

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

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: **153.915 mi**

Bridge Key: H-17-L Inspection Date: **12/15/2010** Sufficiency Rating: **76.1** **Not Eligible**

Rgn/Sectn 2E/2M:	24	Hist Signif 37:	5	UW Inspection Date 93B:	
Trans Region 2T:	01	Posting status 41:	A	SI Date 93C:	
County Code 3:	041	Service on/un 42A/B:	1 5	Bridge Cost 94:	\$ 0
EL PASO		Main Mat/Desgn 43A/B:	4 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:	3	Year of Cost Estimate 97:	
Rte.(On/Under)5A:	1	Approach Spans 46:	0	Brdr Brdg Code/% 98A/B:	
Signing Prefix 5B:	1	Horiz Clr 47:	42.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	38.0 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	103.8 ft	Parallel Structure 101:	L
Feature Intersected 6:		Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft	Direction of Traffic 102:	1
BLACK SQUIRREL CREEK		Width Curb to Curb 51:	42.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	45.2 ft	Highway System 104:	1
25 ML SBND		Deck Area:	4,693.1 sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	1976
		Min Undrclr Ref 54A:	N	Deck Type 107:	1
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	6
H-17-J		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	0
Location 9:		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	0
12.1 MI S OF JCT SH 24 ML		Min Lat Undrclr L 56:	0	Truck ADT 109:	12 %
Max Clr 10:	99.99	Deck 58:	6	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	6	Pier Protection 111:	#
IrsinvRout 13A	000000025A	Sub 60:	7	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	8	Scour Critical 113:	3
Latitude 16:	39d 00' 03"	Culvert 62:	N	Scour Watch 113M:	0
Longitude 17:	104d 49' 07"	Optprtng Rtg Method 63:	1 LF Load Factr	Future ADT 114:	56,021
Range18A:	66 W	Operating Rating 64:	34.2	Year of Future ADT 115:	2027
Township18B:	66	Inv Rtnng Method 65:	1	CDOT Str Type 120A:	CIC
Section18C:	18	Inventory Rating 66:	20.5	CDOT Constr Type 120B:	0.
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	005 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	4	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	8	Scheduling Status 122B:	
Owner 22:	1	Undrclr Vert/Hor 69:	N	Maintenance Patrol 123:	8
Functional Class 26:	11	Posting 70:	5	Expansion Dev/Type124:	P
Year Built 27:	1954	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	Q 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:	5/23/2006
ADT 29:	37,100	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:	TERRYJ	Vertical Clr Date:	1/1/1901
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	15.00 °	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:	0 0 1 1	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	32 "in"	FC Inspection Date 93A:			

Inspector Name: TERRYJ

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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
13/1	Unp Conc Deck/AC Ovl	(SF)	4,696	100 %	4,696	0 %	0	0 %	0	0 %	0	0 %	0
107/1	Paint Stl Opn Girder	(LF)	714	32 %	227	7 %	48	58 %	415	3 %	24	0 %	0
205/1	R/Conc Column	(EA)	6	100 %	6	0 %	0	0 %	0	0 %	0	0 %	0
215/1	R/Conc Abutment	(LF)	94	94 %	88	6 %	6	0 %	0	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	94	96 %	90	4 %	4	0 %	0	0 %	0	0 %	0
306/1	Asphaltic Plg Exp Jt	(LF)	46	0 %	0	100 %	46	0 %	0	0 %	0	0 %	0
308/1	Constr Non Exp Jt	(LF)	94	100 %	94	0 %	0	0 %	0	0 %	0	0 %	0
311/1	Moveable Bearing	(EA)	21	29 %	6	57 %	12	14 %	3	0 %	0	0 %	0
313/1	Fixed Bearing	(EA)	7	100 %	7	0 %	0	0 %	0	0 %	0	0 %	0
325/1	Slope Prot/Berms	(EA)	2	50 %	1	50 %	1	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	75 %	3	25 %	1	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	208	98 %	204	2 %	4	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	208	69 %	143	24 %	50	7 %	15	0 %	0	0 %	0
358/1	Deck Cracking SmFlag	(EA)	1	0 %	0	100 %	1	0 %	0	0 %	0	0 %	0
359/1	Soffit Smart Flag	(EA)	1	0 %	0	100 %	1	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
505/1	Debris Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
13/1	Unp Conc Deck/AC Ovl	6 inches of asphalt. Both lanes worn in wheel lines. Raveling on left shoulder. Longit. cracks in surface open to 1/4 inch, esp. MLs. Trans cracks in MLs.
107/1	Paint Stl Opn Girder	Peeling paint with light R1 to R1 corrosion on all girders. Some spots of R2 corrosion. (See tally sheet) Also, R2 corr. on diaphragms at piers. Girder A full length left side (top of bottom flange) paint peeling. Girder G (right side) same as girder A.
205/1	R/Conc Column	Couple minor scrapes on Col 2A. Some light scale at base of debris wall between Columns 2B & 2C. Minor spalls patched forward faces of debris walls at P2 & P3.
215/1	R/Conc Abutment	Waterstained. Few light vertical cracks in both. Couple spots light scale at A4, and at left end of A1 backwall. Small amount of sand and debris built up on A1 and A4 bearing seat.

