

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0628

Facility Carried: ANTONIO PARKWAY

Location : 0.2 MI. N/O ORTEGA HWY

City

Inspection Date : 01/29/2015

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: SAN JUAN CREEK

CONSTRUCTION INFORMATION

 Year Built : 1997
 Skew (degrees): 22

 Year Widened: 2013
 No. of Joints : 2

 Length (m) : 236.5
 No. of Hinges : 0

Structure Description: Continuous five span CIP/PS concrete box girder (five cells) with RC

two column bents and with RC closed end seat abutments, all

supported upon driven steel H-piles, and upon CIDH concrete piles.

Widen: Box girder from the west side, one one column bent.

Span Configuration : (S) 38.1 m, 3 @ 53.0 m, 38.1 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: $RF=1.00 \Rightarrow 32.4$ metric tons Calculation Method: ASSIGNED (LFD) Operating Rating: $RF=1.67 \Rightarrow 54.1$ metric tons Calculation Method: ASSIGNED (LFD)

Permit Rating : PPPPP

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

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.3 m br, 1.5 m sw; 13.4 m min; (1.2 m - 4.3 m) curbed med.; 13.4 m; 1.4

m sw; 0.4 m br (E).

Total Width: 34.8 m Net Width: 26.8 m No. of Lanes: 6 Speed: 55 mph Min. Vertical Clearance: Unimpaired AC Thickness: 0.0 Inches

Rail Code: 1110

Rail	Туре	Location	Length (ft)	Rail	Modifications
Туре	26	Right/Left	1672		

DESCRIPTION UNDER STRUCTURE

Channel Description: Wide natural earth trapezoidal channel with heavy vegetation, brush, and trees within the creek.

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

The inspection was performed by walking the deck and under the structure. All elements have been visually inspected.

SAFE LOAD CAPACITY

Printed on: Monday 03/30/2015 01:23 PM 55C0628/AAAH/31191

INSPECTION COMMENTARY

A Load Rating Summary Sheet dated 05/27/2014 is on file for this structure. The current rating has been assigned in accordance with SM&I procedures.

ELEMEN	NT INSPECT	TION RATINGS AND COMMENTARY		411		Tall.			
Elem No.	Defect Det	fect Element Description	Env	Total Qty	Units			ondition St. 3	
16		Top Flange-RC	2	8230	sq.m	1890	6340	0	0
	1130	Cracking (RC and Other)	2	6340		0	6340	0	0
	ncrete dec	k exhibits mostly few short longs t above the bents due to negative						mm wide	and
104		Box Girder-PS Conc.	2	472	m	467	5	0	0
	1110	Cracking (PS Conc.)	2	5		0	5	0	0
(104-1 There		inal hairline crack in span 1, s	span 3 and s	pan 4	soffit	of the	box gi:	rder.	
205		Column-RC	2	12	each	12	0	0	0
(205) There	were no si	gnificant defects noted.					0-32		
215		Abutment-RC	2	48	m	48	0	0	0
(215) There	were no si	gnificant defects noted.							
220		Pile Cap/Footing-RC	2	1	m	1	0	0	0
(220) There	were no si	gnificant defects noted.			X				
225		Pile-Steel	2	1	ea.	1	0	0	0
(225) There	were no si	gnificant defects noted.							
252		Pile-CIDH	2	1	ea.	1	0	0	0
(252) There	were no si	gnificant defects noted.	-						
303		Joint-Assembly w/ Seal	2	40	m	40	0	0	0
(303) There v	were no si	gnificant defects noted.			-				
312		Bearing-Enclosed	2	2	each	2	0	0	0
(312) There v	were no si	gnificant defects noted.							
321		Approach Slab-RC	2	520	sq.m	520	0	0	0
(321) There v	were no si	gnificant defects noted.							
331		Railing-RC	2	473	m	473	0	0	0
(331)									

ELEMENT INSPECTION RATINGS AND COMMENTARY

Elem Defect Defect Element Description

No. /Prot

Env Total Units Qty in each Condition State
Qty St. 1 St. 2 St. 3 St. 4

There were no significant defects noted.

WORK RECOMMENDATIONS - NONE

Team Leader : Mikhael T. Zaarour

Report Author: Mikhael T. Zaarour

Inspected By : MT.Zaarour/KD.Henderson

Mikhael T. Zaarour (Registered Civil Engineer) (Da

PROFESSIONAL

Mikhael T.

