

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

Highway Number (ON) 5D: 470A

Mile Post (ON)11: 19.596 mi

Bridge Name: F-17-HX Inspection Date: 3/5/2013 Sufficiency Rating: 99.0 Not Eligible

NBI Reporting ID:	F-17-HX	Hist Signif 37:	5	UW Inspection Date 93B:	
Rgn/Sectn 2E/2M:	68	Posting status 41:	A	SI Date 93C:	
Trans Region 2T:	02	Service on/un 42A/B:	6 1	Bridge Cost 94:	\$ 0
County Code 3:	035	Main Mat/Desgn 43A/B:	6 2	Roadway Cost 95:	\$ 0
DOUGLAS		Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 0
Place Code 4:	00000	Main Spans Unit 45:	2	Year of Cost Estimate 97:	
non-city		Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Rte.(On/Under)5A:	1	Horiz Clr 47:	38.0 ft	Border Bridge Number 99:	
Signing Prefix 5B:	3	Max Span 48:	106.0 ft	Defense Highway 100:	0
Level of Service 5C:	1	Str Length 49:	204.6 ft	Parallel Structure 101:	L
Directional Suffix 5E:	0	Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
Feature Intersected 6:		Width Curb to Curb 51:	38.0 ft	Temporary Structure 103:	
BROADWAY		Width Out to Out 52:	41.5 ft	Highway System 104:	1
Facility Carried 7:		Deck Area:	8,491. sq. ft	Fed Lands Hiway 105:	0
SH 470 ML WBND		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	0000
Alias Str No.8A:		Min Undrclr Ref 54A:	H	Deck Type 107:	1
		Min Undrclr 54B:	20.1 ft	Wearing Surface 108A:	6
Pril Str No. 8P		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	2
F-17-HW		Min Lat Undrclr R 55B:	8.0 ft	Deck Protection 108C:	1
Location 9:		Min Lat Undrclr L 56:	5.0 ft	Truck ADT 109:	6 %
1.5 MI W OF JCT SH 177		Deck 58:	7	Trk Net 110:	1
Max Clr 10:	328.1 ft	Super 59:	7	Pier Protection 111:	
BaseHiway Net12:	1	Sub 60:	7	NBIS Length 112:	Y
IrsinvRout 13A	000000470A	Channel/Protection 61:	N	Scour Critical 113:	N
IrrsubRout No13B:	00	Culvert 62:	N	Scour Watch 113M:	
Latitude 16:	39d 33' 51"	Oprrtg Rtg Method 63:	1 LF Load Factr	Future ADT 114:	57,597
Longitude 17:	104d 59' 18"	Operating Rating 64:	61.0	Year of Future ADT 115:	2027
Range18A:	68 W	Inv Rtg Method 65:	1	CDOT Str Type 120A:	CPGC
Township18B:	68	Inventory Rating 66:	36.0	CDOT Constr Type 120B:	31
Section18C:	3	Asph/Fill Thick 66T:	003 "in"	Inspection Indic 122A:	
Detour Length 19:	0.0 mi	Str. Evaluation 67:	7	Inspection Trip 122AA:	
Toll Facility 20:	3	Deck Geometry 68:	6	Inspection Schedule ID:	ODD MAY E14
Custodian 21:	1	Undrclr Vert/Hor 69:	5	Maintenance Patrol 123:	30
Owner 22:	1	Posting 70:	5	Expansion Dev/Type124:	O
Functional Class 26:	12	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	R 0
Year Built 27:	1985	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0 0 0
Lanes on 28A:	2	Type of Work 75A:		Str Rating Date 130:	11/21/1997
Lanes Under 28B:	6	Work Done By 75B:		Special Equip 133:	
ADT 29:	39,450	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	X 99.99 0
Year of ADT 30:	2007	Insp Team Indicator 90B:	WHITE TEAM	Vert Clr S/W 135A/B/C:	X 99.99 0
Design Load 31:	6	Inspector Name 90C:	STADIGM	Vertical Clr Date:	5/5/1905
Apr Rdwy Width 32:	38.0 ft	Frequency 91:	24 months	Weight Limit Color: 139:	0
Median 33:	1	FC Frequency 92A:		Str Billing Type:	U
Skew 34:	11.00 °	UW Frequency 92B:		Userkey 1 - System:	ONSYS
Structure Flared 35:	0	SI Frequency 92C:		Userkey 7-Update Indic:	
Sfty Rail 36a/b/c/d:	1 1 1 1	FC Inspection Date 93A:			
Rail ht36h:	34 "in"				

