

Colorado Department of Transportation
Structure Inspection and Inventory Report (English Units)

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: **194.308 mi**

Bridge Key: F-17-JU

Inspection Date: **7/14/2011**

Sufficiency Rating: **90.4** **Not Eligible**

Rgn/Sectn 2E/2M:	68
Trans Region 2T:	02
County Code 3:	035
DOUGLAS	
Place Code 4:	45955
LONE TREE	
Rte.(On/Under)5A:	1
Signing Prefix 5B:	1
Level of Service 5C:	1
Directional Suffix 5E:	0
Feature Intersected 6:	
SH 470 ML, RAMPS	
Facility Carried 7:	
25 ML SBND	
Alias Str No.8A:	
Prll Str No. 8P	
F-17-JV	
Location 9:	18.172572291
JCT I 25 AND SH 470	
Max Clr 10:	5.54
BaseHiway Net12:	1
IrsinvRout 13A	000000025A
IrssubRout No13B:	00
Latitude 16:	39d 33' 17"
Longitude 17:	104d 52' 13"
Range18A:	67 W
Township18B:	67
Section18C:	3
Detour Length 19:	0.6 mi
Toll Facility 20:	3
Custodian 21:	1
Owner 22:	1
Functional Class 26:	11
Year Built 27:	1990
Lanes on 28A:	4
Lanes Under 28B:	4
ADT 29:	52,000
Year of ADT 30:	2007
Design Load 31:	6
Apr Rdwy Width 32:	77.0 ft
Median 33:	1
Skew 34:	11.00 °
Structure Flared 35:	1
Sfty Rail 36a/b/c/d:	1 1 1 1
Rail ht36h:	34 "in"

Hist Signif 37:	5
Posting status 41:	A
Service on/un 42A/B:	6 1
Main Mat/Desgn 43A/B:	6 2
Appr Mat/Desgn 44A/B:	0 0
Main Spans Unit 45:	2
Approach Spans 46:	0
Horiz Clr 47:	67.9 ft
Max Span 48:	75.5 ft
Str Length 49:	160.0 ft
Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft
Width Curb to Curb 51	67.7 ft
Width Out to Out 52:	70.7 ft
Deck Area:	11,334.4 sq. ft
Min Clr Ovr Brgd 53:	17.09
Min Undrclr Ref 54A:	H
Min Undrclr 54B:	18.6 ft
Min Lat Clrnce Ref R 55A:	H
Min Lat Undrclr R 55B:	9.8 ft
Min Lat Undrclr L 56:	21.6043308
Deck 58:	8
Super 59:	8
Sub 60:	8
Channel/Protection 61:	N
Culvert 62:	N
Oprtng Rtg Method 63:	1 LF Load Fact
Operating Rating 64:	71.0
Inv Rtnng Method 65:	1
Inventory Rating 66:	42.0
Asph/Fill Thick 66T:	003 "in"
Str. Evaluation 67:	8
Deck Geometry 68:	6
Undrclr Vert/Hor 69:	8
Posting 70:	5
Waterway Adequacy 7	N
Approach Alignment 72:	8
Type of Work 75A:	
Work Done By 75B:	
Length of Improvment 76:	0.0 ft
Insp Team Indicator 90B:	RED TEAM
Inspector Name 90C:	TATALASKIT
Frequency 91:	24 months
FC Frequency 92A:	-1
UW Frequency 92B:	-1
SI Frequency 92C:	-1
FC Inspection Date 93A:	

