

Bridge Inspection									
Bridge File Number	01140 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1980/1980				Lot No.	2			
Bridge or Town Name	GILBY				Inspector Name	Owen Salava			
Located Over	MEDICINE RIVER, 3.88, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	12:06 C1 7.271				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	29-Aug-2012			
Legal Land Location	SW SEC 29 TWP 40 RGE 3 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:23:55, 52:27:54				Data Entry Date	17-Sep-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA18				Review Date	06-Sep-2012			
Clear Roadway/Skew	10.7 /				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	1,180 / 2011 (A)				Dept. Review Date	18-Sep-2012			
Road Classification	RAU-209-110				Follow-Up By				
Detour Length (km)	12								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:	MS230						---> 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	Stream ID.								

Utilities (Located at)									
Utility Attachments									
Telephone	Plowed in South ditch.				Gas	30 m East.			
Power	3 wires OH 25m North of c/l.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Access NE/SE. In sag, no passing EBL; crest curve 200m East, limited sight distance. Bridge on grade.					
Vertical Alignment		7	7						
Roadway Width (m)		10.300							
Approach Bump		6	6						
Guardrail (Y/N)		Yes		Missing connection bolts at NW transition, holes misaligned (photo). Missing 4 splice bolts at NE. No thrie beam.					
Guardrail		4	4						
Length (m)		25.100							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		4	4	Approach drainage causing E abut scour.					
Approach Road General Rating		7	7						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : FM, 3 Spans, Lengths(m): 16-36-16, 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	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 125)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			6	6	Gap sealed at West abut.
Temperature (deg. C)		20			
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
45		East abutment			
10		West abutment			
Deck Drainage			4	4	No drains. All deck drainage to West abutment. Hslp erosion at base of bearing seat (photos).
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			8	7	Some grout pads deteriorating. 3 A/B nuts with insufficient thread North curb. Rust developing under base of posts.
(Type : GALVANIZED STEEL TUBE BEAM TYPE 1)					
Bridge Rail Posts		4	4		
(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	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FM, 3 Spans, Lengths(m): 16-36-16, A-Ident Number:)				
Girders		5	5	Narrow cracking at bottom of legs on S3,6 near bearings @ E abut, marked & dated - no change. Narrow 0.1mm wide chamfer cracks.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	0			
(Number Of Girders : 21)				
Diaphragms/Cross Frame		7	7	
Bearings		7	7	NR + Teflon + stainless steel. Some pier bearings A/B slightly bent. Superficial corrosion at South bearings at East abutment.
Temperature (deg. C)	20			
(Expansion Type :)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	Narrow random cracking. SW end spalled.
(Type : CONCRETE)				
Backwalls/Breastwalls		4	4	Two spots local scaling East abutment.
Wingwalls		5	5	
Piles		N	N	Some exposed at A1 by erosion.
Paint/Coating		4	4	Coating on abutment peeling.
Abutment Stability		7	7	
Scour/Erosion		4	4	Erosion repaired but 0.5m3 scour hole still exists on E & W hspls - photo. Fill settled below abut seats.
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		7	7	At W pier only. H piling welded horizontal btw. all piles.
Nose Plate		X	X	
Paint/Coating		6	6	Properly painted but rusty at soil line.
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		8	8	
Scour		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				70 deg. bend to NE at U/S end.
(D/S Direction : S)				
Alignment		5	5	
Bank Stability		5	5	Erosion along West bank 40m D/S to South - no problem.
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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							
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	2012	NE corner & West headslope. 3m3 pitrun.					
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Patch and seal abut seats at SW & SE, 0.2m3 OH-V.					
OTHER ACTION	2012	Connect transition rail to bridgerail.					
OTHER ACTION	2012	Fill void at NE backwall, 2m3(?).					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.2/62.2	Est. Repl. Yr	2040	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	Chipped in 2008. 2008 CSE predicts rehab about 2026. Replace 2060. RS						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Owen Salava	Previous Assistant's Name					
Next Inspection Date	29-May-2014	Previous Inspection Date	25-Aug-2010				
Inspection Cycle (Default) (months)	21						
Comment							