
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 : 55C0188
Facility Carried: THISA WAY
Location : 200' S SILVERADO CYN RD
City :
Inspection Date : 29-MAY-01
Inspection Type

Bridge Inspection Report

Name : SILVERADO CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1965
Year Widened : N/A
Length (m) : 7.9

Skew (degrees): 9
No. of Joints : 0
No. of Hinges : 0

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

Span Configuration : (S) 1 @ 7.3 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20

Inventory Rating : 55.3 metric tons

Operating Rating : 99.9 metric tons

Permit Rating : PPPPP

Posting Load : Type 3 N/A english tons

Calculation Method : LOAD FACTOR

Calculation Method : LOAD FACTOR

Type 3S2 N/A english tons Type 3-3 N/A english tons

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.1 m br, 2 @ 3.6 m, 0.1 m br (E)

Total Width : 7.3 m

Net Width : 7.10 m

Rail Description : MBGR

No. of Lanes : 2

Min. Vertical Clearance : Unimpaired

Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with cobbled bottom, and with concrete slab invert beneath the bridge.

CONDITION OF STRUCTURE

The streambed has degraded (1 m) downstream of the concrete slab invert.

Otherwise, the structure is in good condition.

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 39		Concrete Slab - Unprotected w/ AC Overlay	2	60 sq.m.	60	0	0	0	0
01 215		Reinforced Conc Abutment	2	16 m.	16	0	0	0	0
01 337		Metal Railing (W6X25 Posts)	2	18 m.	18	0	0	0	0

WORK RECOMMENDATIONS

Construct a scour mitigation device downstream of the structure to prevent further degradation of the streambed.

Item#	Rec. Date	Work By	Work Id.	Prog. Method	Cost
1	28-JAN-1999	Other	40188X99028X		

Bridge No.: 55C0188

Location: 200' S SILVERADO CYN RD

Inspection Date: 29-MAY-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
Orange County

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0188
 (5) INVENTORY ROUTE (ON/UNDER) - ON 1 40 00000N
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - SILVERADO CANYON CREEK
 (7) FACILITY CARRIED - THIS WAY
 (9) LOCATION - 200' S SILVERADO CYN 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 38 MIN 24 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE
 TYPE - SLAB CODE 1 01
 (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 - BITUMINOUS CODE 6
 B) TYPE OF MEMBRANE - NONE CODE 0
 C) TYPE OF DECK PROTECTION - NONE CODE 0

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

(27) YEAR BUILT 1965
 (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 500
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 14
 (19) BYPASS, DETOUR LENGTH 2 KM

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

(48) LENGTH OF MAXIMUM SPAN 7.3 M
 (49) STRUCTURE LENGTH 7.9 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 7.1 M
 (52) DECK WIDTH OUT TO OUT 7.3 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 4.3 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 9 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 7.1 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 = 84.4 *****

STATUS =

HEALTH INDEX = 100

***** CLASSIFICATION *****

(112) NBIS BRIDGE LENGTH - YES CODE 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 *****

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

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

(31) DESIGN LOAD - MS - 18 OR HS - 20 CODE 5
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING 99.9
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING 55.3
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - DESCRIPTION - OPEN, NO RESTRICTION A

***** APPRAISAL *****

(67) STRUCTURAL EVALUATION CODE 7
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 6
 (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 500
 (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 : 55C0188
Facility Carried: THISA WAY
Location : 200' S SILVERADO CYN RD
City :
Inspection Date : 11-DEC-00

Bridge Inspection Report

Inspection Type

Routine	Group A	Underwater	Special	Other
☐	☐	☐	☐	☒

Name : SILVERADO CANYON CREEK

CONSTRUCTION INFORMATION

Year Built : 1965	Skew (degrees): 9
Year Widened : N/A	No. of Joints : 0
Length (m) : 7.9	No. of Hinges : 0

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

Span Configuration : (S) 1 @ 7.3 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20	
Inventory Rating : 55.3 metric tons	Calculation Method : LOAD FACTOR
Operating Rating : 99.9 metric tons	Calculation Method : LOAD FACTOR
Permit Rating : PPPPP	
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 : (W) 0.1 m br, 2 @ 3.6 m, 0.1 m br (E)	
Total Width : 7.3 m	Net Width : 7.10 m No. of Lanes : 2
Rail Description : MBGR	Rail Code : 0000
Min. Vertical Clearance : Unimpaired	

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth with gravel bottom. Full PCC invert slab under bridge.

HISTORY

Past reports indicate the "stream bed has degraded (1m) downstream of the structure." The structural integrity of this bridge has not been compromised to date according to maintenance records.

REVISIONS

The National Bridge Inventory (NBI) 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," is revised to 8: "Bridge foundations determined to be stable for assessed or calculated scour conditions; calculated scour is above top of footing."

