
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 : 55C0181
Facility Carried: SILVERADO CYN RD
Location : 3.1 MI E OF SANTIAGO RD
City :
Inspection Date : 29-MAY-01
Inspection Type

Bridge Inspection Report

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : 1970
Year Widened : N/A
Length (m) : 14
Skew (degrees): 59
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 : (W) 1 @ 6.1 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20
Inventory Rating : 99.9 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 : (S) 0.6 m min deck, 0.3 m br, 2 @ 4.1 m, 0.3 m br, 0.6 m min deck (N)
Total Width : 10.1 m
Net Width : 8.20 m
Rail Description : MBGR
Min. Vertical Clearance : Unimpaired
No. of Lanes : 2
Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with a cobbled bottom.

CONDITION OF STRUCTURE

The structure is in good condition.

SCOUR

The top 0.2 m of the spread footings are exposed.

MISCELLANEOUS

Pedestrian access beneath the structure is from the southeast quadrant.

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	50 sq.m.	50	0	0	0	0
01 215		Reinforced Conc Abutment	3	40 m.	40	0	0	0	0
01 333		Other Bridge Railing	2	38 m.	38	0	0	0	0
01 361		Scour	2	1 ea.	0	1	0		

WORK RECOMMENDATIONS

Install a scour mitigation device at the structure to prevent further degradation of the creek bed.

Item#	Rec. Date	Work By	Work Id.	Prog. Method	Cost
1	29-MAY-2001	County Agency	40181X01149X		

Bridge No.: 55C0181

Location: 3.1 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
Orange County
PRAskelson

Bridge No.: 55C0181

Location: 3.1 MI E OF SANTIAGO RD

Inspection Date: 29-MAY-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0181
 (5) INVENTORY ROUTE (ON/UNDER) - ON 140 00000N
 (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 - 3.1 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 37 MIN 22 SEC
 (98) BORDER BRIDGE STATE CODE 1/2 SHARE 1/2
 (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 1970
 (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 11/2
 (19) BYPASS, DETOUR LENGTH 199 KM

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

(48) LENGTH OF MAXIMUM SPAN 6.1 M
 (49) STRUCTURE LENGTH 14 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 8.2 M
 (52) DECK WIDTH OUT TO OUT 10.1 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.1 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 59 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 8.2 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 = 65.0 *****

STATUS =

HEALTH INDEX = 100

***** 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 7
 (59) SUPERSTRUCTURE 7
 (60) SUBSTRUCTURE 6
 (61) CHANNEL & CHANNEL PROTECTION 8
 (62) CULVERTS N

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

(31) DESIGN LOAD - MS - 18 OR HS - 20 5
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 99.9
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 99.9
 (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 6
 (68) DECK GEOMETRY 4
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 3

***** 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)

SUPPLEMENTARY BRIDGE REPORT

DS-M19(REV.9-93)

Bridge No 55C-0181

Location 12-Ora-Cs-Ora

Dist.,Co.,Rte.,PM,City

Date of Investigation 5/10/96

Name Silverado Canyon

RATINGS:

⁷¹Waterway Adequacy _____ ⁶¹Channel & Channel Protection _____ ⁷²Approach Rdwy Align _____

TYPE OF INVESTIGATION/REPORT

Biennial _____ Group A _____ Other _____
Damage _____ Underwater _____ Office X

This report addresses hydraulic and scour issues only

DESCRIPTION

The bridge is a single span rigid frame slab on spread footings. The streambed has been degraded to expose the footings. Bank downstream of the bridge was severely eroded during storms in 1995.

ITEM 113

The bridge's scour potential has been calculated in accordance with FHWA Technical Advisory T5140.23, "Evaluating Scour at Bridge". The bridge foundations were determined to be unstable for calculated scour conditions. Item 113, "Vulnerability to scour", has been changed to 3.

ITEM 60

The condition rating for Item 60, Substructure, is changed to 4 to conform with Item 113.

WORK RECOMMENDED

The streambed should be filled with riprap.

