

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

Highway Number (ON) 5D: 470A

Mile Post (ON)11: 19.595 mi

Bridge Name: F-17-HW Inspection Date: 3/5/2013 Sufficiency Rating: 97.4 Not Eligible

NBI Reporting ID:	F-17-HW	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		Aprr 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:	98.0 ft	Defense Highway 100:	0
Level of Service 5C:	1	Str Length 49:	190.6 ft	Parallel Structure 101:	R
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:	7,908. sq. ft	Fed Lands Hiway 105:	0
SH 470 ML EBND		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:	16.6 ft	Wearing Surface 108A:	6
Pril Str No. 8P		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	2
F-17-HX		Min Lat Undrclr R 55B:	5.8 ft	Deck Protection 108C:	1
Location 9:		Min Lat Undrclr L 56:	2.5 ft	Truck ADT 109:	6 %
2.5 MI E OF JCT US 85		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' 17"	Operating Rating 64:	57.0	Year of Future ADT 115:	2027
Range18A:	67 W	Inv Rtg Method 65:	1	CDOT Str Type 120A:	CPGC
Township18B:	67	Inventory Rating 66:	34.1	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:	4	Maintenance Patrol 123:	30
Owner 22:	1	Posting 70:	5	Expansion Dev/Type124:	D
Functional Class 26:	12	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	R 0
Year Built 27:	1984	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:	8	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:	CHURCHESK	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:	32 "in"				

Inspector Name: CHURCHESK

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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)	7,908	100 %	7,908	0 %	0	0 %	0	0 %	0	0 %	0
109/4	P/S Conc Open Girder	(LF)	944	99 %	932	1 %	12	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	26	100 %	26	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	85	100 %	85	0 %	0	0 %	0	0 %	0	0 %	0
234/4	R/Conc Cap	(LF)	43	100 %	43	0 %	0	0 %	0	0 %	0	0 %	0
300/4	Strip Seal Exp Joint	(LF)	170	100 %	170	0 %	0	0 %	0	0 %	0	0 %	0
308/4	Constr Non Exp Jt	(LF)	170	100 %	170	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	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
331/4	Conc Bridge Railing	(LF)	382	100 %	382	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
359/4	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
362/4	Traf Impact SmFlag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
530/4	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 Inches of asphalt. New overlay in 2010. Looks good.
109/4	P/S Conc Open Girder	Few short hairline transverse cracks with efflorescence in top flange of few girders. Spall on bottom flange of Girder 1E (hit by high load) above #2 SBnd lane. (See 2007 Photo)
210/4	R/Conc Pier Wall	Waterstained and dirty. Looks OK.
215/4	R/Conc Abutment	Hairline to light vert. and diag. cracks in backwalls at utility blockouts.
234/4	R/Conc Cap	Look good.
300/4	Strip Seal Exp Joint	Strip seal expansion joints at roadway end of approach slabs. Both are open up to 2 inches, and filled with sand.
308/4	Constr Non Exp Jt	Not visible, overlaid with asphalt.
321/4	R/Conc Approach Slab	Overlaid with asphalt. Look OK.

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Elem/Env	Description	Element Notes
325/4	Slope Prot/Berms	Slope paving panels along #1 Rt. and #3 Lt. wingwalls have settled up to 7 inches, and pulled away from wings up to 1½ inches. Panels along #1 Lt. and #3 Rt. wings have settled up to 4 inches at end. Panels at right side of Abutment 1 have pulled away up to 1 inch. Some light horizontal and diagonal cracks across panels at both. There is a retaining wall being constructed at the toe of the #3 slope. (See 2013 Photo)
326/4	Bridge Wingwalls	U-type abutment wings, and sub-wings at end of wingwalls. Some light vertical and horizontal cracks with some efflorescence.
331/4	Conc Bridge Railing	Concrete Type R bridge rail (Jersey barrier). Light to moderate scale along bottom where coating has peeled. Typical light vertical cracks.
340/4	Superstr Cnc Coating	On exterior girders, overhangs, and bridge rail. Peeling at base of bridge rail.
341/4	Substr Conc Coating	On slope paving, abutments, wingwalls, pier wall, and pier cap. Peeling on wingwalls.
359/4	Soffit Smart Flag	Several transverse cracks throughout with light efflorescence, and some diagonal cracks near pier.
362/4	Traf Impact SmFlag	Bottom flange of Girder 1E is spalled above #2 SBnd lane. IMP ??/??/??; INSP 03/13/2007; REP 00/00/00.
530/4	Approach Guardrail A	Concrete approach rail has settled and/or pushed: Rail at #1 Lt. approach has settled 2 inches; Rail at #1 Rt. approach has settled 4¼ inches & pushed 2¼ inches; Rail at #3 Lt. & #3 Rt. approach has settled 1 inch. Minor spall in #1 Right approach rail near Abutment 1.

Bridge Notes

There is new concrete pavement, and a new retaining wall, being constructed under Span 2 during 2013 inspection. (See 2013 Photo)

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Inspection Notes

Temperature: 28°
Time: 10:40
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: CHURCHESK

Inspector (Team Leader)