

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0182

Facility Carried: SILVERADO CNYN RD.

Location : 3.6 MI. E/O SANTIAGO ROA

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

Length (m) : 13.1

Skew (degrees): No. of Joints : 0

No. of Hinges :

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

footings.

Span Configuration : (W) 1 @ 6.7 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: 87.9 Operating Rating: 99.8

metric tonnes metric tonnes Calculation Method: NO RATING ANALYSIS Calculation Method: NO RATING ANALYSIS

Permit Rating : PPPPP

Posting Load : Type 3: Legal

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.3 m min deck, 0.3 m br, 6.0 m, 0.3 m br, 0.3 m min deck (N)

Total Width: 6.7 m Net Width: 6.1 m

No. of Lanes: 2

Rail Code : 1000

Rail Description: MBBR

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom.

INSPECTION COMMENTARY

CONDITION OF STRUCTURE

There was 200 mm of water running; all elements were visually inspection.

There are longitudinal cracks in the soffit 2 cracks with light brown efflorescence and 1 crack with white efflorescence.

There are vertical cracks 5 hairline cracks in the east abutment wall and 4 - 0.5 mm wide cracks in the west abutment wall.

MISCELLANEOUS

Caltrans currently does not have a set of AS-Built plans for this structure. The county should provide As-Built Plans.

Elem No. Element Description	Env	Total Qty	Units				tion Sta	
39 Concrete Slab - Unprotected w/ AC Overlay	2		sq.m.	40	0	0	0	(
215 Reinforced Conc Abutment	3	22	m.	22	0	0	0	C
333 Other Bridge Railing	2	. 38	m.	38	0	0	0	C
359 Soffit of Concrete Deck or Slab	2	1	ea.	0	0	1	0	С

WORK RECOMMENDATIONS - NONE

Inspected	Ву	:	MT.Zaarour,	/A.Shenouda
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Mikhael T. Zaarour (Registered Civil Engineer)



STRUCTURE INVENTORY AND APPRAISAL REPORT

	*	A 9.
(1	******************** IDENTIFICATION ************* STATE NAME- CALIFORNIA 069	**************************************
		STATUS FUNCTIONALLY OBSOLETE
	STRUCTURE NUMBER 55C0182 INVENTORY ROUTE(ON/UNDER) - ON 140000000	HEALTH INDEX 100.0
	THE CONTRACT OF THE CONTRACT O	PAINT CONDITION INDEX = N/A

	COUNTY CODE 059 (4) PLACE CODE 00000	
		(112) NBIS BRIDGE LENGTH- YES Y
. (7)	FACILITY CARRIED- SILVERADO CNYN RD.	(104) HIGHWAY SYSTEM- NOT ON NHS
	LOCATION- 3.6 MI. E/O SANTIAGO ROAD	(26) FUNCTIONAL CLASS- COLLECTOR URBAN 17
	MILEPOINT/KILOMETERPOINT 0	
	BASE HIGHWAY NETWORK- NOT ON NET 0	(101) PARALLEL STRUCTURE- NONE EXISTS N
	LRS INVENTORY ROUTE & SUBROUTE	(102) DIRECTION OF TRAFFIC- 2 WAY 2
1,5,000,000,00	LATITUDE 33 DEG 44 MIN 48.61 SEC	(103) TEMPORARY STRUCTURE-
	LONGITUDE 117 DEG 37 MIN 08.19 SEC	(105) FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE % SHARE %	(110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
(99)	BORDER BRIDGE STRUCTURE NUMBER	(20) TOLL- ON FREE ROAD . 3
	****** STRUCTURE TYPE AND MATERIAL ******	(21) MAINTAIN- COUNTY HIGHWAY AGENCY 02
	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE	(22) OWNER- COUNTY HIGHWAY AGENCY 02
(13)	TYPE- SLAB CODE 101	(37) HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA	********** CONDITION *********** CODE
	TYPE- OTHER/NA CODE 000	(58) DECK 5
(45)	NUMBER OF SPANS IN MAIN UNIT 1	(59) SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60) SUBSTRUCTURE 7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61) CHANNEL & CHANNEL PROTECTION 8
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62) CULVERTS N
	TYPE OF WEARING SURFACE- BITUMINOUS CODE 6	****** LOAD RATING AND POSTING ****** CODE
B)	TYPE OF MEMBRANE- NONE	
C)	TYPE OF DECK PROTECTION- NONE CODE 0	(31) DESIGN LOAD- MS-18 OR MS-20
	******** AGE AND SERVICE ********	(63) OPERATING RATING METHOD- NO RATING ANALYSIS 5 (64) OPERATING RATING-
(27)	YEAR BUILT 1970	(64) OPERATING RATING- 99.8 (65) INVENTORY RATING METHOD- NO RATING ANALYSIS 5
(106)	YEAR RECONSTRUCTED 0000	(CC) THUMBON DAMES
(42)	TYPE OF SERVICE: ON- HIGHWAY 1	(70) BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	UNDER- WATERWAY 5	(41) CERLICELIE OPEN DOCUMED OF GLOCIE
	LANES:ON STRUCTURE 02 UNDER STRUCTURE 00	DESCRIPTION- OPEN, NO RESTRICTION
	AVERAGE DAILY TRAFFIC 2000	
(30)	YEAR OF ADT 2009 (109) TRUCK ADT 1 %	******** APPRAISAL ********* CODE
(19)	BYPASS, DETOUR LENGTH 199 KM	(67) STRUCTURAL EVALUATION 7
	********* GEOMETRIC DATA **********	(68) DECK GEOMETRY 2
(48)	LENGTH OF MAXIMUM SPAN 6.7 M	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 13.1 M	(71) WATER ADEQUACY 9
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	(72) APPROACH ROADWAY ALIGNMENT 6
	BRIDGE ROADWAY WIDTH CURB TO CURB 6.1 M	(36) TRAFFIC SAFETY FEATURES 1000
	DECK WIDTH OUT TO OUT 6.7 M	(113) SCOUR CRITICAL BRIDGES 8
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.1 M	******* PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- NO MEDIAN 0	(75) TYPE OF WORK- MISC STRUCTURAL WORK CODE 38
	SKEW 53 DEG (35) STRUCTURE FLARED NO	(76) LENGTH OF STRUCTURE IMPROVEMENT 13.1 M
(10)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94) BRIDGE IMPROVEMENT COST \$88,000
(47)	INVENTORY ROUTE TOTAL HORIZ CLEAR 6.1 M	(95) ROADWAY IMPROVEMENT COST \$17,600
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96) TOTAL PROJECT COST \$147,840
(54)	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	
(55)	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(114) TITTING AND
(56)	MIN LAT UNDERCLEAR LT 0.0 M	(114) FUTURE ADT 4121 (115) YEAR OF FUTURE ADT 2029
,	************* NAVIGATION DATA **********	AND
(38)	NAVIGATION CONTROL- NOT APPLICABLE CODE N	**************************************
	PIER PROTECTION- CODE	(90) INSPECTION DATE 07/11 (91) FREQUENCY 24 MO
(39)	NAVIGATION VERTICAL CLEARANCE 0.0 M	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
(116)	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	A) FRACTURE CRIT DETAIL- NO MO A)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	B) UNDERWATER INSP- NO MO B) C) OTHER SPECIAL INSP- NO MO C)
		C) OTHER SPECIAL INSP- NO MO C)