Shyh Lee
Registered Civil Engineer



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY BRIDGE REPORT

DS-M19(REV.9-93)

Bridge No 55C-0181

Location 12-Ora-Cs-Ora

Dist., Co., Rte., PM, City

Date of Investigation 5/10/96

Name Silverado Canyon

RATINGS:

¹Waterway Adequacy _____

⁶Channel & Channel Protection _____

⁷Approach Rdwy Align _____

TYPE OF INVESTIGATION/REPORT

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Damage _____

Group A
Underwater _____

Other
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ITEM 60

The condition rating for Item 60, Substructure, is changed to 4 to conform with Item 113.

WORK RECOMMENDED

The streambed should be filled with riprap.

Shyh Lee
Registered Civil Engineer



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

SUPPLEMENTARY BRIDGE REPORT

DS-M19(REV.9-93)

Bridge No 55C-0181

Location 12-Ora-Cs-Ora

Dist., Co., Rte., PM, City

Date of Investigation 5/10/96

Name Silverado Canyon

RATINGS:

"Waterway Adequacy _____

"Channel & Channel Protection _____

"Approach Rdwy Align _____

TYPE OF INVESTIGATION/REPORT

Biennial
Damage _____

Group A
Underwater _____

Other
Office X

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ITEM 60

The condition rating for Item 60, Substructure, is changed to 4 to conform with Item 113.

WORK RECOMMENDED

The streambed should be filled with riprap.

Shyh Lee
Registered Civil Engineer



Item 113 - Scour Critical Bridges

1 digit

Use a single-digit code as indicated below to identify the current status of the bridge regarding its vulnerability to scour. Scour analyses shall be made by hydraulic/geotechnical/structural engineers. Details on conducting a scour analysis are included in the FHWA Technical Advisory 5140.23 titled, "Evaluating Scour at Bridges." Whenever a rating factor of 4 or below is determined for this item, the rating factor for Item 60 - Substructure may need to be revised to reflect the severity of actual scour and resultant damage to the bridge. A scour critical bridge is one with abutment or pier foundations which are rated as unstable due to (1) observed scour at the bridge site or (2) a scour potential as determined from a scour evaluation study.

Code Description

- N Bridge not over waterway.
- U Bridge with "unknown" foundation that has not been evaluated for scour. Since risk cannot be determined, flag for monitoring during flood events and, if appropriate, closure.
- T Bridge over "tidal" waters that has not been evaluated for scour, but considered low risk. Bridge will be monitored with regular inspection cycle and with appropriate underwater inspections. ("Unknown" foundations in "tidal" waters should be coded U.)
- 9 Bridge foundations (including piles) on dry land well above flood water elevations.
- 8 Bridge foundations determined to be stable for assessed or calculated scour conditions; calculated scour is above top of footing. (Example A)
- 7 Countermeasures have been installed to correct a previously existing problem with scour. Bridge is no longer scour critical.
- 6 Scour calculation/evaluation has not been made. (Use only to describe case where bridge has not yet been evaluated for scour potential.)
- 5 Bridge foundations determined to be stable for calculated scour conditions; scour within limits of footing or piles. (Example B)
- 4 Bridge foundations determined to be stable for calculated scour conditions; field review indicates action is required to protect exposed foundations from effects of additional erosion and corrosion.
- 3 Bridge is scour critical; bridge foundations determined to be unstable for calculated scour conditions:
 - Scour within limits of footing or piles. (Example B)
 - Scour below spread-footing base or pile tips. (Example C)

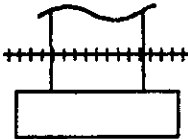
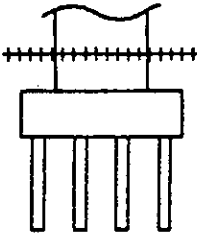
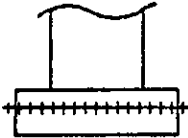
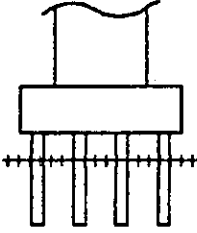
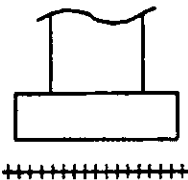
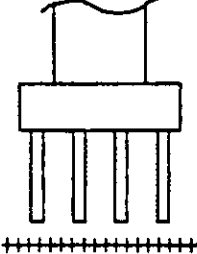
(codes continued on the next page)

Item 113 - Scour Critical Bridges (cont'd)

Code Description

- 2 Bridge is scour critical; field review indicates that extensive scour has occurred at bridge foundations. Immediate action is required to provide scour countermeasures.
- 1 Bridge is scour critical; field review indicates that failure of piers/abutments is imminent. Bridge is closed to traffic.
- 0 Bridge is scour critical. Bridge has failed and is closed to traffic.