Inspector Name: STADIGM

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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)	8,491	100 %	8,491	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	1,212	100 %	1,212	0 %	0	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	30	100 %	30	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	86	100 %	86	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	43	95 %	41	5 %	2	0 %	0	0 %	0	0 %	0
300/1	Strip Seal Exp Joint	(LF)	80	100 %	80	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
325/4	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/4	Bridge Wingwalls	(EA)	4	0 %	0	100 %	4	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	410	100 %	410	0 %	0	0 %	0	0 %	0	0 %	0
340/1	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0
341/1	Substr Conc Coating	(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 of asphalt. A newer overlay that looks good.
109/4	P/S Conc Open Girder	The bottom of Girder 2C near midspan, above the base of the slope pavement, has a 3 foot x 1.5 foot patch; (see 2011 PHOTO).
210/4	R/Conc Pier Wall	Looks good.
215/4	R/Conc Abutment	Light diagonal cracks in the bays with utility blockouts. Vertical cracks are elsewhere, some with light efflor.
234/4	R/Conc Cap	A shallow surface spall at the Left end of the cap, on the bottom face. Otherwise looks good.
300/1	Strip Seal Exp Joint	At ends of approach slabs. Both are newer and generally look good. Open approximately 2 inches at #1, and 2 inches at #3. Some dirt in the glands. Polymer end dams look OK.
321/4	R/Conc Approach Slab	Covered with asphalt, same condition as the deck pavement. Approach barriers are still settled.
325/4	Slope Prot/Berms	Concrete slope pavement. Minor settlement along wing walls; 5 inches along the Left Forward, and approximately 2 inches along the other wing walls. Diagonal and horizontal cracks, with weeds growing through some of the joints. A retaining wall being constructed at the toe of the Forward slope, during the 2013 inspection, for widening of Broadway; (see 2013 PHOTO).
326/4	Bridge Wingwalls	U-type abutments wing walls with integral wing walls, and sub-approach wing walls. Integral walls have light vertical, and horizontal cracks. Sub approach walls have moderate to heavy vertical or diagonal cracks, and 3 to 4 inch deep spalling with exposed rebar breaking out below the deck overhangs; (see 2007 PHOTOS).
331/4	Conc Bridge Railing	Concrete Type R Jersey barriers. Less than typical vertical cracking. Light scale at the bases, with the coating peeling.

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340/1	Superstr Cnc Coating	On outside faces of exterior girders, overhangs, and bridge railing. Starting to peel and flake.
341/1	Substr Conc Coating	On abutment walls, wing walls, the pier wall, and the pier cap. Some peeling and flaking.
359/4	Soffit Smart Flag	Light transverse cracks with efflor., primarily from mid spans to the pier; (see 2011 PHOTO). Spalling on the deck overhangs, on the Right side at wing wall ends; (see 2007 PHOTOS). A few light transverse cracks with light efflor. in overhangs.

Bridge Notes

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Inspection Notes

TIME: 10:40 TEMP: 28 WEATHER: Clear

Scope:

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

Team Leader Inspection Check-off:

- FCM's
- Posting Signs
- Essential Repair Verification
- Vertical Clearance
- Stream Bed Profile

Inspection Team:

Inspection Date: 03/05/2013

Inspector: STADIGM

Inspector (Team Leader)