

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

Highway Number (ON) 5D: 470A

Mile Post (ON)11: 23.009 mi

Bridge Key: F-17-HS      Inspection Date: 12/14/2011      Sufficiency Rating: 97.1      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:	1 5	Bridge Cost 94:	\$ 0
DOUGLAS		Main Mat/Desgn 43A/B:	5 2	Roadway Cost 95:	\$ 0
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
non-city		Main Spans Unit 45:	1	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:	38.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	128.0 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	130.5 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
BIG DRY CREEK		Width Curb to Curb 51:	38.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	41.5 ft	Highway System 104:	1
SH 470 ML EBND		Deck Area:	5,435.8 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	0000
		Min Undrclr Ref 54A:	N	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	6
F-17-HT		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	2
Location 9:	328.05117409:	Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	1
1.96 MI E OF JCT SH 177		Min Lat Undrclr L 56:	0	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:	8	Scour Critical 113:	
Latitude 16:	39d 33' 44"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 55' 31"	Oprtng Rtg Method 63:	1 LF Load Factr	Future ADT 114:	66,920
Range18A:	67 W	Operating Rating 64:	57.0	Year of Future ADT 115:	2027
Township18B:	67	Inv Rtnng Method 65:	1	CDOT Str Type 120A:	CPG
Section18C:	6	Inventory Rating 66:	34.1	CDOT Constr Type 120B:	38
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	7	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	6	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	30
Functional Class 26:	12	Posting 70:	5	Expansion Dev/Type124:	C
Year Built 27:	1984	Waterway Adequacy 7:	9	Brdg Rail Type/Mod 125A/B:	R 0
Lanes on 28A:	2	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes Under 28B:	0	Type of Work 75A:		Str Rating Date 130:	1/24/1997
ADT 29:	47,800	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:	5	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0.00
Apr Rdwy Width 32:	38.0 ft	Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	1/1/1901
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	0.00 °	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 1 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	34 "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)	5,412	0 %	0	0 %	0	100 %	5,412	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	896	100 %	896	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	83	100 %	83	0 %	0	0 %	0	0 %	0	0 %	0
300/4	Strip Seal Exp Joint	(LF)	78	100 %	78	0 %	0	0 %	0	0 %	0	0 %	0
321/4	R/Conc Approach Slab	(EA)	2	0 %	0	100 %	2	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)	262	99 %	259	1 %	3	0 %	0	0 %	0	0 %	0
340/1	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
501/1	Channel Cond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
502/1	ChannProtMatCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
504/1	BankCond	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
505/4	Debris Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
26/4	Conc Deck/Coatd Bars	4 inches of new asphalt overlay. Wearing in MLs. Deck was just overlaid, so deck remains in Pontis C.S. of 3. SIP forms between girders in soffit.
109/4	P/S Conc Open Girder	All in good condition. Some minor chips throughout on bottom flange.
215/4	R/Conc Abutment	3 to 4 light vertical cracks in each. Horizontal crack with efflorescence, runs along construction joint. Seepage at Abutment 2 joint with Girder G.
300/4	Strip Seal Exp Joint	New strip seals at both abutments per plans, but anchorage sounds loose at both. Opened almost 2 inches at A1, and 1.75 inches at A2. Filled with dirt.
321/4	R/Conc Approach Slab	Asphalt overlaid, some settling about 2 inches, most noticeable at rails at abutments. Many cracks in asphalt at Abutments. See 2005 photo.
325/4	Slope Prot/Berms	Embedded riprap covered with dirt.
326/4	Bridge Wingwalls	U type Abutments. Erosion starting at A1 right due to seepage through joint. Hairline diagonal crack at each with efflorescence.
331/4	Conc Bridge Railing	Typical light vertical cracks some with efflorescence. Jersey barriers finish is peeling. A1 left gouged by plow. Spalling along top of Lt. rail near A1. See 2005 photos.
340/1	Superstr Cnc Coating	Some staining due to swallow nests. Peeling throughout on rails, otherwise looks ok.
341/4	Substr Conc Coating	Marker graffiti on face of A1, A4. A2 coating 6 inches above current ground line.

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501/1	Channel Cond	Big Dry Creek. Good alignment. Sand and gravel bottom. Active flowing stream.
502/1	ChannProtMatCond	Precast concrete block check dams/dikes with riprap around sides, about 25 feet upstream and 50 feet upstream, and about 450 feet at the downstream side.
504/1	BankCond	Grasses, brush, few trees, stable.
505/4	Debris Smart Flag	Bushes/trees to 6 inches in diameter growing between girders and as high as deck and trapping small debris, on right side, upstream edge of bridge (photo 12-2-99).

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
398	Replace	12/1/2005	-1	2013	800

Remove trees from under structure and along right side.

**Bridge Notes**

**Utilities: 4 inch metal conduit on left side, mounted to top flange of Girder A.**

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**Inspection Notes**

Time: 10:00 Temperature: 35 Degrees Weather: Cloudy Team Leader: TAT

**Scope:**

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/14/2011

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Inspector