

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0670

Facility Carried: HICKS CNYN HAUL RD

Location : 4.6 MI. SE/O CHAPMAN AVE

City

Inspection Date: 05/06/2019

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: HICKS CANYON HAUL ROAD OC

CONSTRUCTION INFORMATION

Year Built : 1995 Skew (degrees): 0 Year Modified: N/A No. of Joints : 0 Length (m) : 36.5 No. of Hinges : 0

Structure Description: Simply supported two span PC/PS concrete channel girders (3 each)

with a continuous composite CIP concrete deck, and with an RC two column bent, and with RC open end diaphragm abutments, all supported

upon driven Class 70C piles.

Span Configuration : (S) 42.7 feet, 73.2 feet (N).

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: RF=1.00 =>32.4 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT
Operating Rating: RF=1.67 =>54.1 metric tons Calculation Method: FIELD EVAL/ENG JUDGMENT

Permit Rating : PGGGG

Posting Load : Type 3: <u>Legal</u> Type 3S2: <u>Legal</u> Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.65 feet br, 2.3 feet sw, 24.0 feet, 2.3 feet sw, 0.65 feet br (E).

Total Width: 9.1 m Net Width: 7.3 m No. of Lanes: 2 Speed: 40 mph

Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 1000

DESCRIPTION UNDER STRUCTURE

Facility Name	Func	Lanes	Horiz Clr	Vert Clr		
raciately Name	Class		(m)	(m)		
Santiago Canyon Road	14	2	18.30	4.80		

Channel Description: Under span #1 natural with riprap under the structure.

NOTICE

The bridge inspection condition assessment used for this inspection is based on the American Association of State Highway and Transportation Officials (AASHTO) Bridge Element Inspection Manual 2013 as defined in Moving Ahead for Progress in the 21st Century (MAP-21) federal law. The new element inspection methodology may result in changes to related condition and appraisal ratings on the bridge without significant physical changes at the bridge.

The element condition information contained in this report represents the current condition of the bridge based on the most recent routine and special inspections. Some of the notes presented below may be from an inspection that occurred prior to the date noted in this report. Refer to the Scope and Access section of this inspection report for a description of which portions of the bridge were inspected on this date.

INSPECTION COMMENTARY

SCOPE AND ACCESS

A complete routine inspection was performed by walking on and around the bridge to inspect all visible elements of the bridge structure. Bridge deck was inspected by walking on shoulder. Soffit and all substructure were inspected by walking underneath the bridge.

Printed on: Thursday 08/22/2019 08:05 AM 55C0670/AAAG/52703

INSPECTION COMMENTARY

The channel is dry at the time of inspection.

There is no need for a special equipment to inspect this structure.

DECK AND ROADWAY

The structure is closed to the public on top.

The AC roadway is at both of the approach and departure lanes with cracks and settlement about 1.0 to 2.0 inches deep.

SUPERSTRUCTURE

There are two vertical clearance signs at (15Ft-9In) facing both westbound and eastbound traffic.

There is no notable distress observed at the time of inspection.

SUBSTRUCTURE

There is no notable distress observed at the time of inspection.

SAFE LOAD CAPACITY

A Load Rating Summary Sheet is achieved on 07/17/2018 for this structure. The current rating has been assigned in accordance with SM & I procedures for this structure. Based on the field conditions and load history, the structure is adequate to carry legal loads.

Elem No.	Defect Defect /Prot	Element Description	Env	Total Qty	Units		each Co St. 2		
15	Te	op Flange-PS Conc.	2	333	sq.m	333	0	0	0
(15)									
There	were no signif	icant defects noted.							
	511 De	eck Wearing Surface-Concrete	2	266	sq.m	266	0	0	0
(16-51	11)								
There	were no signif	icant defects noted.							
109	G:	irder/Beam-PS Conc.	2	105	m	105	0	0	0
(109) There	were no signif	icant defects noted.							
205	Co	olumn-RC	2	2	each	2	0	0	0
(205)									
There	were no signif	icant defects noted.							
215	Al	outment-RC	2	24	m	24	0	0	0
(215)	***								
There	were no signif	icant defects noted.							
226	P	ile-PS Conc.	2	1	ea.	1	0	0	0
(226)				-					
		included to indicate the presensection. No indication of p							
234		ier Cap-RC		18	m	18	0	0	0

Printed on: Thursday 08/22/2019 08:05 AM

	SPECTION RATINGS AND COMMEN ct Defect Element Description t		Total Qty	Units		each Co		
There were	no significant defects noted.				***			
312	Bearing-Enclosed	2	2	each	2	0	0	0
	s were not exposed for visual ructure element.	inspection. No ind	icatio	n of be	earing	distress	was no	ted in
331	Railing-RC	. 2	72	m	72	0	0	0
(331) There were	no significant defects noted.					•		

WORK RECOMMENDATIONS - NONE

Team Leader : Edwin Mah

Report Author: Nelson N. Vo

Inspected By : NN.Vo/E.Mah

Edwin Mah (Registered Civil Engineer) (Date)

