SUPERSTRUCTURE	7
(46)	NUMBER OF APPROACH SPANS		(60)	SUBSTRUCTURE	6
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		(61)	CHANNEL & CHANNEL PROTECTION	8
	WEARING SURFACE / PROTECTIVE SYSTEM:		(62)	CULVERTS	N
A)	TYPE OF WEARING SURFACE- BITUMINOUS CODE 6	47		****** LOAD RATING AND POSTING *******	
B)	TYPE OF MEMBRANE- NONE CODE				
C)	TYPE OF DECK PROTECTION- NONE CODE 0				5
	********** AGE AND SERVICE *********		(64)	OPERATING RATING METHOD- NO RATING ANALYSIS OPERATING RATING-	
(27)	YEAR BUILT 1970			INVENTORY RATING METHOD- NO RATING ANALYSIS	9.8
	YEAR RECONSTRUCTED 0,000			INVENTORY PARTIC	
(42)	TYPE OF SERVICE: ON- HIGHWAY 1			BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS	
(28)	UNDER- WATERWAY 5 LANES:ON STRUCTURE 02 UNDER STRUCTURE 00			CTDICTIDE ODEN DOCTED OF GLORED	> 5 A
(29)	ALTERA OF TAXABLE PARTIES			DESCRIPTION- OPEN, NO RESTRICTION	А
	YEAR OF ADT 2009 (109) TRUCK ADT 1 %				
	BYPASS, DETOUR LENGTH 199 KM			************* APPRAISAL ************************************	DDE
				STRUCTURAL EVALUATION DECK GEOMETRY	6
	*********** GEOMETRIC DATA ***********				4
	LENGTH OF MAXIMUM SPAN 6.1 M STRUCTURE LENGTH			UNDERCLEARANCES, VERTICAL & HORIZONTAL WATER ADEQUACY	N
	14.0 M			APPROACH ROADWAY ALIGNMENT	9
(51)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M BRIDGE ROADWAY WIDTH CURB TO CURB 7.3 M			EDARDIC CARROLL PROPERTY	8
	man turner and			SCOUR CRITICAL BRIDGES	
	ADDROLGE BOT DESCRIPTION				8
	BRIDGE MEDIAN- NO MEDIAN 0			******* PROPOSED IMPROVEMENTS *******	
	SKEW 59 DEG (35) STRUCTURE FLARED NO			TYPE OF WORK- CODE	
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M				M
(47) 1	INVENTORY ROUTE TOTAL HORIZ CLEAR 7.3 M			BRIDGE IMPROVEMENT COST	
(53) N	IIN VERT CLEAR OVER BRIDGE RDWY 99.99 M			ROADWAY IMPROVEMENT COST	
(54) M	IIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M			TOTAL PROJECT COST	
(55) M	IIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M			YEAR OF IMPROVEMENT COST ESTIMATE	
	IIN LAT UNDERCLEAR LT 0.0 M			FUTURE ADT 412	
*	********** NAVIGATION DATA ********	(		YEAR OF FUTURE ADT 2029	9
	AVIGATION CONTROL- NOT APPLICABLE CODE N		Marketon C	*************** INSPECTIONS ***********	
	IER PROTECTION- CODE		(90)	INSPECTION DATE 07/11 (91) FREQUENCY 24 M	10
	AVIGATION VERTICAL CLEARANCE 0.0 M		(92)	CRITICAL FEATURE INSPECTION: (93) CFI DAT	E
	ERT-LIFT BRIDGE NAV MIN VERT CLEAR M		A) :	FRACTURE CRIT DETAIL- NO MO A)	
(40) N	AVIGATION HORIZONTAL CLEARANCE 0.0 M			UNDERWATER INSP- NO MO B)	
			C) (	OTHER SPECIAL INSP- NO MO C)	