

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0606

Facility Carried: OSO PARKWAY : 0.6 MI E/O FELIPE ROAD Location

City

Inspection Date: 01/29/2015

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

X

STRUCTURE NAME: ARROYO TRABUCO

CONSTRUCTION INFORMATION

Year Built : 1991 Skew (degrees): Year Widened: N/A No. of Joints: 3 No. of Hinges: Length (m) : 202.7

Structure Description: Continuous 5 span CIP/PS concrete box girder (11 cells) with RC 2-

column bents and RC open end seat abutments, all supported upon

concrete piles (Abutment 1 has steel piles).

:(W) 45.7 m, 3 @ 36.6 m, 45.7 m (E) c/c Span Configuration

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: MS-18+MOD OR HS-20+MOD

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

Permit Rating : PPPPP

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

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.3 m br, 1.5 m sw, 13.4 m, 1.2 m cu med, 13.4 m, 1.5 m sw, 0.3 m br (N)

Total Width: 31.7 m Net Width: 26.8 m No. of Lanes: 6 Speed: 55 mph Min. Vertical Clearance: Unimpaired AC Thickness: 0.0 Inches

Rail Code: 0110

Length (ft) Rail Modifications Rail Type Location Type 26 Right/Left 1410

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth open wash with a cobbled streambed.

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

There is 4" deep water in span 4, all elements have been visually inspected.

There is water dripping from the soffit vent hole in south side of span # 1.

SAFE LOAD CAPACITY

Printed on: Monday 03/30/2015 01:23 PM 55C0606/AAAJ/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.

ELEME	NT INSPECTION RATINGS AND COMMENTARY							
	Defect Defect Element Description /Prot	Env	Total Qty	. Units				on State
16	Top Flange-RC	2	6425	sq.m	6425	0	0	0
	521 Concrete Coat.(Meth/Paint/Seal)	2	5420	sq.m	5420	0	0	0
(16) There	were no significant defects noted.		***************************************	Weit				
(16-5) There	vere no significant defects noted.	V						
104	Box Girder-PS Conc.	2	203	m	195	8	0	0
	1120 Efflorescence/Rust Staining	2	8		0	8	0	0
(104-1120)								
	are cracks with water stain in the soffit of th							
205	Column-RC	2	8	each	8	0	0	0
(205) There	were no significant defects noted.							
215	Abutment-RC	2	88	m	88	0	0	0
(215)								
1	were no significant defects noted.	****						
225	Pile-Steel	2	1	ea.	1	0	0	0
(225) The pile element is included to indicate the presence of piles on this structure. The piles were not exposed for visual inspection. No indication of pile distress was noted in any substructure element.								
227	Pile-RC	2	1	ea.	1	0	0	0
(227)								
	le element is included to indicate the presence						_	The second section of
	ed for visual inspection. No indication of pile	5850				52 1000		
300	Joint-Strip Seal Exp	2	80	m	80	0	0	0
(300) There	were no significant defects noted.							
302	Joint-Compression Seal	2	40	m	40	0	0	0
(302) There	were no significant defects noted.							
312	Bearing-Enclosed	2	2	each	2	0	0	0
(312)	were no significant defects noted.			€		· · · · · · · · · · · · · · · · · · ·		
321	Approach Slab-RC	2	264	sq.m	264	0	0	0
(321)		*****	111	19 19 19 19		************		
(021)								

ELEMENT INSPECTION RATINGS AND COMME Elem Defect Defect Element Description No. /Prot		Total Qty	Units	SQty in St. 1		ondition St. 3	
There were no significant defects noted	A 2 2 1			<u> </u>			
331 Railing-RC	2	404	m	404	0	0	0
(331) There were no significant defects noted		-					

WORK RECOMMENDATIONS

RecDate: 02/22/2011

EstCost:

The city should investigate the dripping

PROFESSIONA

Mikhael T.

