

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

Highway Number (ON) 5D: 470A

Mile Post (ON)11: 25.531 mi

Bridge Key: F-17-HL      Inspection Date: 12/14/2011      Sufficiency Rating: 87.2      Not Eligible

Rgn/Sectn 2E/2M:	68	Hist Signif 37:	5	UW Inspection Date 93B:	
Trans Region 2T:	02	Posting status 41:	A	SI Date 93C:	
County Code 3:	035	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 0
DOUGLAS		Main Mat/Desgn 43A/B:	6 2	Roadway Cost 95:	\$ 0
Place Code 4:	45955	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
LONE TREE		Main Spans Unit 45:	2	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	3	Horiz Clr 47:	50.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	85.0 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	164.6 ft	Parallel Structure 101:	R
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
YOSEMITE STREET		Width Curb to Curb 51:	50.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	53.5 ft	Highway System 104:	1
SH 470 ML EBND		Deck Area:	8,804.9 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	1991
		Min Undrclr Ref 54A:	H	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	18.5 ft	Wearing Surface 108A:	6
F-17-HM		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	2
Location 9:	328.05117409:	Min Lat Undrclr R 55B:	7.5 ft	Deck Protection 108C:	1
4.5 M E OF JCT SH 177		Min Lat Undrclr L 56:	3.750000021	Truck ADT 109:	5 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	8	Pier Protection 111:	#
IrsinvRout 13A:	000000470A	Sub 60:	8	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	N	Scour Critical 113:	N
Latitude 16:	39d 33' 30"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 52' 53"	Optprtng Rtg Method 63:	1 LF Load Factr	Future ADT 114:	80,560
Range18A:	66 W	Operating Rating 64:	58.0	Year of Future ADT 115:	2027
Township18B:	66	Inv Rtgng Method 65:	1	CDOT Str Type 120A:	CPGC
Section18C:	3	Inventory Rating 66:	28.0	CDOT Constr Type 120B:	31
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	6	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	4	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	4	Maintenance Patrol 123:	30
Functional Class 26:	12	Posting 70:	5	Expansion Dev/Type124:	O
Year Built 27:	1984	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	R 0
Lanes on 28A:	3	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	7	Type of Work 75A:		Str Rating Date 130:	7/13/2001
ADT 29:	53,000	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2007	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	6	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	50.0 ft	Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	12/1/2005
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	12.00 °	FC Frequency 92A:	-1	Str Billing Type:	U
Structure Flared 35:	0	UW Frequency 92B:	-1	Userkey 1 - System:	ONSYS
Sfty Rail 36a/b/c/d:	1 0 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	33 "in"	FC Inspection Date 93A:			

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)	8,806	100 %	8,806	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	972	100 %	972	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	34	100 %	34	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	102	100 %	102	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	48	100 %	48	0 %	0	0 %	0	0 %	0	0 %	0
301/4	Pourable Joint Seal	(LF)	110	100 %	110	0 %	0	0 %	0	0 %	0	0 %	0
302/4	Compressn Joint Seal	(LF)	110	49 %	54	46 %	50	6 %	6	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/4	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	330	100 %	330	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
358/4	Deck Cracking SmFlag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
359/4	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	3 Inches asphalt (1 inch of newer asphalt overlay in MLs). Previous cracks covered.
109/4	P/S Conc Open Girder	Several small spalls along right side of the top flange of Girder D due to widening construction. Otherwise look good.
210/4	R/Conc Pier Wall	Good Condition.
215/4	R/Conc Abutment	Light vert. cracking in Bay 1D at A1.
234/4	R/Conc Cap	Good condition.
301/4	Pourable Joint Seal	At abutments. Covered with asphalt. Light cracking in asphalt at both, with some D cracking at A1.
302/4	Compressn Joint Seal	At sleeper slab joints. Covered with asphalt. Light cracking in asphalt at both.
321/4	R/Conc Approach Slab	Covered with 1 inch of newer asphalt in MLs. Previous cracks covered with asphalt.
325/4	Slope Prot/Berms	There is a 15 foot tall retaining wall at toe of #3 and 8 foot at toe of #1. Minor settlement at top of slope paving along A1 left corner. Few light trans. cracks in A1 slope paving. Bottom half of 3 panels have been replaced at #1. Slope paving at #3 has pulled away about 2 inches from abutment.
326/4	Bridge Wingwalls	Horizontal cracking at construction joint. #3 right is spalling with exposed rebar at jt. with A3. Lt. end of A1 is spalled with active leaking below the jt.
331/4	Conc Bridge Railing	Few light vertical cracks. Some minor scrapes.

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Elem/Env	Description	Element Notes
340/4	Superstr Cnc Coating	Waterstaining. Peeling on inside face of concrete railing.
341/4	Substr Conc Coating	Beginning to weather. Some spots blotted out graffiti.
358/4	Deck Cracking SmFlag	See Element 26 comments.
359/4	Soffit Smart Flag	Several light transverse cracks with light efflorescence. Light trans. cracks with light efflorescence in Span 2, and diag. cracks with efflor. near abutments.

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
353.09	Br Dk Rpr	1/23/2008	-1	2013	55000

Consider removing existing asphalt add membrane and overlay.

**Bridge Notes**

**Inspector Beware:** Structure coating on slope paving makes slope slippery than expected.  
 Rt. rear appr. rail is pushed, spalled, and broken from rest of rail, and Rt. fwd. appr. rail is broken, probably from settling.  
 Lt. fwd. corner is settling a few inches.

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**Inspection Notes**

Time: 12:20 Temperature: 45 Degrees Weather: Mostly Clear Team Leader: TAT

**Scope:**

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/14/2011

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Inspector