

COLORADO DEPARTMENT OF TRANSPORTATION				03/18/2002				
STRUCTURE INSPECTION INVENTORY (SIA) REPORT FOR BRIDGE NUMBER								
K-18-Z								
SH 96 ML over RDWY, RR, ARKANSAS RVR on hiway 96 on section A at 55.125 (reference point)								
SUFFICIENCY RATE OF 24. SD								
ITEM #	DESCRIPTION	CODE	ITEM #	DESCRIPTION	CODE	ITEM #	DESCRIPTION	CODE
(2e)	EngdistID:	2	(44a,b)	apprMat/Dagn:	0 / 0	(100)	DODID:	0
(2m)	maintSecID:	4	(45)	mainSpanQty:	7	(101)	parallel:	N
(2t)	transPlnRegion:	4	(46)	apprSpanQty:	0	(102)	twoWay:	2
(3)	FIPSCounty:	101	(47)	horizClr:	26.	(103)	isTemp:	
(3a)	PUEBLO		(48)	MAXIMUM spanLen:	202	(104)	fedSysID:	0
(4)	FIPSCity:	62000	(49)	strLen:	1069	(105)	fedLandsHwy:	0
	PUEBLO		(50a,b)	lt,rtWalkWd:	4. 4.	(106)	reconstYr:	0
(5a)	routeRel:	1	(51)	roadWd:	52.	(107)	deckSys:	1
(5b)	routeType:	3	(52)	OUT-TO-OUT strWd:	68.	(108a)	deckSurf:	6
(5c)	routeServ:	1	(53f,i)	MINI overClr:	99' 99"	(108b)	deckMembrane:	0
(5dn,136)	route,Indic:	96A	(54a,bf,bi)	minFeat/Clr:H	18' 5"	(108c)	deckProtect:	0
(5df,136)	controlHwy,Indic:	96A	(55a,b)	minRtFeat/Clr: H	5.1'	(109)	ADTCOMB:	3
(6)	intsecFeat:		(56)	minLtClr:	0.1'	(110)	isTrkNet:	0
	RDWY, RR, ARKANSAS RVR		(58)	deck:	6	(112)	isNBIS:	Y
(7)	useDesc:		(59)	superStr:	6	(113)	scour:	8
	SH 96 ML		(60)	subStr:	4	(114)	ADT20:	41629
(8)	STR #:	K-18-Z	(61)	channelCond:	8	(115)	ADT20Yr:	20
(8a)	Alias#:		(62)	culvert:	N	(120a)	strType:	RGC
(8p)	paral#:		(63)	methOperRate:	1	(120b)	constType:	0
(9)	locDesc:		(64)	operRate:	238	(121)	SybaseIndic:	1
	2.4 MI E OF JCT SH 45		(65)	methInvRate:	1	(122a)	Lt24inspSD:	
(10f,i)	maxClr:	99' 99"	(66)	invRate:	223	(122aa)	lt24inspSDtrip:	
(11)	refPt:	55.125	(66a)	girderOperRate:	45	(122b)	inspSPE:	0
(11f)	control refPt:	55.125	(66l)	loadFactRate:	1	(122c)	inspREG:	0
(11s)	stationing:	8+40.579	(66s)	invCtrl:	S	(122cc)	inspREGtrip:	10
(12)	baseHwyNetwork:	1	(66t)	asphFillThick:	6.	(122d)	4YrInsp1st:	
(13a)	IrsInvRoute:	000000096A	(67)	structural:	4	(122dd)	4YrInsp1stTrip:	
(13b)	IrsSubRouteNo:	00	(68)	deckGeom:	4	(122e)	4YrInsp2nd:	
(16d,m)	latitude:	38 16.	(69)	underClr:	2	(122ee)	4YrInsp2ndTrip:	
(17d,m)	longitude:	104 37.7	(70)	legalLoad:	5	(122f)	re-visit comments:	
(18a,b,c)	R,T,S:	65 W 20 S 36	(71)	waterway:	8			
(19)	detourLen:	2	(72)	approach:	8	(123)	patrolID:	61
(20,21,22)	toll,custodian,owner		(75a,b)	wrkType/Force:	31 1	(124)	expanType:	2
	3, 1, 1		(76)	workLen:	1069	(125a,b)	railType,Version:	R 3
(26)	funcClassID:	14	(90a)	inspDate:	02/15/2001	(129a,b,c)	post3:	0 0 0
(27)	yearBuilt:	1958	(90b)	team:	R	(130)	ratedDate:	06/11/1996
(28a,b)	lanesOn/Under:	4 / 5	(91)	frequency:	24	(131)	scourCtrl:	8
(29,30)	ADT,ADTYr:	32779 0	(92abc)	Frac/Wtr/Oth:N N N		(132)	ordinal:	101168.
(31)	dsgnLoad:	5	(93a)	critFracDate:		(133)	specialEquip:	0
(32)	apprRoadWd:	66	(93b)	waterDate:		(134a)	boundNE:	X
(33,34)	Median,skew:	2, 0	(93c)	otherCritDate:		(134bf,bi)	maxClrNE:	99' 99"
(35)	isflared:	0	(94)	strAmt:	11195	(134cf,ci)	minClrNE:	0' 0"
(36a,b,c,d)	rail:	1 0 0 0	(95)	roadAmt:	1679	(135a)	boundSW:	X
	STR,TR,APPRO,END		(96)	totImpAmt:	22529	(135bf,bi)	maxClrSW:	99' 99"
(36H)	railHt:	36.	(97)	costYr:	1	(135cf,ci)	minClrSW:	0' 0"
(37)	histValue:	2	(98A,B)	otherState,Share:		(136)	HwyLogInd:	A
(41)	operStat:	A	(99)	othrStateID:		(136f)	controlLogInd:	A
(42a,b)	servOn/Under:	5 / 8						
(43a,b)	mainMat/Dsgn:	4 / 2	()	description:	6/00 STIP# PB273AR AD OUT FOR CONSULTANT DESIGN			



