

Bridge Inspection									
Bridge File Number	82405 W1-17 Bridge				Form Type	PSR			
Year Built/Year Supstr	2011/2011				Lot No.	2			
Bridge or Town Name	CROWCHILD INTERCHANGE				Inspector Name	Dave Lam			
Located Over	RAMP 2692-2 F				Inspector Class	BR CLS A			
Located On	1A:07 L1 2.695				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	23-Nov-2011			
Legal Land Location	SW SEC 16 TWP 25 RGE 2 W5M				Data Entry By	Garry Roberts			
Longitude, Latitude	-114:13:32, 51:07:50				Data Entry Date	09-Jan-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	DEERFOOT/STONEYP				Review Date	07-Dec-2011			
Clear Roadway/Skew	24.6 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year					Dept. Review Date	12-Jan-2012			
Road Classification					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:	CL800				----> Primary Span				

Posting Information									
Required Vert. Clearance Posting (m)									
Posted Vertical Clearance (Y/N)					No				
Posted:	Lane	NB	On Bridge (m)	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	In Advance (Y/N)
Remarks	6.1 m measured clearance at lowest point (NE corner) of roadway. Clearance sign posted on south face of E/B structure only - 1 way.								
Required Load Posting (t)			Single		Semi		Truck Train		
Posted Loading (t)			Single		Semi		Truck Train		
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required								
Hazard Marker At Bridge (Y/N)		No							
Remarks		Not required							
Other Sign Types									

Utilities (Located at)									
Utility Attachments									
Telephone					Gas				
Power					Municipal				
Others	Light standards				Problem (Y/N)	No			
Remarks									

Approach Road									
				Last	Now	Explanation of Condition			
Horizontal Alignment					8	Width varies			
Vertical Alignment					8				
Roadway Width (m)		24.600							
Approach Bump					7				
Guardrail (Y/N)		Yes				Thriebeam at NE and NW only. Continuous concrete barrier at SE and SW. 15.2 m at NW.			
Guardrail					9				
Length (m)		80.300							
Current Standard (Y/N)		Yes							
Termination Type		Terminal							
Drainage					7				
Approach Road General Rating					8				

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Primary Span : NU, 1 Spans, Lengths(m): 35, A-Ident Number:)						
Special Features						
Special Feature					X	LRT bridge between E/B and W/B structures.
(Type :)						
Special Feature					X	
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last						
Now	0.0	0.0	0.0	0.0		
Wearing Surface					8	
(Material Type : ACP)						
(Thickness(mm) : 90)						
Lateral Connection Problem (Y/N)	No					
Deck Top					N	
Deck Rideability					8	
Deck Joints					9	Type 1 - semi integral abuts.
Temperature (deg. C)						
(Expansion Type :)						
(Fixed Type :)						
Gap Size (mm)	Gap Location					
Deck Drainage					7	No deck drains except at NE and SE corners under acp. PVC drains should be extended to slope protection swale.
Drains Clogged (Y/N)	No					
Curbs/Median					7	
(Curb Type : SINGLE SLOPE CONCRETE BARRIER)						
Scaling (Percent Area)	0					
Bridge Rail					X	
(Type :)						
Bridge Rail Posts					X	
(Type :)						
Bridge Rail/Posts Coating					X	
(Type :)						
Sidewalk					X	
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Girders					9	
Cracking (Y/N)	No					
Spalling (Percent Area)	0					
(Number Of Girders : 10)						
Diaphragms/Cross Frame					9	

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : NU, 1 Spans, Lengths(m): 35, A-Ident Number:)				
Bearings			5	Bearings used primarily for girder installation as the girders are cast into the backwall to act as integral. Slightly deformed due to skew-no problem. Some girder sole plates are supported by the A/B sleeves.
Temperature (deg. C)	-2			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			6	Some minor honeycomb to be repaired under warranty.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps			6	Some small holes to be repaired under contract warranty.
(Type : CONCRETE)				
Backwalls/Breastwalls			8	
Wingwalls			9	
Piles			N	
Paint/Coating			8	Pigmented sealer at exterior, clear sealer at interior.
Abutment Stability			8	
Scour/Erosion			8	
Piers/Bents				
(Type :)				
Bearing Seats/Caps			X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles			X	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			X	
(Colour Description :)				
(Colour Code :)				
Pier Stability			X	
Scour			X	
Debris (Y/N)	No			
Substructure General Rating			6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment			4	"Ramp 30 kph" sign posted in advance.

Structure Usage				
		Last	Now	Explanation of Condition
Traffic Safety Features			N	Cannot confirm if light working at this time-daylight.
Type	Lighting			
Slope Protection			9	Slope protection at SW and NE is sloping towards NW and may pose erosion issue in the future.
(Type : CONCRETE; CONCRETE)				
Bank Stability			9	
Drainage			6	No swale at west shoulder-designer confirmed as-built is adequate. Minor ponding in east swale.
Grade Separation General Rating			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							
RESET/ PAINT BEARINGS							
WASHING	2012						
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Complete defecieniesnoted on attached sheet from recent CC inspection.					
OTHER ACTION	2012	Extend pvc deck drains at NE and Se to concrete slope protection troughs.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	/61.1	Sufficiency Rating (Last/Now) (%)	/61.0	Est. Repl. Yr	2086	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	All proposed repairs/defecienies should be completed prior to warranty expiration date under Contract 7835/09.		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	23-Aug-2013		Previous Inspection Date				
Inspection Cycle (Default) (months)	21						
Comment							