

Bridge Inspection										
Bridge File Number	75623 N-1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1963/1963				Lot No.	1				
Bridge or Town Name	MORNINGSIDE				Inspector Name	Owen Salava				
Located Over	WOLF CREEK, 5.56, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	2:26 R1 39.063				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	08-Mar-2013				
Legal Land Location	NW SEC 15 TWP 42 RGE 26 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-113:39:48, 52:37:20				Data Entry Date	26-Mar-2013				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA17				Review Date	16-Mar-2013				
Clear Roadway/Skew	12.8 /				Dept. Reviewer Name	Chris Black				
AADT/Year	23,260 / 2011 (A)				Dept. Review Date	28-Mar-2013				
Road Classification	RFD-412.4-130				Follow-Up By					
Detour Length (km)	7									
Allowable Load (t):	Single		Semi		Train		---> On Critical Spans --->Critical Member			
Design Loading:	HS20						---> Primary Span			
Posting Information										
Required Load Posting (t)	Single				Semi		Truck Train			
Posted Loading (t)	Single				Semi		Truck Train			
Posted:	Lane	NB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Posted:	Lane	SB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Not required.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not required.									
Other Sign Types										
Utilities (Located at)										
Utility Attachments										
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			9	9						
Vertical Alignment			8	8						
Roadway Width (m)	11.000									
Approach Bump			8	8						
Guardrail (Y/N)	Yes				S end only.					
Guardrail			7	7						
Length (m)	85.000				Insufficient posts. Not thrie beam.					
Current Standard (Y/N)	No									
Termination Type	TURNED DOWN									
Drainage			7	7						
Approach Road General Rating			8	8						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : HCO, 3 Spans, Lengths(m): 10.1-11.6-10.1, A-Ident Number:)						
Special Features						
Special Feature			6	Steel Stirrups. S2G7,8 only.		
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	0.0	0.0	0.0	0.0		
Wearing Surface			4	5	Up to 4 lines of medium-width cracks above girder edges.	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			3	5	Interspan pier joints-about 10mm lower than wearing surface, leaking and chipped - photos.	
Bump (Y/N)		Yes				
Deck Drainage			5	5	Staining of caps below jnts. Spalled girder legs likely due to leakage before concrete overlay.	
Drains Clogged (Y/N)		No				
Curbs/Median			4	5		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			4	4	Missing rail to post bolt at 2 posts at piers where doubled.. Double layer not spliced to meet standard.	
(Type : GALVANIZED STEEL W-BEAM)						
Bridge Rail Posts			5	5		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			5	5		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	3		
Now	0	0	0	5		
Girders			3	3	Typical flexural cracking all girders. Corrosion cracking in U/S of drains. S1G8,9,11 & S3G3,12 spalled in AZ.	
Last Complete Inspection Date		08-Mar-2013				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 45)						
Span Alignment Problems						
Vertical (Y/N)		Yes		Slight sag in all spans.		
Horizontal (Y/N)		No				
Superstructure General Rating			3	3		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) : 610;1000)						
(Width(mm) : 1000;610)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		1.80				
Wingwalls				6	6	
(Total Number of Bearing Piles : 0:0)				Piles embedded - not visible.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100	0	0	0		
Now	100	0	0	0		
Piles				N	N	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				5	4	
Erosion gullies up to 600mm deep down headslope - before overlay, from leaking between units - photo; exposing pile at SW from drainage.						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : CONCRETE)						
(Depth(mm) : 1000)						
(Width(mm) : 610)						
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				6	6	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				4	4	
Lower 0.6m failed near waterline.						
(Colour Description :)				Red.		
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	Yes			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	Headslope gullies from deck leaking prior to overlay.
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	5	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2013	Replace missing rail to post connection bolt @ 2 posts.								
SEAL CURBS										
PATCH DECK										
OVERLAY DECK	2013	Place new chipseal.								
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION	2013	Patch A1 gullies, 2m3 pitrun.								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2013	Patch girder spalls, 1m3 OH-V.								
OTHER ACTION	2013	Paint lower piles where paint is worn.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	54.3/53.7	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	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	Owen Salava	Previous Assistant's Name								
Next Inspection Date	08-Dec-2014	Previous Inspection Date	16-Sep-2011							
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2013	Replace missing rail to post connection bolt @ 2 posts.	defer, pending replacement			
SEAL CURBS						
PATCH DECK						
OVERLAY DECK	2013	Place new chipseal.	defer pending replacement			
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION	2013	Patch A1 gullies, 2m3 pitrun.	defer pending replacement			
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2013	Patch girder spalls, 1m3 OH-V.	defer pending replacement			
OTHER ACTION	2013	Paint lower piles where paint is worn.	defer pending replacement			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	54.3/53.7	Est. Repl. Yr	2019	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection			Department Comments	Bridge replacement tentatively programmed in PMA to be done 2014. JU		
Maintenance Reviewed By	John Umlah	Date	01-May-2013	Estimated Total	0	
Proposed Long-Term Strategy						
On 3-Year Program (Y/N)						
Proposed Action						
Previous Inspector's Name	Owen Salava	Previous Assistant's Name				
Next Inspection Date	08-Dec-2014	Previous Inspection Date	16-Sep-2011			

Inspection Cycle (Default) (months)	21
Comment	