Print Date: 11/30/2001

COLORADO DEPARTMENT OF TRANSPORTATION PONTIS MANAGEMENT SYSTEM MAINTENANCE ACTIVITIES REPORT		Highway No. 96 Ref. Pt. 55.125
		Structure No. K-18-Z
ITEM 32 - Approach Roadway Width 66 Ft.	Temperature: 23 Degrees Time: 7:05:00	
ITEM 36 - Traffic Safety Features 1 0 0 0	Weather: P/C FOGGY	

Maintenance Activities:	Units needed	Total Cost
355.02 : Clean & spot paint bridge and bearings. Remarks: Clean and spot paint bridge girders and bearings.		0.0
355.03 : Clean and paint bridge rail. Remarks: Exterior pedestrian rail needs cleaning and painting.		0.0
356.01 : Replace damaged bridge rail. Remarks: Replace or repair concrete railing on right side in Span 2 where it has been hit. Also, median W-beam has many bent areas from collision.		0.0
356.02 : Repair/replace curb/sidewalk/wheelguard. Remarks: Patch and repair as necessary bad spots in both sidewalks.		0.0
357.01 : Remove sand/debris from around bearings. Remarks: Remove sand and debris from abutments and Pier Caps #3 and #6.		0.0
358.05 : Repair/replace damaged conc in abut/pier Remarks: Remove loose concrete where spalling on caps and columns. Repair and patch pier caps and columns.		0.0
360.03 : Replace/repair fill slopes/slope protect Remarks: Fill in washing areas on both abutment slopes.		0.0
398. : Miscellaneous bridge work. Remarks: Paint over graffiti on abutments and girders.		0.0
399. : Maintenance requiring engineering. Remarks: Pier caps at Piers 6 & 7 have heavy to severe spalling/ corrosion of rebar / possible bearing loss and need evaluation. Due to heavy train traffic		0.0
Remarks: cold weather and utility lines, unable to access caps on this inspection. Some will be able to be seen w/ bucket truck.		