Zaarour

No. 68212

09/30/2015

CIVIL

OF CALIFORNIA

STRUCTURE INVENTORY AND APPRAISAL REPORT

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(1)	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 94.3
			STATUS
	STRUCTURE NUMBER 55C0628		HEALTH INDEX 77.6
	INVENTORY ROUTE (ON/UNDER) - ON 14000000		PAINT CONDITION INDEX = N/A
	HIGHWAY AGENCY DISTRICT 12		
	COUNTY CODE 059 (4) PLACE CODE 00000	(770)	********* CLASSIFICATION ******** CODE
	FEATURE INTERSECTED- SAN JUAN CREEK		NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- ANTONIO PARKWAY		HIGHWAY SYSTEM- ROUTE ON NHS 1
(9)	LOCATION- 0.2 MI. N/O ORTEGA HWY		FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(11)	MILEPOINT/KILOMETERPOINT 0		DEFENSE HIGHWAY- NOT STRAHNET 0
(12)	BASE HIGHWAY NETWORK- PART OF NET 1	(101)	PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE 000000000000	(102)	DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 31 MIN 20.86 SEC	(103)	TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 37 MIN 11.36 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER	(20)	TOLL- ON FREE ROAD 3
(33)	DONDER DATE OF STATE	(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
,	****** STRUCTURE TYPE AND MATERIAL ******	(22)	OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN: MATERIAL- CONCRETE CONT	(37)	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
	TYPE- BOX BEAM OR GIRDER - MULTI CODE 205		governos
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		********** CONDITION ********** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 6
(45)	NUMBER OF SPANS IN MAIN UNIT 5	(59)	SUPERSTRUCTURE 8
(46)	NUMBER OF APPROACH SPANS 0		SUBSTRUCTURE 8
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION 8
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
	TYPE OF WEARING SURFACE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
В)	TYPE OF MEMBRANE- NONE CODE 0	/21\	DESIGN LOAD- MS-18 OR HS-20 5
C)	TYPE OF DECK PROTECTION- NONE CODE 0		
	****** AGE AND SERVICE ********		OPERATING RATING METHOD- ASSIGNED (LFD) A OPERATING RATING- 54.1
	YEAR BUILT 1997		
	YEAR RECONSTRUCTED 2013		INVENTORY RATING METHOD- ASSIGNED (LFD) A
	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5	18 00 00 00 00 00	INVENTORY RATING- 32.4
(42)	UNDER- WATERWAY 5	i i i i i i i i i i i i i i i i i i i	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 06 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
(29)	AVERAGE DAILY TRAFFIC 12135		DESCRIPTION- OPEN, NO RESTRICTION
(30)	YEAR OF ADT 2011 (109) TRUCK ADT 1 %		******** APPRAISAL ********* CODE
(19)	BYPASS, DETOUR LENGTH 10 KM	(67)	STRUCTURAL EVALUATION 8
37.516	******** GEOMETRIC DATA *********	(68)	DECK GEOMETRY 7
(40)		(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
***********		(71)	WATER ADEQUACY 8
	STRUCTURE LENGTH 236.5 M CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.4 M	(72)	APPROACH ROADWAY ALIGNMENT 8
		(36)	TRAFFIC SAFETY FEATURES 1110
	BRIDGE ROADWAY WIDTH CURB TO CURB 26.8 M	(113)	SCOUR CRITICAL BRIDGES 8
8030000000	DECK WIDTH OUT TO OUT 34.8 M		****** PROPOSED IMPROVEMENTS *******
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 26.8 M		
	BRIDGE MEDIAN- CLOSED NON-MOUNTABLE 3		TYPE OF WORK- CODE
	SKEW 22 DEG (35) STRUCTURE FLARED NO	(76)	LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94)	BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 13.4 M	(95)	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(114)	FUTURE ADT 21164
	MIN LAT UNDERCLEAR LT 0.0 M	(115)	YEAR OF FUTURE ADT 2035
	************ NAVIGATION DATA **********		**************************************
(38)	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 01/15 (91) FREQUENCY 24 MO
(111)	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
(39)	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
	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)
		- /	