

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

Highway Number (ON) 5D: 016A

Mile Post (ON)11: 0.001 mi

Bridge Name: J-18-BM Inspection Date: 12/18/2012 Sufficiency Rating: 99.0 Not Eligible

NBI Reporting ID:	J-18-BM
Rgn/Sectn 2E/2M:	24
Trans Region 2T	01
County Code 3:	041
EL PASO	
Place Code 4:	00000
non-city	
Rte.(On/Under)5A:	1
Signing Prefix 5B:	3
Level of Service 5C:	1
Directional Suffix 5E:	0
Feature Intersected 6:	
I 25 ML	
Facility Carried 7:	
SH 16 ML	
Alias Str No.8A:	
Prll Str No. 8P	
Location 9:	
SECURITY JCT I-25 A	
Max Clr 10:	328.1 ft
BaseHiway Net12:	1
IrsinvRout 13A	000000016A
IrrsubRout No13B:	00
Latitude 16:	38d 43' 29"
Longitude 17:	104d 43' 60"
Range18A:	66 W
Township18B:	66
Section18C:	24
Detour Length 19:	0.6 mi
Toll Facility 20:	3
Custodian 21:	1
Owner 22:	1
Functional Class 26:	14
Year Built 27:	2009
Lanes on 28A:	3
Lanes Under 28B:	4
ADT 29:	21,400
Year of ADT 30:	2008
Design Load 31:	9
Apr Rdwy Width 32:	116.0 ft
Median 33:	0
Skew 34:	14.00 °
Structure Flared 35:	0
Sfty Rail 36a/b/c/d:	1 1 1 1
Rail ht36h:	35 "in"

Hist Signif 37:	5
Posting status 41:	A
Service on/un 42A/B:	6 1
Main Mat/Desgn 43A/B:	5 02
Aprr Mat/Desgn 44A/B:	0 0
Main Spans Unit 45:	2
Approach Spans 46:	0
Horiz Clr 47:	70.5 ft
Max Span 48:	109.0 ft
Str Length 49:	220.5 ft
Curb Wdth L/R 50A/B:	0.0 ft 0.0 ft
Width Curb to Curb 51	116.0 ft
Width Out to Out 52:	124.0 ft
Deck Area:	27,340.3 sq. ft
Min Clr Ovr Brgd 53:	99.99
Min Undrclr Ref 54A:	H
Min Undrclr 54B:	18.7 ft
Min Lat Clrnce Ref R 55A:	H
Min Lat Undrclr R 55B:	26.0 ft
Min Lat Undrclr L 56:	24.5 ft
Deck 58:	8
Super 59:	8
Sub 60:	8
Channel/Protection 61:	N
Culvert 62:	N
Oprtn Rtg Method 63:	5 No rating
Operating Rating 64:	36.0
Inv Rtn Method 65:	5
Inventory Rating 66:	36.0
Asph/Fill Thick 66T:	000 "in"
Str. Evaluation 67:	8
Deck Geometry 68:	9
Undrclr Vert/Hor 69:	7
Posting 70:	5
Waterway Adequacy 7	N
Approach Alignment 72:	8
Type of Work 75A:	
Work Done By 75B:	
Length of Improvment 76:	0.0 ft
Insp Team Indicator 90B:	GREEN TEAM
Inspector Name 90C:	JACKSONC
Frequency 91:	24 months
FC Frequency 92A:	
UW Frequency 92B:	
SI Frequency 92C:	
FC Inspection Date 93A:	

UW Inspection Date 93B	
SI Date 93C:	
Bridge Cost 94:	\$ 0
Roadway Cost 95:	\$ 0
Total Cost 96:	\$ 0
Year of Cost Estimate 97:	
Brdr Brgd Code/% 98A/B:	
Border Bridge Number 99:	
Defense Highway 100:	0
Parallel Structure 101:	N
Direction of Traffic 102:	2
Temporary Structure 103	
Highway System 104:	1
Fed Lands Hiway 105:	0
Year Reconstructed 106	0000
Deck Type 107:	1
Wearing Surface 108A	6
Membrane 108B:	0
Deck Protection 108C:	0
Truck ADT 109:	2 %
Trk Net 110:	0
Pier Protection 111:	
NBIS Length 112:	Y
Scour Critical 113:	N
Scour Watch 113M:	0
Future ADT 114:	33,598
Year of Future ADT 115	2028
CDOT Str Type 120A:	CPGC
CDOT Constr Type 120B	41
Inspection Indic 122A:	
Inspection Trip 122AA	
Inspection Schedule ID:	ODD DEC D12
Maintenance Patrol 123:	53
Expansion Dev/Type124	D
Brdg Rail Type/Mod 125A/B	Y 0
Posting Trucks 129A/B/C	0 0 0
Str Rating Date 130:	1/1/2009
Special Equip 133:	-1
Vert Clr N/E 134A/B/C:	X 99.99 0
Vert Clr S/W 135A/B/C	X 99.99 0
Vertical Clr Date:	5/5/1905
Weight Limit Color: 139	9
Str Billing Type:	U
Userkey 1 - System:	ONSYS
Userkey 7-Update Indic	

