

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

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: **154.893 mi**

Bridge Key: H-17-I 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:	\$ 475,200
EL PASO		Main Mat/Desgn 43A/B:	1 19	Roadway Cost 95:	\$ 47,520
Place Code 4:	00000	Appr Mat/Desgn 44A/B:	0 0	Total Cost 96:	\$ 712,800
non-city		Main Spans Unit 45:	2	Year of Cost Estimate 97:	2007
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:	10.3 ft	Defense Highway 100:	1
Directional Suffix 5E:	0	Str Length 49:	25.8 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
MONUMENT CREEK BRANCH		Width Curb to Curb 51:	0.0 ft	Temporary Structure 103:	
Facility Carried 7:		Width Out to Out 52:	90.3 ft	Highway System 104:	1
25 ML SBND		Deck Area:	2,325. sq. ft	Fed Lands Hiway 105:	0
Alias Str No.8A:		Min Clr Ovr Brdg 53:	99.99	Year Reconstructed 106:	2008
		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-AG		Min Lat Clrnce Ref R 55A:	N	Membrane 108B:	N
Location 9:		Min Lat Undrclr R 55B:	0.0 ft	Deck Protection 108C:	N
4.7 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:	7	Scour Critical 113:	8
Latitude 16:	39d 00' 50"	Culvert 62:	7	Scour Watch 113M:	0
Longitude 17:	104d 49' 39"	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:	108 "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:	1958	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:	31	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:	45.9 ft	Vert Clr N/E 134A/B/C:	X 99.99 0.00
Design Load 31:	5	Insp Team Indicator 90B:	T00114AB0899C	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:	11.00 °	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:	30 "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
241/1	Concrete Culvert	(LF)	184	96 %	177	1 %	1	3 %	6	0 %	0	0 %	0
327/1	Culvert Wingwalls	(EA)	4	100 %	4	0 %	0	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
505/1	Debris Smart Flag	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
241/1	Concrete Culvert	<p>Typical light vertical cracks in cell walls.</p> <p>Cell #1 concrete check dams placed at inlet and outlet, probably to slow flow and stop further erosion (see 1/09 photo). . Wall #1 concrete is broken at bottom of right end, cracked 3/8 inch. Fill has aggregated to top of check dam.</p> <p>Cell #2 left construction joint is leaking with efflorescence, stalactites, and rust stains in both cells, although Cell #2 is worse with some deterioration, delam. and exposed rebar (see 1/09, 12/10 photos). Honeycombing bottom right of wall #3 at inlet.</p>
327/1	Culvert Wingwalls	<p>#1 left and #3 left had failed (See 2006 Photos), and now have been replaced with new wings on footers (PHOTOS 1/09).</p> <p>Matching diagonal cracks on both left wingwalls. #1 left open 1/16 inch. #3 left is open 1/8 inch. Continue to monitor mod cracks that have appeared in new wings, possibly unstable slopes.</p> <p>Material loose in joints of right wingwalls. Vines growing over right #3 wall.</p>
335/1	Culvert Headwalls	<p>Chip in left over cell #2. Fill spilling over right.</p>
501/1	Channel Cond	<p>Monument Creek Branch. Good alignment.</p> <p>Channel has bushes and trees upstream. Bed is sandy.</p> <p>Conc has been placed at outlet where undermining was occurring. Rock riprap placed at outlet to culvert where channel scoured, looks adequate (see 12/10 photo).</p> <p>Now, water mainly flows through Cell #2 due to check dams placed in Cell #1 during low flow (see 1/09 photo).</p>
502/1	ChannProtMatCond	<p>Rock riprap on banks at inlet. Outlet up to 4 feet diameter at Cell #2. Minor scour to outlet of Cell #2.</p> <p>Slope regraded with rock riprap protection in place downstream along forward side when wings were replaced to mitigate scour and cutting of channel (see 12/10 photo).</p>

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504/1	BankCond	Lined with grass and bushes. Riprap new in 12/10 inspection (see 12/10 photo). Provides transition from Cell #2 outlet to 5 foot vertical cuts downstream.
505/1	Debris Smart Flag	About 2 CY of weeds and branches caught on nose of divider wall.

Bridge Notes

Previous eroded embankment on left has been filled in with sand and silt (see 1/09 photo).
 Work item 358.03 has been completed as of 12/10 inspection.

Inspection Notes

Temperature: 56 F
 Time: 3:00-3:35
 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

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