

Bridge Inspection							
Bridge File Number	70116 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1970/1970			Lot No.	2		
Bridge or Town Name	DARWELL			Inspector Name	Kris Bosters		
Located Over	STURGEON RIVER, 6.65, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	633:02 C1 19.165			Assistant Name	Brian Cote		
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	20-Jul-2012		
Legal Land Location	NW SEC 13 TWP 54 RGE 5 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-114:36:46, 53:40:02			Data Entry Date	13-Aug-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA12			Review Date	31-Jul-2012		
Clear Roadway/Skew	10 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	440 / 2011 (A)			Dept. Review Date	16-Aug-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> 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								
Hazard Marker At Bridge (Y/N)	Yes							
Remarks	Incorrectly installed to 1st guardrail post off bridge.							
Other Sign Types	File tag installed on both caps.							

Utilities (Located at)			
Utility Attachments			
Telephone	South r/w.		Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Horizontal curve 100m East. Field entrance at NE & SE. Looking North, pasings both directions.
Vertical Alignment		7	7	
Roadway Width (m)	10.000			Slight bump @ both abutments.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			Insufficient length.
Guardrail		5	5	
Length (m)	11.400			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		N	6	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last					
Now					
Wearing Surface			5	4	Wide medium cracks at asphalt in every girderjoint in travel lanes. New areas of ACP where girders replaced.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	Yes				
Deck Top			4	5	
Deck Rideability			7	7	
Deck Joints			N	N	ACP covered.
Bump (Y/N)		No			
Deck Drainage			4	5	Deck drains adequate but is causing gully on A2 headslope.
Drains Clogged (Y/N)		No			
Curbs/Median			4	5	Deteriorating curb fascial at piers.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			7	7	Double layer. 5 anchor nuts and washers missing North rail & 4 South rail - photo (South side).
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	3	
(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				2	Some girders have been replaced.
Now					
Girders			3	5	Drift pin popout (G2,3,4,5,7,10,11,12)in 8 girder ends east abut, 2 girder ends (G3G4) west abut. Middle span not accessible viewed from S1 & S3. Limited girder brg on cap (100mm) in span 2 over both pier in WBL. (P2 WBL) spalled grdr end @ S3G1. Hairline flexural cracks in legs precast cantilevered over West abutment 100mm. Spalled girder ends above piers on curb facias. Retro fit repairs to connector pockets on S3.-photo
Last Complete Inspection Date		20-Jul-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)					
(Number Of Girders : 36)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	5	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1200)						
(Total Number of Caps/Corbels : 6:7)						
Includes 2 short pieces on the East and 1 short piece West. All caps have been doubled.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				6	6	
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls				7	7	
B/W clamps in place.						
Greatest Height (m)		1.70				
Wingwalls				7	7	
(Total Number of Bearing Piles : 9:9)						
Rated only visible piles. Some of the piles are covered with dirt.						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Piles				7	7	
Paint/Coating				X	X	
Abutment Stability				7	7	
Scour/Erosion				4	4	
Erosion gullies East abutments (A2) - photo						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 7:6)						
7 caps with a short piece West (P1). P2 six with 1 short piece. slightly. Too high to measure. Girder bearing about 100mm long for span 2 at both piers.						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				4	6	
(Type : TREATED TIMBER)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 10:10)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				6	6	
Greatest Height (m)		4.00				
Bracing/Struts/Sheathing				5	5	
Nose Plate				X	X	
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						
Pier Stability				6	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	7	
Debris (Y/N)	No			
Substructure General Rating		4	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		7	7	
Bank Stability		N	7	
HWM (m below Top of Curb)				HWM not visible. Old piles
Drift (Y/N)	Yes			
Slope Protection		4	4	Erosion on A2 headslope.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(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	2012	Install missing bridgerail posts A/B nuts.					
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	2012	Remove old piles in stream.					
OTHER ACTION	2012	Re-install hazard markers to standard.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/61.1	Sufficiency Rating (Last/Now) (%)	61.0/69.6	Est. Repl. Yr	2022	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitro A2 headslope		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	Jacob Oresile		Previous Assistant's Name				
Next Inspection Date	20-Oct-2015		Previous Inspection Date	02-Feb-2009			
Inspection Cycle (Default) (months)	39						
Comment							