
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 : 55C0176
Facility Carried: KITTERMAN DR
Location : 0.1 MI S SLVRDO CYN 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 : Unknown
Year Widened : 1983
Length (m) : 9.1

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

Description of Structure : Simply supported single span treated timber stringers (8 each) with a timber deck, all supported by masonry rock abutments.

Span Configuration : (S) 1 @ 8.8 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20
Inventory Rating : 19.9 metric tons
Operating Rating : 29 metric tons
Permit Rating : PPPPP
Posting Load : Type 3 N/A english tons

Calculation Method : ALLOWABLE STRESS
Calculation Method : ALLOWABLE STRESS

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

DESCRIPTION ON STRUCTURE

Bridge width : (W) 0.2 m br, 3.8 m, 0.2 m br (E)

Total Width : 4.3 m

Net Width : 3.80 m

Rail Description : Timber

No. of Lanes : 1

Min. Vertical Clearance : Unimpaired

Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal with a cobbled bottom, grouted rock slopes through the site.

CONDITION OF STRUCTURE

The structure is in good condition.

MISCELLANEOUS

Pedestrian access beneath the structure is from the northwest 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 32		Timber Deck - w/ AC Overlay	2	40 sq.m.	40	0	0	0	0
01 111		Timber Open Girder/Beam	2	70 m.	70	0	0	0	0
01 215		Reinforced Conc Abutment	2	8 m.	8	0	0	0	0
01 256		Slope Protection	2	2 ea.	2	0	0	0	0
01 332		Timber Bridge Railing	2	18 m.	18		0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0176

Location: 0.1 MI S SLVRDO 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 55C0176
 (5) INVENTORY ROUTE(ON/UNDER) - ON 140 000000
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - SILVERADO CYN CREEK
 (7) FACILITY CARRIED - KITTERMAN DR
 (9) LOCATION - 0.1 MI S SLVRDO 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 16 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - WOOD OR TIMBER
 TYPE - STRINGER/MULTI-BEAM OR GDR CODE 7 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 TIMBER CODE 8
 (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
 (106) YEAR RECONSTRUCTED 1983
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 01 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 500
 (30) YEAR OF ADT 1998 (109) TRUCK ADT 1%
 (19) BYPASS, DETOUR LENGTH 2 KM

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

(48) LENGTH OF MAXIMUM SPAN 9.1 M
 (49) STRUCTURE LENGTH 9.1 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 3.8 M
 (52) DECK WIDTH OUT TO OUT 4.3 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 3.7 M
 (33) BRIDGE MEDIAN - CLOSED (NO BARRIER) 2
 (34) SKEW 0 DEG (35) STRUCTURE FLARED NO
 (10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M
 (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 3.8 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 = 62.5 *****

STATUS = FUNCTIONALLY OBSOLETE

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 - 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 *****

(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 5
 (63) OPERATING RATING METHOD - ALLOWABLE STRESS 2
 (64) OPERATING RATING - 29
 (65) INVENTORY RATING METHOD - ALLOWABLE STRESS 2
 (66) INVENTORY RATING - 19.9
 (70) BRIDGE POSTING - Equal to or above legal loads 5
 (41) STRUCTURE OPEN, POSTED OR CLOSED - A
 DESCRIPTION - OPEN, NO RESTRICTION

***** APPRAISAL *****

(67) STRUCTURAL EVALUATION 5
 (68) DECK GEOMETRY 2
 (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 - MISC STRUCTURAL WORK CODE 38
 (76) LENGTH OF STRUCTURE IMPROVEMENT 9.1 M
 (94) BRIDGE IMPROVEMENT COST \$47,000
 (95) ROADWAY IMPROVEMENT COST \$5,000
 (96) TOTAL PROJECT COST \$70,000
 (97) YEAR OF IMPROVEMENT COST ESTIMATE 1999
 (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 : 55C0176
Facility Carried: KITTERMAN DR
Location : 0.1 MI S SILVERADO CYN RD
City :
Inspection Date : 12-DEC-00

Bridge Inspection Report

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

Name : SILVERADO CYN CREEK

CONSTRUCTION INFORMATION

Year Built : Unknown Skew (degrees): 0
Year Widened : 1983 No. of Joints : 0
Length (m) : 9.1 No. of Hinges : 0

Description of Structure : Simply supported single span treated timber stringers with a timber deck, all supported by masonry rock abutments.

Span Configuration : (S) 1 @ 8.8 m (N) c/c

LOAD CAPACITY AND RATINGS

Design Live Load : MS - 18 OR HS - 20
Inventory Rating : 19.9 metric tons Calculation Method : ALLOWABLE STRESS
Operating Rating : 29 metric tons Calculation Method : ALLOWABLE STRESS
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) 0.2 m br, 3.8 m, 0.2 m br (E)
Total Width : 4.3 m Net Width : 3.80 m No. of Lanes : 1
Rail Description : 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 Inventory (NBI) Item 113 code has been revised from 6 to 8.

