

Bridge Inspection									
Bridge File Number	77547 W-2 Bridge				Form Type	SG			
Year Built/Year Supstr	2007/2007				Lot No.	2			
Bridge or Town Name	MIDNAPORE				Inspector Name	Garry Roberts			
Located Over	LOCAL ROAD;BOW BOTTOM TRAIL SOUTH EAST;BOW RIVER, 2.13, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	22X:04 L1 2.535				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	28-Jan-2013			
Legal Land Location	SE SEC 25 TWP 22 RGE 1 W5M				Data Entry By	Erin Roberts			
Longitude, Latitude	-114:00:40, 50:53:38				Data Entry Date	19-Feb-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Tom Carey			
Contract Main. Area	DEERFOOT/STONE Y				Review Date	06-Feb-2013			
Clear Roadway/Skew	12.9 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	15,870 / 2011 (A)				Dept. Review Date	21-Feb-2013			
Road Classification					Follow-Up By				
Road Classification					Follow-Up By				
Detour Length (km)	1				Follow-Up By				
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	CL800				----> Primary Span				

Posting Information										
Required Vert. Clearance Posting (m)										
Posted Vertical Clearance (Y/N)	Yes									
Posted:	Lane	SB	On Bridge (m)	4.7	In Advance (Y/N)	No	Lane	NB	On Bridge (m)	In Advance (Y/N)
Remarks	4.9 SB posting at Sp 5.									
Required Load Posting (t)	Single		Semi		Truck Train					
Posted Loading (t)	Single		30.0	Semi		47.0	Truck Train		63.0	
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	Yes		
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)			
Remarks	Posting is on temporary signs. Allowable loading indicates posting is not required.									
Hazard Marker At Bridge (Y/N)	No									
Remarks	Not required.									
Other Sign Types										

Utilities (Located at)									
Utility Attachments									
Telephone	North ROW				Gas				
Power	North ROW				Municipal				
Others	Street Lights				Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment			7	Thriebeam at SE shoulder. Temporary concrete barriers at North. Under construction at NW and SW with missing sections and bolts.					
Vertical Alignment			6						
Roadway Width (m)		13.000							
Approach Bump			8						
Guardrail (Y/N)		Yes							
Guardrail			4						
Length (m)		99.000							
Current Standard (Y/N)		Yes							
Termination Type		Attenuator							
Drainage			7						
Approach Road General Rating			6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : WG, 5 Spans, Lengths(m): 36.6-40.7-65-34.6-30.5, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now	10.0	0.0	0.0	0.0	
Wearing Surface				8	
(Material Type : POLYMER MODIFIED ACP)					
(Thickness(mm) : 50)					
Deck Top			N	Paved.	
Deck Rideability			8		
Deck Joints			8		
Temperature (deg. C)	-1				
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)	Gap Location				
55	Pier 1 West				
50	Pier 1				
50	Pier 4 East				
50	Pier 4				
Deck Drainage			6	No drains.	
Drains Clogged (Y/N)					
Curbs/Median			8	Concrete parapet at North shoulder.	
(Curb Type : Standard)					
Scaling (Percent Area)	0				
Bridge Rail			3	Steel rail and posts at South curb had several A/B nuts with less than full thread. Missing 4 rail to post bolts- 3 at Sp 2 and 1 at Sp 3. Missing 6 rail splice bolts- 2 at Sp 2, 3 at Sp 3 and 1 at Sp 4. Galvanized pipe rail at North has 9 A/B nuts with less than full thread and several others just flush.	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8		
(Type : GALVANIZED)					
Sidewalk			8	North side. PMA wear surface 40% snow covered.	
Girder/Beam					
Cover Plate			X	6 continuous steel girder lines.	
Flange			8	Vertical stiffeners.	
Web			8		
Stiffeners			8		
Splice			8		
Weld			8		
Diaphragms/Cross Frame			8		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 5 Spans, Lengths(m): 36.6-40.7-65-34.6-30.5, A-Ident Number:)				
Paint Condition			8	Weathering steel except end 3m at piers.
(Colour Description : BROWN)				
(Colour Code : 30252;)				
Touchup Required (Y/N)	No			
Bearings			8	Viewed with binoculars. Neoprene pads at both end span girders.
Temperature (deg. C)	-1			
(Expansion Type : POT BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			8	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			8	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps			9	
(Type :)				
Backwalls/Breastwalls			9	
Wingwalls			8	
Piles			N	Buried.
Paint/Coating			7	Pigmented sealer.
Abutment Stability			8	
Scour/Erosion			8	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps			9	
(Type :)				
(Total Number of Bearing Piles : 0:0:0:0)				
Pier Shaft/Piles			9	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			7	
(Colour Description :)				Pigmented sealer.
(Colour Code :)				
Pier Stability			8	
Scour			N	
Debris (Y/N)	No			Water too deep at P2 and P3. P1 and P4 are dry.
Substructure General Rating			8	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment			8	
Bank Stability			8	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection			8	
(Type : RIP RAP; NATURAL; CONCRETE; NATURAL)				
Guidebank/Spurs			X	
Adequacy of Opening			8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating			8	
Grade Separation				
Road Alignment			6	Local road and paths under Sp 1 and 5.
Traffic Safety Features			X	
Type				
Slope Protection			7	
(Type : RIP RAP; NATURAL; CONCRETE; NATURAL)				
Bank Stability			8	
Drainage			7	
Grade Separation General Rating			6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace 4 rail to post bolts and 6 rail splice bolts. Complete approach rail installation.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS							
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/88.9	Sufficiency Rating (Last/Now) (%)	/67.7	Est. Repl. Yr	2065	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			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			Previous Assistant's Name				
Next Inspection Date	28-Oct-2014		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							