

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0283 Facility Carried: BROADWAY

Location

: 100' NE/O PACIFIC CST HW

City

Inspection Date : 08/07/2014

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other X

STRUCTURE NAME: SUNSET CHANNEL

CONSTRUCTION INFORMATION

Year Built : 1959 Year Widened: N/A

Skew (degrees): No. of Joints: 5

Length (m) : 29.3

No. of Hinges :

Structure Description: Simply supported 4-span CIP/RC deck slab with RC 5-column pile bents

and with column pile bent abutments.

Span Configuration

:(S) 4 @ 7.0 m (N) c/c

SAFE LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: RF=0.75 =>24.3 metric tons

Calculation Method: FIELD EVAL/ENG JUDGMENT

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Operating Rating: RF=1.25 =>40.5 metric tons Permit Rating : PPPPP Posting Load

: Type 3: Legal

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (W) 0.3 m br, 0.9 m sw, 8.6 m, 0.9 m sw, 0.3 m br (E) Net Width:

Total Width:

Steel

11.0 m

8.5 m

No. of Lanes: 2

Speed: 25 mph

Min. Vertical Clearance: Unimpaired

Rail Code: 1000

Rail	Type	Location	Length ((ft)	Rail	Modifications
Mis	c.	Right/Left	180			

DESCRIPTION UNDER STRUCTURE

Channel Description: Tidal basin.

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.

INSPECTION COMMENTARY

SCOPE AND ACCESS

The structure is over a tidal basin. It was inspected from side and top only. There underwater inspection was performed on 3/21/2011. No defects were noted on all inspected substructure elements. The spalls was mentioned at bent #2 I assumed was repaired during the repair all other spalls on the deck and bents.

DECK AND ROADWAY

There was post pocket spall $(1.5' \times 5" \times 8")$ at the post #1 from west of south rail.

SAFE LOAD CAPACITY

A load Rating Summary sheet was in BIRIS. This load rating was assigned in accordance

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55C0283/AAAN/29548

INSPECTION COMMENTARY

with current SM&I procedures.

ELEM	ENT INSPECTION	RATINGS AND COMMENTAR	v						
	n Defect Defect	Element Description		Total Qty	Units	Qty in	n each St. 2	Condition	on State
38	sl	ab-RC	3	240	sq.m	240	0	0	0
No.	Defect Defect /Prot	Element Description	Env	Total Qty	Units	Qty ir St. 1	each	Conditio St. 3	n State St. 4
205	. Co	lumn-RC	4	15	each	15	0	0	0
		8							
Elem No.	Defect Defect /Prot	Element Description	Env	Total Qty	Units	Qty in	each (Condition St. 3	n State St. 4
215	Abı	utment-RC	3	22	m	22	0	0	0
Elem No.	Defect Defect /Prot	Element Description	Env	Total Qty	Units	Qty in St. 1	each C	ondition	1 State
234	Pie	er Cap-RC	3	33	m		0	0	0
Elem No.	Defect Defect /Prot	Element Description	Env	Total Qty	Units	Qty in St. 1	each C	ondition St. 3	State
301	Joi	nt-Pourable Seal	3	33	m	33	0	0	0
	Defect Defect /Prot	Element Description	Env	Fotal Qty	Units	Qty in St. 1	each Co	ondition St. 3	State St. 4
330	Rai	ling-Metal	2	56	m	56	0	0	0
				11				452 	

WORK RECOMMENDATIONS - NONE

Team Leader : Mikhael T. Zaarour

Report Author : Mikhael T. Zaarour

Inspected By : MT.Zaarour/M.Zolfaghari

Mikhael T. Zaarour (Registered Civil Engineer)