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234/1	R/Conc Cap	Waterstained due to joints that have leaked in past. Some light scale and hairline to light random cracks at right end rear face of P3 cap.
306/1	Asphaltic Plg Exp Jt	At A4. Shoving throughout full length, tar sealed in MLs, cracking/open on shoulders (up to 2.5 inches). Rutting in wheel lines.
308/1	Constr Non Exp Jt	At piers. Joints are overlaid with asphalt. Map and delam cracking (impending pothole) in ML #2 above P3.
311/1	Moveable Bearing	Rockers at P2, P3, and A4. Light R1 to R1 corrosion on most. Some R2 corrosion at Bearings 4A, 4B, and 4G and at 4A, 4B due to fill washing and collecting on bearing seat.
313/1	Fixed Bearing	At A1. R1 to R2 corrosion on exterior bearings. Light R1 on most interior. R2 on 1G due to fill washing and collecting on abut seat.
325/1	Slope Prot/Berms	Broken concrete riprap on both abutment slopes has fallen down to channel level. Fill is not stable. Erosion (up to 10 feet wide x full height) at right end of A1 from berm down to toe between bridges due to deck runoff from parallel (see 1/09 photo). Left side A1 has erosion trough 3 feet deep x 10 feet wide (see 12/10 photo). Middle of A1 cap is starting to undermine. A4 left side similar to A1 erosion troughs.
326/1	Bridge Wingwalls	Stubs on right, and U-Type on left. #4 right spalled where original rail was anchored. Few hairline vertical cracks in #4 Right. #1 and #4 left are completely buried. Some light diag. cracks with efflorescence in curtain wall at #4 left.
334/1	Metal Rail Coated	Galvanized Type Q rail on right, and galvanized Type W on left. Few minor scrapes and dents on right over Span 1 from traffic impact.
338/1	Conc Curbs/SW	Typical light vertical / trans cracks in both. Spalling at curb cutouts typical left side. Light scale on top and face of left curb.
358/1	Deck Cracking SmFlag	See Element 13 comments.
359/1	Soffit Smart Flag	Hairline map cracking in Span 1, but no efflorescence. Heavy map cracking (open up to 1/32 inches) in Bays C-F in Spans 2 & 3, but no efflorescence. Heavy map cracking with chipped edges and rust stains in Bay 3D (see 1974 photo). Some heavy scale/deterioration at curb drains on left edge of deck with exposed rebar (see 2004 photo). Some minor delam on exterior side of deck at left and right.
501/1	Channel Cond	Black Squirrel Creek. Good alignment. Willows and cattails up and downstream. Sandy bed with few rocks.

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502/1	ChannProtMatCond	Scattered riprap on banks away from structure.
504/1	BankCond	Steep. Lined with grass and brush.
505/1	Debris Smart Flag	Some tree roots and branches caught on nose of Pier 3.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
364.01	Exp Jts	11/14/2006	-1	2012	300

Seal cracks along edges of asphaltic plug joint at A4.

353.06	Br Dk Rpr	11/14/2006	-1	2012	1000
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Remove and replace deteriorated concrete below curb drains on left side of deck. Install flashing metal at all curb-cut drains to limit deterioration.

360.03	App SI & S	1/6/2009	-1	2012	1000
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Fill in erosion trough along Lt. end of Abut. 1, or build a beaver dam to catch deck runoff.

355.02	Cln & Pnt	10/30/2002	-1	2012	10000
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Clean and spot paint girders, diaphragms, and bearings.

353.08	Br Dk Rpr	11/14/2006	-1	2012	200
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Seal cracks in asphalt surface.

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Bridge Notes

Inspection Notes

Temperature: 60 F
Time: 1:50-2:55
Weather: Windy, sunny
Team leader: TAT

Scope:

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

Inspector: TERRYJ

Inspection Team:

Inspection Date: 12/15/2010

Inspector

Inspector

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