Inspector: KGV

Team Leader: JWB

Grand Total: 0.0
Date: 02/15/2001

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COLORADO DEPARTMENT OF TRANSPORTATION PONTIS BRIDGE MANAGEMENT SYSTEM ELEMENT DATA COLLECTION FORM		HIGHWAY NO. 96 REF. PT. 55.125		
		STRUCTURE NO. K-18-Z		
ITEM58: 6 ITEM59: 6 ITEM60: 5 ITEM61: 8 ITEM62: N ITEM71: 8 ITEM72: 8 STRUCTURE TYPE: RGC SPANS: 7				
ELEMENT NUMBER	ELEMENT NAME	ENV	TOTAL UNIT QUANT	QUANTITY BY STATE
			1	2 3 4 5

DECK

13 5 UNPROT CONC W/AC OVERLAY 1 1 EA 1
 4" to 6" O.S. Overlay looks good.

304 3 OPEN EXPANSION JOINT 1 264 LF 264
 All finger plates look ok, but open and leak badly. #1 open 1-1/2"; #3 open 3-1/2"; #6 open 3-1/2"; #8 open 2".

331 4 CONCRETE BRIDGE RAILING 1 2138 LF 1935 200 3
 Spots of light scale and typ. lite vertical cracks. Longit. cracking along faces of left railing in many spots. 3' of damaged rail on right side.

334 5 MTL BRIDGE RAILING (COAT 1 3207 LF 1069 2138
 Spotted lite R1 corr. on outside pedestrian rail. Median guard rail is galvanized. Many areas of bent W-beam on median rail from impact.

338 4* CONCRETE CURBS/SIDEWALK 1 2138 LF 1738 400
 Many areas of delam and small spalls some w/ exposed rebar, worst on left side. Structurally sound but does pose some hazard to pedestrians.

359 5 CONC DECK BOTTOM/SOFFIT 1 1 EA 0 1
 Spotted map cracking. Spots of longit and random cracks - some w/ efflor. Haunches breaking out at piers.

SUPERSTRUCTURE



COLORADO DEPARTMENT OF TRANSPORTATION PONTIS BRIDGE MANAGEMENT SYSTEM ELEMENT DATA COLLECTION FORM		HIGHWAY NO. 96 REF. PT. 55.125		
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ITEM58: 6 ITEM59: 6 ITEM60: 5 ITEM61: 8 ITEM62: N ITEM71: 8 ITEM72: 8 STRUCTURE TYPE: RGC SPANS: 7				
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			1	2 3 4 5

107 5 PAINTED STEEL OPEN GIR 1 9621 LF 3805 3374 2378 64
 Ends of girders below exp. jts show R2 corr. Top flange of Gir "E" has spotted R1 corr. Rest of gir's have spotted R1 and chalking paint. (See Tally Sheet).

343 4* POLE ATTACH'T TO BRIDGE 1 14 EA 14
 Fourteen light poles mounted to edge of deck. Many concrete pads have cracking and delam., but not a major problem at this time.

SUBSTRUCTURE

205 4 CONCRETE COL/PILE EXTEN 1 25 EA 12 2 11
 Col. 7E, all col's at #6, all col's at #3 have conc spalling to rebar. Rest look ok.

210 4 CONCRETE PIER WALL 1 66 LF 66
 Located at Pier 2. Looks good at this time.

215 4 CONCRETE ABUTMENT 1 136 LF 121 15
 Heavy waterstains on backwalls. Bridge seats full of sand (SEE PREVIOUS PHOTO). Lite vert and horiz crks in face of bridgeseat.

234 4 CONCRETE CAP 1 396 LF 198 198
 Heavy spalling w/ exposed rebar on caps at P-7, P-6, and P-3 (bearing loss not determined at this insp. - 399 requested). Sand built up on these caps.



