

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0174

Facility Carried: SILVERADO CNYN RD.

Location

: 1.6 MI E/O SANTIAGO ROAD

City

Inspection Date: 05/28/2014

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: SILVERADO CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1935 Year Widened: N/A Length (m) : 17.7 Skew (degrees): 36
No. of Joints: 0
No. of Hinges: 0

Structure Description: CIP/RC deck on riveted steel floor beams on simply supported riveted

steel through girders (2) on RC pedestals on RC closed end

backfilled cantilever abutments on spread footings.

Span Configuration : (W) 1 @ 15.5 m (E) 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=1.15 =>37.3 metric tons

Calculation Method: LOAD FACTOR Calculation Method: LOAD FACTOR

Permit Rating : GGGGG

Posting Load : Type 3: Legal

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.7 m cu, 7.0 m, 0.7 m cu, 1.2 m sw (N)

Total Width:

9.7 m

Net Width:

7.0 m

No. of Lanes: 2

Speed: 45 mph

Min. Vertical Clearance: Unimpaired

Rail Code: 0000

Rail Type	Location	Length	(ft)	Rail	l Modifications	
Misc.	Right/Left					
Steel						

## DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal with a cobbled bottom.

## INSPECTION COMMENTARY

SCOPE AND ACCESS

A fracture critical member inspection was performed on 05/28/2014 by Carlos Villalobos and Anousheh Rouzbehani from the Office of Specialty Investigations and Bridge Management.

The structure was accessed with a ladder from the ground below. Lane closures and traffic control were not needed.

The investigation was conducted in accordance with the Fracture Critical Member Inspection Plan, dated 05/21/2008.

## SUPERSTRUCTURE

A hands-on visual inspection was performed on the tension stress areas of the left and right girders. No fractures or cracks were found.

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55C0174/AAAO/29738

## STEEL INVESTIGATIONS

This structure qualifies for an in-depth Steel investigation because it possesses the following fracture critical or fatigue prone details :

Plate Girder: FC Members

Fracture Critical: Yes

Inspection Freq.: 24

Next Inspection: 05/28/2016

Team Leader : Carlos Villalobos

Report Author : Carlos Villalobos

Inspected By : C.Villalobos/A.Rouzbehan

Carlos Villalobos (Registered Civil Engineer)

(Date)

