
Bridge Inspection Records Information System

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State of California
Department of Transportation

**Division of Maintenance
Structures Maintenance & Investigations**



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0177
Facility Carried: SILVERADO CYN RD
Location : 4.4 MI E OF SANTIAGO RD
City :
Inspection Date : 29-MAY-01

Bridge Inspection Report

Inspection Type
Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1947
Year Widened : N/A
Length (m) : 12.8

Skew (degrees): 45
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Simply supported single span steel stringers (4 each) with RC open end seat abutments, all supported upon spread footings.

Span Configuration : (W) 1 @ 12.5 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : M - 13.5 OR H - 15

Inventory Rating : 25.4 metric tons

Operating Rating : 40.8 metric tons

Permit Rating : PGGGG

Posting Load : Type 3 N/A english tons Type 3S2 N/A english tons Type 3-3 N/A english tons

Calculation Method : LOAD FACTOR

Calculation Method : LOAD FACTOR

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.5 m br, 2 @ 3.6 m, 0.5 m br (N)

Total Width : 8.2 m

Net Width : 7.30 m

No. of Lanes : 2

Rail Description : (S) MBGR; (N) Timber

Rail Code : 0000

Min. Vertical Clearance : Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with a cobbled bottom.

CONDITION OF STRUCTURE

Unsealed cracks exist in the concrete deck which are of moderate size or density. (0)

The steel girders are rusting with no section loss.

Otherwise, the structure is in good condition.

MISCELLANEOUS

Pedestrian access beneath the structure is from the westerly quadrants.

ELEMENT LEVEL INSPECTION RATINGS

F#	Elem No.	Element Description	Env	Total Units Quantity	Qty in each Condition State				
					St. 1	St. 2	St. 3	St. 4	St. 5
01 12		Concrete Deck - Bare	2	90 sq.m.	0	90	0	0	0
01 107		Painted Steel Open Girder/Beam	2	52 m.	0	0	39	13	0
01 215		Reinforced Conc Abutment	2	24 m.	24	0	0	0	0
01 332		Timber Bridge Railing	2	13 m.	13	0	0		
01 333		Other Bridge Railing	2	13 m.	13	0	0		
01 358		Deck Cracking	2	1 ea.	0	1	0	0	0

Bridge No.: 55C0177 Location: 4.4 MI E OF SANTIAGO RD Inspection Date: 29-MAY-01

WORK RECOMMENDATIONS

Clean and paint the steel girders.

<u>Item#</u>	<u>Rec. Date</u>	<u>Work By</u>	<u>Work Id.</u>	<u>Prog. Method</u>	<u>Cost</u>
1	05-JUL-1995	County Agency	40177X95186X		

Inspected By : M. Ogata

M. Ogata

Registered Civil Engineer

CC : TMRut, DSM&I
Orange County

Bridge No.: 55C0177

Location: 4.4 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0177
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 000000
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - SILVERADO CYN CREEK
 (7) FACILITY CARRIED - SILVERADO CYN RD
 (9) LOCATION - 4.4 MI E OF SANTIAGO RD
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 44 MIN 49 SEC
 (17) LONGITUDE 117 DEG 36 MIN 43 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

***** STRUCTURE TYPE AND MATERIAL *****

(43) STRUCTURE TYPE MAIN: MATERIAL - STEEL
 TYPE - STRINGER/MULTI-BEAM OR GDR CODE 3 02
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 1
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE CIP CONCRETE CODE 1
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

***** AGE AND SERVICE *****

(27) YEAR BUILT 1947
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 2000
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 199 KM

***** GEOMETRIC DATA *****

(48) LENGTH OF MAXIMUM SPAN 12.5 M
 (49) STRUCTURE LENGTH 12.8 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 7.3 M
 (52) DECK WIDTH OUT TO OUT 8.2 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.4 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 45 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 7.3 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - NOT H/RR 0 M
 (55) MIN LAT UNDERCLEAR RT REF - NOT H/RR 0 M
 (56) MIN LAT UNDERCLEAR LT 0 M