This evaluation is based on an office review of maintenance records only. A field investigation was not conducted and therefore a channel cross-section was not measured on the date of this report.

The channel is lined with a full PCC invert slab under the bridge. Report of downstream degradation does not indicate any scour-related problems at the structure to date. However, a "Work Recommendation" has been made to construct a scour mitigation device downstream of the structure to prevent further degradation of the streambed.

MISCELLANEOUS

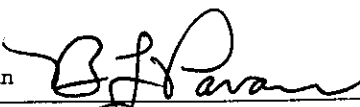
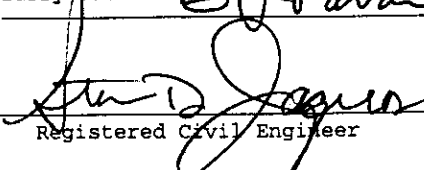
No as-built plans have been found in the Caltrans database. A request for as-built plans will be sent to the County of Orange.

Bridge No.: 55C0188

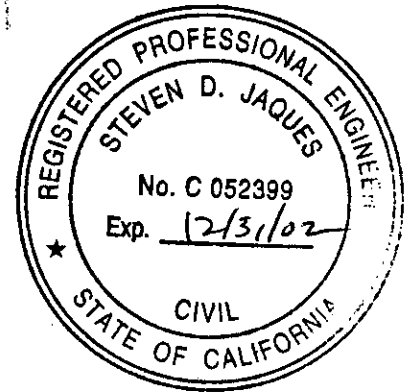
Location: 200' S SILVERADO CYN RD

Inspection Date: 11-DEC-00

Inspected By : Barry Pavan



Registered Civil Engineer

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



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

Bridge No. 250-188
Location 07-Cra-CR
Dist - Co - Res - PM - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Thisa Way, 0.15 mile south of Silverado Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls (8)

Widenable? Yes ☒ No ☐ Conditional ☐
County: Orange
Action Required by Dist Yes ☐ No ☒

WORK DONE:

Placed new AC deck overlay.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None.

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

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

Bridge Number 55C-188

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 July 5, 1995

Name SILVERADO CANYON CREEK (Thisa Way, 200' south of Silverado 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 A-3 is appropriate.

CONDITION OF STRUCTURE:

- A. Sand bags that were used to prevent west side of the north approach from undermining have started to fail.
- B. East end of north abutment has a 0.30 m x 0.60 m x 0.15 m deep spall with rebar exposed.

Condition of structure is good.

WORK RECOMMENDED:

- 1. Extend wingwall at location "A" to contain the dirt.
- 2. Chip concrete 25 mm behind the rebar and patch with set 45.

ENCROACHMENT:

One 0.15 m diameter welded steel pipe attached to east exterior.

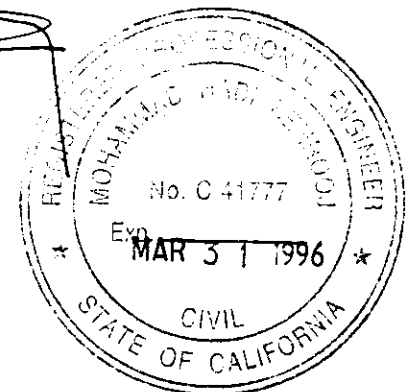
M. Hadi Behrooj

By

G. P. Balinghasay

GPB:cd

cc: CDHarris
Orange County
WLindsey



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

07/17/95

BY: [Signature]

Bridge No. 55C-188

Name SILVERADO CANYON CREEK (Thisa Way,
200' south of Silverado 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 diameter welded steel pipe attached to east exterior.

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 8/92)

Bridge Number 55C-188

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

Date of Investigation April 22, 1993

TYPE OF INVESTIGATION/REPORT

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

Name SILVERADO CANYON CREEK (Thisa Way, 200' south of Silverado Canyon Road)

CONDITION RATINGS:

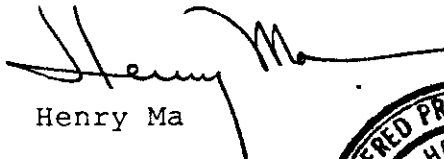
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd

cc: INagai (2)
County of Orange



(ATTACHMENT A)

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-M58 (REV. 1/91)

14W14

Bridge No. 55C - 188

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Thisa Way, 200' south of
Silverado Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 38.3'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1965 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span CIP RC rigid frame slab on spread footing.
Full PCC invert slab under bridge.

