

DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 55C0550

Facility Carried: ALISO CREEK ROAD

Location : 100' W/O ALICIA PARKWAY

City

Inspection Date: 05/24/2017

Inspection Type

Bridge Inspection Report Routine FC Underwater Special Other

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STRUCTURE NAME: ALISO CREEK

CONSTRUCTION INFORMATION

Year Built : 1988 Skew (degrees): 20 Year Modified: N/A No. of Joints : 0 Length (m) : 51.8 No. of Hinges : 0

Structure Description: Single span CIP/PS concrete box girder (16 cells) with RC open end

diaphragm abutments with monolithic wingwalls, all supported upon

concrete piles.

The bridge is widen with a box girder at the north end.

Span Configuration : (W) 170.34 ft (E)

SAFE LOAD CAPACITY AND RATINGS

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

Inventory Rating: RF=1.00 =>32.4 metric tons Calculation Method: ASSIGNED (LFD)
Operating Rating: RF=1.67 =>54.1 metric tons Calculation Method: ASSIGNED (LFD)

Permit Rating : PPPPP

Posting Load : Type 3: Legal Type 3S2: Legal Type 3-3: Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: (N) 1.00 ft br, 5.00 ft sw, 113.00 ft, 5.00 ft sw, 1.00 ft br (N)

Total Width: 38.0 m Net Width: 34.5 m No. of Lanes: 9 Speed: 50 mph

Min. Vertical Clearance: Unimpaired Overlay Thickness: 0.0 inches

Rail Code: 0000

Rail Type Location Length (ft) Rail Modifications
Type 26 Right/Left 1085

DESCRIPTION UNDER STRUCTURE

Channel Description: Natural earth, trapezoidal with RC slope protection through the site.

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.

The element condition information contained in this report represents the current condition of the bridge based on the most recent routine and special inspections. Some of the notes presented below may be from an inspection that occurred prior to the date noted in this report. Refer to the Scope and Access section of this inspection report for a description of which portions of the bridge were inspected on this date.

INSPECTION COMMENTARY

SCOPE AND ACCESS

This inspection was performed by walking on the sidewalks and under the span of the superstructure. All elements were visually inspected, a full inspection is performed.

The water in the channel was 5 inches deep and 50 feet wide at time of inspection.

Printed on: Friday 11/17/2017 03:15 PM

INSPECTION COMMENTARY

REVISIONS

The entire quantity of concrete abutments ELI #215 is modified from 93 m to 123 m because the wingwalls are monolithic with the abutments.

DECK

There is a loop detector in the concrete deck at the easterly end of the eastbound lanes. (see the attached photo no. 2)

SAFE LOAD CAPACITY

A Load Rating Summary Sheet dated 03/30/3013 is on file for this structure. The current rating has been assigned in accordance with SM&I procedures.

ELEME	NT INSPECTI	ON RATINGS AND COMMENTARY										
Elem No.	Defect Defect /Prot	t Element Description	Env	Total Qty	Units		each Co St. 2					
16		Top Flange-RC	2	1970	sq.m	1720	200	50	0			
	1130	Cracking (RC and Other)	2	250		0	200	50	0			
The co	(16-1130) The concrete deck exhibits several map and transverse cracks at the east Abutment area, up to 0.2 inches wide, 2 feet apart and 50 feet long; and few longitudinal cracks, up to 0.05 inches wide and 5-10 feet long at the west Abutment area. (see the attached photos no. 4 to 6)											
104		Box Girder-PS Conc.	2	104	m	94	10	0	0			
	1110	Cracking (PS Conc.)	2	10		0	10	0	0			
east of long. 215 (215) Monoli	corner; and f (see the at	box girder exhibits three longituding we longitudinal cracks with white estached photo no. 1) Abutment-RC Is are included in the total quantity if it is a second to the	ffloresc 2									
227		Pile-RC	2	1	ea.	1	0	0	0			
		s included to indicate the presence inspection. No indication of pile Slope Protection					September 1 Edward 1984	Committee of the Contract				
There were no significant defects noted.												
331		Railing-RC	2	104	m	84	20	0	0			
	1080	Delamination/Spall/Patched Area	2	15		0	15	0	0			
	1130	Cracking (RC and Other)	2	5		0	5	0	0			

ELEMENT INSPECTION RATINGS AND COMMENTARY

Elem Defect Defect Element Description

No. /Prot

Env Total Units Qty in each Condition State

St. 1 St. 2 St. 3 St. 4

(331-1080)

The south rail exhibits several spalls +/- 4 inches X 4 inches X 1 inch.

The south rail exhibits vertical cracks, up to 0.04 inches wide. (see the attached photo no. 3)

WORK RECOMMENDATIONS

RecDate: 03/30/2013

EstCost:

Seal the concrete deck cracks with

Action : Deck-Methacrylate

StrTarget: 2 YEARS methacrylate.

Work By: LOCAL AGENCY Status : PROPOSED

DistTarget:

Team Leader : Ashraf Shenouda

Report Author :

Ashraf Shenouda

Inspected By :

A.Shenouda/KD.Henderson

Ashraf Shenouda (Registered Civil Engineer)

STRUCTURE INVENTORY AND APPRAISAL REPORT

STATE NAME - CALIFORNIA 058 STATES 92.3		**************************************	****		***********
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DESCRIPTION - OPEN, NO RESTRICTION CODE	(20)		5	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
(30) YEAR OF ADT 2011 (109) TRUCK ADT 1 % **********************************					DESCRIPTION- OPEN, NO RESTRICTION
(19) BYPASS, DETOUR LENGTH 3 KM (67) STRUCTURAL EVALUATION 7 ************************************					********* ADDRATSAL ********* CODE
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(48) LENGTH OF MAXIMUM SPAN 50.0 M (69) UNDERCLEARANCES, VERTICAL & HORIZONTAL N (49) STRUCTURE LENGTH 51.8 M (71) WATER ADEQUACY 8 (50) CURB OR SIDEWALK: LEFT 1.5 M RIGHT 1.5 M (72) APPROACH ROADWAY ALIGNMENT 8 (73) ERIDGE ROADWAY WIDTH CURB TO CURB 34.5 M (13) SCOUR CRITICAL BRIDGES 8 (74) APPROACH ROADWAY WIDTH (W/SHOULDERS) 34.5 M (13) SCOUR CRITICAL BRIDGES 8 (75) APPROACH ROADWAY WIDTH (W/SHOULDERS) 34.5 M (13) SCOUR CRITICAL BRIDGES 8 (75) APPROACH ROADWAY WIDTH (W/SHOULDERS) 34.5 M (75) TYPE OF WORK- CODE (75) TYPE OF WORK	(19)	Dillion Dillon Dillon			DDGV GRONDEDV
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	(40)	NAVIGATION HORIZONTAL CLEARANCE 0	.0 M	C)	OTHER SPECIAL INSP- NO MO C)

ALISO CREEK

100' W/O ALICIA PARKWAY

05/24/2017 [AAAK]

107 - PHOTO-Super-Damage/Deteroration



Photo No. 1

The soffit of the box girder hs 3 longitudinal cracks with white efflorescence.





Photo No. 2 loop detector in the deck at east end at eastbound lanes.

05/24/2017 [AAAK]

119 - PHOTO-Rail-Damage/Deterioration



Photo No. 3
Vertical cracks at the south rail.



Photo No. 4
Map cracs at the east end, up to 0.2 inches wide.

05/24/2017 [AAAK]





Map cracs at the east end, up to 0.2 inches wide.

102 - PHOTO-Deck-Damage/Deterioration



Photo No. 6
Map cracs at the east end, up to 0.2 inches wide.