UW Inspection Date 93B	
SI Date 93C:	
Bridge Cost 94:	\$ 0
Roadway Cost 95:	\$ 0
Total Cost 96:	\$ 0
Year of Cost Estimate 97:	
Brdr Brdg Code/% 98A/B:	
Border Bridge Number 99:	
Defense Highway 100:	1
Parallel Structure 101:	L
Direction of Traffic 102:	1
Temporary Structure 103	
Highway System 104:	1
Fed Lands Hiway 105:	0
Year Reconstructed 106	0000
Deck Type 107:	1
Wearing Surface 108A	6
Membrane 108B:	2
Deck Protection 108C:	1
Truck ADT 109:	9 %
Trk Net 110:	1
Pier Protection 111:	#
NBIS Length 112:	Y
Scour Critical 113:	N
Scour Watch 113M:	
Future ADT 114:	81,120
Year of Future ADT 115	2027
CDOT Str Type 120A:	CPGC
CDOT Constr Type 120B	31
Inspection Indic 122A:	
Inspection Trip 122AA	
Scheduling Status 122B	
Maintenance Patrol 123:	8
Expansion Dev/Type124	O
Brdg Rail Type/Mod 125A/B	R 0
Posting Trucks 129A/B/C	0 0 0
Str Rating Date 130:	6/23/1998
Special Equip 133:	-1
Vert Clr N/E 134A/B/C:	E 19.33 19.00
Vert Clr S/W 135A/B/C	W 18.75 18.58
Vertical Clr Date:	8/31/1999
Weight Limit Color: 139	0
Str Billing Type:	U
Userkey 1 - System:	ONSYS
Userkey 7-Update Indic	

Inspector Name: TATALASKIT

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Element Inspection Report

Elm/En	Description	Units	Total Qty	% in 1	CS 1	% in 2	CS 2	% in 3	CS 3	% in 4	CS 4	% in 5	CS 5
26/4	Conc Deck/Coatd Bars	(SF)	11,328	100 %	11,328	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	1,264	100 %	1,264	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	44	100 %	44	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	167	100 %	167	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	79	97 %	77	3 %	2	0 %	0	0 %	0	0 %	0
300/4	Strip Seal Exp Joint	(LF)	162	100 %	162	0 %	0	0 %	0	0 %	0	0 %	0
301/4	Pourable Joint Seal	(LF)	162	100 %	162	0 %	0	0 %	0	0 %	0	0 %	0
309/4	Elast. Bearng-Teflon	(EA)	16	100 %	16	0 %	0	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	320	100 %	320	0 %	0	0 %	0	0 %	0	0 %	0
340/4	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/4	Substr Conc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
530/1	Approach Guardrail A	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	(3 - 4) inches asphalt. Mod. raveling along longit. seam, partially tar sealed. Some raveling along Lt. side near Abut. 3. Stay-in-place forms in good condition and overhangs without forms look good.
109/4	P/S Conc Open Girder	Girders look good.
210/4	R/Conc Pier Wall	4 - 11 foot pier walls. Hairline shrinkage cracks.
215/4	R/Conc Abutment	Retaining wall abutments have grooved coating with graphics on them. Couple of light vertical cracks.
234/4	R/Conc Cap	Left end has 2 foot long light horiz crack.
300/4	Strip Seal Exp Joint	These joints are located at appr. slab to pavement junction, both are covered with asphalt, but asph. is mod. cracking, and tar sealed.
301/4	Pourable Joint Seal	Poured joint seal between deck end and appr. slabs. Asphalt covered with no cracks.
309/4	Elast. Bearng-Teflon	8 at each abutment, dry, no dirt, hard to see, probably in good condition.
321/4	R/Conc Approach Slab	Asphalt covered with no signs of settling.
326/4	Bridge Wingwalls	Wingwalls at left (west) side only. Light diag. cracks at both on left.

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Elem/Env	Description	Element Notes
331/4	Conc Bridge Railing	Many light vert. cracks in both. Left rail has light scale at bottom. Some scuff marks.
340/4	Superstr Cnc Coating	Girder A and jersey barrier only, look good.
341/4	Substr Conc Coating	Some peeling on Col. 2A.
530/1	Approach Guardrail A	1/2 inch deep collision damage to top of 3 foot length of approach rail at left rear corner, and partially patched.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
353.08	Replace	10/29/2003	-1	2013	500

Seal asphalt cracks at ends of both approach slabs.

352.01	Cln & Wash	7/25/2001	-1	2013	200
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Clean out scupper drain at left fwd. corner.

Bridge Notes

Scupper at Lt. fwd corner is full of sand and other debris.

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Inspection Notes

Time: 12:40	Temp: 85	Weather: P/C
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Scope:

NBI: Element: Underwater: Fracture Critical: Other: Type: Regular NBI

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 07/14/2011

Inspector

Inspector