***** NAVIGATION DATA *****

(38) NAVIGATION CONTROL - NOT APPLICABLE CODE N
 (111) PIER PROTECTION - NOT REQUIRED CODE 1
 (39) NAVIGATION VERTICAL CLEARANCE 0 M
 (116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR 0 M
 (40) NAVIGATION HORIZONTAL CLEARANCE 0

***** SUFFICIENCY RATING = 50.0 *****

STATUS =

HEALTH INDEX = 73.17

***** CLASSIFICATION ***** CODE

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - LOCAL URBAN 19
 (100) DEFENSE HIGHWAY - NOT STRAHNET 0
 (101) PARALLEL STRUCTURE - NONE EXISTS N
 (102) DIRECTION OF TRAFFIC - 2 WAY 2
 (103) TEMPORARY STRUCTURE -
 (105) FEDERAL LANDS HIGHWAY - NOT APPLICABLE 0
 (110) DESIGNATED NATIONAL NETWORK - NOT ON NET 0
 (20) TOLL - ON FREE ROAD 3
 (21) MAINTAIN - COUNTY HIGHWAY AGENCY 2
 (22) OWNER - COUNTY HIGHWAY AGENCY 2
 (37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** CONDITION ***** CODE

(58) DECK 5
 (59) SUPERSTRUCTURE 5
 (60) SUBSTRUCTURE 7
 (61) CHANNEL & CHANNEL PROTECTION 8
 (62) CULVERTS N

***** LOAD RATING AND POSTING ***** CODE

(31) DESIGN LOAD - M - 13.5 OR H - 15 2
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 40.8
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 25.4
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - A
 DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL ***** CODE

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 8

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 2000
 (115) YEAR OF FUTURE ADT 2015

***** INSPECTIONS *****

(90) INSPECTION DATE 05/01 (91) FREQUENCY 24 MO
 (92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
 A) FRACTURE CRIT DETAIL - NO -1 MO A)
 B) UNDERWATER INSP - NO -1 MO B)
 C) OTHER SPECIAL INSP - NO -1 MO C)



DEPARTMENT OF TRANSPORTATION
Structure Maintenance & Investigations

Bridge Number : 55C0177
Facility Carried: SILVERADO CYN RD
Location : 4.4 MI E OF SANTIAGO RD
City :
Inspection Date : 11-DEC-00

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1947	Skew (degrees): 45
Year Widened : N/A	No. of Joints : 0
Length (m) : 12.8	No. of Hinges : 0

Description of Structure : Simply supported single span steel stringers (4 each) with RC open end seat abutments, all supported upon spread footings.

Span Configuration : (W) 1 @ 12.5 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : M - 13.5 OR H - 15	
Inventory Rating : 25.4 metric tons	Calculation Method : LOAD FACTOR
Operating Rating : 40.8 metric tons	Calculation Method : LOAD FACTOR
Permit Rating : PGGGG	
Posting Load : Type 3 N/A english tons	Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (S) 0.5 m br, 2 @ 3.6 m, 0.5 m br (N)		
Total Width : 8.2 m	Net Width : 7.30 m	No. of Lanes : 2
Rail Description : (S) MBGR; (N) Timber		Rail Code : 0000
Min. Vertical Clearance : Unimpaired		

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth with a gravel bottom.

HISTORY

Past Supplementary Bridge Reports do not indicate problems pertaining to scour.

REVISIONS

The National Bridge Inspection Item 113 Code has been revised from 6 to 8.

SCOUR

This report addresses hydraulic issues only. The structure's scour potential has been assessed in accordance with the FHWA Technical Advisory T5140.23, "Evaluating Scour at Bridges". The NBI Item 113 Code, "Vulnerability to Scour", has been changed to 8: "Bridge foundations determined to be stable for assessed or calculated scour conditions; calculated scour is above top of footing."

This report was generated based on an office investigation. A channel cross section was not taken at the time of this report.

The structure consists of a single span bridge with no history of scour.

Bridge No.: 55C0177

Location: 4.4 MI E OF SANTIAGO RD

Inspection Date: 11-DEC-00

Inspected By : M. B. Kim


Registered Civil Engineer

CC : TMRut, DSM&I
Orange County
MOgata, ABME
SJaques, Hydraulics

Bridge Number 55C-177

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

Location 12 - Ora - CR
Dist.-Co.-Rte.-City

Date of Investigation July 5, 1995

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles east of Santiago Canyon Road)

CONDITION RATINGS:

Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

SCOUR CRITICAL:

A scour rating of B-1 is appropriate.

