
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 : 55C0183
Facility Carried: BELHA WAY
Location : 50' N SILVERADO CYN 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 : 1963
Year Widened : N/A
Length (m) : 7

Skew (degrees): 21
No. of Joints : 0
No. of Hinges : 0

Description of Structure : 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

LOAD CAPACITY AND RATINGS

Design Live Load : M - 13.5 OR H - 15

Inventory Rating : 27.2 metric tons

Operating Rating : 47.1 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, 3.5 m, 0.1 m br (E)

Total Width : 3.7 m

Net Width : 3.50 m

Rail Description : MBGR

No. of Lanes : 1

Min. Vertical Clearance : Unimpaired

Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

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

CONDITION OF STRUCTURE

The structure is in good condition.

MISCELLANEOUS

Pedestrian access into the creek is via a stairway at the northeast 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	20 sq.m.	20	0	0	0	0
01 215		Reinforced Conc Abutment	2	8 m.	8	0	0	0	0
01 330		Metal Bridge Railing - Uncoated	2	14 m.	14	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0183

Location: 50' N SILVERADO CYN RD

Inspection Date: 29-MAY-01

Inspected By : M. Ogata

M. Ogata

Registered Civil Engineer



CC : TMRut
Orange County

Bridge No.: 55C0183

Location: 50' N SILVERADO CYN RD

Inspection Date: 29-MAY-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0183
 (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 - BELHA WAY
 (9) LOCATION - 50' N 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 45 SEC
 (17) LONGITUDE 117 DEG 35 MIN 02 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 PRECAST CONC. PANELS CODE 2
 (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 1963
 (106) YEAR RECONSTRUCTED 0000
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 01 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 25
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1 %
 (19) BYPASS, DETOUR LENGTH 199 KM

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

(48) LENGTH OF MAXIMUM SPAN 6.4 M
 (49) STRUCTURE LENGTH 7 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 3.5 M
 (52) DECK WIDTH OUT TO OUT 3.7 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 3.7 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 21 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 3.5 M
 (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M
 (54) MIN VERT UNDERCLEAR REF - NOT H/RR 0 M
 (65) 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 = 68.8 *****

STATUS = FUNCTIONALLY OBSOLETE

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 - 1 LANE, 2 WAY 3
 (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 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 - 47.1
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 27.2
 (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 3
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 9
 (72) APPROACH ROADWAY ALIGNMENT 6
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 6

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

(75) TYPE OF WORK - MISC STRUCTURAL WORK CODE 38
 (76) LENGTH OF STRUCTURE IMPROVEMENT 7 M
 (94) BRIDGE IMPROVEMENT COST \$31,000
 (95) ROADWAY IMPROVEMENT COST \$3,000
 (96) TOTAL PROJECT COST \$47,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 1999
 (114) FUTURE ADT 25
 (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)

Bridge Number 55C-183

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

Date of Investigation July 5, 1995

TYPE OF INVESTIGATION/REPORT

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

Name SILVERADO CANYON CREEK (Belha Way, 50' north 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 B-2 is appropriate.

CONDITION OF STRUCTURE:

Bottom of footing of both abutments have begun to scour.

Both exteriors are covered with heavy vegetation.

WORK RECOMMENDED:

Backfill around footing of both abutments.

ENCROACHMENTS:

One 0.075 m diameter steel pipe on east exterior.

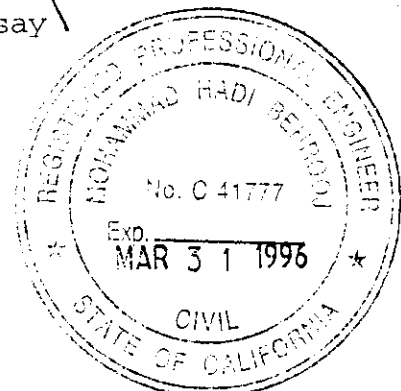
M. Hadi Behrooj

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	

07/11/95

BY: [Signature]

Bridge No. 55C-183

Name SILVERADO CANYON CREEK (Belha Way,
50' north of Silverado Canyon Rd.)

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 - 0.075 m diameter steel pipe on east exterior.

HBD M 30

Bridge Number 55C-183

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 (Belha Way, 50' north of Silverado Canyon Road)

CONDITION RATINGS:

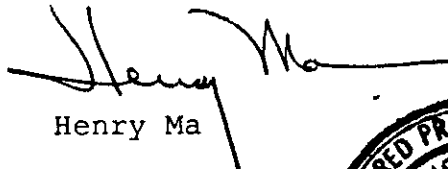
Condition ratings of all bridge elements are shown on the PONTIS DATA FORM (Attachment A).

Channel & Channel Protection

8

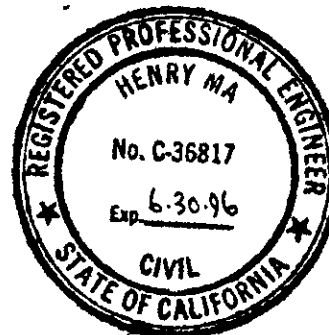
CONDITION OF STRUCTURE:

Condition of the structure is good.


Henry Ma

HM:cd

cc: INagai (2)
County of Orange



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)

14W15

Bridge No. 55C - 183

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Belha Way, 50' north of Silverado Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 35.9'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1963 By County of Orange Contract No. Unknown

Designed by: County Plans Avail. @ County

Description: Single span PC/PS concrete cored slab units (3 each) supported by open end RC seated abutments on spread footing.

