
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 : 55C0065
Facility Carried: SANTIAGO CYN RD
Location : 4.4 mi se/o JAMBOREE RD.
City :
Inspection Date : 05-JUN-01
Inspection Type

Bridge Inspection Report

Routine ☒ Group A ☐ Underwater ☐ Special ☐ Other ☐

Name : LIMESTON CANYON

CONSTRUCTION INFORMATION

Year Built : 1931
Year Widened : 1955
Length (m) : 7.9
Skew (degrees): 0
No. of Joints : 0
No. of Hinges : 0

Description of Structure : Double 3.7 m x 3.0 m x 12.8 m RC box culvert (grade top) beneath 0.3 m of earth fill.

Span Configuration : (W) 2 @ 3.7 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load : OTHER OR UNKNOWN
Inventory Rating : 32.6 metric tons
Operating Rating : 53.5 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) 0.2 m br, 2 @ 6.2 m, 0.2 m br (N)
Total Width : 13.1 m
Net Width : 12.50 m
Rail Description : MBGR
Min. Vertical Clearance : Unimpaired
No. of Lanes : 2
Rail Code : 0000

DESCRIPTION UNDER STRUCTURE

Channel Description : Natural earth trapezoidal.

CONDITION OF STRUCTURE

The previously reported separation (0 to 0.1 m, bottom to top) of northeast wingwall from end of culvert remains unchanged.

Otherwise, the structure is in good condition.

MISCELLANEOUS

There is an OC southeast of the structure. Contract plans have been requested from the County for the OC.

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	241	Reinforced Concrete Culvert	2	13 m.	13		0	0	0
01	337	Metal Railing (W6X25 Posts)	2	18 m.	18	0	0	0	0

WORK RECOMMENDATIONS - NONE

Bridge No.: 55C0065

Location: 4.4 mi se/o JAMBOREE RD.

Inspection Date: 05-JUN-01

Inspected By : M. Ogata

M. Ogata
Registered Civil Engineer



CC : TMRut
Orange County

Bridge No.: 55C0065

Location: 4.4 mi se/o JAMBOREE RD.

Inspection Date: 05-JUN-01

STRUCTURE INVENTORY AND APPRAISAL REPORT

***** IDENTIFICATION *****

(1) STATE NAME - CALIFORNIA 069
 (8) STRUCTURE NUMBER 55C0065
 (5) INVENTORY ROUTE (ON/UNDER) - ON 140 0L0300
 (2) HIGHWAY AGENCY DISTRICT 12
 (3) COUNTY CODE 059 (4) PLACE CODE 00000
 (6) FEATURE INTERSECTED - LIMESTONE CANYON
 (7) FACILITY CARRIED - SANTIAGO CYN RD
 (9) LOCATION - 4.4 mi se/o JAMBOREE RD.
 (11) MILEPOINT/KILOMETERPOINT 0
 (12) BASE HIGHWAY NETWORK - NOT ON NET 0
 (13) LRS INVENTORY ROUTE & SUBROUTE
 (16) LATITUDE 33 DEG 45 MIN 36 SEC
 (17) LONGITUDE 117 DEG 42 MIN 14 SEC
 (98) BORDER BRIDGE STATE CODE % SHARE %
 (99) BORDER BRIDGE STRUCTURE NUMBER

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

(43) STRUCTURE TYPE MAIN: MATERIAL - CONCRETE
 TYPE - CULVERT CODE 1 19
 (44) STRUCTURE TYPE APPR: MATERIAL -
 TYPE - CODE
 (45) NUMBER OF SPANS IN MAIN UNIT 2
 (46) NUMBER OF APPROACH SPANS 0
 (107) DECK STRUCTURE TYPE NOT APPLICABLE CODE N
 (108) WEARING SURFACE / PROTECTIVE SYSTEM:
 A) TYPE OF WEARING SURFACE - NOT APPLICABLE CODE N
 B) TYPE OF MEMBRANE - NOT APPLICABLE CODE N
 C) TYPE OF DECK PROTECTION - NOT APPLICABLE CODE N

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

(27) YEAR BUILT 1931
 (106) YEAR RECONSTRUCTED 1955
 (42) TYPE OF SERVICE: ON - HIGHWAY 1
 UNDER - WATERWAY 5
 (28) LANES: ON STRUCTURE 02 UNDER STRUCTURE
 (29) AVERAGE DAILY TRAFFIC 37000
 (30) YEAR OF ADT 1999 (109) TRUCK ADT 3%
 (19) BYPASS, DETOUR LENGTH 23 KM

