

Bridge Inspection							
Bridge File Number	13260 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1953/1953			Lot No.	1		
Bridge or Town Name	RYLEY			Inspector Name	Jason Saly		
Located Over	TRIBUTARY TO WASKWEI CK, 6.5.38.1, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	626:02 C1 27.974			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	26-Jun-2012		
Legal Land Location	SW SEC 3 TWP 51 RGE 16 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:17:05, 53:22:01			Data Entry Date	13-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA14			Review Date	05-Jul-2012		
Clear Roadway/Skew	10.1 /			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	320 / 2011 (A)			Dept. Review Date	19-Jul-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	6						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 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	
Other Sign Types	

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

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Field entrance 30m east. "T" intersection 200m west of bridge. No passing.
Vertical Alignment		8	8	
Roadway Width (m)	10.000			Insufficient length, posts/spacing. Not thrie beam transition. Too high, 0.85 to centre at transition.
Approach Bump		3	6	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	15.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		7	7	(Ponding at NE approach. 11Aug2009).
Approach Road General Rating		7	7	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 1 Spans, Lengths(m): 6.1, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			4	4	Spalled girder edges.
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			7	7	Also btwn girders.
Drains Clogged (Y/N)		No			
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			7	7	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last					
Now	0	0	0	2	
Girders			4	3	G4-9,11 two legs cracked in AZ. G6,9 one leg spalled in AZ. G8 two legs spalled in Z.
Last Complete Inspection Date		26-Jun-2012			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 13)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			4	3	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : N)						
(Extended Backwall Piles Spacing(mm) :)						
(Total Number of Caps/Corbels : 6:6)				6 x 12's on top of caps.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
Backwalls/Breastwalls				7	6	
Greatest Height (m)		2.20				
Wingwalls				6	6	
(Total Number of Bearing Piles : 8:8)				Piles not anchored.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Piles				7	6	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				7	7	
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 :)						
Pier Stability				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Straight. Defined on North side 4-6m wide. South side marshy.
(D/S Direction : N)				
Alignment		7	7	
Bank Stability		7	7	Low plain. Slough U/S and D/S.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		7	7	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Assess/replace girders.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	61.1/50.0	Sufficiency Rating (Last/Now) (%)	69.4/64.6	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	No action required for "3" rated girders at this time.		Department Comments							
Maintenance Reviewed By		Date			Estimated Total	0				
Proposed Long-Term Strategy	2007.10.10 Part of regional consultant for spot replacement in 2012. 2005.01.21 Bridge is 52 years old but appears to be in good condition. Monitor normal BIM. Consider replacement in 2013.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Dave Lam		Previous Assistant's Name							
Next Inspection Date	26-Sep-2015		Previous Inspection Date	11-Aug-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						
SEAL CURBS						
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS						
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2012	Assess/replace girders.	Defer, replacement programmed	2022		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	61.1/50.0	Sufficiency Rating (Last/Now) (%)	69.4/64.6	Est. Repl. Yr	2018	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	No action required for "3" rated girders at this time.	Department Comments	Replacement programmed for 2022. Continue to monitor girders on regular BIM cycle until replaced
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Maintenance Reviewed By	Andrew Smikles	Date	20-Nov-2012	Estimated Total	0
Proposed Long-Term Strategy	2007.10.10 Part of regional consultant for spot replacement in 2012. 2005.01.21 Bridge is 52 years old but appears to be in good condition. Monitor normal BIM. Consider replacement in 2013.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Dave Lam	Previous Assistant's Name			
Next Inspection Date	26-Sep-2015	Previous Inspection Date	11-Aug-2009		
Inspection Cycle (Default) (months)	39				

Comment	
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