CONDITION OF STRUCTURE:

There is random transverse cracking in deck.

Steel girders is rusting as paint system has completely failed.

Condition of structure is good.

PAINT CONDITION:

Code 4 - Condition of paint is poor. Rust is in all girders.

WORK RECOMMENDED:

Clean and paint steel girders.

ENCROACHMENT:

One 0.15 m steel pipe suspended under south bridge deck overhang.

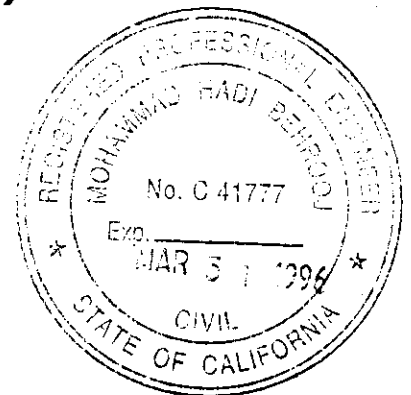
M. Nadi Behrooj *MHB*

By

[Signature]
G. P. Balinghasay

GPB:cd

cc: CDHarris
Orange County
WLindsey



INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0177	01	070595
1 8	9	11 16

SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	
POSTMILE	
NAME	

[illegible]

07/11/95

BY:

Bridge No. 55C-177

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles east of Santiago Canyon Road)

Location 12-Ora-CR
Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-5-95	1 - 0.15 m steel pipe suspended under south bridge deck overhang.

HBD M 30

Bridge Number 55C-177

TYPE OF INVESTIGATION/REPORT

BIENNIAL	<u>X</u>	DAMAGE	___
CATEGORY A	___	OTHER	___
UNDERWATER	___	OFFICE	___

Location 12 - Ora - CR
Dist.-Co.-Rte.-City

Date of Investigation April 21, 1993

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles east of Santiago Canyon Road)

CONDITION RATINGS:

Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

CONDITION OF STRUCTURE:

Condition of the structure is good.

Henry Ma

HM:cd

cc: INagai (2)
County of Orange



INFORMATION ONLY - NOT FOR UPDATE

SCOUR CRITICAL	NO
CATEGORY A	NO
FRACTURE CRITICAL	NO
ELIGIBLE FOR RAIL UPGRADE	NO
UNDERWATER INSPECTION	NO

DISTRICT	12
COUNTY	ORA
ROUTE	***
POSTMILE	*****
NAME	

H. MA

BY:

BRIDGE REPORT

DS-MSB (REV. 1/91)

14W14

Bridge No. 55C - 177

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles
east of Santiago Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 37.0'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1947 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span simply supported steel stringers and RC deck
supported by open end seated abutments on spread footing.

Spans (W) 41' (E)

Length 42' NBIS Bridge Length Yes Skew 45° Left

Number Of Intermediate Joints: @Hinges None @Bents None

Maximum Column/Pier Height: (Less than 20') X (20'-29') (30' & Over)

Design Live Load H15 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 1.5'br 24', 1.5'br (N)

Total Width 27' Net Width 24' Lanes 2 Tracks None

Median None Rail Type (S) Metal beam (N) Timber

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 21'

Deck Type 1 Wearing Surface/Prot. Sys. 100 Concrete/none

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

Clearances: Road: Vert. Horiz. Lt. ; Rt.

Lanes Tracks

Facilities Crossed Silverado Canyon (E17)

April 18, 1991

DESCRIPTION - HYDRAULICS

Channel Natural stream with gravel bottom

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	2,000	1989	N	
Average Daily Traffic (Future) :	2,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	99 miles		N	
Shell Route:	No		No	
Functional Classification :	09		N	
LOAD RATINGS:	Inventory HS 16	Operating HS 25		
	Permit PGGGG	Computation Method Load Factor		

CONDITION RATINGS:

Deck	7	Superstructure	8	Substructure	8
Channel & Channel Protection	8	Culvert	N	Widenable	Yes

APPRAISAL RATINGS:

Waterway Adequacy	8	Approach Roadway Alignment	8
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Date of Revisions

CONDITION OF STRUCTURE:

There are a few minor spalls in the concrete bridge deck surface.