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

(48) LENGTH OF MAXIMUM SPAN 3.7 M
 (49) STRUCTURE LENGTH 7.9 M
 (50) CURB OR SIDEWALK: LEFT 0 M RIGHT 0 M
 (51) BRIDGE ROADWAY WIDTH CURB TO CURB 12.5 M
 (52) DECK WIDTH OUT TO OUT 13.1 M
 (32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 12.5 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 12.5 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 = 81.0 *****

STATUS =

HEALTH INDEX = 100

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

(112) NBIS BRIDGE LENGTH - YES Y
 (104) HIGHWAY SYSTEM - NOT ON NHS 0
 (26) FUNCTIONAL CLASS - MINOR ARTERIAL URBAN 16
 (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 N
 (59) SUPERSTRUCTURE N
 (60) SUBSTRUCTURE N
 (61) CHANNEL & CHANNEL PROTECTION 8
 (62) CULVERTS 8

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

(31) DESIGN LOAD - OTHER OR UNKNOWN 0
 (63) OPERATING RATING METHOD - LOAD FACTOR 1
 (64) OPERATING RATING - 53.5
 (65) INVENTORY RATING METHOD - LOAD FACTOR 1
 (66) INVENTORY RATING - 32.6
 (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 8
 (68) DECK GEOMETRY 5
 (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
 (71) WATER ADEQUACY 8
 (72) APPROACH ROADWAY ALIGNMENT 8
 (36) TRAFFIC SAFETY FEATURES 0000
 (113) SCOUR CRITICAL BRIDGES 8

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

(75) TYPE OF WORK - CODE
 (76) LENGTH OF STRUCTURE IMPROVEMENT M
 (94) BRIDGE IMPROVEMENT COST
 (95) ROADWAY IMPROVEMENT COST
 (96) TOTAL PROJECT COST
 (97) YEAR OF IMPROVEMENT COST ESTIMATE
 (114) FUTURE ADT 74000
 (115) YEAR OF FUTURE ADT 2019

***** INSPECTIONS *****

(90) INSPECTION DATE 06/01 (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-65

TYPE OF INVESTIGATION/REPORT			
BIENNIAL	<u>X</u>	DAMAGE	___
CATEGORY A	___	OTHER	___
UNDERWATER	___	OFFICE	___

Location 12 - Ora - FAS L030-CR
Dist.-Co.-Rte.-City

Date of Investigation July 19, 1995

Name LIMESTONE CANYON (Santiago Canyon Road, 4.5 miles southeast of Chapman Avenue)

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 A3 is appropriate.

CONDITION OF STRUCTURE:

- A. Cracks have developed where widened portion of the culvert meets the old culvert.
- B. Heavy cracking, 1.6 mm $\pm$, have also developed in the middle wall, running the entire height of the wall.
- C. Previously reported separation (0 to 0.1 m, bottom to top) of northeast wingwall from end of culvert remains unchanged.

Condition of structure is good.

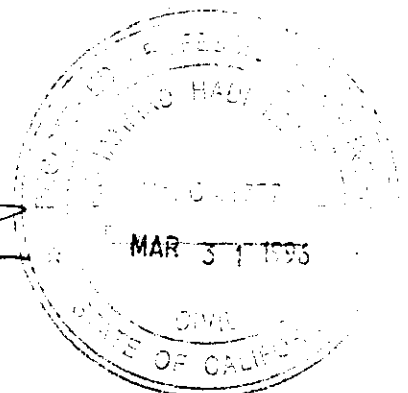
WORK RECOMMENDED:

Seal separation in location "C" to prevent approach from undermining.

ENCROACHMENT:

One 0.30 m welded steel pipe attached to south exterior.

By M. Hadi Behrooj
G. P. Balinghasay



GPB:ms
cc: CDHarris
Orange County
WLindsey

INFORMATION ONLY - NOT FOR UPDATE

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0065	01	071995
1	9	11
8		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]

08/02/95

BY:

Bridge No. 55C-65

Name Limestone Canyon (Santiago Canyon Road, 4.5 miles southeast of Chapman Avenue) Location 12-Ora-FAS L030-CR
Dist.-Co.-Rte.-City

SUMMARY OF ENCROACHMENTS

Permit No. and Permittee	Date	Description & Location on Bridge
	Prior to 7-19-95	One 0.30 m welded steel pipe attached to south exterior.

