

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0670

Facility Carried: HICKS CNYN HAUL RD

: 4.6 MI. SE/O CHAPMAN AVE Location

City

Inspection Date: 07/07/2013

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

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STRUCTURE NAME: HICKS CANYON HAUL ROAD OC

CONSTRUCTION INFORMATION

Year Built : 1995 Year Widened: N/A Length (m) : 36.5

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

No. of Hinges:

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) 13.0 m, 22.3 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: 32.6 metric tons Operating Rating: 53.5 metric tons

Calculation Method: NO RATING ANALYSIS Calculation Method: NO RATING ANALYSIS

Permit Rating : PPPPP

Posting Load : Type 3: Legal Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.2 m br, 0.7 m sw, 7.3 m, 0.7 m sw, 0.2 m br (E)

Total Width:

Net Width: 9.1 m

7.3 m No. of Lanes: 2

Speed:

mph

Min. Vertical Clearance: Unimpaired

Rail Code: 1000

Rail	Type	Location	Length	(ft)	Rail	Modifications	
Туре	26	Right/Left	150				

DESCRIPTION UNDER STRUCTURE

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

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

INSPECTION COMMENTARY

SCOPE AND ACCESS

The channel was dry during this inspection, and substructure elements were visually inspected. The top did not inspected

REVISIONS

NBI #33 was modified from 2 (closed median w/o barrier) to 0 (no median). NBI #55 (Min. Lateral Under clearance R) was modified from 5.5 m to 3.6 m.

MISCELLANEOUS

Ten-year bridge roadway, elevation and underside photos were taken during this inspection.

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INSPECTION COMMENTARY

DECK AND ROADWAY

The concrete rails exhibits few vertical and horizontal

The approaches roadways are settled about 50 mm in the south direction.

There are 2 longitudinal cracks < 0.04 inch wide at middle of each direction.

SUPERSTRUCTURE

No significant defects were found during this inspection

SUBSTRUCTURE

No significant defects were found during this inspection

Elem	Total			Qty in each Condition State				
No. Element Description	Env	Qty	Units	St. 1	St. 2	St. 3	St. 4	St. 5
12 Concrete Deck - Bare	2	333	sq.m.	333	0	0	0	0
109 P/S Conc Open Girder/Beam	2	105	m.	105	0	0	0	0
205 Reinforced Conc Column or Pile Extension	2	2	ea.	2	0	0	0	0
215 Reinforced Conc Abutment	2	18	m.	18	0	0	0	0
226 P/S Conc Submerged Pile	2	1	ea.	1	0	0	0	0
234 Reinforced Conc Cap	2	18	m.	18	0	0	0	0
312 Enclosed/Concealed Bearing	2	2	ea.	2	0	0	0	0
331 Reinforced Conc Bridge Railing	2	46	m.	46	0	0	0	0

WORK RECOMMENDATIONS - NONE

Ashraf Shenouda Team Leader :

Report Author : Ashraf Shenouda

A.Shenouda/NN.Vo Inspected By :

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Ashraf Shenouda No. 64332 06/30/2015 CIVIL

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STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		************
/11	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 96.9
1.00			STATUS
			HEALTH INDEX 100.0
11500000	INVENTORY ROUTE (ON/UNDER) - ON 18800000		PAINT CONDITION INDEX = N/A
100	HIGHWAY AGENCY DISTRICT 12		******* CLASSIFICATION ********* CODE
	COUNTY CODE 059 (4) PLACE CODE 00000	(112)	Control of the Contro
(6)	FEATURE INTERSECTED- SANTIAGO CANYON ROAD		NBIS BRIDGE LENGTH- YES Y HIGHWAY SYSTEM- ROUTE ON NHS 1
(7)	FACILITY CARRIED- HICKS CNYN HAUL RD		
(9)	LOCATION- 4.6 MI. SE/O CHAPMAN AVE.		FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(11)	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRAHNET 0
(12)	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE 000000000000	•	DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 45 MIN 36 SEC		TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 42 MIN 12 SEC	***************	FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %		DESIGNATED NATIONAL NETWORK - NOT ON NET 0
(99)	BORDER BRIDGE STRUCTURE NUMBER		TOLL- ON FREE ROAD 3
	Conversor Supply and Vampally that the		MAINTAIN- COUNTY HIGHWAY AGENCY 02
	******* STRUCTURE TYPE AND MATERIAL *******		OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN:MATERIAL- PRESTRESS CONC TYPE- STRINGER/MULTI-BEAM OR GDR CODE 502		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		******* CONDITION ******** CODE
	TYPE- OTHER/NA CODE 000		DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 2	(59)	SUPERSTRUCTURE 8
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 7
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION N
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
	TYPE OF WEARING SURFACE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF MEMBRANE- NONE CODE 0	(21)	DESIGN LOAD- MS-18 OR HS-20 5
5.5	TYPE OF DECK PROTECTION- NONE CODE 0		OPERATING RATING METHOD- NO RATING ANALYSIS 5
	****** AGE AND SERVICE ********		OPERATING RATING METHOD NO RATING ARABITIS 5
	production and appropriate and a second seco	77.00.000.000.000	INVENTORY RATING METHOD- NO RATING ANALYSIS 5
35.25.55.55.55	YEAR BUILT 1995 YEAR RECONSTRUCTED 0000		
- 10	TYPE OF SERVICE: ON- HIGHWAY 1	15	
(42)	UNDER- HIGHWAY W/WO PEDESTF 1	,	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 02 UNDER STRUCTURE 02	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
(29)	AVERAGE DAILY TRAFFIC 100		DESCRIPTION- OPEN, NO RESTRICTION
(30)	YEAR OF ADT 2009 (109) TRUCK ADT 40 %		******** APPRAISAL ********* CODE
	BYPASS, DETOUR LENGTH 22 KM	(67)	STRUCTURAL EVALUATION 7
()	************ GEOMETRIC DATA **********	(68)	DECK GEOMETRY 6
		(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL 5
	LENGTH OF MAXIMUM SPAN 22.6 M	(71)	WATER ADEQUACY N
1.000	STRUCTURE LENGTH 36.5 M	(72)	APPROACH ROADWAY ALIGNMENT 8
	CURB OR SIDEWALK: LEFT 0.7 M RIGHT 0.7 M	(36)	TRAFFIC SAFETY FEATURES 1000
	BRIDGE ROADWAY WIDTH CURB TO CURB 7.3 M	(113)	SCOUR CRITICAL BRIDGES N
	DECK WIDTH OUT TO OUT 9.1 M		******* PROPOSED IMPROVEMENTS *******
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 7.3 M	. m. m	
	BRIDGE MEDIAN NO MEDIAN 0		TYPE OF WORK- CODE
	SKEW 0 DEG (35) STRUCTURE FLARED NO	1	LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 7.3 M	(95)	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- HIGHWAY 4.87 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR RT REF- HIGHWAY 3.6 M	(114)	FUTURE ADT 206
	MIN LAT UNDERCLEAR LT 0.0 M	(115)	YEAR OF FUTURE ADT 2029
	********** NAVIGATION DATA *********		************** INSPECTIONS ***********
(38)	NAVIGATION CONTROL- NOT APPLICABLE CODE N		INSPECTION DATE 07/13 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
(39)	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
(116)	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		OTHER SPECIAL INSP- NO MO C)
		3,	(575 P.)