Bridge Inspection																
Bridge File Number 77801 W-1 Bridge									Form Type			CON				
Year Built/Year 1973/1973 Supstr									Lot No.			2				
Bridge or Town Name CALGARY - MEMORIAL DRIVE					DIVE				Inspector Name			Garry Roberts				
									Inspector Class			BR CLS A				
									sistant N							
Located On 10243:02 L1 0.086 Water Body Cl./Year									Assistant Class							
Navigabil. Cl./Year									Inspection Date			16-Jan-2013				
Legal Land Location NW SEC 13 TWP 24 RGE 1 W5					1 W5N	5M			Data Entry By			Kelsey Roberts				
Longitude, Latitude -114:01:06, 51:02:57					1 7701	JIVI			Data Entry Date			02-Feb-2013				
Road Authority Alberta Transportation (AIT)				Γ)				Reviewer Name			Tom Carey					
Contract Main. Area DEERFOOT/STONEY				')				Review Date			22-Jan-2013					
Clear Roadway/Skew 15 /												Tim Davies				
AADT/Year			2001 (E)						Dept. Review Date			04-Feb-2013	3			
Road Classification		LU-208-							Follow-Up By							
Detour Length (km																
Allowable Load (t):		e CS1	28		Semi	CS2 49 Train			CS	3 62		> On Critical Spans				
						11 002 43						300 02		>Critical M	ember	
Design Loading:		HS2	5				- dina							> Primary S	Span	
Required Vert. Cle	earance	Postino	n (m)	UNDER	.211				mation							
Posted Vertical Cle			<i>y</i> (···)	Yes		<u> </u>	.,	<u> </u>								
	NB		idae (m)		n Adva	nce	(Y/N)	No	No Lane SB O		n Bridge (m) 5.2		In Advance (Y/N) No		No	
Posted: Lane NB On Bridge (m) In Adva							(. , ,	1.10		02	-	<u></u>	•		(1,1.1)	1.10
Required Load Pos		_		Single					Semi			Truck Train				
Posted Loading (t)		<u>'</u>		Single		30.0			Semi		47.0	Truck Train		63.0		
	ane	ЕВ		At Junction (Y/N)		00.0		In Adv	ance	(Y/N)			t Bridge (Y/N)			
	ane	WB		At Junct					In Advance (Y/N)		No	At Bridge (Y/N)		Yes		
Remarks W/B traffic only						,	1110				(- ,)	1110				
Hazard Marker At Bridge (Y/N) No																
Remarks																
Other Sign Types			80KM/H	IR, 50KM	1/HR at	t RA	MP RC	UTE								
						Ut	tilities	(Loca	ited at)							
Utility Attachments	s OTH	IER UT	LITIES-0	OTHER L	_INES;	PO	NER U	TILIT	IES-PO	WER	LINE					
Telephone In area								Ga	s							
		at both							·		Manh	hole at SE, East and West approach				
Others U	Indersio	de deck	lighting a	and overl	head				Problem (Y/N) Yes							
Remarks B	Broken I	ens at N	IE													
							Appro	\neg								
Having tall All						Last			Explanation of Condition						2	
Horizontal Alignment						5 5	5	Brid	Curves and controlled intersections SE and West. B2132 Bridge on curve & superelevation							
								15r	15m at East- widens to 20m at West estimate							
Roadway Width (m) 20.000 Approach Bump					6	6										
Guardrail (Y/N) Yes						0	Co	ncrete r	arane	ets @ o	other corners	35mm	n long			
Guardrail					3	3	Cra	acked a	nd bro	ken at	SE.	5511111	og.			
