

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

Highway Number (ON) 5D: 025A 1

Mile Post (ON)11: **155.715 mi**

Bridge Key: H-17-H Inspection Date: **12/15/2010** Sufficiency Rating: **80.9** **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: | 44.0 ft | Border Bridge Number 99: | |
| Level of Service 5C: | 1 | Max Span 48: | 10.0 ft | Defense Highway 100: | 1 |
| Directional Suffix 5E: | 0 | Str Length 49: | 21.0 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 |
| SMITH CREEK | | Width Curb to Curb 51: | 0.0 ft | Temporary Structure 103: | |
| Facility Carried 7: | | Width Out to Out 52: | 107.0 ft | Highway System 104: | 1 |
| 25 ML NBND | | Deck Area: | 2,249.7 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-AL | | Min Lat Clrnce Ref R 55A: | N | Membrane 108B: | N |
| Location 9: | | Min Lat Undrclr R 55B: | 0.0 ft | Deck Protection 108C: | N |
| 5.3 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: | 8 |
| Latitude 16: | 39d 01' 27" | Culvert 62: | 7 | Scour Watch 113M: | 0 |
| Longitude 17: | 104d 49' 55" | Optprtng Rtg Method 63: | 5 No rating | Future ADT 114: | 56,021 |
| Range18A: | 67 W | Operating Rating 64: | 36.0 | Year of Future ADT 115: | 2027 |
| Township18B: | 67 | Inv Rtnng Method 65: | 5 | CDOT Str Type 120A: | CBC |
| Section18C: | 12 | Inventory Rating 66: | 36.0 | CDOT Constr Type 120B: | 02 |
| Detour Length 19: | 0.6 mi | Asph/Fill Thick 66T: | 150 "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: | 3 | 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: | 44.0 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: | 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 1 1 1 | SI Frequency 92C: | -1 | Userkey 7-Update Indic: | |
| Rail ht36h: | 30 "in" | FC Inspection Date 93A: | | | |

Inspector Name: TATALASKIT

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Element Inspection Report

| Elem/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) | 214 | 97 % | 207 | 3 % | 7 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 327/1 | Culvert Wingwalls | (EA) | 2 | 100 % | 2 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 335/1 | Culvert Headwalls | (EA) | 1 | 100 % | 1 | 0 % | 0 | 0 % | 0 | 0 % | 0 | 0 % | 0 |
| 501/1 | Channel Cond | (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 |

| Elem/Env | Description | Element Notes |
|----------|-------------------|--|
| 241/1 | Concrete Culvert | Few light to moderate vertical, and shrinkage cracks in walls. Several voids at the base of all walls, one with seepage, see 2006 photo. Top slab has few light longit. cracks at right end. Longit. crack, up to 1/4 inch wide, in floor of both cells extending into walls, near center construction joint, with some water seeping through it, during 2006 inspection. Light stream abrasion along bottom slab. No fill on left end of box culvert - extends about 10 feet on edges, top of top slab seen, OK. |
| 327/1 | Culvert Wingwalls | Wings on right side only. Few mod. vertical/diagonal cracks in extensions of wings. |
| 335/1 | Culvert Headwalls | At right side only; light vertical crack in each 3 ft. high vert. extens. |
| 501/1 | Channel Cond | Smith Creek. Sandy bottom. Heavily vegetated with trees, weeds, grass, and willows. Only about a foot of scour at outlet to both cells, and inlet to Cell #2. Trees partially block outlet (1-2009 PHOTO) and would block more if a lot of debris comes along and gets snagged on them. |
| 504/1 | BankCond | Gentle slopes with grass and willows. |

Maintenance Activity Summary

| MMS Activity | Description | Recommended | Status | Target Year | Est Cost |
|--------------|-------------|-------------|--------|-------------|----------|
| 358.03 | Substr | 11/15/2006 | -1 | 2012 | 2000 |

Place some rock riprap at outlet of this structure to prevent futher scour, scour is only about a foot deep now.

KILL then cut down trees at outlet to improve hydraulics for potential flood.

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Bridge Notes

Added 4 feet in height to wingwalls and headwall on right in order to retain roadway fill for exit ramp. (Added portions were poured monolithically)
Type FB rail in fill but galvanized posts.

Inspection Notes

Time :-) 11:40 Temperature :-) 60 degrees F. Weather :-) P/C

Scope:

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

Inspector: TATALASKIT

Inspection Team:

Inspection Date: 12/15/2010

Inspector

Inspector