

Bridge Inspection										
Bridge File Number	01980 -1 Bridge				Form Type	PSR				
Year Built/Year Supstr	1962/1962				Lot No.	2				
Bridge or Town Name	SUNDRE				Inspector Name	Owen Salava				
Located Over	RED DEER RIVER, 3, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	27:06 C1 1.980				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	22-Oct-2012				
Legal Land Location	SW SEC 3 TWP 33 RGE 5 W5M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-114:38:07, 51:47:47				Data Entry Date	15-Nov-2012				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA29				Review Date	29-Oct-2012				
Clear Roadway/Skew	9.1 / 0 deg.				Dept. Reviewer Name	Andrew Smikles				
AADT/Year	8,600 / 2011 (A)				Dept. Review Date	16-Nov-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	32									
Allowable Load (t):	Single	CS1 43 GIRDER	Semi	CS2 49	Train	CS3 62	----> 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	EB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Remarks	Not required.								
Hazard Marker At Bridge (Y/N)	No								
Remarks	Not required.								
Other Sign Types	Information, Speed.								

Utilities (Located at)										
Utility Attachments	GAS UTILITIES-GAS LINE									
Telephone	South r/w. Conduit attached under South curb.				Gas					
Power	4 wires SW 20m North of centerline.				Municipal	Under South girder.				
Others	Street lights on North curb at NW.				Problem (Y/N)	No				
Remarks										

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Town environment, max 50 km/hr.				
Vertical Alignment			6	6					
Roadway Width (m)	9.500								
Approach Bump			4	6					
Guardrail (Y/N)	Yes		Not attached to bridge at SW, none @ SE.						
Guardrail			4	5					
Length (m)	30.500								
Current Standard (Y/N)	No		Not thrie beam.						
Termination Type	Turn Down								
Drainage			7	7	Curb/gutter.				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : PO, 4 Spans, Lengths(m): 30.5-30.5-30.5-30.5, A-Ident Number:)						
Special Features						
Special Feature			9	Base is corroded N curb.		
(SType : EXT SHEAR STIRRUP)						
Special Feature			X	Coffer Dam. Around all piers.		
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	5	0	0	0		
Now	5.0	0.0	0.0	0.0		
Wearing Surface			5	7		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			6	6		
Deck Joints			6	6		
Temperature (deg. C)		-5				
(Expansion Type : SLIDING PLATES;GLAND (WABO-MAUER, TRANSFLEX, ETC))						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
80		A2				
86		East pier - Exp.				
80		Center - Exp				
88		West pier - Exp				
74		A1				
Deck Drainage			5	5		
Drains Clogged (Y/N)		No				
Curbs/Median			N	6		
(Curb Type : Standard)						
Scaling (Percent Area)		5				
Bridge Rail			5	6		
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts			5	6		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			5	6		
(Type : GALVANIZED)						
Sidewalk			N	6		
"6" Pedestrian rail. 1 nut missing @ S3 @ S.						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	7	0	0	0		
Girders			6	6		
Cracking (Y/N)		No				
Spalling (Percent Area)		0				
(Number Of Girders : 28)						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 4 Spans, Lengths(m): 30.5-30.5-30.5-30.5, A-Ident Number:)				
Diaphragms/Cross Frame		3	7	New steel diaphragms.
Bearings		7	7	Exp: A1, P1, P2, P3. Fixed: A2.
Temperature (deg. C)	-5			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		4	4	Some concrete deterioration under abutment joints - photo - monitor.
Stains (Percent Area)	3			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		5	5	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		4	6	
Piles		N	N	
Paint/Coating		X	X	Lots of graffiti.
Abutment Stability		7	7	
Scour/Erosion		7	7	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		5	5	N end of E & W footing cracked. Wide vertical cracks in W & center piers, up to 2mm wide.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0:0)				
Pier Shaft/Piles		5	5	Minor delam North end P3. Vertical cracks in all piers.
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		4	4	Minor corrosion @ nose plate. Nose plate rusting - monitor.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	Coffer dam around all piers.
Scour		4	5	Channel under S2 is deepest, gravel bar built up elsewhere.
Debris (Y/N)	Yes			Clump of roots on pier 1, pier 2 & pier 3 - photos. Heavy drift U/S of piers.
Substructure General Rating		5	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		6	6	Scour & steep cut bank @ SW & SE.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			Logs & debris @ gravel bars in channel.
Slope Protection		5	5	Class 1 & 2 @ toe.
(Type : CONCRETE; CONCRETE)				
Guidebank/Spurs		7	7	
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	Install anchor bolt nut c/w washer, S3 Ped 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	2013	At all piers U/S.					
OTHER ACTION	2013	Install steel coverplate at A1 sidewalk.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	42.0/42.0	Est. Repl. Yr	2050	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	22-Jul-2014	Previous Inspection Date	04-Feb-2011				
Inspection Cycle (Default) (months)	21						

Comment	
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