

#### DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0450M

Facility Carried: IRVINE BOULEVARD
Location : AT GROVELAND STREET

City

ity :

Inspection Date : 05/06/2010

Inspection Type

Bridge Inspection Report

Routine FC Underwater Special Other X:office

## STRUCTURE NAME: CENTRAL IRVINE CHANNEL

## CONSTRUCTION INFORMATION

Year Built : 1985 Skew (degrees): 0 Year Widened: N/A No. of Joints : 0 Length (m) : 11.9 No. of Hinges : 0

Structure Description: Single span CIP/RC deck slab with RC open end diaphragm abutments,

all supported upon concrete piles.

Span Configuration : (W) 1 @ 11.0 m (E) c/c

#### LOAD CAPACITY AND RATINGS

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

Inventory Rating: 32.4 metric tonnes Calculation Method: NO RATING ANALYSIS Operating Rating: 54.1 metric tonnes Calculation Method: NO RATING ANALYSIS

Permit Rating : PPPPP

Posting Load : Type 3: <u>Legal</u> Type 3S2: <u>Legal</u> Type 3-3: <u>Legal</u>

## DESCRIPTION ON STRUCTURE

Deck X-Section: (S) 0.2 m br, 9.9 m, 6.1 m cu med, 9.9 m, 0.2 m br (N)

Total Width: 26.2 m Rail Description: None. Net Width: 19.8 m No. of Lanes: 4 Rail Code : NNNN

Min. Vertical Clearance: Unimpaired

## DESCRIPTION UNDER STRUCTURE

Channel Description: None.

## CONDITION TEXT

REVISIONS

Bridge Number: 55C0450M. A RC box culvert was constructed in 2004, and replaces the existing structure. The existing deck slab structure has been backfilled with slurry sand, and has been abandoned and no longer be inspected as an bridge. The existing deck slab is still visible in the intersection of Irvine Boulevard and Groveland Street.

SPECIAL FILE WORK

Remove the records for  $Bridge\ Number\ 55C0450M$  from the SMART Active Files and place them in the Superseded Files.

ELEMENT INSPECTION RATINGS F#Elem Element Description	Env	Total	Units	Qt	y in ea	ch Condi	tion St	ate
		Qty		St. 1	St. 2	St. 3	St. 4	St. 5
101 38 Concrete Slab - Bare	2	210	sq.m.	210	0	0	0	0
101 215 Reinforced Conc Abutment	2	52	m.	52	0	0	0	0
101 227 Reinforced Conc Submerged Pile	2	22	ea.	22	0	0	0	0

# WORK RECOMMENDATIONS - NONE

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55C0450M/AAAE/18661

Inspected By : A.Shenouda/MT.Zaarour

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Mikhael T. Zaarour (Registered Civil Engineer)



# STRUCTURE INVENTORY AND APPRAISAL REPORT

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(1)	STATE NAME- CALIFORNIA 069		STATUS
(8)	STRUCTURE NUMBER 55C0450M		
(5)	INVENTORY ROUTE (ON/UNDER) - ON 1400M0230	a V	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- CENTRAL IRVINE CHANNEL	(112)	NBIS BRIDGE LENGTH- YES Y
	FACILITY CARRIED- TRVINE BOULEVARD	(104)	HIGHWAY SYSTEM- NOT ON NHS 0
	LOCATION- AT GROVELAND STREET	(26)	FUNCTIONAL CLASS- OTHER PRIN ART URBAN 14
20,000	MILEPOINT/KILOMETERPOINT 0	(100)	DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1	(101)	PARALLEL STRUCTURE- NONE EXISTS N
33077770000	LRS INVENTORY ROUTE & SUBROUTE 000000M02300	(102)	DIRECTION OF TRAFFIC- 2 WAY 2
	LATITUDE 33 DEG 42 MIN 10 SEC	(103)	TEMPORARY STRUCTURE-
	LONGITUDE 117 DEG 44 MIN 38 SEC	(105)	FED.LANDS HWY- NOT APPLICABLE 0
	BORDER BRIDGE STATE CODE	(110)	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
\$110,000,00		(20)	TOLL- ON FREE ROAD 3
(99)	BORDER BRIDGE STRUCTURE NUMBER	(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		******** CODE
	TYPE- OTHER/NA CODE 000	(58)	DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 1	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 7
20 10	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION 8
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
,	TYPE OF WEARING SURFACE- CONCRETE CODE 1		****** LOAD RATING AND POSTING ****** CODE
	TYPE OF MEMBRANE- NONE CODE 1	(21)	
	TYPE OF DECK PROTECTION- NONE CODE 0		DESIGN LOAD- MS-18+MOD OR HS-20+MOD 6
	****** AGE AND SERVICE ********		OPERATING RATING METHOD- NO RATING ANALYSIS 5
(0.7)	Service —		OPERATING RATING- 54.1
	YEAR BUILT 1985		INVENTORY RATING METHOD- NO RATING ANALYSIS 5
90500000	YEAR RECONSTRUCTED 0000		INVENTORY RATING- 32.4
(42)	TYPE OF SERVICE: ON- HIGHWAY 1 UNDER- OTHER 0		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES:ON STRUCTURE 04 UNDER STRUCTURE 00	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 15000		DESCRIPTION- OPEN, NO RESTRICTION
	YEAR OF ADT 2001 (109) TRUCK ADT 3 %		********* APPRAISAL ********* CODE
	BYPASS, DETOUR LENGTH 2 KM	(67)	STRUCTURAL EVALUATION 7
(19)	DIFAGO, DETOOK BENGIN	1,41,000,000,000	DECK GEOMETRY 7
	*********** GEOMETRIC DATA **********		UNDERCLEARANCES, VERTICAL & HORIZONTAL N
	LENGTH OF MAXIMUM SPAN 11.0 M		WATER ADEQUACY 9
	STRUCTURE LENGTH 11.9 M		APPROACH ROADWAY ALIGNMENT 8
	CURB OR SIDEWALK: LEFT 0.0 M RIGHT 0.0 M	,	TRAFFIC SAFETY FEATURES NNNN
	BRIDGE ROADWAY WIDTH CURB TO CURB 19.8 M		SCOUR CRITICAL BRIDGES 8
	DECK WIDTH OUT TO OUT 26.2 M	()	******* PROPOSED IMPROVEMENTS *******
(32)	APPROACH ROADWAY WIDTH (W/SHOULDERS) 19.8 M		
	BRIDGE MEDIAN- CLOSED (NO BARRIER) 2		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
	INVENTORY ROUTE TOTAL HORIZ CLEAR 9.9 M	(95)	ROADWAY IMPROVEMENT COST
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST
	MIN VERT UNDERCLEAR REF- NOT H/RR 0.00 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE
	MIN LAT UNDERCLEAR RT REF- NOT H/RR 0.0 M	(114)	FUTURE ADT 30605
(56)	MIN LAT UNDERCLEAR LT 0.0 M	(115)	YEAR OF FUTURE ADT 2027
	*********** NAVIGATION DATA **********		**************************************
(38)	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 03/05 (91) FREQUENCY 48 MO
	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
(39)	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
(116)	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		OTHER SPECIAL INSP- NO MO C)