

Bridge Inspection							
Bridge File Number	13977 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1953/1953			Lot No.	1		
Bridge or Town Name	DIDSBURY			Inspector Name	Owen Salava		
Located Over	ROSEBUD RIVER, 3.33, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	582:02 C1 28.124			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Aug-2011		
Legal Land Location	NW SEC 17 TWP 31 RGE 1 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:06:49, 51:39:45			Data Entry Date	16-Sep-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA29			Review Date	15-Aug-2011		
Clear Roadway/Skew	11 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	1,560 / 2010 (A)			Dept. Review Date	19-Sep-2011		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	3						
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 74 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	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)	Yes							
Remarks								
Other Sign Types	50km/hr, Curve, Information.							

Utilities (Located at)			
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE		
Telephone	South ditch.	Gas	300m west.
Power		Municipal	
Others	Fibre optics in r/w.	Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	"T" intersection 200m West.
Vertical Alignment		5	5	
Roadway Width (m)	9.000			Insufficient posts & not connected to bridgerail @ NE & SW. Not thriebeam.
Approach Bump		4	5	
Guardrail (Y/N)	Yes			
Guardrail		7	5	
Length (m)	24.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		5	5	Drains to bridge from East.
<b>Approach Road General Rating</b>		<b>5</b>	<b>5</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number: )					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
<b>Last</b>					
<b>Now</b>	0.0	0.0	0.0	0.0	
Wearing Surface			4	4	Deck has been chipsealed. Localized spots worn bare - photo.
(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			5	5	Due to short span & rough approach.
Deck Joints			X	X	
Bump (Y/N)		No			
Deck Drainage			4	5	
Drains Clogged (Y/N)		Yes			
Curbs/Median			3	5	Minor scale S3, N curb.
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		2			
Bridge Rail			4	4	Double layer. 9 bolts missing at splices.
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			3	5	
(Type : <b>TREATED TIMBER;TREATED TIMBER</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>CREOSOTE</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>					
<b>Now</b>	0	0	0	4	
Girders			4	3	11 of 42 girders have wide cracks in 1 leg in AZ, 6 in both legs. Curb girders spalling. Bolt on curb. Narrow shear crack at center span W end of G8. S1-3G2 S leg spalled almost full length. S3G4 spall at A2.  Not visible. 2 'A' curbs, 12 PG girders each span.
Last Complete Inspection Date		10-Aug-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : <b>42</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No		Curbs skewed to road approx 200mm - photo.	
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>			<b>4</b>	<b>3</b>	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)				Ext piles are timber.		
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 4:4)				HP.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		1.30				
Wingwalls				X	X	
(Total Number of Bearing Piles : 10:10)				Majority of A1 piles are buried. A2 piles rated.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	10					
<b>Now</b>	10	0	0	0		
Piles				6	6	
Paint/Coating				4	4	
				Primed only. Peeling/scaling.		
Abutment Stability				5	5	
				Gap between steel capital & pile not grouted.		
Scour/Erosion				4	4	
				Erosion of headslopes - photo.		
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 4:6)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : STEEL)						
(Depth(mm) : 356)						
(Width(mm) : 356)						
(Total Number of Bearing Piles : 8:8)				Only top section visible, majority sheeted in. Rated what's visible.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				5	5	
Greatest Height (m)		3.00				
Bracing/Struts/Sheathing				6	6	
Nose Plate				7	7	
Paint/Coating				4	4	
				Primed only. Peeling/scaling.		
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	Gap between steel capital & pile not grouted - photo. Slight lean at North end of West pier & bowed towards stream.
Scour		6	6	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>N</b> )				
(D/S Direction : <b>S</b> )				
Alignment		7	7	
Bank Stability		5	5	Steep cut @ SW.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		5	6	
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>5</b>	<b>6</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Upgrade to std. Install 9 missing splice bolts.								
SEAL CURBS										
PATCH DECK										
OVERLAY DECK	2012	Chipseal bare spots.								
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion gullies.								
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.1/62.8</b>	<b>Est. Repl. Yr</b>	<b>2016</b>	<b>Maint. Req'd. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	No action for I=3 girders.		Department Comments							
Maintenance Reviewed By			Date			Estimated Total	0			
Proposed Long-Term Strategy	2007.10.10 Final Design in progress. Spot replacement in 2012.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam		Previous Assistant's Name							
Next Inspection Date	10-Nov-2014		Previous Inspection Date	30-Sep-2009						
Inspection Cycle (Default) (months)	39									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Upgrade to std. Install 9 missing splice bolts.	Next time on site				
SEAL CURBS							
PATCH DECK	2012	Chipseal bare spots.	To operations				
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion gullies.	Defer until replacement				
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.	To operations				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>50.0/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.1/62.8</b>	Est. Repl. Yr	2016	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	No action for r=3 girders.		Department Comments	Tentatively programmed to be replaced in 2022. AS			
Maintenance Reviewed By	Andrew Smikles		Date	22-Aug-2012	Estimated Total	0	
Proposed Long-Term Strategy	2007.10.10 Final Design in progress. Spot replacement in 2012.						
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Dave Lam		Previous Assistant's Name				
Next Inspection Date	10-Nov-2014		Previous Inspection Date	30-Sep-2009			
Inspection Cycle (Default) (months)	39						

Comment	
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