

## DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0168

Facility Carried: AMAPOLA AVENUE

Location : 0.2 MI E/O ORANGE PK BLV

City

Inspection Date : 05/06/2010

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other

STRUCTURE NAME: HANDY CREEK

CONSTRUCTION INFORMATION

Year Built : 1937 Year Widened: N/A Length (m) : 8.5

Skew (degrees): No. of Joints : No. of Hinges :

Structure Description: Simply supported two span timber stringers (19 each) and timber deck

with a timber treated timber post (6 each) bent and a treated timber post (6 each) abutments, all supported upon treated timber sills.

All timber treated Douglas Fir.

Span Configuration : (W) 2 @ 4.0 m (E) c/c

LOAD CAPACITY AND RATINGS

Design Live Load: OTHER OR UNKNOWN

Inventory Rating: 17.5 metric tonnes

Calculation Method: ALLOWABLE STRESS Calculation Method: ALLOWABLE STRESS

Operating Rating: 24.9 metric tonnes Permit Rating : 00000

Posting Load : Type 3: Legal

Type 3S2:Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.1 m br, 7.2 m, 0.1 m br (N)

Total Width: 7.3 m

Net Width: 7.1 m

No. of Lanes: 2

Rail Description: MBGR

Rail Code : 1000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth trapezoidal upstream, RC rectangular with a check dam

downstream.

CONDITION TEXT

REVISIONS

The inventory rating was modified from 19.9 metric tonnes to 17.5 metric tonnes.

The operating rating was modified from 28.1 metric tonnes to 24.5 metric tonnes.

The permit rating was modified from GGGGG to 00000.

CONDITION OF STRUCTURE

The columns, abutments, and the bent caps have various minor splitting, cracking, or crushing.

There was 200mm of water in the channel; all elements were inspected

ELEMENT INSPECTION RATINGS								
F#Elem Element Description		Env Total Units Qty in each Condition				tion Sta	State	
		Qty	St. 1	St. 2	St. 3	St. 4	St. 5	
101 32 Timber Deck - w/ AC Overlay	2	60 sq.m.	60	0	0	0	0	

F#Elem Element		Description		Total Uni	Units	Qty in each Condition State						
				Qty		St. 1	St. 2	St.	3	St.	4	St. 5
101 11:	1 Timber	Open Girder/Beam	2	161	m.	161	0		0		0	0
101 200	6 Timber	Column or Pile Extension	3	18	ea.	0	18		0		0	0
101 21	6 Timber	Abutment	3	16	m.	0	16		0		0	0
101 23	5 Timber	Cap	2	21	m.	0	21		0		0	0
101 33	7 Metal 1	Railing (W6X25 Posts)	2	18	m.	18	0		0		0	0

## WORK RECOMMENDATIONS - NONE

Inspected	Ву	:	A. Shenouda/MT. Zaarour	
Inspected	BA	9	A. Shehouda/Mi. Zaarour	

Registered Civil Engineer

## STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		*************
(1)	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 60.1
/	STRUCTURE NUMBER 55C0168		STATUS
	INVENTORY ROUTE (ON/UNDER) - ON 140000000		HEALTH INDEX 87.5
	HIGHWAY AGENCY DISTRICT 12		. PAINT CONDITION INDEX = N/A
550000	COUNTY CODE 059 (4) PLACE CODE 00000		******* CLASSIFICATION ******** CODE
79.00			NBIS BRIDGE LENGTH- YES Y
200000	FEATURE INTERSECTED- HANDY CREEK		Wilderson Grammy
S. Actions	FACILITY CARRIED- AMAPOLA AVENUE		FUNCTIONAL CLASS- COLLECTOR URBAN 17
10.00	LOCATION- 0.2 MI E/O ORANGE PK BLVD		
	MILEPOINT/KILOMETERPOINT 0		THE STATE OF THE S
(12)	BASE HIGHWAY NETWORK- NOT ON NET 0		PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE		DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 48 MIN 09 SEC	10.000	TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 46 MIN 46 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
(98)	BORDER BRIDGE STATE CODE % SHARE %	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
	BORDER BRIDGE STRUCTURE NUMBER	(20)	TOLL- ON FREE ROAD 3
55		(21)	MAINTAIN- COUNTY HIGHWAY AGENCY 02
	******* STRUCTURE TYPE AND MATERIAL *******		OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN:MATERIAL- WOOD OR TIMBER TYPE- STRINGER/MULTI-BEAM OR GDR CODE 702		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		********* CONDITION ********* CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 2	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 6
(107)	DECK STRUCTURE TYPE- TIMBER CODE 8	(61)	CHANNEL & CHANNEL PROTECTION 8
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS N
			****** LOAD RATING AND POSTING ****** CODE
	TYPE OF WEARING SURFACE- BITUMINOUS CODE 6 TYPE OF MEMBRANE- NONE CODE 0		
	TYPE OF DECK PROTECTION- NONE CODE 0		DESIGN LOAD- OTHER OR UNKNOWN 0
-,	A STATE OF THE STA		OPERATING RATING METHOD- ALLOWABLE STRESS 2
22 25 20	******* AGE AND SERVICE *********	80.00	OPERATING RATING- 24.9
100000000000000000000000000000000000000	YEAR BUILT 1937		INVENTORY RATING METHOD- ALLOWABLE STRESS 2
100	YEAR RECONSTRUCTED 0000	(66)	INVENTORY RATING- 17.5
(42)	TYPE OF SERVICE: ON- HIGHWAY 1	(70)	BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	UNDER- WATERWAY 5 LANES:ON STRUCTURE 02 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 1000		DESCRIPTION- OPEN, NO RESTRICTION
			******* APPRAISAL ******** CODE
	YEAR OF ADT 2000 (109) TRUCK ADT 1 %		CORRESPONDE EVALUATION
(19)	BYPASS, DETOUR LENGTH 2 KM	*.50.00.5	STRUCTURAL EVALUATION 4
	********* GEOMETRIC DATA **********		DECK GEOMETRY 4
(48)	LENGTH OF MAXIMUM SPAN 4.0 M	*******	UNDERCLEARANCES, VERTICAL & HORIZONTAL N
(49)	STRUCTURE LENGTH 8.5 M		WATER ADEQUACY 8
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	1.00000	APPROACH ROADWAY ALIGNMENT 6
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 7.1 M		TRAFFIC SAFETY FEATURES 1000
	DECK WIDTH OUT TO OUT 7.3 M	(113)	SCOUR CRITICAL BRIDGES 5
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 6.7 M		****** PROPOSED IMPROVEMENTS *******
	BRIDGE MEDIAN- NO MEDIAN 0	(75)	TYPE OF WORK- CODE
(34)	SKEW 0 DEG (35) STRUCTURE FLARED NO		LENGTH OF STRUCTURE IMPROVEMENT M
	INVENTORY ROUTE MIN VERT CLEAR 99.99 M		BRIDGE IMPROVEMENT COST
	INVENTORY ROUTE TOTAL HORIZ CLEAR 6.7 M	000	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M		TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M		SEANSEAN ANY TO MANUAL AND
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	17.1	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR LT 0.0 M		FUTURE ADT 2061
	**************************************	(115)	YEAR OF FUTURE ADT 2029
			**************************************
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 05/10 (91) FREQUENCY 24 MO
2	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M	A)	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	C)	OTHER SPECIAL INSP- NO MO C)