Spans (S) 24' clear, normal (N)

Length 26' NBIS Bridge Length Yes Skew 9° Right

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load H20-S16-44 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (W) 0.3'br. 23.3', 0.3'br (E)

Total Width 24' Net Width 23.3' Lanes 2 Tracks None

Median None Rail Type Metal beam 0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 14'

Deck Type 1 Wearing Surface/Prot. Sys. 600 AC/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 :	500 Est	1991	N	
Average Daily Traffic (Future) :	500 Est	2010	N	
Average Daily Trucks (% OF ADT) :	1% Est		N	
Bypass Detour Length	1 mile		N	
Shell Route:	No		No	
Functional Classification :	09		N	
LOAD RATINGS:	Inventory HS 34	Operating	HS 56	
	Permit PPPPP	Computation Method	Load Factor	

CONDITION RATINGS:

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

APPRAISAL RATINGS:

Waterway Adequacy	9	Approach Roadway Alignment	6
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Date of Revisions

CONDITION OF STRUCTURE:

Stream flow and sediment has abraded the concrete invert slab and exposed numerous reinforcing steel at center of channel.

Condition of the structure is good.

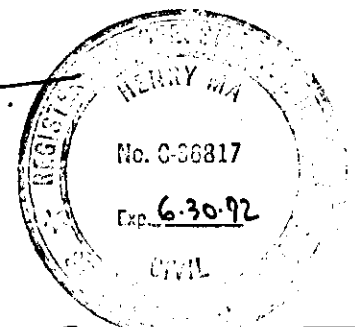
ENCROACHMENT:

6" welded steel pipe attached to east exterior.

Henry Ma

HM:ms

cc: INagai (2)
County of Orange



SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 8/88)

Bridge No. 55C-188

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

Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Thisa Way, 200' south of Silverado Canyon Road)

CONDITION RATING:

Deck 8 Superstructure 8 Substr.&Pipes 8

Channel & Channel Protection 6 Culvert N

Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE

CATEGORY A OTHER

UNDERWATER OFFICE

CONDITION OF STRUCTURE:

Stream flow scour has exposed a number of reinforcing steel near center of the concrete invert.

Condition of the structure is good.

REVISION:

Location: 12-Ora-CR

Name: SILVERADO CANYON CREEK (Thisa Way, 200' south of Silverado Canyon Road)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 RC strutted abutments on spread footing.

Henry Ma

HM/cd

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



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

Bridge No. 55C-188
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

Name SILVERADO CANYON CREEK (Thisa Way, 0.15 mile S. of Silverado Canyon Rd.)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
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:

Average Daily Traffic - 200 (Estimated 1987)

WORK DONE:

Erosion at north end of structure has been repaired.

Concrete spall at northeast corner 2' above invert has been repaired.

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

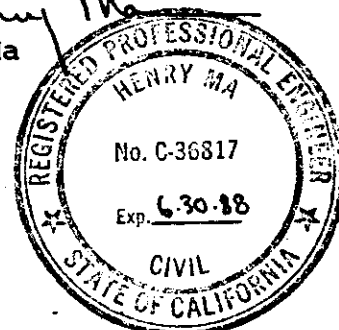
None

WORK RECOMMENDED:

None

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

Henry Ma



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

Bridge No. 55C-188
Location 7-0ra-CR
San Joaquin Co.
Date of Investigation January 9, 1986

Name SILVERADO CANYON CREEK (Thisa Way, 0.15 mile S. of Silverado Canyon Road)

CONDITION RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls 8

APPRAISAL RATING:

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

PRIORITY

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

WORK NOT DONE:

Previously recommended work to backfill the erosion on both shoulders near the north abutment of the structure has not been done.

CONDITON OF STRUCTURE:

At the inlet of the structure onthe north corner, there is a concrete spall (1' x 1' x 3" deep) two feet above the invert exposing reinforcing steel.

Otherwise, the overall condition of the structure is good.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

1. Seal off the bottom of the metal bulkheads and backfill both shoulder voids on the north end of the structure.
2. Clean out and patch the concrete spall on the northeast corner 2' above the invert.

A

C

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

Henry Ma
Henry Ma
C-36817

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

Bridge No. 55C-188
Location 7-Ora-CR
Dist - Co - Hq - Rd - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Thisa Way, 0.15 mile S. of Silverado Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 8
Channel & Channel Protection 6 Retaining Walls 8

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

PRIORITY

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

CONDITION OF STRUCTURE:

Both of the roadway shoulders are undermined and have eroded out inside the metal bulkheads at the north end of the structure. It is not apparent, but there is a void under the AC shoulder surfacing on the east side.

Otherwise, the overall condition of the structure is good.

RECOMMENDED POSTING:

None

RECOMMENDATION:

Seal off the bottom of the metal bulkheads and backfill the shoulder voids on the north end of the structure.

