

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0283 Facility Carried: BROADWAY

Location : 100' NE/O PACIFIC CST HW

City

Inspection Date: 05/05/2010

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other Х

STRUCTURE NAME: SUNSET CHANNEL

CONSTRUCTION INFORMATION

Year Built : 1959 Skew (degrees): Year Widened: N/A No. of Joints : 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

LOAD CAPACITY AND RATINGS

Design Live Load: M-13.5 OR H-15

Inventory Rating: 24.3 metric tonnes metric tonnes Calculation Method: NO RATING ANALYSIS Operating Rating: 40.5 Permit Rating : PPPPP Calculation Method: NO RATING ANALYSIS

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)

Total Width: Net Width: 8.5 m 11.0 m No. of Lanes: 2

Rail Description: Metal Railing Rail Code : 1000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Tidal basin.

CONDITION TEXT

CONDITION OF STRUCTURE

The freeboard is about 2 meter.

The underwater inspection was done in April 2007. No defects were noted and all inspected elements were found to be in good condition

There are spalls (500mm x 200mm x 25mm) at the easterly edge of the deck over bent #3, and at easterly side of bent caps #2 and #4 with exposed rebar.

There is joint spall (1000mm \times 200mm \times 40mm) in the deck at northbound bent #3 with exposed rebar.

ELE	MENT	INSPECTION RATINGS		- Part								
F#Elem Element Description			Env	Total Units		Qty in each Condition State						
				Qty		St. 1	St. 2	St. 3	St. 4	St. 5		
101	38	Concrete Slab - Bare	3	240	sq.m.	0	240	0	0	0		
101	205	Reinforced Conc Column or Pile	4	15	ea.	15	0	0	0	0		
		Extension										
101	215	Reinforced Conc Abutment	3	22	m.	22	0	0	0	0		
101	234	Reinforced Conc Cap	3	33	m.	33	0	0	0	0		
101	301	Pourable Joint Seal	3	33	m.	33	0	0	0	0		

F#Elem Element Description	Env	Total	Total Units		Qty in each Condition State							
		Qty		St. 1	St.	2	St.	3	St.	4	St.	5
101 330 Metal Bridge Railing - coated or uncoated	2	56	m.	56		0		0		0		0

WORK RECOMMENDATIONS

Status : PROPOSED

RecDate: 06/11/2007 EstCost: Repair the spall (500mm x 200mm x 25mm) StrTarget: 2 YEARS at the easterly edge of the deck over Action : Deck-Patch spalls DistTarget: bent #3. Work By: LOCAL AGENCY Status : PROPOSED Repair the spalls (500mm x 200mm x 25mm) RecDate: 06/11/2007 EstCost: StrTarget: 2 YEARS at easterly side of bent caps #2 and #4 Action : Sub-Patch spalls DistTarget: with exposed rebar. Work By: LOCAL AGENCY EA: Status : PROPOSED RecDate: 07/20/1995 EstCost: Repair the joint spall (1000mm x 200mm x Action : Joints-Repair/Clean StrTarget: 2 YEARS 40mm) in the deck at northbound bent #3 with exposed rebar. Work By: LOCAL AGENCY DistTarget:

Inspected By : A.Shenouda/MT.Zaarour

Registered Civil Engineer

EA:



STRUCTURE INVENTORY AND APPRAISAL REPORT

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**************************************		. ************************************
(1) STATE NAME- CALIFORNIA	069	SUFFICIENCY RATING = 62.0
(8) STRUCTURE NUMBER 55CO	283	STATUS
(5) INVENTORY ROUTE (ON/UNDER) - ON 140000	000	HEALTH INDEX 95.1
(2) HIGHWAY AGENCY DISTRICT	12	PAINT CONDITION INDEX = N/A
(3) COUNTY CODE 059 (4) PLACE CODE 00	000	******* CLASSIFICATION ******** CODE
(6) FEATURE INTERSECTED- SUNSET CHAN) NBIS BRIDGE LENGTH- YES Y
(7) FACILITY CARRIED- BROAD) HIGHWAY SYSTEM- NOT ON NHS
(9) LOCATION- 100' NE/O PACIFIC CST) FUNCTIONAL CLASS- LOCAL URBAN 19
(11) MILEPOINT/KILOMETERPOINT		DEFENSE HIGHWAY- NOT STRAHNET 0
(10) 7107 117		DADALLEL CERLICEURE
(13) LRS INVENTORY ROUTE & SUBROUTE	2000	DIDECETOR OF TRANSPORT
(2.6) 1.202	/===) DIRECTION OF TRAFFIC- 2 WAY 2) TEMPORARY STRUCTURE-
(16) LATITUDE 33 DEG 43 MIN 05.6 (17) LONGITUDE 118 DEG 04 MIN 12.2 (200	PED LANDS HAVE NOW ADDITIONED
(98) BORDER BRIDGE STATE CODE % SHARE		DESIGNATED NATIONAL NETWORK - NOT ON NET 0 TOLL- ON FREE ROAD
(99) BORDER BRIDGE STRUCTURE NUMBER		MATAMATA GOLDANIA III GILIAN AGAILAN
****** STRUCTURE TYPE AND MATERIAL ******		02
(43) STRUCTURE TYPE MAIN: MATERIAL- CONCRE	122	OWNER- COUNTY HIGHWAY AGENCY 02
TYPE- SLAB CODE 1	, ,	HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44) STRUCTURE TYPE APPR:MATERIAL- OTHER		*********** CONDITION ********** CODE
TYPE- OTHER/NA CODE (DECK 6
(45) NUMBER OF GRANG THE WATER TRAFF		SUPERSTRUCTURE 6
(46) NUMBER OF APPROACH SPANS		SUBSTRUCTURE 7
	(61)	CUINNEL S CUINNEL PROPERTIES
(107) DECK STRUCTURE TYPE- CIP CONCRETE CODE	1	CUIT VIEDER
(108) WEARING SURFACE / PROTECTIVE SYSTEM:		N
A) TYPE OF WEARING SURFACE- NONE CODE		******* LOAD RATING AND POSTING ******* CODE
B) TYPE OF MEMBRANE- NONE CODE C) TYPE OF DECK PROTECTION- NONE CODE	0 (31)	DESIGN LOAD- M-13.5 OR H-15 2
	(63)	OPERATING RATING METHOD- NO RATING ANALYSIS 5
******** AGE AND SERVICE ********		OPERATING RATING- 40.5
(27) YEAR BUILT	59 (65)	INVENTORY RATING METHOD- NO RATING ANALYSIS 5
(106) YEAR RECONSTRUCTED 000	00 (66)	INVENTORY RATING- 24.3
(42) TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN	5 (70)	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
	5 (41)	CEDICATION OPEN DOGERD OF GLOCED
(28) LANES:ON STRUCTURE 02 UNDER STRUCTURE (, ,	DESCRIPTION- OPEN, NO RESTRICTION
(29) AVERAGE DAILY TRAFFIC 200	10	
(30) YEAR OF ADT 2000 (109) TRUCK ADT 1		********** APPRAISAL ********** CODE
(19) BYPASS, DETOUR LENGTH 199 H	CM (67)	STRUCTURAL EVALUATION 6
********* GEOMETRIC DATA *********	* (68)	DECK GEOMETRY 5
(48) LENGTH OF MAXIMUM SPAN 7.0	M (69)	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49) STRUCTURE LENGTH 29.3	M (71)	WATER ADEQUACY 9
(50) CURB OR SIDEWALK: LEFT 0.9 M RIGHT 0.1		APPROACH ROADWAY ALIGNMENT 8
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 8.5	(26)	TRAFFIC SAFETY FEATURES 1000
(52) DECK WIDTH OUT TO OUT 11.0	(113)	SCOUR CRITICAL BRIDGES 5
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 8.5		****** PROPOSED IMPROVEMENTS *******
(33) BRIDGE MEDIAN- NO MEDIAN	0	
(34) SKEW 0 DEG (35) STRUCTURE FLARED N	(,),	
(10) INVENTORY ROUTE MIN VERT CLEAR 99.99	(70)	LENGTH OF STRUCTURE IMPROVEMENT M
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 8.5		BRIDGE IMPROVEMENT COST
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99.99	M (33)	ROADWAY IMPROVEMENT COST
(54) MIN VERT UNDERCLEAR REF- NOT H/RR 0.00	M (96)	TOTAL PROJECT COST
(55) MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0	м (97)	YEAR OF IMPROVEMENT COST ESTIMATE
(56) MIN LAT UNDERCLEAR LT 0.0	M (114)	FUTURE ADT 4121
**************************************	(115)	YEAR OF FUTURE ADT 2029
(20)		************ INSPECTIONS **********
(38) NAVIGATION CONTROL- NO CONTROL CODE	0 (90)	INSPECTION DATE 05/10 (91) FREQUENCY 24 MO
(111) PIER PROTECTION- CODE	(92)	CRITICAL FEATURE INSPECTION: (93) CFI DATE
(39) NAVIGATION VERTICAL CLEARANCE 0.01	M A)	FRACTURE CRIT DETAIL- NO MO A)
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR	. В)	UNDERWATER INSP- YES 60 MO B) 04/07
(40) NAVIGATION HORIZONTAL CLEARANCE 0.01	И	OTHER SPECIAL INSP- NO MO C)
		110 0/