SCOUR

This report addresses hydraulic issues only. The structure 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. The bridge is single span with no history of scour related problems.

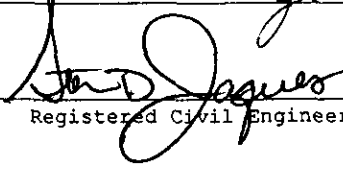
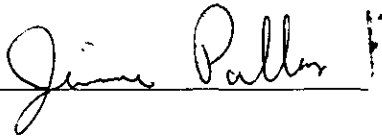
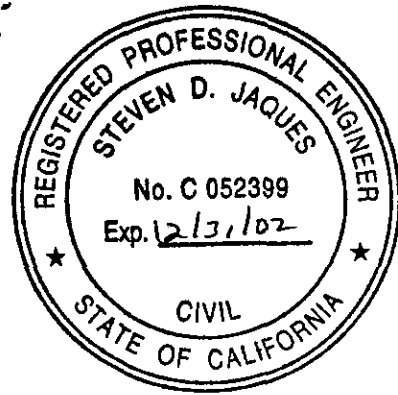
This report was generated based on an office investigation. A channel cross section was not taken at the time of this report.

Bridge No.: 55C0176

Location: 0.1 MI S SLVRDO CYN RD

Inspection Date: 12-DEC-00

Inspected By : Jimmie Pallares


Registered Civil Engineer

CC : TMRut
Orange County
M. Ogata, ABME
S. Jaques, Hydraulics

Bridge Number 55C-176

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 (Kitterman Drive, 0.1 mile 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:

There is minor damage on wooden bridge railing at north end of east rail.

Condition of structure is good.

WORK RECOMMENDED:

None.

ENCROACHMENT:

One 0.15 m diameter steel pipe supported on abutment wingwalls on east side.

M. Hadi Behrooj

By

G. P. Balinghasay

GPB:cd

cc: CDHarris
Orange County
WLindsey



INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0176	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]

BY:

Bridge No. 55C-176

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile 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 steel pipe supported on abutment wingwalls on east side.

HBD M 30

Bridge Number 55C-176

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 22, 1993

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile 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-MSB (REV. 1/91)

14W14

Bridge No. 55C - 176

Location 12 - Ora - CR

Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 18, 1991

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile south of Silverado Canyon Road)

Lat. 33° - 44.8'N Long. 117° - 38.2'W

Custodian County of Orange

Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built Unknown By County of Orange Contract No. Unknown

See Page 2

Designed by: County Plans Avail. @DOS

Description: Single span simply supported treated timber stringers and timber deck supported by gravity masonry rock abutments.

Spans (S) 29' (N)

Length 30' NBIS Bridge Length Yes Skew 15° ± Right

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load HS20-44 Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (W) 0.5'br 12.5' 0.5'br (E)

Total Width 14' Net Width 12.5' Lanes 1 Tracks None

Median None Rail Type Timber

0000

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

Deck Type 8 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 :	500	1991 Est	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 27T (Type 3)	Operating	39T (Type 3)	
	Permit PPPPP	Computation Method	MMIB, 1978	

CONDITION RATINGS:

Deck	8	Superstructure	8	Substructure	8
Channel & Channel Protection	8	Culvert	N	Widenable	No

APPRAISAL RATINGS:

Waterway Adequacy	9	Approach Roadway Alignment	6
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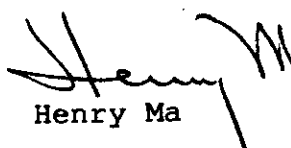
Date of Revisions _____

STRUCTURAL DATA AND HISTORY (Con't.)

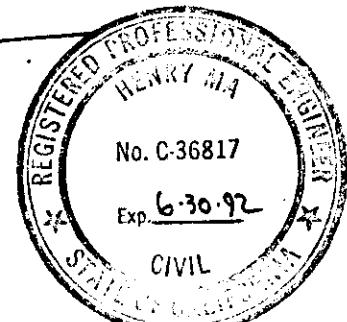
Date of Revision: 1983, timber superstructure and deck completely reconstructed.

CONDITION OF STRUCTURE:

Condition of the structure is good.


 Henry Ma

HM:ms

cc: INagai (2)
County of Orange

Bridge No. 55C - 176
Location 12 - Ora - CR
Dist. Co. Rte. City
Date of Investigation 4-11-89

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile South of Silverado Canyon Road)

CONDITION RATING:

Deck 7 Superstructure 7 Substr.&Pipes 8
Channel & Channel Protection 6 Culvert N Widenable? No

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE
CATEGORY A OTHER
UNDERWATER OFFICE

CONDITION OF STRUCTURE:

There is slight reflective cracking in the AC deck cover over timber deck planks.

