Bridge File Number   75933 -1 Bridge   Form Type   SG	
Inspector Name	
Bridge or Town Name   CALGARY   Inspector Name   Cally Roberts	
Located Over	
Located On 563:02 R1 0.189;563:02 L1 0.224  Water Body CI./Year Navigabil. CI./Year Legal Land Location SW SEC 36 TWP 24 RGE 3 W5M Longitude, Latitude -114:18:14, 51:05:19 Road Authority Alberta Transportation (AIT) Contract Main. Area CMA28 Clear Roadway/Skew 9.1 / AADT/Year 1,880 / 2010 (A) Road Classification RLU-209-110 Detour Length (km) 1 Allowable Load (t): Single Semi Train  Posted Vertical Clearance Posting (m) Vese Lane BB On Bridge (m) 5.4 In Advance (Y/N) Yes Lane WB On Bridge (m) 5.4 In Advance Required Load Posting (t) Single Semi Truck Train Posted Loading (t) Single Semi Truck Train Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)  Assistant Name Interpretable (Interpretable) Assistant Name Assistant Name Interpretable (Idsa)  144-Feb-2012 Data Entry By Lauren Korte Data Entry By Lauren Korte Data Entry By Lauren Korte Data Entry Date 13-Mar-2012 Reviewe Name Tom Carey Reviewe Name Tom Carey Reviewe Date 21-Feb-2012 Dept. Review Date 22-Mar-2012 Follow-Up By  Post Review Date 22-Mar-2012 Follow-Up By  Posting Information  Required Vert. Clearance Posting (m) UNDER: 1 L1 5.4m, 1 R1 5.4m  Posted Vertical Clearance (Y/N) Yes Lane WB On Bridge (m) 5.4 In Advance Remarks  Required Load Posting (t) Single Semi Truck Train Posted Loading (t) Single Semi Truck Train	
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AADT/Year 1,880 / 2010 (A)  Road Classification RLU-209-110  Detour Length (km) 1  Allowable Load (t): Single Semi Train> On Critical Measurement of Common Semi Semi Semi Semi Semi Semi Semi Semi	
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Allowable Load (t): Single Semi Train> On Critical MeDesign Loading: HS20> Primary Semi Posting Information  Required Vert. Clearance Posting (m) UNDER: 1 L1 5.4m, 1 R1 5.4m  Posted Vertical Clearance (Y/N) Yes  Posted: Lane EB On Bridge (m) 5.4 In Advance (Y/N) Yes Lane WB On Bridge (m) 5.4 In Advance Remarks  Required Load Posting (t) Single Semi Truck Train  Posted Loading (t) Single Semi Truck Train  Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)	
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Required Vert. Clearance Posting (m) UNDER: 1 L1 5.4m, 1 R1 5.4m  Posted Vertical Clearance (Y/N) Yes  Posted: Lane EB On Bridge (m) 5.4 In Advance (Y/N) Yes Lane WB On Bridge (m) 5.4 In Advance (Remarks)  Required Load Posting (t) Single Semi Truck Train  Posted Loading (t) Single Semi Truck Train  Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)	ember
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Posted Vertical Clearance (Y/N) Yes  Posted: Lane EB On Bridge (m) 5.4 In Advance (Y/N) Yes Lane WB On Bridge (m) 5.4 In Advance Remarks  Required Load Posting (t) Single Semi Truck Train  Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)	
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Remarks  Required Load Posting (t)  Posted Loading (t)  Single  Semi  Semi  Truck Train  Truck Train  Truck Train  Posted:  Lane  EB  At Junction (Y/N)  No  In Advance (Y/N)  No  At Bridge (Y/N)	() ( () () ()
Required Load Posting (t)  Single  Semi  Truck Train  Posted Loading (t)  Single  Semi  Truck Train  Truck Train  Truck Train  Truck Train  Truck Train  At Junction (Y/N)  No  In Advance (Y/N)  No  At Bridge (Y/N)	(Y/N) Yes
Posted Loading (t)  Single  Semi  Truck Train  Posted:  Lane  EB  At Junction (Y/N)  No  In Advance (Y/N)  No  At Bridge (Y/N)	
Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)	
Posted: Lane WB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N)	No
	No
Remarks Not required	
Hazard Marker At Bridge (Y/N) No	
Remarks Other Sign Types 40 VM/UD EVIT ON ADDDOACH DAMPS DOUTE	
Other Sign Types 40 KM/HR EXIT ON APPROACH RAMPS, ROUTE  Utilities (Located at)	
Utility Attachments TELEPHONE UTILITIES-PHONE LINE	
Telephone All through the area. Gas	
Power Located East OF STRUCTURE. Municipal	
Others Problem (Y/N) No	
Remarks	
Approach Road	
Last Now Explanation of Condition	
Horizontal Alignment 7 7 Typical grade separation alignments.	
