

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0511M

Facility Carried: VILLA PARK ROAD

Location : 1.74 MI. E/O ROUTE 55 FW

City

X

Inspection Date : 05/18/2012

Inspection Type

Routine FC Underwater Special Other

Bridge Inspection Report

STRUCTURE NAME: SANTIAGO CREEK

CONSTRUCTION INFORMATION

Year Built : 1982 Year Widened: N/A Length (m) : 6.7

Skew (degrees): 0

No. of Joints : No. of Hinges :

Structure Description: Single 6.4 m diameter x 100.5 m L corrugated steel multiplate pipe

culvert (non-grade top) beneath 12.2 m of earth fill.

Span Configuration : (W) 1 @ 6.4 m (E) clear, normal

LOAD CAPACITY AND RATINGS

Design Live Load: UNKNOWN

Inventory Rating: 32.4 metric tonnes

Operating Rating: 54.1 metric tonnes

Calculation Method: NO RATING ANALYSIS Calculation Method: NO RATING ANALYSIS

Permit Rating : PPPPP

Type 3S2:Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 25.0 m (N)

Posting Load : Type 3: Legal

Total Width:

.0 m Rail Description: Chain link fence. Net Width:

. 0 m

No. of Lanes: 4

Rail Code : 0000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Channel Description: Earth basin reservoir downstream and natural gravel upstream.

INSPECTION COMMENTARY

CONDITION OF STRUCTURE

The culvert is immersed in water at both side, which could not be inspected. It is qaulified to be buried hazard, a surface insepection was done only, which appeared to be in good condition.

ELEMENT INSPECTION RATINGS													_
Elem No. Element Description	Env	Total Qty	Units	St.	Qt 1	y in St.	eac 2	ch Co St.	ndi	tion St.	Sta 4	te St	
240 Unpainted Steel Culvert	2	101	m.	1	01		0		0		0		

WORK RECOMMENDATIONS - NONE

Inspected By : MT.Zaarour/A.Shenouda

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Mikhael T. Zaarour (Registered Civil Engineer)



STRUCTURE INVENTORY AND APPRAISAL REPORT

(2.1	**************************************	**************************************
	STATE NAME- CALIFORNIA 069	STATUS
	STRUCTURE NUMBER 55C0511M	
	INVENTORY ROUTE (ON/UNDER) - ON 140000000	HEALTH INDEX 100.0
	HIGHWAY AGENCY DISTRICT 12	PAINT CONDITION INDEX = N/A
(3)	COUNTY CODE 059 (4) PLACE CODE 00000	******** CLASSIFICATION ******** CODE
(6)	FEATURE INTERSECTED- SANTIAGO CREEK	(112) NBIS BRIDGE LENGTH- YES Y
	FACILITY CARRIED- VILLA PARK ROAD	(104) HIGHWAY SYSTEM- NOT ON NHS
(9)	LOCATION- 1.74 MI. E/O ROUTE 55 FWY	(26) FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
(11)	MILEPOINT/KILOMETERPOINT 0	(100) DEFENSE HIGHWAY- NOT STRAHNET 0
(12)	BASE HIGHWAY NETWORK- PART OF NET 1	(101) PARALLEL STRUCTURE- NONE EXISTS N
(13)	LRS INVENTORY ROUTE & SUBROUTE 000000L03000	(102) DIRECTION OF TRAFFIC- 2 WAY 2
(16)	LATITUDE 33 DEG 48 MIN 37.24 SEC	(103) TEMPORARY STRUCTURE-
(17)	LONGITUDE 117 DEG 48 MIN 19.16 SEC	(105) FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE % SHARE %	Visit Control
	BORDER BRIDGE STRUCTURE NUMBER	(20) TOLL- ON FREE ROAD
		(21) MAINTAIN- COUNTY HIGHWAY AGENCY 02
	****** STRUCTURE TYPE AND MATERIAL *******	(22) OWNER- COUNTY HIGHWAY AGENCY 02
(43)	STRUCTURE TYPE MAIN: MATERIAL- STEEL	(37) HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
(44)	TYPE- CULVERT CODE 319	
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA	********* CONDITION ********** CODE
/ 4 = \	TYPE- OTHER/NA CODE 000	14
	NUMBER OF SPANS IN MAIN UNIT	(59) SUPERSTRUCTURE N
(46)	NUMBER OF APPROACH SPANS 0	(60) SUBSTRUCTURE N
(107)	DECK STRUCTURE TYPE- NOT APPLICABLE CODE N	(61) CHANNEL & CHANNEL PROTECTION 9
(108)	WEARING SURFACE / PROTECTIVE SYSTEM:	(62) CULVERTS 7
A)	TYPE OF WEARING SURFACE- NOT APPLICABLE CODE N	****** LOAD RATING AND POSTING ****** CODE
B)	TYPE OF MEMBRANE- NOT APPLICABLE CODE N	(21) DECICAL LOAD INVOVO
C)	TYPE OF DECK PROTECTION- NOT APPLICABLE CODE N	(31) PESIGN HOAD- ONANOWN 0
	********* AGE AND SERVICE *********	(63) OPERATING RATING METHOD- NO RATING ANALYSIS 5
(27)	YEAR BUILT 1982	24.1
	YEAR RECONSTRUCTED 0000	(65) INVENTORY RATING METHOD- NO RATING ANALYSIS 5 (66) INVENTORY RATING-
(42)	TYPE OF SERVICE: ON- HIGHWAY-PEDESTRIAN 5	32.1
	UNDER- WATERWAY 5	(70) BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES: ON STRUCTURE 04 UNDER STRUCTURE 00	(41) STRUCTURE OPEN, POSTED OR CLOSED-
	AVERAGE DAILY TRAFFIC 26000	
	YEAR OF ADT 2003 (109) TRUCK ADT 1 %	******* APPRAISAL ********* CODE
(19)	BYPASS, DETOUR LENGTH 6 KM	(67) STRUCTURAL EVALUATION 7
	********** GEOMETRIC DATA **********	(68) DECK GEOMETRY N
(48)	LENGTH OF MAXIMUM SPAN 6.4 M	(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	STRUCTURE LENGTH 6.7 M	(71) WATER ADEQUACY 9
(50)	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	(72) APPROACH ROADWAY ALIGNMENT 8
(51)	BRIDGE ROADWAY WIDTH CURB TO CURB 0.0 M	(36) TRAFFIC SAFETY FEATURES 0000
(52)	DECK WIDTH OUT TO OUT 0.0 M	(113) SCOUR CRITICAL BRIDGES 8
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 25.0 M	******* PROPOSED IMPROVEMENTS *******
(33)	BRIDGE MEDIAN- NO MEDIAN 0	(75) MVDD OF WORK
(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 25.0 M	(95) ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96) TOTAL PROJECT COST
(54) N	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(97) YEAR OF IMPROVEMENT COST ESTIMATE (114) FUTURE ADT
(56) N	MIN LAT UNDERCLEAR LT 0.0 M	(115) VEAD OF EVENUE AND
*	******** NAVIGATION DATA *********	(115) YEAR OF FUTURE ADT 2029
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	**************************************
	PIER PROTECTION- CODE	(90) INSPECTION DATE 05/12 (91) FREQUENCY 24 MO
	NAVIGATION VERTICAL CLEARANCE 0.0 M	(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
(116) V	ERT-LIFT BRIDGE NAV MIN VERT CLEAR M	A) FRACTURE CRIT DETAIL- NO MO A)
	AVIGATION HORIZONTAL CLEARANCE 0.0 M	B) UNDERWATER INSP- NO MO B)
		C) OTHER SPECIAL INSP- NO MO C)