EXAMPLES:

	<u>CALCULATED SCOUR DEPTH</u>		<u>ACTION NEEDED</u>
A. Above top of footing			None - indicate rating of 8 for this item
B. Within limits of footing or piles			Conduct foundation structural analysis
C. Below pile tips or spread-footing base			Provide for monitoring and scour countermeasures as necessary
	SPREAD FOOTING (NOT FOUNDED IN ROCK)	PILE FOOTING	

+++++ = Calculated scour depth

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 2/93)

Bridge Number 55C-181

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

Date of Investigation July 5, 1995

TYPE OF INVESTIGATION/REPORT

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

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 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 A-3 is appropriate.

CONDITION OF STRUCTURE:

There is light cracking in walls and soffit.

Condition of structure is good.

WORK RECOMMENDED:

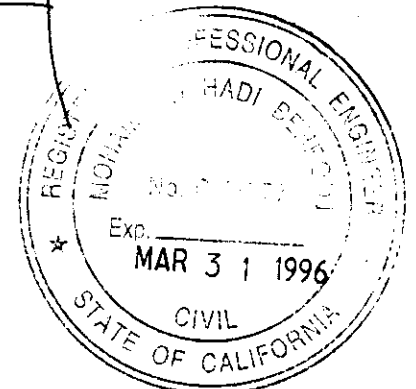
None.

ENCROACHMENTS:

One 0.25 m diameter cement coated pipe atop bridge deck outside of south bridge rail.

MHB
By [Signature]
M. Hadi Behrooj
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	

[illegible]

BY:

Bridge No. 55C-181

Name SILVERADO CANYON CREEK (Silverado
Canyon Road, 3.1 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 - 0.25 m diameter cement coated pipe atop bridge deck outside of south bridge rail.

HBD M 30

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 8/92)

Bridge Number 55C-181

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

Date of Investigation April 21, 1993

TYPE OF INVESTIGATION/REPORT

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

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 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

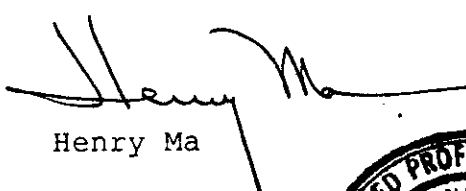
8

CONDITION OF STRUCTURE:

Condition of the structure is good.

ENCROACHMENT:

10" cement coated pipe atop of bridge deck outside of south bridge rail.


Henry Ma

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



(ATTACHMENT A)

INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0181	01	042193
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]

H. MA

BY:

BRIDGE REPORT

DS-M58 (REV. 1/91)

14W14

Bridge No. 55C - 181

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 miles
east of Santiago Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 37.3'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1970 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span CIP RC rigid frame slab on spread footing.

Spans (W) 20' clear, normal (E)

Length 46' NBIS Bridge Length Yes Skew 59° Left

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 (S) 2' min PCC deck, 1' br, 27', 1' br, 2' min deck (N)

Total Width 33' min Net Width 27' Lanes 2 Tracks None

Median None Rail Type Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 20'

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 bottomNavigable: 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 63	Operating	HS 105
	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	8
-------------------	---	----------------------------	---

Date of Revisions _____

CONDITION OF STRUCTURE:

Condition of the structure is good.

Henry Ma
Henry Ma

HM:ms

cc: INagai (2)
County of Orange

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DS-M19 (REV. 1/89)

Bridge No. 55C-181
Location 12-Ora - CR
Dist. Co. Rte. City
Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 miles East of Santiago Canyon Road)

CONDITION RATING:

Deck 7 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:

Condition of the structure is good.

REVISION:

Location: 12-Ora-CR

WORK RECOMMENDED:

None.

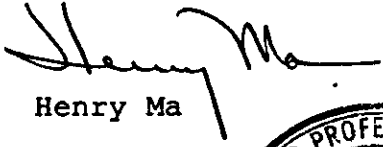
RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 RC strutted abutments on spread footing.


