

Bridge Inspection									
Bridge File Number	73924 S-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1987/1987				Lot No.	3			
Bridge or Town Name	LETHBRIDGE				Inspector Name	Jason Rusu			
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS A			
Located On	4:06 L1 17.741				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	24-Mar-2013			
Legal Land Location	NE SEC 7 TWP 8 RGE 20 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-112:41:50, 49:37:59				Data Entry Date	11-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	07-Apr-2013			
Clear Roadway/Skew	13.3 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	5,970 / 2012 (A)				Dept. Review Date	22-Apr-2013			
Road Classification	RFD-412.4-130				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:	MS300						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
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)	No								
Remarks	Not required.								
Other Sign Types	River ID								

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	West and East Row				Gas				
Power					Municipal				
Others					Problem (Y/N)		No		
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			9	9					
Vertical Alignment			9	9					
Roadway Width (m)	13.200				Recently paved at West lane.				
Approach Bump			7	7					
Guardrail (Y/N)	Yes				7.6m @ SE.				
Guardrail			4	4	2 Bolts missing @ posts and 6 bolts missing @ splice @ NW and 2 at NE				
Length (m)	26.000				Wrong lap at NE				
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN				Not thriebeam				
Drainage			7	7					
Approach Road General Rating			9	9					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SMC, 4 Spans, Lengths(m): 10-10-10-10, A-Ident Number:)					
Special Features					
Special Feature					
(Type :)					
Special Feature					
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			7	7	Some random cracks at ACP at West lane.
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 90)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			6	6	
Drains Clogged (Y/N)		No			
Curbs/Median			7	6	Paint peeling, hairline to 1mm wide transverse cracks @ 500mm spacing @ A/B's.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			7	7	
(Type : GALVANIZED STEEL BRIDGE TUBE)					
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	0	0	0	0	
Now	0	0	0	0	
Girders			6	6	Minor hairline longitudinal cracks.
Last Complete Inspection Date		24-Mar-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 48)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	6	

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 : 1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) : 500)						
(Width(mm) : 400)						
Backwalls/Breastwalls				N	N	Not visible behind precast
Greatest Height (m)		1.20				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Buried	
Last	1	0	0	0		
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				7	7	
Abutment Stability				8	8	
Scour/Erosion				8	8	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 1:1:1)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0	Corrosion stained @ piers #1 & #3 at ends.	
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) : 600)						
(Width(mm) : 500)						
(Total Number of Bearing Piles : 6:6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		5.10				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				5	5	
(Colour Description : YELLOW)						
(Colour Code : 13538)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	N	Water too deep
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)	3.0			No visible HWM
Drift (Y/N)	No			
Slope Protection		7	7	Mix of 1m & 1.
(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	2013	Install bolts @ NW guardrail- 2-5/8 x 10" -6 5/8x2" galv. F.B bolts					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	77.8/77.8	Sufficiency Rating (Last/Now) (%)	71.5/71.4	Est. Repl. Yr	2045	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	Garry Roberts		Previous Assistant's Name				
Next Inspection Date	24-Dec-2014		Previous Inspection Date	16-Jun-2011			
Inspection Cycle (Default) (months)	21						
Comment							