HBD M 30

Bridge Number 55C-65

TYPE OF INVESTIGATION/REPORT

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

Location 12 - Ora - FAS L030-CR
Dist.-Co.-Rte.-City

Date of Investigation April 15, 1993

Name LIMESTONE CANYON (Santiago Canyon Road, 4.5 miles southeast of Chapman Avenue)

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

BRIDGE NUMBER	FRAME	INSPECTION DATE
55C0065	01	041593
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

14V53

Bridge No. 55C - 65

DS-M58 (REV. 1/91)

Location 12 - Ora - FAS L030-CR
Dist Co Rte City

REVISED ORIGINAL REPORT

Date of Investigation April 17, 1991

Name LIMESTONE CANYON (Santiago Canyon Road, 4.5 miles southeast of Chapman Avenue)

Lat. 33° - 45.6'N Long. 117° - 42.2'W

Custodian County of Orange Owner County of Orange

STRUCTURAL DATA AND HISTORY

Year Built 1931 By County of Orange Contract No. Unknown
See Page 2

Designed by: County Plans Avail. @County

Description: Double 12' x 10' x 42' RC box culvert (grade top culvert) on spread footing under 1'± of fill and AC surfacing.

Spans (W) 2 @ 12' clear (E)

Length 26' NBIS Bridge Length Yes Skew None

Number Of Intermediate Joints: @Hinges None @Bents None

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

Design Live Load Unknown Design Method Unknown

DESCRIPTION - ON STRUCTURE

Bridge Width (S) 0.7'br 41' 0.7'br (N)

Total Width 43' Net Width 41' Lanes 2 Tracks None

Median None Rail Type Metal beam

0000

Vert. Clearance over deck Unimpaired Appr. Rdwy. Width 41'

Deck Type N Wearing Surface/Prot. Sys. NNN

Alignment Tangent

DESCRIPTION - UNDER STRUCTURE

Roadway Section None

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

Lanes Tracks

Facilities Crossed Limestone Canyon (E14)

April 17, 1991

DESCRIPTION - HYDRAULICS

Channel Natural wash with gravel bottom

Navigable: Yes ☐ No ☒ Clearances: Vert. Horiz.Pier/Abutment Protection (For Navigation) ☐

TRAFFIC INFORMATION

	DECK	YEAR	UNDER	YEAR
Average Daily Traffic & Year :	14,000	1989	N	
Average Daily Traffic (Future) :	16,000 Est	2010	N	
Average Daily Trucks (% OF ADT) :	3% Est		N	
Bypass Detour Length	14 miles		N	
Shell Route:	No		No	
Functional Classification :	07		N	
LOAD RATINGS:	Inventory HS 20	Operating	HS 33	
	Permit PPPPP	Computation Method	Assigned	

CONDITION RATINGS:

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

APPRAISAL RATINGS:

Waterway Adequacy	8	Approach Roadway Alignment	8
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Date of Revisions

STRUCTURAL DATA AND HISTORY (Con't.)

Date of Revision: Unknown, lengthened 15'± north end.

CONDITION OF STRUCTURE:

Previously noted separation (0" to 4 1/2", bottom to top) of northeast wingwall from end of culvert remains unchanged.

Condition of the structure is good.

ENCROACHMENT:

12" welded steel pipe attached to south exterior

Henry Ma



HM:ms

cc: INagai (2)
County of Orange

SUPPLEMENTARY BRIDGE REPORT

DS-M19 (REV. 1/89)

Bridge No. 55C-65

Location 12-Ora-FAS L030-CR
Dist. Co. Rte. City

Date of Investigation 4-13-89

Name LIMESTONE CANYON (Santiago Canyon Road, 4.8 miles S. of Chapman Avenue)

CONDITION RATING:

Deck N Superstructure 7 Substr.&Pipes 7

Channel & Channel Protection 6 Culvert N Widenable? Yes

TYPE OF INVESTIGATION/REPORT

BIENNIAL X DAMAGE

CATEGORY A OTHER

UNDERWATER OFFICE

CONDITION OF STRUCTURE:

Condition of the structure is unchanged and is good.

REVISION:

Location: 12-Ora-FAS L030-CR
ADT: 14,000 (1988)

WORK RECOMMENDED:

None.