Inspector Name: JACKSONC

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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
35/1	Pcst Pnl Cnc Dk Bare	(SF)	27,342	100 %	27,342	0 %	0	0 %	0	0 %	0	0 %	0
109/1	P/S Conc Open Girder	(LF)	2,592	100 %	2,592	0 %	0	0 %	0	0 %	0	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)	256	100 %	256	0 %	0	0 %	0	0 %	0	0 %	0
234/1	R/Conc Cap	(LF)	128	100 %	128	0 %	0	0 %	0	0 %	0	0 %	0
300/1	Strip Seal Exp Joint	(LF)	250	100 %	250	0 %	0	0 %	0	0 %	0	0 %	0
308/1	Constr Non Exp Jt	(LF)	250	100 %	250	0 %	0	0 %	0	0 %	0	0 %	0
321/1	R/Conc Approach Slab	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
325/1	Slope Prot/Berms	(EA)	2	100 %	2	0 %	0	0 %	0	0 %	0	0 %	0
326/1	Bridge Wingwalls	(EA)	4	100 %	4	0 %	0	0 %	0	0 %	0	0 %	0
334/1	Metal Rail Coated	(LF)	440	100 %	440	0 %	0	0 %	0	0 %	0	0 %	0
338/1	Conc Curbs/SW	(LF)	660	100 %	660	0 %	0	0 %	0	0 %	0	0 %	0
340/1	Superstr Cnc Coating	(EA)	1	100 %	1	0 %	0	0 %	0	0 %	0	0 %	0

Elem/Env	Description	Element Notes
35/1	Pcst Pnl Cnc Dk Bare	Longit. tined conc. - short light trans. cracks; some short branching diag. cracks. Light enlarged mpa cracks throughout. Bottom :-) Hairline trans. cracks in some panels near Abut. 3. A few trans. cracks in overhangs.
109/1	P/S Conc Open Girder	Bulb-Tees (BT63) - Few trans. cracks (indic. by efflor.) on bottom of top flanges, gir 2C, OK, probably from transport. Shallow steel diaphragms at midspan.
205/1	R/Conc Column	New still.
215/1	R/Conc Abutment	Spots of efflor. from seepage at edge of girder (construction joint) with mod. efflor. at a few at A3, mostly at seat-level joint. A few vert. cracks with efflor. in backwall between girders at A3.
234/1	R/Conc Cap	Good cond. -new still
300/1	Strip Seal Exp Joint	Strip-seal joints at both sleeper slab joints - no problems; open about 2 inches. Filled with sand. Longit. cracks along end dams and small D cracks/spalls.
308/1	Constr Non Exp Jt	Between sleeper notch and roadway, both ends. Need resealed.
321/1	R/Conc Approach Slab	Some mod. diag. and longit. cracks, worse at fwd. appr. slab. Hairline map cracking. Slight settling of Rt. fwd. approach slab.
325/1	Slope Prot/Berms	Slope paves & 2 new MSE walls - new cond. Conc. berms also new cond. Conc. slope paves at base of abutment retaining walls. Horiz. cracks near base of walls. At A3L, 2' deep erosion trough (2cy) and deteriorating slope pavement surface due to deck drain pipe location in MSE wall. Both sides of abutment need repaired. Shallow delam in wall coping at A3R.
326/1	Bridge Wingwalls	U-type Abut. - good cond. Hairline diagonal cracking.

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Elem/Env	Description	Element Notes
334/1	Metal Rail Coated	Galv. sq. tubes, type Y - good cond.
338/1	Conc Curbs/SW	Curbs on both edges & 6 inch raised median (tapering width) Typical trans. cracks in curbs along shoulders. Some scale along curb face North side.
340/1	Superstr Cnc Coating	Tan & reddish along exter. side of outside girders, and curbs - good -new cond in most areas, but failing on top faces of wall copings.

Maintenance Activity Summary

MMS Activity	Description	Recommended	Status	Target Year	Est Cost
360.03	App SI & S	12/18/2012		2014	1000

Fill in erosion troughs at edges of slope pavement adjacent to deck drain pipes at Abutment 3.
Place small rip rap in these areas to prevent further scour.

Bridge Notes

Large caacity scuppers still mostly clear.

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Inspection Notes

Time: 1:45 pm Temperature: 45 degrees F. Weather: P/C

**DIRECTION of INVENTORY is East; starting at W end of this bridge.
Intersection with stop-lights at East end.
There are 4 lights above shoulders of I-25 in each direction.**

Scope:

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

Team Leader Inspection Check-off:

- FCM's
- Posting Signs
- Essential Repair Verification
- Vertical Clearance
- Stream Bed Profile

Inspection Team:

Inspection Date: 12/18/2012

Inspector: JACKSONC

Inspector (Team Leader)