

Bridge Inspection							
Bridge File Number	76639 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1972/1972			Lot No.	2		
Bridge or Town Name	SWAN HILLS			Inspector Name	Brian Pientsch		
Located Over	BOULDER CREEK, 8.11.80.39.14, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	33:14 C1 7.516			Assistant Name	Russel Vanderschaaf		
Water Body Cl./Year				Assistant Class	BR CLS B		
Navigabil. Cl./Year				Inspection Date	11-Feb-2013		
Legal Land Location	NW SEC 26 TWP 69 RGE 9 W5M			Data Entry By	Lisa Fairhurst		
Longitude, Latitude	-115:15:36, 55:00:17			Data Entry Date	08-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA06			Review Date	03-Apr-2013		
Clear Roadway/Skew	8.8 /			Dept. Reviewer Name			
AADT/Year	770 / 2012 (A)			Dept. Review Date			
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	150						
Allowable Load (t):	Single	CS1 53 GIRDER	Semi	CS2 63 GIRDER	Train	CS3 75 GIRDER	----> 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)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Posted:	Lane	SB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N) No
Remarks	Not required.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks	Mounted on approach rail posts. Missing SE hazzard						
Other Sign Types	"Boulder Creek", Narrow Bridge.						

Utilities (Located at)			
Utility Attachments			
Telephone			Gas
Power	3 wires East r/w.		Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curve 100m North of bridge.
Vertical Alignment		6	6	Sag curve to the south. No passing both ways.
Roadway Width (m)	12.200			ACP raveling. Patched along both joints - repaired
Approach Bump		6	6	
Guardrail (Y/N)	Yes			Not thrie beam.
Guardrail		4	N	8 post/7 sections at rail bent back SW corner.- snow covered
Length (m)	60.800			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 1 Spans, Lengths(m): 27.4, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		7	7		
(Type : <b>UNDERSLUNG DIAPHR</b> )					
Special Feature			X		
(Type : )					
<b>Wearing Surface/Deck Top Detail Ratings</b>					
	N (%)	1 (%)	2 (%)	3 (%)	Partly snow covered.
<b>Last</b>	5	0	0	0	
<b>Now</b>	20.0	0.0	0.0	0.0	
Wearing Surface		4	4	2% of chip coat missing at the south end. Chip coat on high density overlay & along centerline.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )					
(Thickness(mm) : <b>50</b> )					
Lateral Connection Problem (Y/N)	No				
Deck Top		N	N		
Deck Rideability		7	7		
Deck Joints		7	7	ACP in fingers.	
Temperature (deg. C)		0			
(Expansion Type : <b>FINGER PLATES</b> )					
(Fixed Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC))</b>					
Gap Size (mm)		Gap Location			
20		South Abutment - expansion			
65		North abutment - Fixed			
Deck Drainage		8	8	Plastic trough installed.	
Drains Clogged (Y/N)		No			
Curbs/Median		4	N	Some grader scrapes. Drop in anchors exposed on curb tops, staining. Spall 0.2m L x 0.06mH x 0.0mD SE curb at post connection.-photo	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		5			
Bridge Rail		7	3	Rail hit SE corner - photo Post hit and pushed back SE corner - photo Rust on base plates. - snow covered	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )					
Bridge Rail Posts		7	3		
(Type : <b>GALVANIZED POST STEEL; GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating		6	N		
(Type : <b>GALVANIZED</b> )					
Sidewalk		X	X		
<b>Girder Detail Ratings</b>					
	N (count)	1 (count)	2 (count)	3 (count)	Spall 0.2m L x 0.06mH x 0.0mD SE curb at post connection.- repaired G6 spalling at North end.- repaired
<b>Last</b>					
<b>Now</b>	0	0	0	0	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FC, 1 Spans, Lengths(m): 27.4, A-Ident Number: )					
Girders		4	5	All girders have wide typical cracks. G1 has low cover spall in the underside 330 x 240mm spall in the west leg.- repaired Random concrete chips on girders from rock placement/strengthening.	
Cracking (Y/N)	Yes				
Spalling (Percent Area)	1				
(Number Of Girders : 6)				0.17m W x 0.6mL delam sned G2-epaired G1 delam N end-0.4mLx0.15mW-repaired 10% drains have rust stains and delams.	
Diaphragms/Cross Frame		5	4	G6 spalling at North end.photo All diaphragms over the abuts show signs of corrosion and delams	
Bearings		5	5	Mansonry plates corroding North.	
Temperature (deg. C)	11				
(Expansion Type : <b>REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL</b> )					
(Fixed Type : <b>REINFORCED PAD BEARING</b> )					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		4	4	Rust stains around drain tubs G1 delam N end 0.4mLx0.15mW-repaired 0.17mWx0.6mL delam sned G2.-repaired	
Stains (Percent Area)	5				
<b>Span Alignment Problems</b>					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
<b>Superstructure General Rating</b>		<b>4</b>	<b>4</b>		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
<b>Abutments</b>					
Bearing Seats/Caps		4	4	Delam cracks/spall under joint drains South abutment - photo. Crack North abutment - photo.	
(Type : <b>CONCRETE</b> )					
Backwalls/Breastwalls		5	5		
Wingwalls		6	6		
Piles		N	N		
Paint/Coating		4	4	Faded & peeling.	
Abutment Stability		7	7		
Scour/Erosion		7	7		
<b>Piers/Bents</b>					
(Type : )					
Bearing Seats/Caps		X	X		
(Type : )					
(Total Number of Bearing Piles : )					
Pier Shaft/Piles		X	X		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		X	X		
(Colour Description : )					
(Colour Code : )					
Pier Stability		X	X		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>4</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>E</b> )				
(D/S Direction : <b>W</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		7	7	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION	2013	Repair hazard markers.					
OTHER ACTION	2013	Repair SW rail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>44.4/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>50.1/50.1</b>	Est. Repl. Yr	2022	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	Brian Pientsch		Previous Assistant's Name	Russel Vanderschaaf			
Next Inspection Date	11-Nov-2014		Previous Inspection Date	11-May-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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