Bridge Inspection																
Bridge File Number 73794 W-4 Bridge							Foi	Form Type			CON					
Year Built/Year 1971/1971 Supstr				-				Lot	No.			1				
				V 16 AVENUE NORTH OVER					Inspector Name			Garry Roberts				
Bridge or Town Name CALGARY - 16 AVE DEERFOOT TRAIL				IL	L -				Inspector Class			BR CLS A				
Located Over		2:15 R1	35.349;2:	15 L1 3	15 LT 35.453				Assistant Name			-				
Located On		1:09 L1	19.309						Assistant Class							
Water Body CI./	Year								Inspection Date			09-Jan-2013				
Navigabil. Cl./Ye	ear								Data Entry By			Lauren Korte				
Legal Land Location SE SEC 26 TWP				Z4 NGL I WJW					Data Entry Date			23-Jan-2013				
Longitude, Latitude -114:01:39, 5				9, 51:04:03					Reviewer Name			Tom Carey				
Road Authority Alberta Transp				sportation (ALL)					Review Date			17-Jan-2013				
Contract Main. A	rea	DEERF	OOT/STO	NEY								Tim Davies				
Clear Roadway/	Skew	22 /							ot. Revi		te	25-Jan-2013				
AADT/Year		50,000 /	2007 (E)					Fol	low-Up	Ву						
Road Classificat	ion	RLU-208	3-100													
Detour Length (k	km)	1														
Allowable Load ((t): Sin	igle			Semi	i				Train		> On >Criti		> On Critic	Critical Spans cal Member	
Design Loading:		HS	20											> Primary	Span	
						Po	osting	Infor	mation							
Required Vert. C	Clearan	ce Postir	ng (m)	UNDE	R: 2 L1	5.3m	, 2 R1	5.3m								
Posted Vertical (Cleara	nce (Y/N)		Yes												
Posted: Lane	NB	On B	ridge (m)		vance (Y/N)			Lane	SB	C	n Bridge (m)	5.1	In Advance	(Y/N)	No	
Remarks	N/B p	osting is	on 73907	E												
Required Load Posting (t)			Single					Semi			Trucl	Truck Train				
Posted Loading	(t)			Single			30.0		Semi			47.0	Trucl	ck Train 63.0		
Posted:	Lane	EB		At June	ction (\	Y/N)			In Advance (Y/N)			At Bridge (Y/N)				
Posted:	Posted: Lane WB			At Junction (Y/N)			No		In Adv	ance (Y/N)	Y/N) No At B		Bridge (Y/N) Yes		
Remarks																
Hazard Marker A	At Brid	ge (Y/N)	No													
Remarks																
Other Sign Types ROUTE, 50KM/HR, 5				HR, 50												
									ted at)							
Utility Attachmer	nts G	AS UTIL	TIES-GA	S LINE;	POWE	ER UT	ILITIES	S-PO	WER LI							
Telephone	In are							Ga	S	At South East.						
Power	6W to								nicipal		Manhole @ West approach & East.					
Others		standards						Pro	blem (\	(Y/N) No						
Remarks	Under	rside dec	k lighting.													
						Approach Road										
Horizontal Alien	man ^t					Last	Now		Explanation of Condition Ramps & controlled intersections East & West B2126.							
Horizontal Alignma						5	5		mps & d dge on (iea int	tersections Ea	isi & \	west B2126.		
Vertical Alignment					5	5		-								
Roadway Width	` '		22.000			6	6									
Approach Bump					0	О	- A	@ NIW 200m-mv450m11001011								
Guardrail (Y/N) Yes					4	3	Co	@ NW - 200mmx150mm HSS on round & I-beam posts. Continuous concrete parapets @ 3 other corners.								
Guardrail					4	3	- Spa	alled at	NE an	d SE SW	approach para	apets.	. All approach traffic	parape	ets are	
Length (m) 82.000								offset- 170mm at SW. 120 at SE, against traffic.								
	Current Standard (Y/N) Yes			E H66												
Drainage	Termination Type END OF HSS Drainage					6	7									
Approach Road General Rating				5	5											