Mikhael T. Zaarour No. <u>68212</u> 09/30/2015 CIVIL

STRUCTURE INVENTORY AND APPRAISAL REPORT

**************************************	***************
(1) STATE NAME- CALIFORNIA 069	SUFFICIENCY RATING = 60.4
(8) STRUCTURE NUMBER 55C0283	STATUS
(5) INVENTORY ROUTE (ON/UNDER) - ON 140000000	HEALTH INDEX 100.0
(2) HIGHWAY AGENCY DISTRICT 12	PAINT CONDITION INDEX = N/A
(3) COUNTY CODE 059 (4) PLACE CODE 00000	******* CLASSIFICATION ******* CODE
(6) FEATURE INTERSECTED- SUNSET CHANNEL	(112) NBIS BRIDGE LENGTH- YES Y
(7) FACILITY CARRIED- BROADWAY	(104) HIGHWAY SYSTEM- NOT ON NHS
(9) LOCATION- 100' NE/O PACIFIC CST HWY	(26) FUNCTIONAL CLASS- LOCAL URBAN 19
(11) MILEPOINT/KILOMETERPOINT 0	(100) DEFENSE HIGHWAY- NOT STRAHNET 0
(12) BASE HIGHWAY NETWORK- NOT ON NET	(101) PARALLEL STRUCTURE- NONE EXISTS N
(13) LRS INVENTORY ROUTE & SUBROUTE (16) LATITUDE 33 DEG 43 MIN 05 6 SEC	(102) DIRECTION OF TRAFFIC- 2 WAY 2
(16) LATITUDE 33 DEG 43 MIN 05.6 SEC (17) LONGITUDE 118 DEG 04 MIN 12.2 SEC	(103) TEMPORARY STRUCTURE- (105) FED.LANDS HWY- NOT APPLICABLE
(98) BORDER BRIDGE STATE CODE % SHARE %	(110) DECICNATED NATIONAL NUMBERODY
(99) BORDER BRIDGE STRUCTURE NUMBER	(30) #011 01 PPPP P029
	(20) IOLL- ON FREE ROAD . 3 (21) MAINTAIN- COUNTY HIGHWAY AGENCY 02
****** STRUCTURE TYPE AND MATERIAL *******	(22) OWNER- COUNTY HIGHWAY AGENCY 02
(43) STRUCTURE TYPE MAIN: MATERIAL- CONCRETE	(37) HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
TYPE- SLAB CODE 101 (44) STRUCTURE TYPE APPR:MATERIAL- OTHER/NA	w.
MILDE OFFICE AVE	******* CODE
(AE) NUMBER OF CRIME IN THE COLUMN TO THE CO	(58) DECK 8 (59) SUPERSTRUCTURE
(46) NUMBER OF APPROACH GRANG	(CO) GUID GIBRIGITAD II
(107) DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61) CHANNEL C CHANNEL PROPERTY OF
(108) WEARING SURFACE / PROTECTIVE SYSTEM:	(62) CULVERTS N
7) EUDE OF LIEST TOTAL	
B) TYPE OF MEMBRANE- NONE CODE 0 CODE 0	******* LOAD RATING AND POSTING ****** CODE
C) TYPE OF DECK PROTECTION- NONE CODE 0	(31) DESIGN LOAD- UNKNOWN 0
******* AGE AND SERVICE *********	(63) OPERATING RATING METHOD- FIELD EVAL/ENG JUD 0 (64) OPERATING RATING- 40.5
(27) YEAR BUILT 1959	(64) OPERATING RATING- 40.5 (65) INVENTORY RATING METHOD- FIELD EVAL/ENG JUL 0
(106) YEAR RECONSTRUCTED 0000	(66) INVENTORY PARTYS
(42) TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5	(70) BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
UNDER- WATERWAY 5 (28) LANES:ON STRUCTURE 02 UNDER STRUCTURE 00	(41) STRUCTURE OPEN, POSTED OR CLOSED-
(29) AVERAGE DAILY TRAFFIC 2500	DESCRIPTION- OPEN, NO RESTRICTION
(30) YEAR OF ADT 2009 (109) TRUCK ADT 1 %	********* APPRAISAL ********* CODE
(19) BYPASS, DETOUR LENGTH 199 KM	(67) STRUCTURAL EVALUATION
******* GEOMETRIC DATA *********	(68) DECK GEOMETRY
(48) LENGTH OF MAXIMUM SPAN 7.0 M	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49) STRUCTURE LENGTH 29.3 M	(71) WATER ADEQUACY
(50) CURB OR SIDEWALK: LEFT 0.9 M RIGHT 0.1 M	(72) APPROACH ROADWAY ALIGNMENT 8
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 8.5 M	(36) TRAFFIC SAFETY FEATURES 1000
(52) DECK WIDTH OUT TO OUT 11.0 M	(113) SCOUR CRITICAL BRIDGES 5
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 8.5 M	******* PROPOSED IMPROVEMENTS *******
(33) BRIDGE MEDIAN- NO MEDIAN 0	(75) TYPE OF WORK- CODE
(34) SKEW 0 DEG (35) STRUCTURE FLARED NO	(76) LENGTH OF STRUCTURE IMPROVEMENT M
(10) INVENTORY ROUTE MIN VERT CLEAR 99.99 M	(94) BRIDGE IMPROVEMENT COST
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 8.5 M (53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(95) ROADWAY IMPROVEMENT COST
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M (54) MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	(96) TOTAL PROJECT COST
(55) MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.00 M	(97) YEAR OF IMPROVEMENT COST ESTIMATE
(56) MIN LAT UNDERCLEAR LT 0.0 M	(114) FUTURE ADT 4121
************* NAVIGATION DATA **********	(115) YEAR OF FUTURE ADT 2031
(20) Wayners	**************************************
(38) NAVIGATION CONTROL NO CONTROL CODE 0 (111) PIER PROTECTION- CODE	(90) INSPECTION DATE 08/14 (91) FREQUENCY 24 MO
(39) NAVIGATION VERTICAL CLEARANCE 0.0 M	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR M	A) FRACTURE CRIT DETAIL- NO MO A)
(40) NAVIGATION HORIZONTAL CLEARANCE 0.0 M	B) UNDERWATER INSP- YES 60 MO B) 03/11 C) OTHER SPECIAL INSP- NO MO C)