Spans (S) 21' (N)

Length 23' NBIS Bridge Length Yes Skew 21° 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 (W) 0.3'br. 11.5' 0.3'br (E)

Total Width 12' Net Width 11.5' Lanes 1 Tracks None

Median None Rail Type Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 12'

Deck Type 2 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 channel with gravel bottom

Navigable: Yes ☐ No ☒ Clearances: Vert.

Horiz.

Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	25 Est	1991	N	
Average Daily Traffic (Future) :	25 Est	2010	N	
Average Daily Trucks (% OF ADT) :	N		N	
Bypass Detour Length	99 miles		N	
Shell Route:	No		No	
Functional Classification :	09		N	
LOAD RATINGS:	Inventory	HS 17	Operating	HS 29
	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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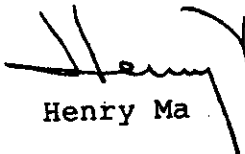
Date of Revisions

CONDITION OF STRUCTURE:

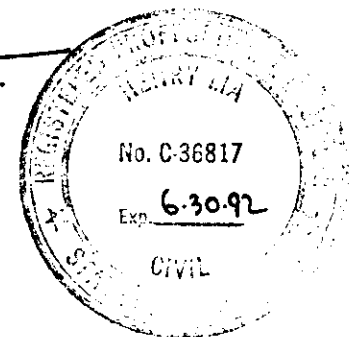
Condition of the structure is good.

ENCROACHMENT:

3" steel pipe on east exterior.


 Henry Ma

HM:ms

cc: INagai (2)
County of Orange

Bridge No. 55C-183
Location 12-Ora - CR
Dist. Co. Rte. City
Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Belha Way, 50' north 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:

Condition of the structure is good.

REVISION:

Location: 12-Ora-CR

Name: SILVERADO CANYON CREEK (Belha Way, 50' north of Silverado Canyon Road)

WORK RECOMMENDED:

None.

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
DN-OS M19 (REV. 1/74)

Bridge No. 55C-183
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 21, 1987

Name SILVERADO CANYON CREEK (Belha Way at 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 - 1,000 (Estimated 1987)

CONDITION OF STRUCTURE:

Overall condition of the structure is good.

RECOMMENDED POSTING:

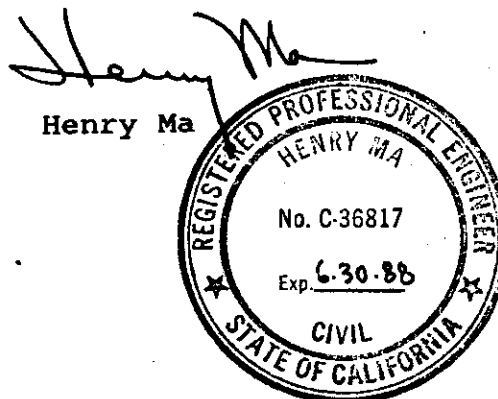
None

WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DN-OS 119 (REV. 1/74)

Bridge No. 55C-183
Location 7-ora-CR
Sta - Co - Km - Rd - City
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Belha Way at Silverado Canyon Road)

CONDITION RATING:

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

Encroachment - 2" steel pipe attach to east exterior.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

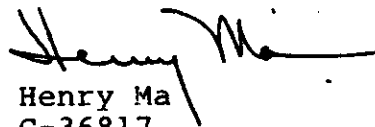
RECOMMENDED POSTING:

None

WORK RECOMMENDED:

None

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


Henry Ma
C-36817

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

Bridge No. 55C-183
Location 7-Oran-CR
Dist - Co - Rte - Pct - City
Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Belha Way at Silverado Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐
County
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

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-GS M19 (REV. 1/74)

Bridge No. 55C-183
Location 07-0ra-CR
Dist - Co - Rte - PM - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Belha Way at Silverado Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

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

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

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 No. **350-183**
Other No. **SV-18**
P.U.C. No. _____
Location **07-058-0-CR**
Dist - Co - Rte - PM - City _____
Date of Investigation **May 18, 1978**

SEE REVISED
ORIGINAL REPORT

Name **SILVERADO CANYON CREEK (Delha Way at Silverado Canyon Road)**
Lat. **33° - 44.8'** Long. **117° - 35.9'**

STRUCTURAL DATA AND HISTORY

Year Built **1963** By **Orange County** Contract No. **--**

Date of Revisions _____

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

Description: **Single span RC/PC slab, RC seated abutments supported on spread footings.**

Spans **21'**
Length **23'** Skew **21° 1t** Design LL **H 15**
Ratings: Inventory **HS 17.4/LF** Operating **HS 29.0/LF** Permit **PPPPP/LF**

DESCRIPTION - ON STRUCTURE

Bridge Width **12'**
Total Width **12'** Lanes **1** Tracks **None**
Median **None** Rail Type **MBGR (0000)**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **12'**
Wearing Surface **2" 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:

Bridge No. **55C-183**
Date **May 10, 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>7</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>7</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by District: Yes ☐ No ☒

AVERAGE DAILY TRAFFIC: 50 * (1978)

BYPASS DETOUR LENGTH: 99

CONDITION OF STRUCTURE: The structure is in good condition.

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

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

CEB:rah
cc: District 07-Local Assistance
Orange County