Condition of the structure is good.

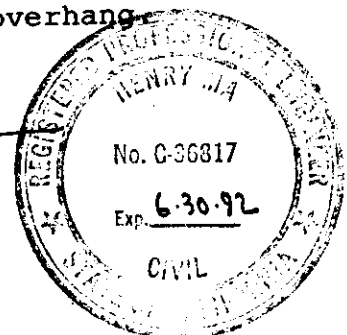
PAINT CONDITION:

Code 4. Condition of paint is poor. There is freckle rust throughout.

ENCROACHMENT:

6" steel pipe suspended under south bridge deck overhang.

Henry Ma



HM:ms

cc: INagai (2)
County of Orange

Bridge No. 55C-177
Location 12-Ora - CR
Dist. Co. Rte. City
Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles East of Santiago Canyon Road)

CONDITION RATING:

Deck 7 Superstructure 7 Substr.&Pipes 7
Channel & Channel Protection 6 Culvert N Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

CONDITION OF STRUCTURE:

Condition of the structure is good.

PAINT CONDITION:

Code 5. Condition of paint is very poor. There is rust over 80% of the steel stringers.

REVISION:

Location: 12-Ora-CR

WORK RECOMMENDED:

Clean and paint structural steel.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 RC open end seated abutments on spread footing.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange (2)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-05 M19 (REV. 1/74)

Bridge No. 55C-177
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

Name SILVERADO CANYON CREEK (Silverado Canyon Rd., 4.4 miles
E. of Santiago Cyn. Rd.)

CONDITION RATING: APPRAISAL RATING:
Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 4
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐
Action Required By County Yes ☒ No ☐

PRIORITY
A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

REVISION:

Appraisal Rating: Overall 4

Average Daily Traffic - 2,000 (1985)

CONDITION OF STRUCTURE:

Minor deck spall previously reported remains the same. O

Overall condition of the structure is good.

CONDITION OF PAINT:

Code 5, condition of paint is very poor. There is rust over 80% of the steel stringers.

RECOMMENDED POSTING:

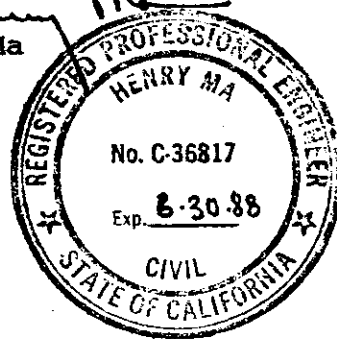
None

WORK RECOMMENDED:

Clean and paint structural steel 100% . B

Henry Ma

HM:pht
cc: INagai (2)
Orange County (2)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-85 M19 (REV. 1/74)

Bridge No. 55C-177
Location 7-Ora-CR
Sta. 6+00 - 68+00
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 mile E. of
Santiago Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by County Yes ☒ No ☐

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

REVISION:

Rail Type - Timber (0000) (N)
Metal beam (0000) (S)

CONDITION OF STRUCTURE:

There is a small deck spall approximately 6" x 6" x 1" deep on the eastbound lane near east abutment.

Otherwise, the overall condition of the structure is good.

CONDITION OF PAINT:

Code 5, there is red lead undercoat exposed and extensive rust on the girder webs and flanges. The structure is ready for painting.

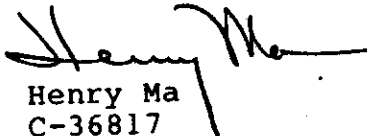
RECOMMENDED POSTING:

None

WORK RECOMMENDED:

1. Fill deck spall with epoxy bonded concrete.
2. Clean and paint structural steel.

HM:pdh
cc: INagai (2)
Orange County (2)


Henry Ma
C-36817

C
B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DN-OS M19 (REV. 1/74)

14W14

Bridge No. 55C-177
Location 7-Oran-CR
Dist - Co - Hqs - Pk - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 mile E.
of Santiago Rd.