PROFESSIONAL
Edwin
Mah

No. 27141

03/31/2021

CIVIL

OF CALIFORNIA

STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
	STATE NAME- CALIFORNIA 069	7	PAINT CONDITION INDEX = N/A
(8)	STRUCTURE NUMBER 55C0670	•	PAINT CONDITION INDEX = N/A
(5)	INVENTORY ROUTE (ON/UNDER) - ON 18800000		
(2)	HIGHWAY AGENCY DISTRICT 12		
(3)	COUNTY CODE 059 (4) PLACE CODE 00000	*	******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- SANTIAGO CANYON ROAD	(112) NE	BIS BRIDGE LENGTH- YES Y
	FACILITY CARRIED- HICKS CNYN HAUL RD	(104) H	IGHWAY SYSTEM- NOT ON NHS 0
	LOCATION- 4.6 MI. SE/O CHAPMAN AVE.	(26) FU	UNCTIONAL CLASS- LOCAL URBAN 19
	MILEPOINT/KILOMETERPOINT 0		EFENSE HIGHWAY- NOT STRAHNET 0
	·		
	BASE HIGHWAY NETWORK- NOT ON NET 0		
	LRS INVENTORY ROUTE & SUBROUTE		IRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 45 MIN 34.8 SEC		EMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 42 MIN 10.15 SEC		ED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %		ESIGNATED NATIONAL NETWORK - NOT ON NET 0
(99)	BORDER BRIDGE STRUCTURE NUMBER		OLL- ON FREE ROAD 3
		(21) M	AINTAIN- COUNTY HIGHWAY AGENCY 02
•	******* STRUCTURE TYPE AND MATERIAL *******	(22) 01	WNER- COUNTY HIGHWAY AGENCY 02
	STRUCTURE TYPE MAIN:MATERIAL- PRESTRESS CONC TYPE- STRINGER/MULTI-BEAM OR GDR CODE 502		ISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA	**	******** CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000	(58) DI	ECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 2	(59) SI	UPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60) SI	UBSTRUCTURE 7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61) CI	HANNEL & CHANNEL PROTECTION N
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62) CI	ULVERTS
		* 7	****** LOAD RATING AND POSTING ****** CODE
	THE OF DECK PROTECTION NOVE	(31) DI	ESIGN LOAD- UNKNOWN 0
٥,	6021 0	(63) O	PERATING RATING METHOD- FIELD EVAL/ENG JUD 0
	********* AGE AND SERVICE *********	(64) O	PERATING RATING- 54.1
(27)	YEAR BUILT 1995	(65) II	NVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
(106)	YEAR RECONSTRUCTED 0000	(66) II	NVENTORY RATING- 32.4
(42)	TYPE OF SERVICE: ON- HIGHWAY 1	(70) BI	RIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	UNDER- HIGHWAY W/WO PEDESTF 1		TRUCTURE OPEN, POSTED OR CLOSED- A
(28)	LANES:ON STRUCTURE 02 UNDER STRUCTURE 02		ESCRIPTION- OPEN, NO RESTRICTION
(29)	AVERAGE DAILY TRAFFIC 1	2.	DERTITION OF EN, NO REDIRECTION
(30)	YEAR OF ADT 2019 (109) TRUCK ADT 0 %	**	*********** APPRAISAL ********** CODE
(19)	BYPASS, DETOUR LENGTH 22 KM	(67) S	TRUCTURAL EVALUATION 7
	******* GEOMETRIC DATA **********	(68) DI	ECK GEOMETRY 6
(49)		(69) បា	NDERCLEARANCES, VERTICAL & HORIZONTAL 5
		(71) W	ATER ADEQUACY N
	STRUCTURE LENGTH 36.5 M		PPROACH ROADWAY ALIGNMENT 8
	CURB OR SIDEWALK: LEFT 0.7 M RIGHT 0.7 M	(36) T	RAFFIC SAFETY FEATURES 1000
	BRIDGE ROADWAY WIDTH CURB TO CURB 7.3 M		COUR ORIMICAL PRINCES
	DECK WIDTH OUT TO OUT 9.1 M		.,
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 7.3 M	*:	****** PROPOSED IMPROVEMENTS *******
(33)	BRIDGE MEDIAN- NO MEDIAN 0	(75) TY	YPE OF WORK- CODE
(34)	SKEW 0 DEG (35) STRUCTURE FLARED NO	(76) L	ENGTH OF STRUCTURE IMPROVEMENT M
(10)	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94) BI	RIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 7.3 M		OADWAY IMPROVEMENT COST
(53)	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		OTAL PROJECT COST
(54)	MIN VERT UNDERCLEAR REF- HIGHWAY 4.80 M		
	MIN LAT UNDERCLEAR RT REF- HIGHWAY 3.6 M		EAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR LT 0.0 M		UTURE ADT 1
		(115) YE	EAR OF FUTURE ADT 2037
	**************************************	**	********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N		NSPECTION DATE 05/19 (91) FREQUENCY 48 MO
	PIER PROTECTION- CODE		RITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M		RACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		NDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		THER SPECIAL INSP- NO MO C)

Printed on: Thursday 08/22/2019 08:05 AM