RECOMMENDED POSTING:

None.

SUBSTRUCTURE CODING UPDATE:

RC box culvert on spread footing.

Henry Ma

HM:ms

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



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

Bridge No. 55C-65
Location 7-Ora-FAS L030-CR
Dist - Co - Rte - PM - City
Date of Investigation April 20, 1987

Name LIMESTONE CANYON (Santiago Canyon Rd., 4.8 miles S. of Chapman Ave.)

CONDITION RATING:		APPRAISAL RATING:	
N	7	7	3
Deck	Superstructure	Substr. & Pipes	Overall
	6	N	
Channel & Channel Protection	Retaining Walls		

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:

Name: LIMESTON CANYON (Santiago Canyon Rd., 4.8 miles S. of Chapman Ave.)
Average Daily Traffic - 5,000 (1985)

CONDITION OF STRUCTURE:

The vertical joint between the structure and the northeast wingwall remains opened 4 1/2" at the top of wingwall, there is minimal loss of embankment material. 0

Overall condition of the structure is good.

RECOMMENDED POSTING:

None

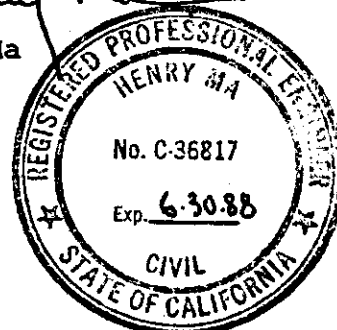
WORK RECOMMENDED:

None

HM:pht

cc: INagai (2)
Orange County (2)

Henry Ma



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

Bridge No. 55C-65
Location 7-Ora-FAS L030-CR
Stn - Co - Rte - Pk - City (On Deck)
Date of Investigation January 8, 1986

Name SANTIAGO CANYON CREEK (Santiago Canyon Rd., 4.75 mile S. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 7 Substr. & Pipes 7 Overall 3
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

CONDITION OF STRUCTURE:

The vertical joint between the structure and the northeast wingwall is now opened to 4½" at the top of wingwall.

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 MIS (REV. 1/74)

Bridge No. 55C-65
Location 7-Ora-FAU L030-CR
Dist - Co - Rte - PM - City (On Deck)
Date of investigation SEPTEMBER 29, 1983

Name SANTIAGO CANYON CREEK (Santiago Canyon Rd., 4.75 mile S. of Chapman Ave.)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 7 Substr. & Pipes 7 Overall 3
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

County
Action Required by District Yes ☐ No ☒

PRIORITY

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

CONDITION OF STRUCTURE:

There is no change in the measurement of the vertical joint between the structure and the northeast wingwall (top is still open at 4").

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-Q3 M19 (REV. 1/74)

Bridge No. 55C-65
Location 07-Ora-FAS L030-CR (on deck)
Dist - Co - Rte - PM - City
Date of Investigation July 29, 1981

Name SANTIAGO CANYON CREEK (Santiago Canyon Rd., 4.75 miles southeast of Chapman Avenue)

CONDITION RATING:

APPRAISAL RATING:

Deck N Superstructure 7 Substr. & Pipes 7 Overall 3
Channel & Channel Protection 6 Retaining Walls N

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by ^{County:} ~~District~~ Yes ☐ No ☒

WORK DONE:

The previously recommended work has been done.

CONDITION OF STRUCTURE:

There is no change in the measurement of the joint between the structure and the northeast wingwall (top is still open at 4").

The overall condition of the structure is good.

RECOMMENDED POSTING:

None.

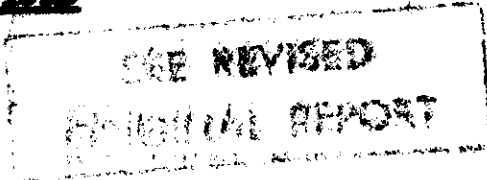
E. L. Neff

E. L. Neff
C 28703

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

Bridge No. **55C-65**
Other No. _____
P.U.C. No. _____
Location **07-Oran-PAS-L030**
Dist - Co - Rte - PM - City
Date of Investigation **August 13, 1980**

REVISED



Name **SANTIAGO CANYON CREEK (Santiago Canyon Road-4.75 miles southeastly of Chapman Avenue)**
Lat. **N33°-45.6'** Long. **W117°-42.2'**

