

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0183

Facility Carried: BELHA WAY

Location

: 50' N/O SILVERADO CYN RD

City

Inspection Date: 12/14/2013

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other.

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STRUCTURE NAME: SILVERADO CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1963 Year Widened: N/A Length (m) : 7

Skew (degrees): No. of Joints :

No. of Hinges :

Structure Description: Single span PC/PS concrete cored slab units (3 each) with RC open

end seat abutments, all supported upon spread footings.

Span Configuration

:(S) 1 @ 6.4 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: M-13.5 OR H-15

Inventory Rating: RF=0.75 =>24.3 metric tons Operating Rating: RF=1.25 =>40.5 metric tons

Calculation Method: FIELD EVAL/ENG JUDGMENT Calculation Method: FIELD EVAL/ENG JUDGMENT

Permit Rating : PPPPP

Posting Load

: Type 3: Legal

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.2 m br, 3.5 m, 0.2 m br (E)

Total Width:

3.9 m

Net Width:

3.5 m

No. of Lanes:

Speed: 25 mph

Min. Vertical Clearance: Unimpaired

Rail Code: 1000

Rail Type	Location	Length (ft)	Rail Modifications
MBBR	Right/Left	46	

## DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom and with a concreted bottom through the site.

## INSPECTION COMMENTARY

SCOPE AND ACCESS

The water in the channel is 8" deep, so all substructure elements were visually inspected.

REVISIONS

Element type #330 was replaced by element type #337 with the same quantity.

MISCELLANEOUS

Ten-year bridge roadway, elevation and underside photos were taken during this inspection.

DECK AND ROADWAY

Rail and deck have no significant defects during this inspection.

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55C0183/AAAH/27771

# INSPECTION COMMENTARY

#### SUPERSTRUCTURE

There is growing vegetation at the west abutment wall and soffit between the slab units.

# SUBSTRUCTURE

No significant defects were visually seen during this inspection.

## SAFE LOAD CAPACITY

A Load Rating Summary Sheet is included with this bridge inspection report. The current rating has been assigned in accordance with SMI procedures.

Elem	Total			Qty in each Condition State									
No. Element Description	Env	Qty	Units	St.	1	St.	2	St.	3	St.	4	St.	5
61 PS Conc Slab - Unprotected w/ AC Overlay	2	25	sq.m.		25		0		0		0	10	0
215 Reinforced Conc Abutment	2	8	m.		8		0		0		0		0
337 Metal Railing (W6X25 Posts)	. 2	14	m.		14		0		0		0		O

# WORK RECOMMENDATIONS - NONE

Ashraf Shenouda Team Leader : Report Author : Ashraf Shenouda

A. Shenouda/KD. Henderson Inspected By :

Ashraf Shenouda (Registered Civil Engineer)

Ashraf Shenouda No. <u>64332</u> 06/30/2015 CIVIL

# STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		************
(1	) STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 65.1
(8	) STRUCTURE NUMBER 55C0183		STATUS FUNCTIONALLY OBSOLETE
(5	) INVENTORY ROUTE (ON/UNDER) - ON 140000000		HEALTH INDEX 100.0
	) HIGHWAY AGENCY DISTRICT 12		PAINT CONDITION INDEX = N/A
(3	) COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******* CODE
	) FEATURE INTERSECTED- SILVERADO CANYON CREEK	(112)	NBIS BRIDGE LENGTH- YES Y
27.77.00	) FACILITY CARRIED- BELHA WAY		HIGHWAY SYSTEM- NOT ON NHS 0
	) LOCATION- 50' N/O SILVERADO CYN RD.		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
			DIRECTION OF TRAFFIC- 1 LANE, 2 WAY 3
	LRS INVENTORY ROUTE & SUBROUTE		TEMPORARY STRUCTURE-
	) LATITUDE 33 DEG 44 MIN 45.64 SEC		
	) LONGITUDE 117 DEG 35 MIN 23.22 SEC		00 SEA COLOR CONTROL SEA
12000000	BORDER BRIDGE STATE CODE % SHARE %		
(99)	BORDER BRIDGE STRUCTURE NUMBER		COLUMN TO THE PROPERTY OF THE
	****** STRUCTURE TYPE AND MATERIAL *******		
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE		OWNER- COUNTY HIGHWAY AGENCY 02 HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
, 10,	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 7
(45)	NUMBER OF SPANS IN MAIN UNIT 1		SUPERSTRUCTURE 7
950 05	NUMBER OF APPROACH SPANS 0		SUBSTRUCTURE 7
			CHANNEL & CHANNEL PROTECTION 8
	DECK STRUCTURE TYPE- PRECAST CONC. PA CODE 2	00	CULVERTS
	WEARING SURFACE / PROTECTIVE SYSTEM:		
	TYPE OF WEARING SURFACE- BITUMINOUS CODE 6		******* LOAD RATING AND POSTING ******* CODE
	TYPE OF MEMBRANE- NONE CODE 0	(31)	DESIGN LOAD- M-13.5 OR H-15 2
C)	TYPE OF DECK PROTECTION- NONE CODE 0	(63)	OPERATING RATING METHOD- FIELD EVAL/ENG JUD 0
	******** AGE AND SERVICE *********	(64)	OPERATING RATING- 40.5
(27)	YEAR BUILT 1963	(65)	INVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
	YEAR RECONSTRUCTED 0000	(66)	INVENTORY RATING- 24.3
(42)	TYPE OF SERVICE: ON- HIGHWAY 1	(70)	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(00)	UNDER- WATERWAY 5	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	LANES:ON STRUCTURE 01 UNDER STRUCTURE 00		DESCRIPTION- OPEN, NO RESTRICTION
	AVERAGE DAILY TRAFFIC 100		
(30)	YEAR OF ADT 2009 (109) TRUCK ADT 1 %		******* APPRAISAL ********* CODE
(19)	BYPASS, DETOUR LENGTH 199 KM	(67)	STRUCTURAL EVALUATION 6
	************ GEOMETRIC DATA ***********		DECK GEOMETRY 3
(48)	LENGTH OF MAXIMUM SPAN 6.4 M	(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 7.0 M		WATER ADEQUACY 9
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M		APPROACH ROADWAY ALIGNMENT 6
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 3.5 M	(36)	TRAFFIC SAFETY FEATURES 1000
(52)	DECK WIDTH OUT TO OUT 3.9 M	(113)	SCOUR CRITICAL BRIDGES 5
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 3.7 M		****** PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- NO MEDIAN 0	(75)	TYPE OF WORK- MISC STRUCTURAL WORK CODE 38
(34)	SKEW 21 DEG (35) STRUCTURE FLARED NO		LENGTH OF STRUCTURE IMPROVEMENT 7 M
(10)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		BRIDGE IMPROVEMENT COST \$26,000
	INVENTORY ROUTE TOTAL HORIZ CLEAR 3.5 M		
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		TOTAL PROJECT COST \$43,680
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M		YEAR OF IMPROVEMENT COST ESTIMATE 2010
	MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 103
	*********** NAVIGATION DATA *********	(115)	YEAR OF FUTURE ADT 2029
			************ INSPECTIONS **********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 12/13 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
tura financia di	NAVIGATION VERTICAL CLEARANCE 0.0 M	A)	FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	В)	UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	C)	OTHER SPECIAL INSP- NO MO C)