

Bridge Inspection										
Bridge File Number	75623 S-2 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 L1 39.057				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	-113:39:49, 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 UTILITIES-PHONE LINE									
Telephone					Gas					
Power					Municipal					
Others					Problem (Y/N)	No				
Remarks										
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			9	9	N end only. Insufficient posts - missing one post/corner. Not thrie beam.					
Vertical Alignment			8	8						
Roadway Width (m)	11.600									
Approach Bump			8	8						
Guardrail (Y/N)	Yes									
Guardrail			7	7						
Length (m)	85.000									
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			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	5.0	0.0	0.0	0.0		
Wearing Surface			7	6	Chipseal over FRC 0/L (3 longitudinal cracks between girders. 29Jan07).	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		Yes				
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			N	N	Paved over. Leaking, wet at piers & abuts.	
Bump (Y/N)		No				
Deck Drainage			4	4	Stained caps and delamination at P1 cap & corroded girder legs from leakage.	
Drains Clogged (Y/N)		No				
Curbs/Median			6	6	light scaling	
(Curb Type : Standard)						
Scaling (Percent Area)		2				
Bridge Rail			5	5	double layer. Non-standard splice.	
(Type : GALVANIZED STEEL W-BEAM)						
Bridge Rail Posts			5	5		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			7	7		
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	1		
Now	0	0	0	4		
Girders			3	3	Longit. cracks + corrosion of main bars govern. Multiple girders wide crack in AZ, 1 leg only. S3G8,9 & S1G9 wide cracks in AZ, 2 legs. S3G8 honeycomb spall. S1G8,9 midspan spalls.	
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)		No		slight sag in girders (to be expected on precast with concrete overlay)		
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) : 1000)						
(Width(mm) : 650)						
Backwalls/Breastwalls				7	7	
Greatest Height (m)		1.00				
Wingwalls				7	7	
(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	5	
Erosion occurred before overlay from leaking between units - no problem now.						
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	4	
(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	
(Colour Description :)						
(Colour Code :)						
Bottom 0.6m at waterline wearing, minor corrosion. Red.						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	Yes			
Substructure General Rating		6	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		5	5	Headslope gullies from deck leakage 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										
SEAL CURBS										
PATCH DECK										
OVERLAY DECK	2013	Redo chipseal - drainage.								
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2013	Patch P1 delam, 0.1m3 OH-V.								
OTHER ACTION	2013	Paint pile bottoms where worn.								
OTHER ACTION	2013	Patch honeycomb spall, 0.1m3 OH-V.								
OTHER ACTION	2015	Replace girders or entire bridge. If girders only considered, composite design with wrap around bulkheads to protect existing concrete substructure.								
OTHER ACTION	2015	Consider Koch jint to protect pier caps if longer life is needed.								
OTHER ACTION										
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OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/38.9	Sufficiency Rating (Last/Now) (%)	54.3/48.8	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Monitor cracks in girder & legs at regular cycle for now (21mths). Replace bridge, 45yrs service on HWY 2 is pretty good for HCs.		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	
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Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
OVERLAY DECK	2013	Redo chipseal - drainage.	defer pending replacement				
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2013	Patch P1 delam, 0.1m3 OH-V.	defer pending replacement				
OTHER ACTION	2013	Paint pile bottoms where worn.	defer pending replacement				
OTHER ACTION	2013	Patch honeycomb spall, 0.1m3 OH-V.	defer pending replacement				
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OTHER ACTION	2015	Consider Koch jnt to protect pier caps if longer life is needed.	defer pending replacement				
OTHER ACTION							
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OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/38.9	Sufficiency Rating (Last/Now) (%)	54.3/48.8	Est. Repl. Yr	2019	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor cracks in grider & legs at regular cycle for now (21mths). Replace bridge, 45yrs service on HWY 2 is pretty good for HCs.		Department Comments	Tentatively programmed in PMA for replaced 2014			
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			