There is a near continuous check in the outside face of the west exterior timber stringer. This appears to be a seasoning check near Knotts in the timber.

Condition of the structure is good.

REVISION:

Location: 12-Ora-CR
Condition Rating: Deck - 7
Superstructure - 7

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

Single span structure.

2 grouted rock masonry abutments (spread footing).

Henry Ma

HM:ms
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-176
Location 7-Ora-CR
Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

Name SILVERADO CANYON CREEK (Kitterman Dr., 0.1 mile S. of Silverado Canyon Rd)

CONDITION RATING:

Deck 8 Superstructure 8 Substr. & Pipes 8 Overall 4
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 - Superstructure 8
Channel & Channel Protection 6
Average Daily Traffic - 200 (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)

Henry Ma



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
SUPPLEMENTARY BRIDGE REPORT
DH-06 M19 (REV. 1/74)

Bridge No. 55C-176
Location 7-Ora-CR
San Joaquin Co.
Date of Investigation January 8, 1986

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile south of Silverado Canyon Road)

CONDITION RATING:

Deck (8) Superstructure 9 Substr. & Pipes 8 Overall 4
Channel & Channel Protection 8 Retaining Walls 4

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 8.

Encroachment - 6" steel pipe supported on abutment wingwalls on east side.

CONDITION OF STRUCTURE:

The overall condition of the structure is good.

RECOMMENDED POSTING:

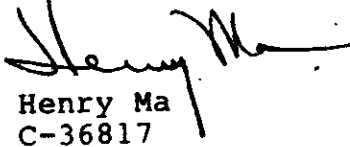
None

WORK RECOMMENDED:

None

HM:pdh

cc: INagai (2)
Orange County (2)


Henry Ma
C-36817

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
BRIDGE REPORT
DS-M58 (REV. 1/81)

14/11/14
Bridge No. 55C-176
Other No. _____
P.U.C. No. _____

Revised

SEE REVISED
ORIGINAL REPORT

Location 7-Ora-CR
Dist - Co - Rte - PM - City

Date of Investigation October 26, 1983

Name SILVERADO CANYON CREEK (Kitterman Drive, 0.1 mile S. of Silverado Canyon Rd.)
Lat. 33°-44.8' Long. 117°-38.2'

STRUCTURAL DATA AND HISTORY

Year Built Unknown By Orange County Contract No. Unknown

Date of Revisions 1983 - Timber superstructure replaced.

Designed by: B.D. ☐ Orange County Plans Avail. B. D.

Description: Single span 8 timber stringers, supported on existing gravity type masonry abutments. All timbers treated Douglas Fir.

Spans 1 @ 29' (c-c)

Length 30' Skew None Design LL H20-44

Ratings: Inventory 27.5T(Type 3) Operating 39.8T(Type 3) Permit PPPPP

DESCRIPTION - ON STRUCTURE (Shell Rte.: Yes ☐ No ☐)

Bridge Width 13.2'

Total Width 14.0' Lanes 1 Tracks None

Median None Rail Type Timber (0000)

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 13'

Wearing Surface 3" AC Deck Prot. Sys. None

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE (Shell Rte.: Yes ☐ No ☐)

Roadway Section None

Clearances: Vert. N Horiz. N Lt. N Rt. N

Lanes N Tracks N Pumpplant: None ☒ See Br. No. _____

Facilities Crossed Silverado Canyon Creek

cc:

DESCRIPTION - HYDRAULICS

Channel Natural earth

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

MAINTENANCE

Custodian Orange County Owner Orange County

ORIGINAL CONDITION RATING

Deck	<u>9</u>
Superstructure	<u>9</u>
Substructure & Pipes	<u>8</u>
Channel & Channel Protection	<u>8</u>
Retaining Walls	<u>N</u>
Approach Rdwy. Alignment	<u>6</u>
Estimated Remaining Life	<u>50</u>

ORIGINAL APPRAISAL

Overall	<u>4</u>
Deck Geometry	<u>4</u>
Underclearances	Vert. <u>N</u>
	Horiz. <u>N</u>
Safe Load Capacity	<u>9</u>
Waterway Adequacy	<u>7</u>
Approach Rdwy. Alignment	<u>8</u>

Widenable? Yes ☒ No ☐ Conditional ☐

Average Daily Traffic & Year 165 (Est. 1983)

Bypass Detour Length 99

Seismic Retrofit Not applicable.

Action Required: Yes ☐ No ☒

Posting Required: None ☒ Load ☐

Speed ☐

WORK DONE: The previously recommended work has been done. The superstructure was completely rehabilitated in kind with new creosoted timbers.