A

E. L. Neff

E. L. Neff
C-28703

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

DIST 07 ROUTE CO RD COUNTY 55 C STRU. NO 0188 POSTMILE . RATING WIDTH-FT 024.0 STRU TYPE CS YR ORIG CONST 65

JUL. 19, 1978

	RATING FACTOR	PT	SPAN	ULT MOM CAP TOP IN COM	ULT MOM CAP BOT IN COM	POS HS20 MOMENT	NEG HS20 MOMENT	POS PURP MOMENT	NEG PURP MOMENT	DEAD LOAD MOMENT	SECONDARY MOMENT
INV	1.70	5	1	1487.3	0.0	342.0	0.0	513.0	0.0	178.5	0.0
OPER	2.82	5	1	1487.3	0.0	342.0	0.0	513.0	0.0	178.5	0.0
PURP	1.88	5	1	1487.3	0.0	342.0	0.0	513.0	0.0	178.5	0.0

THE NUMBER OF AXLES ON THE TRUCK THAT CAUSES THE PURPLE RATING FACTOR IS 13.
FC = 1.20 FY = 40.

IF THE REPORTED ULTIMATE MOMENT CAPACITY IS 0, IT WAS DETERMINED NOT TO BE CRITICAL

- 2 THISA WAY OVER SILVERADO CANYON CREEK
- 3 SINGLE SPAN RIGID FRAME W/3" AC SURFACING 7/78
- 4 ASSUMED FY = 40 KSI FC = 1.2 KSI
- 5 TANDEM AXLES USED FOR PURPLE LL

PPPPP

DIST	ROUTE	COUNTY	STRU. NO	POSTMILE	RATING	WIDTH=FT	STRU TYPE	YR ORIG	CUNST	
07	CO RD	55 C	0188	.	024.0		CS	65		JUL. 19, 1978

INFLUENCE LINE FOR CRITICAL INVENTORY RATING POINT SPAN 1 10TH POINT 5

MEM	LEFT	.1	.2	.3	.4	.5	.6	.7	.8	.9	RIGHT
NO											
1	0.0	0.382	0.945	1.690	2.618	3.727	2.618	1.690	0.945	0.382	0.0

THE CRITICAL OPERATING RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

THE CRITICAL PURPLE RATING POINT IS THE SAME AS THE CRITICAL INVENTORY RATING POINT

- 2 THISA WAY OVER SILVERADO CANYON CREEK
- 3 SINGLE SPAN RIGID FRAME W/3" AC SURFACING 7/78
- 4 ASSUMED FY = 40 KSI FC = 1.2 KSI
- 5 TANDEM AXLES USED FOR PURPLE LL

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

Bridge No. **550-188**
Other No. **SV-19**
P.U.C. No. _____
Location **07-Orn-CR**
Dist - Co - Rte - PM - City _____
Date of Investigation **May 18, 1978**

SEE REVISED
ORIGINAL REPORT

Name **SILVERADO CANYON CREEK (Thisa Way, 0.15 mi S. of Silverado Cyn. Rd.)**
Lat. **33° - 44.8'** Long. **117° - 38.3'**

STRUCTURAL DATA AND HISTORY

Year Built **1965** By **Orange County** Contract No. **-----**
Date of Revisions _____
Designed by: B.D. ☐ **Orange County** Plans Avail. @ **County**
Description: **9x24' RC box at grade.**

Spans **24' clear span**
Length **26'** Skew **9° Rt** Design LL **H20-S16**
Ratings: Inventory **HS 34/LF** Operating **HS 56/LF** Permit **FFFFF/LF**

DESCRIPTION - ON STRUCTURE

Bridge Width **24'**
Total Width **24'** Lanes **2** Tracks **None**
Median **None** Rail Type **MSR (0000)**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **24'**
Wearing Surface **3" AC** 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:

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DS-M30A (REV. 1-75)

Bridge No. **95C-188**
Date **May 18, 1978**

DESCRIPTION - HYDRAULICS

Channel **Natural**

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

MAINTENANCE

Custodian **Orange County**

Owner **Orange County**

ORIGINAL
CONDITION RATING

Deck	<u>8</u>
Superstructure	<u>8</u>
Substructure & Pipes	<u>8</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>---</u>
Approach Rdwy. Alignment	<u>8</u>
Estimated Remaining Life	<u>50</u>

ORIGINAL
APPRAISAL

Overall	<u>8</u>
Deck Geometry	<u>3</u>
Underclearances	Vert. <u>---</u>
	Horiz. <u>---</u>
Safe Load Capacity	<u>9</u>
Waterway Adequacy	<u>8</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

AVERAGE DAILY TRAFFIC:

EXPANSION LENGTH:

HYDROGRAPHIC:

CONDITION OF STRUCTURE:

LOAD CAPACITY:

County
XXXXX
Action Required by District: Yes ☐ No ☒
150 • (1978)

99

6" steel gas line along east side.

The structure is in good condition.

Calculated by the Office of Structures rating section.

Original signed by

C. E. Broussard

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