STRUCTURAL DATA AND HISTORY

Year Built **1931** By **Orange County** Contract No. **Unknown**
Date of Revisions **Unknown - Widened**
Designed by: B.D. ☐ **Orange County** Plans Avail. @ **County**
Description: **Double 12'x 10'x 42' gradetop RCB with 1'+ AC and dirt cover.**

Spans **2 @ 12' (clear normal)**
Length **26'** Skew **None** Design LL **Widen** **Orig) Unknown**
Ratings: Inventory **H 15/Assigned** Operating **H 25/Assigned** Permit **PPPPP/Assigned**

DESCRIPTION - ON STRUCTURE

Bridge Width **.7'cu; 40.6'; .7'cu**
Total Width **42'** Lanes **2** Tracks **None**
Median **None** Rail Type **Metal Beam Guard Rail (0000)**
Vert. Clearance over deck **Unimpaired** Appr. Rdwy. Width **40'**
Wearing Surface **AC (3"+)** Deck Seal **None**
Alignment **Tangent between curves**

DESCRIPTION - UNDER STRUCTURE

Roadway Section **None**
Clearances: Vert. _____ Horiz. _____ Lt. _____ Rt. _____
Lanes _____ Tracks _____ Pumpplant: None ☒ See Br. No. _____
Facilities Crossed **Santiago Canyon Creek**

cc:

Bridge No. 55C-65
Date August 13, 1980

DESCRIPTION - HYDRAULICS

Channel Well defined, unimproved and weed filled

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

MAINTENANCE

Custodian Orange County Owner Same

**ORIGINAL
CONDITION RATING**

Deck	<u>N</u>
Superstructure	<u>7</u>
Substructure & Pipes	<u>7</u>
Channel & Channel Protection	<u>6</u>
Retaining Walls	<u>N</u>
Approach Rdwy. Alignment	<u>9</u>
Estimated Remaining Life	<u>40</u>

**ORIGINAL
APPRAISAL**

Overall	<u>3</u>
Deck Geometry	<u>7</u>
Underclearances	Vert. <u>N</u>
	Horiz. <u>N</u>
Safe Load Capacity	<u>5</u>
Waterway Adequacy	<u>6</u>
Approach Rdwy. Alignment	<u>6</u>

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by County: District Yes ☒ No ☐

AVERAGE DAILY TRAFFIC - 7,000 (Estimated 1980)

BYPASS DETOUR LENGTH - 36 miles

ENCROACHMENTS - 12" ϕ steel pipe attached to the southerly side of the structure.

CONDITION OF STRUCTURE - There is minor erosion at the northwest and southwest corners of the structure. The joint between the structure and the northeast wingwall is opening up (1" $\pm$ at the bottom of and 4" $\pm$ at the top of the wingwall). Otherwise, the structure is in good condition.

LOAD CAPACITY - The traffic consists of all types of vehicles traveling at 70 mph+. The original structure was built in 1931, hence a design live load of H-15 was assumed. Based on the above and the condition of the structure, the ratings shown were assigned.

RECOMMENDATIONS - Repair the erosion at the northwest and southwest corners of the structure.

BRIDGE No. **55C-65**
SHEET **3 of 3**
DATE **August 13, 1980**

RECOMMENDED POSTING - None.

Original signed by
FRANK J. WALLISER
C 019767

FJW:11
cc:DRHiggins
Orange County (2)

Built 1931 by Ora Co.
Widen by Ora Co.
Dbl. 12' X 10' X 42' RCB

Des. L.L. {orig-
 {widen-

No. 1 - ~~CODER~~ 8/29/80

No. 2 - ~~EDK~~

No. 3 - BR. BOOK

BRIDGE NO. 55C-65

LOCATION 07-Ora-FAS-L030

NAME : SANTIAGO CYN CREEK

Assigned (Santiago Cyn Rd)

RATING

FACTOR

VEHICLE

INVENTORY

H15

OPERATING

H25

PERMIT

P

5 AXLE

P

7 AXLE

P

9 AXLE

P

11 AXLE

P

13 AXLE

NOTES: AC =

3"±

RATED BY:

Frank J. Walliser

DATE :

Aug 13, 1980

1200C

Bridge No. 55C-65
Location 07-Ora-FAS 1279-19.7
Dist - Co - Rte - PM - City
Date of Investigation June 16, 1976

Name SANTIAGO CANYON CREEK

CONDITION RATING:

APPRAISAL RATING:

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

Widenable? Yes ☒ No ☐ Conditional ☐

County

Action Required by ~~CHS~~ CHS: Yes ☐ No ☒

CONDITION OF STRUCTURE:

The structure is in good condition.