Length (m) 99.000					-											
Current Standard (Y/N) Yes																
Termination Type TURNDOWN																
Drainage						7	7									
-	0.5	I D=4'				_	-									
Approach Road General Rating					5	5										

Ending Component						Supers	tructure					
Special Feature	Bridge Com	ponent										
Special Feature		•	ns, Lengths(n	n): 32.6-37.8,								
Special Feature			, <u> </u>	<u> </u>								
Crype Spacial Feature X X X X X X X X X					6		Sign bridge attached to exterior parapets. Large signs removed and					
Special Feature	•						only directional arrows so not definition sign bridge (<4m2)					
Type : Wearing Surface/Deck Top Detail Ratings		ure				X						
Wearing Surface/Deck Top Detail Ratings												
N(%) 1 (%) 2 (%) 3 (%)		face/Deck Top	Detail Ratings									
Last					3 (%)							
Wearing Surface 5 5 5 5 5 5 5 5 5	Last					0						
Waaring Surface 5 5 5 5 5 5 5 5 5	Now					0.0						
(Material Type : Latex Modified Asphalt) (Thickness(mm) : 50) Deck Top N N N Paved Deck Rideability 5 5 Deck Joints 6 4 4 Temperature (deg. C) 1 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Deck Drainage 7 7 7 Drains Clogged (Y/N) No Curbs Median 4 4 4 Sociated areas of cracks & spalls SW parapet has been patched is hit and broken again. Spall at backside of North side pout Sp 2. Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. Plastic rails and the connected at 2 areas at North and loose and leaning at 6 NW posts. Plastic rails been patched & patch broken at SW and NW parapet Plastic rails been patched at 2 areas at North and loose and leaning at 6 NW posts. Plastic rails are detached & patch broken at SW and NW parapet Plastic rails Blue powder coat (Type :) Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X Bearings N N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. (Expansion Type :) POT BEARING) Coating Adequate (YN) Functioning (YN) Deck Underside Stains (Percent Area) 2 Span Allgment Problems Vertical (YN) No	Wearing Sur						25mm rutting at isolated areas - left lane.					
(Thickness(mm): 50) Deck Top Deck Rideability Deck Joints CEX Joints Deck Join			odified Aspha	lt)			2011111 Futuring at 1001atou arous 1101t laite.					
Deck Rideability 5 5 5 Deck Joints 6 4 4 Temperature (deg. C) 1 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55 E abut 100 W abut Deck Drainage 7 7 Drains Clogged (Y/N) No Curbs/Median 4 4 (Curb Type : JERSEY/F SHAPE) Scaling (Percent Area) 1 Bridge Rail Fosts 7 (Type :) Bridge Rail/Fosts Coating X 3 (Type :) Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X Bearings N N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. Integral at pier. Some corrosion stains & scaling at South deck ext at pier & corrosion stains & Scaling at South deck ext at pier & corrosion stai			zamou ztopnu									
Deck Rideability Deck Joints Temperature (deg. C) 1 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55		(11111) : 00)			N	N	Payed					
Deck Joints 6 4 Temperature (deg. C) 1 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55	Deck Top				IN	11	i aveu					
Temperature (deg. C) 1 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55	Deck Rideab	oility			5	5						
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55 Eabut 100 Wabut Deck Drainage 7 7 7 Drains Clogged (Y/N) No Curbs/Median (Curb Type : JERSEY/F SHAPE) Scaling (Percent Area) 1 Bridge Rail Posts (Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL) Bridge Rail/Posts Coating (Type : Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X Bearings N N N Temperature (deg. C) (Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Puck Index and Adequate (Y/N) Puck Index and Adequate (Y/N) Post of least a scaling at South deck ext at pier & corrosion stains & scaling at South deck ext at pier & corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor.	Deck Joints				6	4	2 minor spalls at A2 paving lip are patched with ACP					
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type :) Gap Size (mm) Gap Location 55 Eabut 100 Wabut Deck Drainage 7 7 7 Drains Clogged (Y/N) No Curbs/Median (Curb Type : JERSEY/F SHAPE) Scaling (Percent Area) 1 Bridge Rail Posts (Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL) Bridge Rail/Posts Coating (Type : Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X Bearings N N N Temperature (deg. C) (Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Puck Index and Adequate (Y/N) Puck Index and Adequate (Y/N) Post of least a scaling at South deck ext at pier & corrosion stains & scaling at South deck ext at pier & corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor. Some Corrosion stains & SE - isolated and minor.	Temperatu	ıre (deg. C)	1									
