

Bridge Inspection									
Bridge File Number	78131 W-2 Bridge				Form Type	SG			
Year Built/Year Supstr	2005/2005				Lot No.	2			
Bridge or Town Name	SANGUDO				Inspector Name	Kris Bosters			
Located Over	PEMBINA RIVER, 8.11.84, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	43:18 L1 17.350				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	03-Oct-2011			
Legal Land Location	SE SEC 1 TWP 57 RGE 7 W5M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:53:56, 53:53:39				Data Entry Date	25-Oct-2011			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12				Review Date	22-Oct-2011			
Clear Roadway/Skew	12.4 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	6,860 / 2010 (A)				Dept. Review Date	26-Oct-2011			
Road Classification	RAD-412.4-120				Follow-Up By				
Detour Length (km)	1								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member		
Design Loading:							---> Primary Span		
Posting Information									
Required Load Posting (t)	Single		Semi		Truck Train				
Posted Loading (t)	Single		Semi		Truck Train				
Posted:	Lane	WB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
Posted:	Lane	EB	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									
Other Sign Types									
Utilities (Located at)									
Utility Attachments									
Telephone	S r/w				Gas				
Power	3 wire N r/w				Municipal				
Others	Fiber in S r/w				Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Curve at both ends with good sight distance on down grade to West.				
Vertical Alignment			6	6					
Roadway Width (m)	13.400				West slab drops -200mm creating bump.				
Approach Bump			5	4	ACP cracked and ravelling at S joint & S approach slab.-photos				
Guardrail (Y/N)	Yes								
Guardrail			8	8					
Length (m)	85.000								
Current Standard (Y/N)	Yes								
Termination Type	Turned Down								
Drainage			4	4	Erosion gully between bridges extending into riprap @ East side.-photo				
Approach Road General Rating			6	6					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : WG, 3 Spans, Lengths(m): 38-48-38, A-Ident Number: A1555-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Partially snow covered.	
Last	50	0	0	0		
Now						
Wearing Surface			7	5	Wide crack in ACP down CL and random transverse cracking.-photo	
(Material Type : ACP)						
(Thickness(mm) : 80)						
Deck Top			N	N		
Deck Rideability			8	8		
Deck Joints			7	7		
Temperature (deg. C)		8				
(Expansion Type : FINGER PLATES)						
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))						
Gap Size (mm)		Gap Location				
45		East abutment (A2)				
78		West abutment (A1)				
Deck Drainage			9	7	W paving lips have narrow transverse cracks, small spalls on E paving lip.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	7	Vertical cracking along interior faces of the curbs.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			9	9	NE posts 10-17, 20, 21 small dents/ nicks at top.	
(Type : GALVANIZED STEEL BRIDGE TUBE)						
Bridge Rail Posts		7	7			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		9	9			
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			9	9	4 girders / span.	
Flange			9	9		
Web			9	9		
Stiffeners			9	9		
Splice			9	9		
Weld			9	9		
Diaphragms/Cross Frame			9	9		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 3 Spans, Lengths(m): 38-48-38, A-Ident Number: A1555-01)				
Paint Condition		8	8	Weathering steel.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		8	8	
Temperature (deg. C)	8			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
Backwalls/Breastwalls		8	8	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		5	5	5% peeling
Abutment Stability		8	8	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				Steel pipe piles - battered.
Bearing Seats/Caps		9	9	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 5:5)				
Pier Shaft/Piles		9	9	
Bracing/Struts/Sheathing		9	9	
Nose Plate		X	X	
Paint/Coating		9	9	Galvanized
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	9	
Scour		N	N	Water too deep to view base of piers.
Debris (Y/N)	Yes			1 piece of drift collecting @ Pier 2.

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		7	7	Rock, East headslope only.
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	Yes			
Slope Protection		8	8	
(Type : NATURAL; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	9	
(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							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2011	Seal cracks in ACP on deck and at approaches.					
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	2011	Repair erosion in E ditch between bridges.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/83.3	Sufficiency Rating (Last/Now) (%)	71.5/71.5	Est. Repl. Yr	2080	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor West end approach bump.		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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	03-Jul-2013		Previous Inspection Date	15-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							