RAIL TYPE:

Metal Beam (1000)

RECOMMENDATIONS:

None.

A. L. Clemence

A. L. Clemence

ALC:ic

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

Bridge No. 55C-65

Location 7-0ra-1279-19.7
Dist - Co - Rte - PM - City

Date of Investigation July 16, 1974

Name SANTIAGO CANYON CREEK

CONDITION RATING:

APPRAISAL RATING:

Deck NA Superstructure 8-F8 Substr. & Pipes 8-F8 Overall 8-F8
Channel & Channel Protection 7-F7 Retaining Walls 6-F7

Widenable? Yes ☒ No ☐ Conditional ☐

Action Required by District: Yes ☐ No ☒

CONDITION OF STRUCTURE:

The overall condition is good. No changes were noted.

CAPACITY RATING:

Unchanged. P-13

RECOMMENDATIONS:

None.

Original signed by

W. R. Baker

WRB:ah
cc: Drange County (2)

STATE OF CALIFORNIA

BRIDGE REPORT

LI- 10

Sheet 1 of 3Bridge No. 55C-065Date of Investigation 3/28/72Location 7-ORA-FAS 1279- 19.7
DIST-CO-RTS - CITY - P.M.Name Santiago Canyon CreekLocation On Santiago Canyon Rd. 2.2 mi NWly of Silverado Canyon Rd.Latitude 33°-45.6' Longitude 117°-42.2' DOD Rd SECTION Br. LETTERCustodian County Owner County

CLASSIFICATION

Federal Aid System 07 Administrative 4 Functional 3STRUCTURAL DATA AND HISTORY
Widened Circa 1955Year Built 1931 By County Cont. No. - FAP No. -Designed by County Plans Avail Yes at CountySpans 2@12.8' Length 26' Skew 0°Description RC box culvert (2 cell, 12'x10')

On Structure

Roadway Section 0.7'cu, 9.0'sh, 2@12.0', 7.6'sh, 0.7'cu Total Width 42'-4"
Flex FlexRail Type Lt. beam Rt. beam Median None Lanes 2 Tracks -
NO. NO.Clearances: Vert. Unimpaired Horiz. 41'-9" PUC No. -Design LL H20 (Equivalent) Capacity Rating P-13

Under Structure

Roadway Section - Lanes - Tracks -
NO. NO.Clearances: Vert. - Horiz. - PUC No. -

HYDRAULIC STRUCTURE

Report? Yes ☒ No. ☐ Nav. Control Yes ☐ No. ☒ Clear. Diag. Yes ☐ No ☒Relief Structures Orange County Flood Control District

APPRAISAL OF NON-STRUCTURAL FACTORS

Deck Geometry 8 Approach Alignment 7Waterway Adequacy 7 Clearances: Vert. 9 Horiz. 8

STATE OF CALIFORNIA
BRIDGE REPORT

Sheet2..... of3.....

Bridge No.55C-065.....

Date of Investigation ...3/28/72..

ADT1000..... Year 1971.....

RATING OF CONDITION:

Deck8.....

Substructure8.....

Superstructure8.....

Overall8.....

EXISTING POSTING:

There is no record of posting and there are no limiting signs at the structure.

CONDITION OF STRUCTURE:

This is an old concrete box culvert that has been widened. It is in good condition.

There is a single hairline crack near the center of the old section in the walls and soffit.

There are minor rock pockets or grout leaks in the soffit.

The right wingwall at Abutment 1 is leaning away from the structure. There is a 2 inch gap at the soffit elevation and a 1/4 inch gap at the bottom.

ENCHROACHMENT:

1- 12 inch steel pipe on the left side of the structure.

CHANNEL:

The channel is natural with a sand and gravel bed. There are RC wingwalls on both sides. The streambed is 12 inches below the level of the slab on the downstream side.

BRIDGE No. 55C-065
SHEET 3 of 3
DATE 3/28/72

CAPACITY:

The structure is considered safe for legal loads and a P-13 overload by design and inspection.

POSTING RECOMMENDATION:

None.



W.R. SCHOTT
C.E. Lic. No. 13592