Vertical Alignment 5 5	
Roadway Width (m) 9.800	
Approach Bump 7 5	
Guardrail (Y/N) Yes 3 damaged box beam posts at South median rail, and 2	at North.
Guardrail 3 3	
Length (m) 38.000 Not Thriebeam	
Current Standard (Y/N) No	
Termination Type TURNED DOWN ENDS.	
Drainage 7 7	
Approach Road General Rating 5 5	

				Supers	tructure		
Bridge Component					Explanation of Condition		
(Primary Span : RB, 4 Span	s. Lenaths	(m): 12.5-22.9			•		
Special Features	<u> </u>	<u> </u>			,		
Special Feature				X			
(Type:)							
Special Feature				X			
(Type:)							
Wearing Surface/Deck Top I	Detail Ratin	ns					
	1 (%)	2 (%)	3 (%)				
Last 0	0	0		0			
Now 0.0	0.0 0.0			).0			
Wearing Surface				6	EAST LANE IS PYRAMID CONCRETE. WEST LANE IS		
(Material Type : CONCRE	TF)		6		PLASTISIZED CONCRETE.		
(Thickness(mm) : <b>50</b> )	· · = /				MODERATE MED WIDTH LONGIT & TRANS CRACKS		
			N	NI			
Deck Top			IN	N			
Deck Rideability			7	7			
De els leier					Dealeride of inite 40 mm 11 L at 1 L		
Deck Joints			3	4	Deck side of joints 10 mm higher than abutment sides. Al tipped 15mm.		
Temperature (deg. C)	0				Concrete block out is spalling at South abutment trough under deck		
(Expansion Type : FINGEI	R PLATES)				drainage.		
(Fixed Type : )							
Gap Size (mm)		Location					
10	Nort						
15	Sou	:h					
Deck Drainage			3	3	Plumbing corroded out @ both abuts/otherwise good Trough drains are full.		
Drains Clogged (Y/N)	Yes			_			
Curbs/Median			6	6	LIGHT SCALING. CRACKS IN CURB FACE HAVE BEEN SEALED WITH SIKA-FLEX.		
(Curb Type : <b>Standard</b> )					Underside cracked and stained.		
Scaling (Percent Area)	2						
Bridge Rail			6	6	2 bent posts @ median-minor 1 bent rail section at SW		
(Type : STEEL VERTICAL	L BAR)						
Bridge Rail Posts			6	6	Tube Rail and I beam posts @ median. Two grout pads with minor spalls.		
(Type : POST STEEL;POS	ST STEEL)						
Bridge Rail/Posts Coating			4	4	5% SURFACE CORROSION		
(Type : <b>PAINT</b> )							
Sidewalk			X	X			
Girder/Beam							
Cover Plate			3	3	High load damage @ span 3 over WB Hwy lanes - About 25mm		
Flange			5	5	sweep @ East fascia has been repaired since 1st impact from 2001		
Web			5	5	Smoke stained area @ S-2 Sp.3-G5 has visible sag est. 20 mm.		
Stiffeners			7	7	, , , , , , , , , , , , , , , , , , , ,		
Splice			7	7	-		
Weld			3	3	S1-G3 plate 1 at South end has 15mm crack at end of plate. S2-G1 plate 1 at North end has 18mm crack at end of plate - Could not confirm at level 1 inspection.		
Diaphragms/Cross Frame			7	7			
,							

			Cupara	i de la constante de la consta			
Bridge Component				Explanation of Condition			
(Primary Span : <b>RB</b> , <b>4 Spans</b> ,	l engths(m): 12.5			· •			
Paint Condition	Longino(m). 12.0	5	5	work Humbon. Notify Off			
(Colour Description : RED)							
(Colour Code : 21310)							
Touchup Required (Y/N)	No						
Bearings		5	5	25% corrosion @ South abut bearings.			