New 3" AC surfacing was placed on the deck with reinforcing fabric material over the leveling course.

CONDITION OF STRUCTURE: The overall condition of the structure is good.

PLANS AND DIMENSIONS: D.F. Creosoted stringers 8" X 20" X 30'
Stringer spacing 22"
Deck planks 6" X 18" X 14.5' solid
Abutment cap beam 4" X 12" X 16'
Rail posts 4" X 4"
Wheelguards 4" X 6" X 30'

BRIDGE No. 55C-176
SHEET 3 of 3
DATE October 26, 1983

LOAD CAPACITY:

Calculations were made in accordance with Manual for Maintenance Inspection of Bridges, 1978. The structure is safe for Legal Loads and Purple Extra Legal Loads.

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 M19 (REV. 1/74)

Bridge No. 55C-176
Location 07-0ra-CR
Dist - Co - Rte - PM - City
Date of Investigation October 19, 1981

Name SILVERADO CANYON CREEK (Kitterman Dr., 0.1 mile south of Silverado Canyon Road)

CONDITION RATING:

APPRAISAL RATING:

Deck (3) Superstructure (3) Substr. & Pipes 6 Overall 3
Channel & Channel Protection 6 Retaining Walls (N)

Widenable? Yes ☐ No ☒ Conditional ☐

County:
Action Required by District Yes ☒ No ☐

An inspection was made at 1000 hours this A.M. accompanied by Messrs. Bill Talley and Gene Foster of the Orange County Environmental Management Agency to determine the extent of dry rot in the deck planking and stringers.

CONDITION OF STRUCTURE:

The AC deck surfacing has severe transverse cracks over the deck plank joints.

Many of the deck planks had severe dry rot and one had failed causing a 16" x 24" hole in the roadway surface which had been covered with a sheet of plywood.

The two exterior stringers (7 3/4" x 16 1/2" x 30' ± long) have dry rot and require replacement.

The structure is in poor condition and the rehabilitation work should be done immediately when timber materials are available.

RECOMMENDED POSTING:

The structure should be temporarily posted for 3 TONS until repairs are completed.

RECOMMENDATIONS:

1. Replace the two exterior stringers and drill the interior stringers to assure they are in good condition.
2. Replace the bridge deck planks.
3. Resurface the bridge deck with new AC overlay.

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

E. L. Neff
E. L. Neff
C 28702

SEE REVISED
ORIGINAL REPORT

Bridge No. **558-176**
Other No. **SV-15**
P.U.C. No. _____
Location **07-098-0-02**
Dist - Co - Rte - PM - City
Date of Investigation **May 11, 1978**

Name **Silverado Canyon Creek (Kitterman Dr., 0.1 mi S. of Silverado Cyn Rd.)**
Lat. **33°-44.8'** Long. **117°-38.2'**

STRUCTURAL DATA AND HISTORY

Year Built **Unknown** By **Orange County** Contract No. **Unknown**
Date of Revisions _____
Designed by: B.D. ☐ **County** Plans Avail. ☐ **None**

Description: **Single span 8 timber stringers, supported on gravity type masonry abutments. All timbers treated Douglas Fir.**

Spans **29'**
Length **30'** Skew **None** Design LL **---**
Ratings: Inventory **16.7T (Type 3)** Operating **24.0T (Type 3)** Permit **00000**

DESCRIPTION - ON STRUCTURE

Bridge Width **13.2'**
Total Width **13.5'** Lanes **1** Tracks **None**
Median **None** Rail Type **Timber (0000)**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **13'**
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. 35C-176
Date May 11, 1978

DESCRIPTION - HYDRAULICS

Channel Natural

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

MAINTENANCE

Custodian County Owner County

**ORIGINAL
CONDITION RATING**

Deck	<u>6</u>
Superstructure	<u>6</u>
Substructure & Pipes	<u>6</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>---</u>
Approach Rdwy. Alignment	<u>6</u>
Estimated Remaining Life	<u>15</u>

**ORIGINAL
APPRAISAL**

Overall	<u>6</u>
Deck Geometry	<u>4</u>
Underclearances	Vert. <u>---</u>
	Horiz. <u>---</u>
Safe Load Capacity	<u>5</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>9</u>

Widenable? Yes ☒ No ☐ Conditional ☐

AVERAGE DAILY TRAFFIC:

CONDITION OF STRUCTURE:

EX. PASS RIVER:

PLANS & DIMENSIONS:

LOAD CAPACITY:

County
Action Required by District: Yes ☐ No ☒

150 • (1978)

The structure is in good condition.

99

**7 3/4"x16" Stringers at 1'-10" c.c.
total 8.5"x16" solid decking, 2"A.C.
Hand calculated from field measure-
ments.**

J. R. Martin
Original signed by

By C. E. Brunsard

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