COLORADO DEPARTMENT OF TRANSPORTATION PONTIS BRIDGE MANAGEMENT SYSTEM ELEMENT DATA COLLECTION FORM		HIGHWAY NO. 96 REF. PT. 55.125		
		STRUCTURE NO. K-18-Z		
ITEMS8: 6 ITEMS9: 6 ITEM60: 5 ITEM61: 8 ITEM62: N ITEM71: 8 ITEM72: 8 STRUCTURE TYPE: RGC SPANS: 7				
ELEMENT NUMBER	ELEMENT NAME	ENV	TOTAL UNIT QUANT	QUANTITY BY STATE
			1	2 3 4 5

311 3 MOVEABLE BRG (ROLLER/SLD 1 54 EA 0 54
 R1 to R2 corr on rockers below exp. jts. Tipped @ #6 8 deg. #1 tipped 6 deg. Rest vertical.

313 3 FIXED BEARING 1 45 EA 41 4
 R1 Corr on plates of outside bearings .

325 3* SLOPE PROTECTION, BERMS 1 2 EA 2
 Dirt slopes, both washing. Subabut of sandstone blocks below A-1 (old abut from previous bridle).

326 3* BRIDGE WINGWALLS 1 4 EA 4
 Stub extensions of abutments.

STREAMBED

501 * CHANNEL CONDITION 1 1 1
 Arkansas River - wide channel.

502 * CHANNEL PROT TYPE/COND 1 1 1
 Concrete slope paving on North slope looks good.

504 * BANK CONDITION 1 1 1
 Steep. Conc paving #3 side only.



COLORADO DEPARTMENT OF TRANSPORTATION PONTIS BRIDGE MANAGEMENT SYSTEM ELEMENT DATA COLLECTION FORM		HIGHWAY NO. 96 REF. PT. 55.125		
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ITEM58: 6 ITEM59: 6 ITEM60: 5 ITEM61: 8 ITEM62: N ITEM71: 8 ITEM72: 8 STRUCTURE TYPE: RGC SPANS: 7				
ELEMENT NUMBER	ELEMENT NAME	ENV	TOTAL UNIT QUANT	QUANTITY BY STATE
				1 2 3 4 5

GENERAL REMARKS

600	* GENERAL REMARKS	1	1	1				
	Utilities. (See sketch)							
	below -- inspector beware!							NOTE: Heavy train traffic

* CDOT ELEMENT

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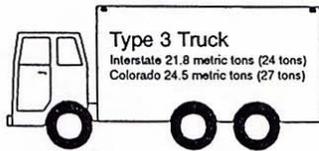
COLORADO DEPARTMENT OF TRANSPORTATION LOAD FACTOR RATING SUMMARY	Structure# <i>K-18-3</i>
	State highway# <i>96</i>
Rated using Asphalt thickness: <i>102</i> mm (<i>4</i> in.) <input checked="" type="checkbox"/> Colorado legal loads <input type="checkbox"/> Interstate legal loads	Batch I.D. <i>E76003</i>
	Structure type <i>RGC</i>
	Parallel structure #

Structural member	<i>Slab</i>	<i>G1-Int Span 1 or Span 2</i>	<i>G2-Int Spans 3 thru 5</i>	<i>G3-Int Spans 6 & 7</i>
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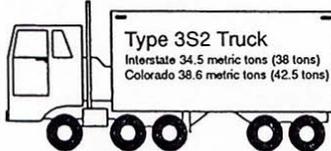
Metric tons (Tons)

Inventory	<i>21.2 (23.3)</i>	<i>45.3 (49.9)</i>	<i>24.5 (27.0)</i>	<i>42.6 (47)</i>
Operating	<i>35.3 (38.9)</i>	<i>75.4 (83.2)</i>	<i>40.9 (45.1)</i>	<i>71.0 (78.3)</i>

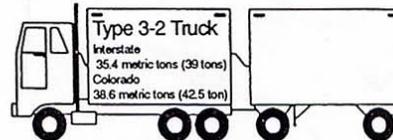
Type 3 truck	()	()	()	()
Type 3S2 truck	()	()	()	()
Type 3-2 truck	()	()	()	()
Permit truck	()	()	()	()



Metric tons () Tons



Metric tons () Tons



Metric tons () Tons

Comments

Rated by <i>Russell W. Truckman</i>	Date <i>06/11/96</i>	Checked by	Date
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Previous editions are obsolete and may not be used

CDOT Form #1187 1/95

