

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

Highway Number (ON) 5D: 0

Mile Post (ON)11: 0.000 mi

Bridge Key: F-17-HJ      Inspection Date: 12/14/2011      Sufficiency Rating: 93.5      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   5	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:	2	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	5	Horiz Clr 47:	99.9 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	104.6 ft	Defense Highway 100:	0
Directional Suffix 5E:	0	Str Length 49:	211.5 ft	Parallel Structure 101:	N
Feature Intersected 6:		Curb Wdth L/R 50A/B:	1.7 ft   1.5 ft	Direction of Traffic 102:	2
SH 470 ML		Width Curb to Curb 51:	111.5 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	114.7 ft	Highway System 104:	0
QUEBEC STREET		Deck Area:	24,269.6 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	1985
		Min Undrclr Ref 54A:	H	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	16.7 ft	Wearing Surface 108A:	6
		Min Lat Clrnce Ref R 55A:	H	Membrane 108B:	2
Location 9:	328.05117409:	Min Lat Undrclr R 55B:	20.0 ft	Deck Protection 108C:	0
2.4 MI WEST OF JCT I 25		Min Lat Undrclr L 56:	4.00262476:	Truck ADT 109:	2 %
Max Clr 10:	99.99	Deck 58:	7	Trk Net 110:	0
BaseHiway Net12:	1	Super 59:	7	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' 49"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 54' 16"	Optprtng Rtg Method 63:	1 LF Load Factr	Future ADT 114:	42,000
Range18A:	67 W	Operating Rating 64:	58.0	Year of Future ADT 115:	2028
Township18B:	67	Inv Rtnng Method 65:	1	CDOT Str Type 120A:	CBGC
Section18C:	4	Inventory Rating 66:	35.1	CDOT Constr Type 120B:	4.
Detour Length 19:	2.0 mi	Asph/Fill Thick 66T:	004 "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:	4	Maintenance Patrol 123:	17
Functional Class 26:	06	Posting 70:	5	Expansion Dev/Type124:	C
Year Built 27:	1984	Waterway Adequacy 7:	N	Brdg Rail Type/Mod 125A/B:	R   1
Lanes on 28A:	8	Approach Alignment 72:	8	Posting Trucks 129A/B/C:	0   0   0
Lanes Under 28B:	4	Type of Work 75A:		Str Rating Date 130:	7/13/2001
ADT 29:	28,000	Work Done By 75B:		Special Equip 133:	-1
Year of ADT 30:	2008	Length of Improvment 76:	0.0 ft	Vert Clr N/E 134A/B/C:	E   16.92   16.67
Design Load 31:	6	Insp Team Indicator 90B:	RED TEAM	Vert Clr S/W 135A/B/C:	W   18.25   18.00
Apr Rdwy Width 32:	111.5 ft	Inspector Name 90C:	TATALASKIT	Vertical Clr Date:	1/1/1901
Median 33:	0	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   0   1   1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	36 "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
14/4	P Conc Deck/AC Ovly	(SF)	24,270	100 %	24,270	0 %	0	0 %	0	0 %	0	0 %	0
104/4	P/S Conc Box Girder	(LF)	2,508	99 %	2,488	1 %	20	0 %	0	0 %	0	0 %	0
210/4	R/Conc Pier Wall	(LF)	82	100 %	82	0 %	0	0 %	0	0 %	0	0 %	0
215/4	R/Conc Abutment	(LF)	241	98 %	236	2 %	5	0 %	0	0 %	0	0 %	0
301/4	Pourable Joint Seal	(LF)	229	72 %	166	28 %	63	0 %	0	0 %	0	0 %	0
302/4	Compressn Joint Seal	(LF)	229	50 %	114	40 %	91	10 %	24	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
333/4	Other Bridge Railing	(LF)	424	100 %	424	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

Elem/Env	Description	Element Notes
14/4	P Conc Deck/AC Ovly	4 inches of asphalt. Newer overlay. Looks good
104/4	P/S Conc Box Girder	There are some longit. cracks in the bottom flange with light efflorescence near A1 and P2. Seepage with efflor. through weep holes in bottom flanges of Girders 2A & 2B at A3 (probably from deck runoff entering at conduit cutouts in abutment). Active seepage with rust through weep hole for gas pipe in bottom flange of Girder 2C at A3 (PHOTO 12/11). Short trans cracks with efflorescence in bottom flange of girder A. Scattered small rock pockets in bottom flanges of original girders. Spots of seepage randomly throughout. No access to inside of girders.
210/4	R/Conc Pier Wall	No problems seen.
215/4	R/Conc Abutment	Hairline to light vertical cracks at both abutments.
301/4	Pourable Joint Seal	Covered with asphalt. Light cracking in SBnd MLs at A1.
302/4	Compressn Joint Seal	Joints between roadway and approach slabs. Covered with asphalt. Rutting and potholing in ML #3 & 4 (NBnd) at A1 (PHOTO 12/11). Mod. to heavy cracking and D cracking along jt., full length, at A3. Some potholing in MLs #2 & 4 (SBnd) at A3 (PHOTO 12/11). Active leaking , spalling and delam. at Lt. end below fwd jt., and delam. at Lt. end below rear jt.
321/4	R/Conc Approach Slab	Per Plans, no coated rebar in deck. Overlaid with asphalt. No settling.
325/4	Slope Prot/Berms	Concrete slope paving on both abutment slopes. Some light horizontal and vertical cracks. Random cracking at Lt. end of fwd. slope near top.
326/4	Bridge Wingwalls	U-Type at Lt. and Retaining wall on Rt. Light cracking in wings on Lt. Small spall in #1 left. Horizontal cracks runs along construction joint with efflorescence. On wingwalls on Lt. side, there are landscaping walls that partially cover the wingwalls.

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Elem/Env	Description	Element Notes
333/4	Other Bridge Railing	Type R concrete with 3 foot high chain link fence at on top of both sides. Both look good.
340/4	Superstr Cnc Coating	Minor staining. Looks good.
341/4	Substr Conc Coating	Minor staining.

**Maintenance Activity Summary**

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
364.00	Exp Jts	12/14/2011	_	2013	3000

Patch areas potholed and seal moderate cracking in asphalt above compression jt. See PHOTOS.

**Bridge Notes**

4 inch PVC attached to rt exterior web (Gir J) below overhang. Many conduits and a gas line run inside girders, see sketch for locations.

There is a new pedestrian overpass to the east of the structure.  
 Bridge was widened on the Rt. side with the addition of Girders K & L in 2008.  
**MASTER CLEARANCE NEEDED FOR OUTDATED CLEARANCES TAKEN IN 1997.**

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**Inspection Notes**

Time: 10:50 Temperature: 38 Degrees Weather: P/C Team Leader: TAT

**Scope:**

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/14/2011

\_\_\_\_\_  
Inspector

\_\_\_\_\_  
Inspector