Zaarour

No. <u>68212</u> 09/30/2015 CIVIL

Action : Drainage Issue

StrTarget: 2 YEARS water through the bridge cell. DistTarget:

Work By: LOCAL AGENCY

Status : PROPOSED

EA:

Team Leader : Mikhael T. Zaarour

Report Author :

Mikhael T. Zaarour

Inspected By :

MT.Zaarour/KD.Henderson

Mikhael T. Zaarour (Registered Civil Engineer)

STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		**************************************
	STATE NAME- CALIFORNIA 069		STATUS
0.0000	STRUCTURE NUMBER 55C0606		HEALTH INDEX 99.9
	INVENTORY ROUTE (ON/UNDER) - ON 14000000		
250000	HIGHWAY AGENCY DISTRICT 12		GEO/NOLINO/NORMAN AND AND AND AND AND AND AND AND AND A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000	W-0.00000	******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- ARROYO TRABUCO		NBIS BRIDGE LENGTH- YES Y
(7)	FACILITY CARRIED- OSO PARKWAY		HIGHWAY SYSTEM- ROUTE ON NHS 1
(9)	LOCATION- 0.6 MI E/O FELIPE ROAD	(26)	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 35 MIN 04.43 SEC	(103)	TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 38 MIN 04.21 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
(99)	BORDER BRIDGE STRUCTURE NUMBER	(20)	TOLL- ON FREE ROAD 3
		(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
•	****** STRUCTURE TYPE AND MATERIAL ******	(22)	OWNER- COUNTY HIGHWAY AGENCY 02
	STRUCTURE TYPE MAIN:MATERIAL- PRSTR CONC CONT TYPE- BOX BEAM OR GIRDER - MULTI CODE 605		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		*********** CONDITION ************************************
	TYPE- OTHER/NA CODE 000	1,000,000,000	DECK 8
(45)	NUMBER OF SPANS IN MAIN UNIT 5		SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0		SUBSTRUCTURE 8
(107)	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1		CHANNEL & CHANNEL PROTECTION 9
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
A)	TYPE OF WEARING SURFACE- NONE CODE 0		****** LOAD RATING AND POSTING ****** CODE
B)	TYPE OF MEMBRANE- NONE CODE 0	(31)	DESIGN LOAD- MS-18+MOD OR HS-20+MOD 6
C)	TYPE OF DECK PROTECTION- NONE CODE 0		OPERATING RATING METHOD- ASSIGNED (LFD) A
	********* AGE AND SERVICE *********		OPERATING RATING- 54.1
(27)	YEAR BUILT 1991		INVENTORY RATING METHOD- ASSIGNED (LFD) A
(106)	YEAR RECONSTRUCTED 0000		INVENTORY RATING- 32.4
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	UNDER- WATERWAY 5		STRUCTURE OPEN, POSTED OR CLOSED- A
(28)	LANES:ON STRUCTURE 06 UNDER STRUCTURE 00	,/	DESCRIPTION- OPEN, NO RESTRICTION
(29)	AVERAGE DAILY TRAFFIC 27000		
(30)	YEAR OF ADT 2013 (109) TRUCK ADT 1 %		********** APPRAISAL ********** CODE
(19)	BYPASS, DETOUR LENGTH 11 KM	(67)	STRUCTURAL EVALUATION 7
	*********** GEOMETRIC DATA **********	(68)	DECK GEOMETRY 7
(48)	LENGTH OF MAXIMUM SPAN 45.7 M	(69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 202.7 M	(71)	WATER ADEQUACY 9
	CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M	(72)	APPROACH ROADWAY ALIGNMENT 8
	BRIDGE ROADWAY WIDTH CURB TO CURB 26.8 M	,,	TRAFFIC SAFETY FEATURES 0110
(52)	DECK WIDTH OUT TO OUT 31.7 M	(113)	SCOUR CRITICAL BRIDGES 8
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 26.8 M		******* PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- CLOSED NON-MOUNTABLE 3	(75)	TYPE OF WORK- CODE
	SKEW 99 DEG (35) STRUCTURE FLARED NO		LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		BRIDGE IMPROVEMENT COST
100000000000000000000000000000000000000	INVENTORY ROUTE TOTAL HORIZ CLEAR 13.4 M	Maria de Maria	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		TOTAL PROJECT COST
(54)	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	torres (Section 1)	YEAR OF IMPROVEMENT COST ESTIMATE
(56)	MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 56200
,	************ NAVIGATION DATA *********	(TT2)	YEAR OF FUTURE ADT 2035
			************* INSPECTIONS ***********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 01/15 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
	VAVIGATION VERTICAL CLEARANCE 0.0 M	A)	FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	B)	UNDERWATER INSP- NO MO B)
(±0) I	NAVIGATION HORIZONTAL CLEARANCE 0.0 M	C)	OTHER SPECIAL INSP- NO MO C)