

Bridge Inspection									
Bridge File Number	75070 -1 Bridge				Form Type	CON			
Year Built/Year Supstr	1960/1960				Lot No.	2			
Bridge or Town Name	DUCHESS				Inspector Name	Tom Carey			
Located Over	MATZHIWIN CREEK, 3.15, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	36:08 C1 23.437				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	16-Feb-2012			
Legal Land Location	NE SEC 6 TWP 22 RGE 14 W4M				Data Entry By	Anne Roberts			
Longitude, Latitude	-111:55:53, 50:50:31				Data Entry Date	24-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	26-Feb-2012			
Clear Roadway/Skew	11 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	1,420 / 2011 (A)				Dept. Review Date	29-Mar-2012			
Road Classification	RAU-211.8-110				Follow-Up By				
Detour Length (km)	3								
Allowable Load (t):	Single	CS1 44 GIRDER	Semi	CS2 70 GIRDER	Train	CS3 93 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	NB	At Junction (Y/N)	No	In Advance (Y/N)	No	At Bridge (Y/N)	No	
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)	Yes								
Remarks									
Other Sign Types	Curve-creek id								
Utilities (Located at)									
Utility Attachments									
Telephone	East side r/w				Gas				
Power	High voltage W. side 50 m from				Municipal				
Others	c.l.				Problem (Y/N)	No			
Remarks	Fibre optics @ E RW								
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			5	5	No passing on both hills due to sag curve and horizontal curves on both hills.				
Vertical Alignment			5	5					
Roadway Width (m)	10.300				Patched				
Approach Bump			3	5					
Guardrail (Y/N)	Yes				Not bolted to bridge at NE and SE				
Guardrail			4	4	Not Thriebeam				
Length (m)	50.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			4	4	Hole in ACP at approach curb at NE - 200x100mm				
Approach Road General Rating			5	5					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CT, 3 Spans, Lengths(m): 12.8-18.3-12.8, 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			5	5	Worn off 3 m2 area at SE and NW Chipseal on epoxy on concrete
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Leakage @ E & W ends of south abut - South abut joint leaks, activity at SW
Temperature (deg. C)		0			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
50	North				
50	South				
Deck Drainage			7	4	Leakage at SW joint is corroding ext. bearing
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	both curbs have parging on top & face. Both curbs have some parging scaling & exposed rebar East Fascia at North span is severely scaling
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	No washers on nuts
(Type : STEEL BRIDGE TUBE)					
Bridge Rail Posts			5	5	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girders			5	5	Some narrow vert. flexural cracks and isolated corrosion stains. Corrosion SW & SE exterior girders at drains which are extended
Diaphragms/Cross Frame			6	6	0.5 mm wide vertical cracks- most some 1mm wide
Bearings			6	6	(@ full expansion @ N @ 24 deg C) Sliping plates @ Abuts Rockers @ N pier - fixed @ S pier Corrosion abuts ext brgs - Worst at South Abutment
Temperature (deg. C)		0			
(Expansion Type : SLIDING PLATE;ROCKER BEARING)					
(Fixed Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			
Deck Underside			5	5	Isolated cracks with efflorescence.
Stains (Percent Area)		5			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CT, 3 Spans, Lengths(m): 12.8-18.3-12.8, A-Ident Number:)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats		7	7	
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		7	7	
Scour/Erosion		8	8	
Piers/Bents				
(Type : PIER-COLUMN)				Corrosion stain @ N pier @ N side @ W end
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	
Scour		9	9	
Debris (Y/N)	No			
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Steep cut banks u/s & d/s
(D/S Direction : E)				
Alignment		7	7	Stable in vicinity of bridge
Bank Stability		7	7	
HWM (m below Top of Curb)	5.0			(April 29/08)
Drift (Y/N)	No			
Slope Protection		9	9	Bagged concret + concrete rubble
(Type :)				

Structure Usage				
		Last	Now	Explanation of Condition
Guidebank/Spurs		X	X	
Adequacy of Opening		9	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	2013	- 0.5m3 NH					
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	South abut. joint					
RESET/ PAINT BEARINGS	2013	Exteriors at abutments					
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION							
OTHER ACTION	2013	Patch hole at NE ACP to curb area					
OTHER ACTION	2013	Bolt in guardrail to parapets					
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	73.2/73.2	Est. Repl. Yr	2028	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	Tom Carey		Previous Assistant's Name				
Next Inspection Date	16-Nov-2013		Previous Inspection Date	22-Jun-2010			
Inspection Cycle (Default) (months)	21						
Comment							