Temperature (deg. C)	18			2570 corrosion & count abut bearings.			
(Expansion Type : ROLLER							
(Fixed Type : PINNED BEAM				Pinned at P2			
Coating Adequate (Y/N)	No						
Functioning (Y/N)	Yes						
Deck Underside	103	3	3	Spalling with exposed rebar on spans 2 and 3 with worst on span 3.			
Stains (Percent Area)	25	3		Spalls are over highway traffic. 9 visible rebar covens Sp.3			
,	25			Span 3 has corroded areas chipped out.			
Span Alignment Problems							
Vertical (Y/N)	No						
Horizontal (Y/N)	No						
Superstructure General Rati	ng	3	3				
			Subst	ructure			
Bridge Component		Last	Now	Explanation of Condition			
Abutments		<u> </u>					
Bearing Seats/Caps		7	7				
(Type : CONCRETE)							
Backwalls/Breastwalls		7	7				
Wingwalls		7	7				
Piles		N	N	Buried			
Paint/Coating		Х	X				
Abutment Stability		7	7				
Scour/Erosion		5	4	Erosion gully developing at SW and SE. Drain trough steel extensions eroding headslope at South abutment.			
Piers/Bents							
(Type : <b>PIER-COLUMN</b> )				Delamination cracking on West cantilever of piers 1 and 3 and East			
Bearing Seats/Caps		5	5	cantilever of pier 2.  Map cracks.			
(Type : CONCRETE)				·			
(Total Number of Bearing Piles	s : <b>2:2:2</b> )						
Pier Shaft/Piles		5	5				
Bracing/Struts/Sheathing		X	Х				
Nose Plate		Х	Х				
Paint/Coating		5	5	Pigmented sealer			
(Colour Description : )							
(Colour Code : )							
Pier Stability		8	8				
Scour		X	X				
Debris (Y/N)	No						
Substructure General Rating	j	5	5				

Structure Usage							
		Last	Now	Explanation of Condition			
Grade Separation							
Road Alignment		8	7				
Traffic Safety Features		4	4	Wrong lap at few locations. Turn down section of guardrail is			
Туре	GUARDRAIL			damaged in median.			
Slope Protection		5	5	Gaps up to 50mm wide at top panels- are sealed with liquid asphalt.			
(Type : CONCRETE; CONCRE	TE)						
Bank Stability		6	6				
Drainage		7	6				
Grade Separation General Rating 4 4		4					

		Maintenance Reco					
Inspector Recommendations	Year	Inspector Comments	Department Com	Target Year	Est. Cost	Cat	
REPAIR/REPLACE BRIDGE RAIL	2012	Replace 5 box beam rail posts and rep median guardrail.	pair				
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2012	Check/remove loose concrete over hig	hway				
SEAL DECK							
OVERLAY DECK	2012	Full deck patches or replacement					
REPAIR/REPLACE DECK JOINTS	2012	Install W/P joints and remove trough d	rains.				
RESET/ PAINT BEARINGS	2012						
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBER	S						
WASHING	2012	Both abuts seats and trough drains					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/ERO	SION 2012	SW and SE erosion 5m3 - Cl. 1m @ S 10m3 at SW.	E and				
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Repair 2 cover plate cracks.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/(%)	Now) 44.4/4	Sufficiency Rating (Last/No. (%)	ow) 51.9/51.9	Est. Repl. Yr	2018 Maint. Re	eqd. (Y/N)	Yes
Special Comments for Next Inspection Bridge is currently overpass and hig 14,2012)	scheduled for funday prior to sch	ll deck replacement. Review long term pleeduling major maint. or rehab. (G.Roberts	ans for Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Randy Bredo		Previous Assistant's Name	Bryce Clayton			
Next Inspection Data	14-Nov-2013		Previous Inspection Date	27-Jul-2010	<u> </u>		
next inspection date	14-1107-2013		TOVIOUS INSPECTION DUTC				
Next Inspection Date Inspection Cycle (Default) (months)	21		Tevious inspection bute	17   00: 20:0			