(Fixed Type :) Gap Size (mm)			D (WABO-MA	UER, TRANS	FLEX,	ETC))						
Gap Size (mm) 55 E abut 100 W abut Deck Drainage 7 7 Drains Clogged (Y/N) No Curbs/Median 4 4 (Curb Type : JERSEY/F SHAPE) Scaling (Percent Area) 1 Bridge Rail 5 3 Bridge Rail Posts 7 3 (Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL) Bridge Rail Posts 7 3 Type :) Sidewalk X X Girders 6 6 Diaphragms/Cross Frame X X Bearings N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Drains Clogged (Y/N) No Isolated areas of cracks & spalls SW parapet has been patched is hit and broken again. Spall at backside of North side post Sp 2. Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. Post of plastic rail detached & patch broken at SW and NW parapet Plastic rails Blue powder coat (Type :) Sidewalk X X Bearings N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside 6 6 Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor. Span Alignment Problems Vertical (Y/N) No			•									
Eabut Wabut Deck Drainage To To		·	Gap L	ocation								
Deck Drainage 7 7 7 Drains Clogged (Y/N) No Curbs/Median 4 4 4 Curbs/Median 4 4 4 Scaling (Percent Area) 1 Bridge Rail 5 3 Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. Post of plastic rails leached & patch broken at SW and NW parapet plastic rails glue powder coat Type:) Bridge Rail/Posts 0 3 3 3 Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. Post of plastic rail detached & patch broken at SW and NW parapet plastic rails Blue powder coat Type:) Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X X Bearings N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. (Expansion Type:) (Fixed Type: POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) 2 Span Alignment Problems Vertical (Y/N) No	55	,										
Drains Clogged (Y/N) No Curbs/Median 4 4 Isolated areas of cracks & spalls C(Curb Type : JERSEY/F SHAPE) Scaling (Percent Area) 1 Surgery PLASTIC BRIDGE RAIL NON-STANDARD RAIL) Bridge Rail Posts 3 3 Plastic rails not connected at 2 areas at North and loose and leaning at 6 NW posts. (Type :) Bridge Rail/Posts Coating X 3 3 Post of plastic rail detached & patch broken at SW and NW parapet Plastic rails Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X X Bearings N N R Bearings N N N R Bearings N N R Bearings N N N N N N N N N N N N N N N N N N N	100		W abu	t								
Drains Clogged (Y/N) No Curbs/Median 4 4 Isolated areas of cracks & spalls SW parapet has been patched is hit and broken again. Spall at backside of North side post Sp 2.	Deck Draina	ge			7	7						
Curbs/Median		-	No									
Curb Type : JERSEY/F SHAPE Scaling (Percent Area) 1 SW parapet has been patched is hit and broken again. Spall at backside of North side post Sp 2.					4	4	Isolated areas of cracks & spalls					
Scaling (Percent Area) 1 Bridge Rail 5 3 (Type : PLASTIC BRIDGE RAIL NON-STANDARD RAIL) Bridge Rail Posts 3 3 (Type :) Bridge Rail/Posts Coating X 3 3 (Type :) Bridge Rail/Posts Coating X X 3 Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X X Bearings N N N Temperature (deg. C) 1 (Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Peck Underside 6 6 6 Stains (Percent Area) 2 Span Alignment Problems Vertical (Y/N) No			SHAPE)				SW parapet has been patched is hit and broken again. Spall at					
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Continue of the continue of		,			5	3	Plastic rails not connected at 2 areas at North and loose and leaning					
Bridge Rail Posts 3 3 Post of plastic rail detached & patch broken at SW and NW parapet (Type:) Bridge Rail/Posts Coating X 3 Blue powder coat (Type:) Sidewalk X X Girders 6 6 6 Voided slab. Narrow cracks at fascias. Diaphragms/Cross Frame X X Bearings N N N Recessed & too high to see at abut- visible only at exteriors. Temperature (deg. C) 1 Integral at pier. (Expansion Type:) (Fixed Type: POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside 6 6 Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor. Span Alignment Problems Vertical (Y/N) No		ASTIC BRIDG	E RAIL NON-	STANDARD F								
Plastic rails						3	Post of plastic rail detached & patch broken at SW and NW parapet					
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Continue of the continue of		Posts Coating			X	3						
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Diaphragms/Cross Frame X X Bearings N N Recessed & too high to see at abut- visible only at exteriors. Integral at pier. (Expansion Type:) (Fixed Type: POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No Recessed & too high to see at abut- visible only at exteriors. Integral at pier. Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor.												
