

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

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: 154.892 mi

Bridge Key: H-17-AG Inspection Date: 12/15/2010 Sufficiency Rating: 93.3 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:	1 19	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:	1	Horiz Clr 47:	38.0 ft	Border Bridge Number 99:	
Level of Service 5C:	1	Max Span 48:	11.6 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	24.3 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
MONUMENT CREEK BRANCH		Width Curb to Curb 51:	0.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	0.0 ft	Highway System 104:	1
25 ML NBND		Deck Area:	3,745.8 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:	N
Prll Str No. 8P		Min Undrclr 54B:	0.0 ft	Wearing Surface 108A:	N
H-17-I		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	N
Location 9:		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	N
4.6 MI N OF JCT SH 83 ML		Min Lat Undrclr L 56:	0	Truck ADT 109:	12 %
Max Clr 10:	99.99	Deck 58:	N	Trk Net 110:	1
BaseHiway Net12:	1	Super 59:	N	Pier Protection 111:	#
IrsinvRout 13A:	000000025A	Sub 60:	N	NBIS Length 112:	Y
IrsSubRout No13B:	00	Channel/Protection 61:	8	Scour Critical 113:	3
Latitude 16:	39d 00' 49"	Culvert 62:	7	Scour Watch 113M:	0
Longitude 17:	104d 49' 32"	Optprtng Rtg Method 63:	5 No rating	Future ADT 114:	56,021
Range18A:	66 W	Operating Rating 64:	36.0	Year of Future ADT 115:	2027
Township18B:	66	Inv Rtgng Method 65:	5	CDOT Str Type 120A:	CBC
Section18C:	7	Inventory Rating 66:	36.0	CDOT Constr Type 120B:	0.
Detour Length 19:	0.6 mi	Asph/Fill Thick 66T:	180 "in"	Inspection Indic 122A:	
Toll Facility 20:	3	Str. Evaluation 67:	7	Inspection Trip 122AA:	
Custodian 21:	1	Deck Geometry 68:	N	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:	O
Year Built 27:	1953	Waterway Adequacy 7:	8	Brdg Rail Type/Mod 125A/B:	FB 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:	1/1/1901
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:	TATALASKIT	Vertical Clr Date:	1/1/1901
Median 33:	1	Frequency 91:	24 months	Weight Limit Color: 139:	0
Skew 34:	30.00 °	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 0 0	SI Frequency 92C:	-1	Userkey 7-Update Indic:	
Rail ht36h:	23 "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
241/1	Concrete Culvert	(LF)	360	94 %	337	4 %	16	2 %	7	0 %	0	0 %	0
327/1	Culvert Wingwalls	(EA)	4	75 %	3	25 %	1	0 %	0	0 %	0	0 %	0
335/1	Culvert Headwalls	(EA)	2	100 %	2	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
530/1	Approach Guardrail A	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
241/1	Concrete Culvert	Few light vertical and diagonal cracks in walls, some open to 1/32 inch. Light to moderate stream abrasion and small voids along base of all walls. Few light longit. cracks in top slab, some with efflorescence, especially those at constrution joints. Right end of Wall #1 broken at wing joint, and mostly patched. See PHOTOS. 1 ft. high conc. check steps at inlet and outlet to Cell #1 designed to keep low flow to enter only Cell #2.
327/1	Culvert Wingwalls	#1 Right spalled at top with exposed rebar near joint, and mostly patched. #1 right bottom 8 feet is broken, and has been partially patched. (See 1998 & 2006 Photos) #1 Left is pushed 1 inch and open slightly. #3 Rt. and Lt. wings have been replaced, good condition. See 12/10 PHOTOS. Top of footer exposed at #3 Lt. wing, but protected with rock riprap.
335/1	Culvert Headwalls	Light vertical crack with efflorescence in both headwalls above divider wall.
501/1	Channel Cond	Monument Creek Branch - Sandy bottom with weeds and grass growing in channel. A few willows growing in channel downstream, and some upstream. Pretty good alignment. Channel was regraded prior to 2010 inspection, no problems seen. Minor scour at outlet to Cell #2, but new rock riprap placed here. (A spring storm in 2006 flattened bushes, willows and some trees upstream & caused a lot of cutting & degradation downstream, small canyon created in median area.)
502/1	ChannProtMatCond	(1 - 2) ft. diam. rock riprap at outlet to both cells, and along #3 Lt. footer.
504/1	BankCond	Vert./Steep with weeds, grass, and some trees.
530/1	Approach Guardrail A	Flex beam rail only needed on right side, but it is only 23 inches above asphalt surface.

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Bridge Notes

In the spring of 2006, high volume and the velocity of water has caused the outlet to Scour / degrade downstream 6 feet below invert of the concrete apron, and the culvert was rehabbed and the channel was regraded prior to the 2010 inspection. The channel protection condition state was raised to an 8, and the culvert rating was raised back to a 7, after the wings were replaced, channel regraded, and slope stabilized.

Inspection Notes

Time :-> 3:00 Temperature :-> 56 degrees F. Weather :-I P/C

Maintenance Items 358.03 and 358.06 were completed prior to the 2010 inspection.

Scope:

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/15/2010

Inspector

Inspector