

Bridge Inspection							
Bridge File Number	01012 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1955/1955			Lot No.	2		
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 21.623			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Aug-2011		
Legal Land Location	SW SEC 22 TWP 31 RGE 2 W5M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-114:12:14, 51:39:50			Data Entry Date	09-Sep-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA29			Review Date	15-Aug-2011		
Clear Roadway/Skew	10.1 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	1,050 / 2010 (A)			Dept. Review Date	15-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		40.0	Truck Train 54.0
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	Assess as to whether reduced posting is required as noted. Install signs as per assessment.							
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Too low.							
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone	South r/w.	Gas	
Power	1 wire North r/w.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Limited sight distance to West.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			ACP low @ both approaches.
Approach Bump		3	4	Hole in East paint line (photo) - minor.
Guardrail (Y/N)	Yes			Insufficient length; not thriebeam.
Guardrail		8	8	
Length (m)	15.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		3	4	See approach bump comment. Drainage causing hslp erosion.
Approach Road General Rating		3	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last				20	
Now	0.0	0.0	0.0	30.0	
Wearing Surface			3	3	Chipcoat on concrete 90mm total thickness. Chipseal stops 0.5m from curbs & worn bare at 30% - photo. Longitudinal crack in concrete deck. Cracked concrete with exposed rebar at centreline, EBL (photo).
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			4	4	Short span with bump @ abutment give rough ride over bridge.
Deck Joints			N	N	Covered by ACP/chipseal.
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Single layer. Some small dents on North rail.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	8	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	0	
Girders			5	5	Hairline cracks @ roof of N exterior. Diagonal cracking in SW face of G1 - photo. Rust staining near E abut of G2, minor. Covered by ACP.
Last Complete Inspection Date		10-Aug-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 12)					
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						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1300)						
(Total Number of Caps/Corbels : 3:3)				Subcaps 300mm x 300 x 1.85. Bottom cap 300 x 300mm & tapered to outside ends of crown.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				5	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
Backwalls/Breastwalls			4	4		
Greatest Height (m)		2.05		1 plank @ W backwall @ abut rotted, still holds fill in place - photo. Breastwall installed on W abut. Concrete poured between walls to stop loss of fill from behind backwall.		
Wingwalls			4	4		
2 planks broken @ SW wingwall at ends.						
(Total Number of Bearing Piles : 9:9)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability			4	4		
Fill eroding where hole developed @ East approach.						
Scour/Erosion			4	N		
(Gully @ SW corner - photo. 23Sep2009). Grass covered.						
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				90 degree bend 10m U/S.
(D/S Direction : N)				
Alignment		6	6	
Bank Stability		7	7	
HWM (m below Top of Curb)	0.4			(2000/05/03)
Drift (Y/N)	No			
Slope Protection		4	4	(Scour hole under bridge towards W abut. 23Sep2009).
(Type : RIP RAP; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Upgrade to meet standard.								
SEAL CURBS	2012	Patch ACP @ approaches.								
PATCH DECK	2012	Patch spalls at ends - 0.2m3 NH.								
OVERLAY DECK	2012	Chipseal.								
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion gully @ SW, if not yet done.								
PLACE ADDITIONAL RIP RAP	2012	Armour scour hole under bridge - 10m3 CL1, if not yet done.								
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Assess if reduced loading is required as noted. Post as required, if not yet done.								
OTHER ACTION	2012	Replace/repair planks @ SW wingwall & backwall. Plank dimensions are: 2 @ 240 x 60 x 2300mm @ wingwall @ SW. 1 @ 240 x 60 x 2000mm @ wingwall @ SW.								
OTHER ACTION	2012	Reinstall hazard markers to meet standard.								
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.								
OTHER ACTION	2012	Patch hole in East approach.								
OTHER ACTION										
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OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	55.4/64.2	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Previously cored.		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	Dave Lam		Previous Assistant's Name							

Next Inspection Date	10-Nov-2014	Previous Inspection Date	23-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 meet standard.	To Operations				
SEAL CURBS	2012	Patch ACP @ approaches.	To Operations				
PATCH DECK	2012	Patch spalls at ends - 0.2m3 NH.	Next time on site				
OVERLAY DECK	2012	Chipseal.	Defer, Low priority				
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION	2012	Repair erosion gully @ SW, if not yet done.	To Operations				
PLACE ADDITIONAL RIP RAP	2012	Armour scour hole under bridge - 10m3 CL1, if not yet done.	To Operations				
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Assess if reduced loading is required as noted. Post as required, if not yet done.	Defer				
OTHER ACTION	2012	Replace/repair planks @ SW wingwall & backwall. Plank dimensions are: 2 @ 240 x 60 x 2300mm @ wingwall @ SW. 1 @ 240 x 60 x 2000mm @ wingwall @ SW.	Next time on site				
OTHER ACTION	2012	Reinstall hazard markers to meet standard.	To Operations				
OTHER ACTION	2012	Upgrade approach guardrail to meet standard.	To Operations				
OTHER ACTION	2012	Patch hole in East approach.	To Operations				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	55.4/64.2	Est. Repl. Yr	2020	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Previously cored.		Department Comments	Tentatively programmed to be replaced in 2017. AS			
Maintenance Reviewed By	Andrew Smikles		Date	15-Aug-2012	Estimated Total	0	

Proposed Long-Term Strategy			
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	23-Sep-2009
Inspection Cycle (Default) (months)	39		
Comment			