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Temperature (deg. C) 1 (Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside 6 6 Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor. Span Alignment Problems Vertical (Y/N) No	Diaphragms/	/Cross Frame			X	X						
(Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No	Bearings				N	N	Recessed & too high to see at abut- visible only at exteriors.					
(Expansion Type :) (Fixed Type : POT BEARING) Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No							Integral at pier.					
Coating Adequate (Y/N) Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor.	(Expansion	n Type :)										
Functioning (Y/N) Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor.	(Fixed Typ	e : POT BEAR	ING)									
Deck Underside Stains (Percent Area) Span Alignment Problems Vertical (Y/N) No Some corrosion stains & scaling at South deck ext at pier & corrosion stains @ SE - isolated and minor.	Coating Adequate (Y/N)											
Stains (Percent Area) 2 corrosion stains @ SE - isolated and minor. Span Alignment Problems Vertical (Y/N) No	Functioning	g (Y/N)										
Stains (Percent Area) 2 corrosion stains @ SE - isolated and minor. Span Alignment Problems Vertical (Y/N) No					6	6	Some corrosion stains & scaling at South deck ext at pier &					
Span Alignment Problems Vertical (Y/N) No	Stains (Per	rcent Area)	2				corrosion stains @ SE - isolated and minor.					
Vertical (Y/N) No			S									
	-	•	No									

				tructure
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CV, 2 Spans, Le	ngths(m): 32.6-37.8, A	A-Iden	per:)	
Superstructure General Rating		6	6	
		w. cat. u.e.		
Bridge Component		Last	Now	ructure Explanation of Condition
Abutments		Lasi	INOW	Explanation of Condition
Bearing Seats		7	5	1m delam crack at NW not affecting bearing
Dearing Geats		'		Thirdelani crack at two not allecting bearing
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	Buried.
Paint/Coating		6	5	Scaled at NW
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				Integral at pier.
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		Х	Х	
Paint/Coating		7	6	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour			X	
Debris (Y/N)	No			
Substructure General Rating		7	5	
				re Usage
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		6	6	Curve to South
Traffic Safety Features		7	7	
Туре	GUARDRAIL			
Slope Protection		5	5	25mm cracks @ both-sealed
(Type : CONCRETE; CONCRE	TE)			Concrete slope protection
Bank Stability			6	
Drainage			7	
Grade Separation General Rating			6	

77801 W-1 Bridge

				Maintenan	ce Recommend	ations					
Inspector Recommendations	Y	Year Inspector Comments				Department Comr	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL		2013	Repair parapet rail spall and SE app parapet. Approx 10m2 Total. Repair plastic posts and rail.		E approach lepair or remove	·					
GALVANIZE/PAINT BRIDGE RAIL											
RETROFIT BRIDGE RAIL											
SEAL CURBS											
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLACE DECK JOINTS											
RESET/ PAINT BEARINGS											
WASHING											
SHOTCRETE REPAIRS											
REPAIR ABUTMENT SCOUR/EROSI	ON										
PLACE ADDITIONAL RIP RAP											
REMOVE DRIFT ACCUMULATION											
OTHER ACTION		2013	Replace	lens at NE dock light.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
Structural Condition Rating (Last/N (%)	ow) 7	72.2/61.1		Sufficiency Rating (Last/Now) (%)		19.7/45.2	Est. Repl. Yr	2046	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection						Department Comments			·		
Maintenance Reviewed By						Date		E	Stimated Total	0	
Proposed Long-Term Strategy											
On 3-Year Program (Y/N)											
Proposed Action											
Previous Inspector's Name Gar		oberts			Previous A	Assistant's Name					
Next Inspection Date 16-C		2014			Previous	us Inspection Date 18-Apr-2011					
Inspection Cycle (Default) (months) 21						<u> </u>					
Comment											

Bridge Inspection & Maintenance System (Web 2005)