

Bridge Inspection							
Bridge File Number	07683 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1969/1969			Lot No.	1		
Bridge or Town Name	OYEN			Inspector Name	Owen Salava		
Located Over	SOUNDING CREEK, 4.4, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	41:12 C1 19.983			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	18-Jul-2012		
Legal Land Location	SE SEC 15 TWP 30 RGE 4 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-110:28:26, 51:34:00			Data Entry Date	01-Aug-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA22			Review Date	31-Jul-2012		
Clear Roadway/Skew	12.8 / 0 deg.			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	570 / 2011 (A)			Dept. Review Date	02-Aug-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 65 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	Mounted @ 1st guardrail post, too low (1.0m to bottom).							
Other Sign Types								

Utilities (Located at)			
Utility Attachments			
Telephone	24.0m West attached to curb. Telus also along South abutment cap.	Gas	
Power	3 wires 23.0m East.	Municipal	
Others	Water station East of bridge, r/w.	Problem (Y/N)	Yes
Remarks	(Conduit separated at P1. 12Jul2010).		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	Sag curve, no passing on hills only.
Vertical Alignment		7	7	
Roadway Width (m)	11.500			Ravelling in ACP at abuts.
Approach Bump		4	4	
Guardrail (Y/N)	Yes			Missing 4 splice bolts at NE.
Guardrail		4	4	
Length (m)	26.000			Not thriebeam.
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		N	7	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : <b>HC, 3 Spans, Lengths(m): 6.1-8.5-6.1, A-Ident Number: )</b>						
<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>	5	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface			4	4	Asphalt stops 700mm from curb outside of driving lanes. Long cracks in ACP btwn units. Wide cracks over piers and abut.	
(Material Type : <b>ACP</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N	Paved over.	
Deck Rideability			7	7		
Deck Joints			N	N	ACP covered.	
Bump (Y/N)		No				
Deck Drainage			7	7		
Drains Clogged (Y/N)		No				
Curbs/Median			4	4	S3G1 minor spall at South end. Grader scrapes.	
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		1				
Bridge Rail			4	4	Single layer. Post connector bolts just flush. Missing 8 splice bolts. SE not connected properly.	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )						
Bridge Rail Posts			7	7		
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	7		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	2		
<b>Now</b>	0	0	0	1		
Girders			3	3	S3G7 has wide crack in AZ both legs in un-sound concrete, spalling midspan along W leg. 25 girders with wide long. cracking in 1 leg in AZ. S1G7;S2G5-7,10-11;S3G11 have wide cracks in AZ of both legs but in sound concrete.	
Last Complete Inspection Date		18-Jul-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		1				
Lift or Connector Pocket Grouted (Y/N)		No				
(Number Of Girders : <b>45</b> )				2 lift pockets, 1 connector pocket not grouted S1&2.		
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>		

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls			5	5		
Greatest Height (m)		2.20				
Wingwalls			6	6		
(Total Number of Bearing Piles : 8:8)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Piles				4	4	
Paint/Coating				X	X	
Abutment Stability			4	4		
Scour/Erosion			6	6		
<b>Piers/Bents</b>						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 5:5)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 350)						
(Total Number of Bearing Piles : 11:11)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	1		
<b>Now</b>	0	0	0	1		
Pier Shaft/Piles				3	3	
Greatest Height (m)		4.30				
Bracing/Struts/Sheathing			7	7		
Nose Plate			X	X		
Paint/Coating			X	X		
(Colour Description : )						
(Colour Code : )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	P1 leaning South.
Scour		6	6	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>3</b>	<b>3</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				Meanders through large flood plain with defined banks.
(D/S Direction : <b>E</b> )				
Alignment		6	6	
Bank Stability		N	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		N	6	
(Type : <b>NATURAL; 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>6</b>	<b>6</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2012	Install 8 splice bolts; correct splice at SE.								
SEAL CURBS										
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS	2012	Pier pile repairs.								
WASHING										
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS										
REPAIR/REPLACE TIMBER CAPS	2015	Replace caps.								
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2012	Band 1 split pile @ P1.								
OTHER ACTION	2012	Grout girder pockets.								
OTHER ACTION										
OTHER ACTION										
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.2/56.7</b>	<b>Est. Repl. Yr</b>	<b>2015</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>			
Special Comments for Next Inspection	Consider replacing the bridge in lieu of repairs in 1-3yr schedule. No action required for 3 rating of girder. Continue regular curb sealing practices.		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	Jason Saly	Previous Assistant's Name								
Next Inspection Date	18-Apr-2014	Previous Inspection Date	29-Mar-2011							
Inspection Cycle (Default) (months)	21									
Comment										

**Maintenance Recommendations**

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Install 8 splice bolts; correct splice at SE.	Defer until replaced	2014			
SEAL CURBS							
PATCH DECK							
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS	2012	Pier pile repairs.	Defer until replaced	2014			
WASHING							
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS	2015	Replace caps.	Defer until replaced	2014			
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Band 1 split pile @ P1.	Defer until replaced	2014			
OTHER ACTION	2012	Grout girder pockets.	Defer until replaced	2014			
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/33.3</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>56.2/56.7</b>	Est. Repl. Yr	2015	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Consider replacing the bridge in lieu of repairs in 1-3yr schedule. No action required for 3 rating of girder. Continue regular curb sealing practices.		Department Comments	Programmed to be replaced in 2014			
Maintenance Reviewed By	Andrew Smikles		Date	27-Nov-2012	Estimated Total	0	
Proposed Long-Term Strategy							
On 3-Year Program (Y/N)							
Proposed Action							
Previous Inspector's Name	Jason Saly		Previous Assistant's Name				
Next Inspection Date	18-Apr-2014		Previous Inspection Date	29-Mar-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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