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐
County
Action Required by ~~DDMMX~~ Yes ☒ No ☐

PRIORITY

A - Immediate Action
B - Early Scheduling
C - Routine Maint.
O - For Record Only

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

PAINT:

Code 5 , there is red lead undercoat exposed and extensive rust on the girder webs and flanges. The structure is ready for painting.

RECOMMENDED POSTING:

None

RECOMMENDATION:

Clean and paint structural steel.

E. L. Neff
E. L. Neff
C-28703

ELN:pdh
cc: DRHiggins (2)
Orange County (2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-QS M19 (REV. 1/74)

Bridge No. 55C-177
Location 07-Ora-CR
Dist - Co - Rte - Pd - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 4.4 miles east of Santiago Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 7 Superstructure 7 Substr. & Pipes 7 Overall 7
Channel & Channel Protection 6 Retaining Walls (N)

Widenable? Yes ☒ No ☐ Conditional ☐

County: Orange
Action Required by DMT: Yes ☒ No ☐

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

PAINT:

Code 5, Extensive rust on the girder webs and flanges. Much of the red lead undercoat is exposed.

RECOMMENDED POSTING:

None.

RECOMMENDATION:

Schedule bridge to be painted.

E. L. Neff
E. L. Neff
C 28703

ELN:cd
cc: DRHiggins (2)
Orange County (2)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DH-OS M58 (REV. 3/74)

Bridge No. **55C-177**

Other No. **SV-11**

P.U.C. No. _____

Location **07-0ra-0-CR**
Dist - Co - Rte - PM - City

Date of Investigation **May 11, 1978**

Name **SILVERADO CANYON CREEK (Silverado Cyn Rd., 4.4 mi E. of Santiago Cyn. Rd.)**

Lat. **33°-44.8'** Long. **117°-37.0'**

STRUCTURAL DATA AND HISTORY

Year Built **1947** By **Orange County** Contract No. **----**

Date of Revisions _____

Designed by: B.D. ☐ **County** Plans Avail. @ **County**

Description: **Single span 4 WF steel girders, RC diaphragm abutments supported on spread footings.**

Spans **41'**

Length **42'** Skew **45°** Lt **Design LL H 15**

Ratings: Inventory **HS 16.11** Operating **HS 24.72** Permit **P0000**

DESCRIPTION - ON STRUCTURE

Bridge Width **1.5' cu, 24.0', 1.5' cu**

Total Width **26.5'** Lanes **2** Tracks **None**

Median **None** Rail Type **Timber (0000)**

Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **24'**

Wearing Surface **None** Deck Seal **None**

Alignment **Tangent**

DESCRIPTION - UNDER STRUCTURE

Roadway Section **None**

Clearances: Vert. _____ Horiz. _____ Lt. _____ Rt. _____

Lanes _____ Tracks _____ Pumpplant: None ☐ See Br. No. _____

Facilities Crossed **Silverado Canyon Creek**

cc:

Bridge No. 55C-177
Date May 11, 1978

DESCRIPTION - HYDRAULICS

Channel Natural

Navigable: Yes ☐ No ☒ Clearances: Vert. _____ Horiz. _____

MAINTENANCE

Custodian _____ County _____ Owner _____ County _____

**ORIGINAL
CONDITION RATING**

Deck	<u>7</u>
Superstructure	<u>7</u>
Substructure & Pipes	<u>7</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>---</u>
Approach Rdwy. Alignment	<u>7</u>
Estimated Remaining Life	<u>20</u>

**ORIGINAL
APPRAISAL**

Overall	<u>7</u>
Deck Geometry	<u>3</u>
Underclearances	Vert. <u>---</u>
	Horiz. <u>---</u>
Safe Load Capacity	<u>6</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

AVERAGE DAILY TRAFFIC:

BYPASS DETOUR LENGTH:

ENCROACHMENTS:

PAINT:

CONDITION OF STRUCTURE:

LOAD CAPACITY:

County _____
Action Required by District: ~~XXXX~~ Yes ☐ No ☒

1000 • (1978)

99

6" steel pipe attached to south overhang.

Code 5 - Finish coat worn off. Extensive rust on webs and flanges.

The structure is in good condition.

Calculated by the Office of Structures rating section.

J. R. Martin
District Engineer

By C. E. Broussard

CEB:mb
cc: Dist. 07 Local Ass't
Orange (2)