Henry Ma

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



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

Bridge No. 55C-181
Location 7-Ora-CR
Dist - Co - Pte - PM - City
Date of Investigation April 20, 1987

Name SILVERADO CANYON CREEK (Silverado Canyon Rd, 3.1 miles E. of Santiago Cyn Rd.)

CONDITION RATING:

Deck 7 Superstructure 8 Substr. & Pipes 8 Overall 7
Channel & Channel Protection 6 Retaining Walls N

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

REVISION:

Condition Rating - Deck 7
Appraisal Rating - Overall 7
Average Daily Traffic - 2,000 (Estimated 1985)

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

None

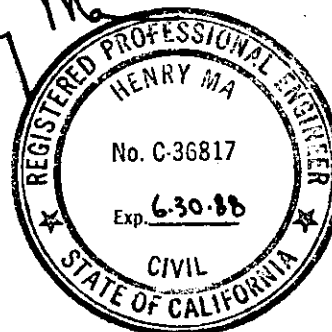
WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)

Henry Ma



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

Bridge No. 55C-181
Location 7-Ora-CR
Sta - Co - Rte - Rd - City
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 miles E. of Santiago 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

CONDITION OF STRUCTURE:


The overall condition of the structure is good.

RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None


Henry Ma
C-36817

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

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

Bridge No. 55C-181
Location 7-Ora-CR
Dist - Co - Hqs - Pk - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 mile E. of Santiago 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 ~~OWNER~~: Yes ☐ No ☒

PRIORITY

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

WORK DONE:

The previously recommended work has been done.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

None

RECOMMENDATION:

None

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-OS 119 (REV. 1/74)

Bridge No. 55C-181
Location 07-Ora-CR
Dist - Co - Res - Pst - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 miles east of
Santiago 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 District Yes ☒ No ☐

WORK DONE:

The previously recommended work has not been done and will be restated below.

CONDITION OF STRUCTURE:

The grouted rock slope protection on each side of the structure is being undermined and breaking up on the downstream side.

The overall condition of the structure is good.

RECOMMENDED POSTING:

None.

RECOMMENDATIONS:

1. Repair the grouted rock slope protection on downstream side.
2. The previous recommendation was to place rip-rap around the downstream end of the structure.

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

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

SEE REVISED
ORIGINAL REPORT

Bridge No. **SSC-181**
Other No. **SV-10**
P.U.C. No. _____
Location **07-022-0-CR**
Dist - Co - Rte - PM - City
Date of Investigation **May 19, 1978**

Name **SILVERADO CANYON CREEK (Silverado Canyon Road, 3.1 mi E. of
Santiago Canyon Road)**
Lat. **33° - 44.8'** Long. **117° - 37.3'**

STRUCTURAL DATA AND HISTORY

Year Built **1970** By **Orange County** Contract No. **--**

Date of Revisions _____

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

Description: **Single span RC rigid frame slab culvert, supported on
spread footings.**

Spans **20' clear**
Length **46'** Skew **39° lt** Design LL **H20-S16-44**
Ratings: Inventory **HS 63.4/LF** Operating **HS 105.4/LF** Permit **PPPPP/LF**

DESCRIPTION - ON STRUCTURE

Bridge Width **28'**
Total Width **100'** Lanes **2** Tracks **None**
Median **None** Rail Type **MBGR (0000)**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **28'**
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**

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DS-M58A (REV. 1/75)

Bridge No. **55C-181**
Date **May 19, 1978**

DESCRIPTION - HYDRAULICS

Channel **Natural**

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

MAINTENANCE

Custodian **County** Owner **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>6</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 ☐

Action Required by **XXXXX** District **County** Yes ☒ No ☐

AVERAGE DAILY TRAFFIC: 1000 *

EXCESS DETOUR LENGTH: 99

CONDITION OF STRUCTURE: Minor erosion around downstream end of structure.

LOAD CAPACITY: Calculated by the Office of Structures rating section.

RECOMMENDATIONS: Place rip-rap around downstream end of abutment walls.

J. R. Martin
Original signed by
by C. E. Broussard

CEB:zmb
cc: Dist. 07-Local Assistance
Orange County (2)