Superstructure									
Bridge Com	ponent				Last	Now	Explanation of Condition		
(Primary Spa	n : CV, 2 Spar	ns, Leng	ths(m	n): 46.3-49.1,	A-Iden	t Numl	per:)		
Special Feat	ures								
Special Feature						6	Overhead sign bridge over West span #191.		
(Type:)									
Special Feat	ıre					X			
(Type:)									
Wearing Surf	ace/Deck Top	Detail R	atings						
	N (%) 1 (%) 2 (%)				3 (%)				
Last	0	0		0		0			
Now	5.0	0.0)	0.0	(0.0			
Wearing Surf	ace				7	7			
	pe : POLYME	R MODI	FIED	ACP)	<u>'</u>				
(Thickness	(mm) : 50)			·					
Deck Top	· ,				N N		Paved over.		
Deck Rideab	ility				7	7			
Deck Joints					4	4	Cover plates @ parapets are missing bolts- 2 at NE and SE.		
Temperatu	re (deg. C)	-1	1				Shallow spalls at East joint paring lip, otherwise joints rate 7.		
(Expansion	Type : GLAN	D (WAB	О-МА	UER, TRANS	FLEX,	ETC))	Oriallow spalls at East Joint paining lip, otherwise Joints rate 7.		
(Fixed Type	e:)								
Gap Size (r	mm)	(Gap L	ocation					
90	•		E abut						
85		١	W abu	ıt					
Deck Drainag	ge				6	6			
Drains Clog		No	0						
Curbs/Media					5	3	Recently patched. Spalled areas at exterior bases over traffic at NE		
(Curb Type : JERSEY/F SHAPE)							and several other spalled areas.		
Scaling (Pe		5							
Bridge Rail	,				Х	3	Not attached to parapet at NE.		
	ASTIC BRIDGI	E RAIL N	NON-S	STANDARD F					
Bridge Rail P					X	3			
(Type:)									
Bridge Rail/P	osts Coating				X	X			
(Type:)	<u> </u>								
Sidewalk					4	4	Retro Drain @ sidewalk. Sidewalk parapet is spalled at isolated locations.		
Girders					Х	Х	Voided slab.		
Diaphragms/	Cross Frame				Х	Х			
Bearings					N	N	Recessed & unable to see because of		
Temperature (deg. C) -11							expanded metal.		
(Expansion Type : POT BEARING)							Integral @ pier.		
(Fixed Type	(Fixed Type :)								
Coating Adequate (Y/N)									
Functioning	j (Y/N)	Ye	es						
Deck Unders					3	3	Corrosion @ deck exterior @ South & scaling over N/B and S/B		
Stains (Per		2					lanes. Some cracks and efflorescence @ East span. Main deck U/S rates 7. Cracking at underside parapet at East span at North over shoulder.		
							Tordoning at uniderside parapet at Last spair at North over Shoulder.		

				tructure				
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : CV, 2 Spans, Le	ngths(m): 46.3-49.1,	A-Iden	t Numb	per:)				
Span Alignment Problems								
Vertical (Y/N)	No							
Horizontal (Y/N)	No							
Superstructure General Rating		3	3					
			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Abutments								
Bearing Seats		7	7					
Backwalls/Breastwalls		7	7	Vertical cracks.				
Wingwalls		7	7					
Piles		N	N	Buried.				
Paint/Coating		5	4	Stained and peeling at SW and SE.				
Abutment Stability		8	8					
Scour/Erosion		Х	Х					
Piers/Bents								
(Type : PIER-COLUMN)				Integral.				
Bearing Seats/Caps		7	7					
(Type : CONCRETE)								
Pier Shaft/Piles		7	7	Map cracking.				
Nose Plate		X	X					
Paint/Coating		6	6					
(Colour Description :)								
(Colour Code :)			_					
Pier Stability		8	8					
Scour		X	X					
Debris (Y/N)	No							
Substructure General Rating		7	7					
		5	Structu	re Usage				
		Last	Now	Explanation of Condition				
Grade Separation		7						
Road Alignment			7	Curves both sides.				
Traffic Safety Features		5	5	Minor damage.				
Туре	GUARDRAIL							
Slope Protection		6	5	minor heave at East. Cracked but sealed.				
(Type : CONCRETE; CONCRE	TE)							
Bank Stability		7	7					
Drainage		7	7					

Structure Usage								
	Last	Now	Explanation of Condition					
Grade Separation General Rating	g 5	5						

73794 W-4 Bridge

			Maintenance Rec	commend	ations					
Inspector Recommendations	,	Year	Inspector Comments		Department Comr	Target Year	Est. Cost	Cat #		
REPAIR/REPLACE BRIDGE RAIL	:	2013	Repair loose rail at NE.							
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS	2	2013	Patch and seal parapets approximate Seal parapets at gutterline.	ly 30m2.						
PATCH DECK	2	2013	Patch south deck exterior under side N/B & S/B lanes of Hwy 2 and unders parapet at East span at North -is over shoulder.	ide of						
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	1	2013	Install bolts @ parapet cover plates.							
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSI	ON									
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	1	2013	Repair and reset approach barriers.							
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/No. (%)	ow)	55.6/55.0	Sufficiency Rating (Last/No. (%)	ow) 5	52.0/52.0	Est. Repl. Yr	2045	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection					Department Comments					
Maintenance Reviewed By					Date		E	Estimated Total	0	
Proposed Long-Term Strategy										
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name Ga		Roberts		Previous A	Assistant's Name					
Next Inspection Date	09-Oct-		İ		evious Inspection Date 12-Apr-2011					
Inspection Cycle (Default) (months) 21					nopodion bato	12 / (5) 2011				
Comment										