

Bridge Inspection									
Bridge File Number	74035 -1 Bridge				Form Type	PSR			
Year Built/Year Supstr	1981/1981				Lot No.	2			
Bridge or Town Name	WESTWARD HO				Inspector Name	Owen Salava			
Located Over	LITTLE RED DEER RIVER, 3.89, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	27:06 C1 10.771				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	22-Oct-2012			
Legal Land Location	NE SEC 33 TWP 32 RGE 4 W5M				Data Entry By	Marcia Chavez			
Longitude, Latitude	-114:30:30, 51:47:38				Data Entry Date	15-Nov-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien			
Contract Main. Area	CMA29				Review Date	30-Oct-2012			
Clear Roadway/Skew	13.1 / -10 deg. (LHF)				Dept. Reviewer Name	Andrew Smikles			
AADT/Year	5,090 / 2011 (A)				Dept. Review Date	16-Nov-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	6								
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	Bridge Ices.								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	SW of bridge.				Gas				
Power	3 lines North of bridge.				Municipal				
Others	Fibre optics @ SE.				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	On curve with limited sight distance.				
Vertical Alignment			6	6	In sag curve. No passing.				
Roadway Width (m)	11.000				E abut deck joints - photo. Approaches milled down. Superelevated.				
Approach Bump			5	5					
Guardrail (Y/N)	Yes								
Guardrail			6	6					
Length (m)	99.000								
Current Standard (Y/N)	No				Insufficient posts @ 1.9m spacing & @ bridge.				
Termination Type	Turn Down				Not thrie beam.				
Drainage			N	5					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 2 Spans, Lengths(m): 28-22, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	5	0	0	0	
Now	5.0	0.0	0.0	0.0	
Wearing Surface			5	5	4 narrow grout key cracks intermittent full length. Wear at abuts.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	(Active leakage still occurring @ SW deck joint. 03/11/17). Missing 3 bolts A2 jnt (photo).
Temperature (deg. C)		-4			
(Expansion Type : ARMOURED GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
90		West			
90		East			
Deck Drainage			4	4	"4" rating due to leakage comment (unconfirmed). Superelevated and on a grade. Drains to S curb line and over tops SW corner.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Typical staining on exterior under posts. NW transition curb scaling & delaminating. All transition scaling @ top. Shallow spall @ N curb - photo, sealed. 0.2x0.5m spall at SE approach curb.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			8	8	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
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	0	0	0	0	
Now	0	0	0	0	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : DBT, 2 Spans, Lengths(m): 28-22, A-Ident Number:)				
Girders		5	5	
Cracking (Y/N)	No			
Spalling (Percent Area)	0			
(Number Of Girders : 24)				
Diaphragms/Cross Frame		5	5	Concrete @ abutments & pier, steel at intermediate.
Bearings		8	8	A1-2 P1
Temperature (deg. C)	-4			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	
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		4	4	Horizontal crack & scaling @ SW corner - photo. Ck'ng to block at SW (photo).
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	Cracks up backwall & breastwall at SW corner.
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		4	4	Graffiti @ W abut.
Abutment Stability		8	8	
Scour/Erosion		4	4	Void under W abut from approach drainage - photo. E abut hslp settlement at SE (photo).
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		6	6	
Bracing/Struts/Sheathing		X	X	
Nose Plate		8	8	
Paint/Coating		5	5	Scaling @ nose @ U/S @ waterline.
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		N	6	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Debris (Y/N)	Yes			Large drift under S1.
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				Bend U/S impacting SW bank (erosion) - photo.
(D/S Direction : N)				
Alignment		4	4	
Bank Stability		4	4	Vertical cut bank @ SW slowly eroding away.
HWM (m below Top of Curb)				HWM not visible. At banks.
Drift (Y/N)	Yes			
Slope Protection		4	4	Lower portion of headslope only @ West abutment. Riprap & filter fabric displaced @ East abutment - photo.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Replace coverplate bolts EB A2.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Recast thrust block at SW.					
OTHER ACTION	2013	Construct guidebanks @ SW bank.					
OTHER ACTION	2013	Restore East abutment riprap/filter fabric.					
OTHER ACTION	2013	Patch/seal SW abutment crack/scaling.					
OTHER ACTION	2013	Flood jnts & check for leakage.					
OTHER ACTION	2013	Fill void with fillcrete under seat.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	50.9/50.9	Est. Repl. Yr	2035	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date			Estimated Total	0
Proposed Long-Term Strategy	2008.11.10 River is moving west at u/s end.Monitor normal BIM and after flood event. Could move gravel bar from east bank to west bank, rock as necessary in future. RS						
On 3-Year Program (Y/N)	Y						
Proposed Action	Seal cracks and chip seal by 2010. RS						
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	22-Jul-2014		Previous Inspection Date	04-Feb-2011			
Inspection Cycle (Default) (months)	21						

Comment	
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