

Bridge Inspection							
Bridge File Number	07095 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1971/1971			Lot No.	2		
Bridge or Town Name	ORION			Inspector Name	Jon Davies		
Located Over	MANYBERRIES CREEK, 11.1, WATERCRS-ST			Inspector Class	BR CLS B		
Located On	887:02 C1 12.246			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	24-Jun-2012		
Legal Land Location	NW SEC 31 TWP 4 RGE 6 W4M			Data Entry By	Lauren Korte		
Longitude, Latitude	-110:48:47, 49:20:32			Data Entry Date	25-Jul-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Garry Roberts		
Contract Main. Area	CMA24			Review Date	09-Jul-2012		
Clear Roadway/Skew	8.3 /			Dept. Reviewer Name	Tim Davies		
AADT/Year	90 / 2011 (A)			Dept. Review Date	30-Jul-2012		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	10						
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	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 req.						
Hazard Marker At Bridge (Y/N)	Yes						
Remarks							
Other Sign Types	"Slippery when wet" caution North and South.						

Utilities (Located at)			
Utility Attachments			
Telephone	West side- attached to curb.		Gas
Power			Municipal
Others			Problem (Y/N) Yes
Remarks	Conduit laying in flexbeam.		

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	Residential access North side.
Vertical Alignment		9	9	
Roadway Width (m)	8.300			
Approach Bump		4	5	
Guardrail (Y/N)	Yes			
Guardrail		4	8	
Length (m)	15.200			Not thriebeam.
Current Standard (Y/N)	No			
Termination Type	TURN DOWN			
Drainage		7	5	
Approach Road General Rating		8	8	

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	0	0	0	0	
Now	0.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	5	
Deck Rideability			7	6	
Deck Joints			7	5	Minor buffer angles.
Bump (Y/N)		Yes			
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Minor chips and spalls.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			4	8	Double layer.
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			7	7	
(Type :)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	10	0	0	0	
Girders			5	4	Sp.3- G1 curb- wide crack in AZ- 1 leg only and G10. Sp.1-G2 wide crack in Az-1 leg, sound concrete. Center span not accessible. Connector pockets not grouted. Rated 4. Sp.2-G3. 3 in total. Lift pockets starting to spall.
Last Complete Inspection Date		14-Jun-2009			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 30)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			5	4	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1600)						
(Total Number of Caps/Corbels : :)						
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				6	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 300)						
Backwalls/Breastwalls				6	6	
Greatest Height (m)		1.00				
Wingwalls				7	6	
(Total Number of Bearing Piles : 7:7)				A2 not visible.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	7	0	0	0		
Piles				6	5	
Paint/Coating				X	X	
Abutment Stability				7	6	
Scour/Erosion				7	5	
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	6	0	0	0		
Bearing Seats/Caps/Corbels				6	N	
(Type : TREATED TIMBER)						
(Depth(mm) : 300)						
(Width(mm) : 300)						
(Total Number of Bearing Piles : 8:8)				P.R 6. Not accessible due to high water.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now	16	0	0	0		
Pier Shaft/Piles				6	N	
Greatest Height (m)		3.30				
Bracing/Struts/Sheathing				6	N	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	N	P.R 7.
Scour		6	N	P.R 6.
Debris (Y/N)	No			
Substructure General Rating		6	5	

Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				Estimate U/S West.
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				No visible HWM.
Drift (Y/N)	No			
Slope Protection		6	5	Some rock at headslope A2. Natural at A1 with minor erosion.
(Type : NATURAL; 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	5	

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	2012	Grout lift and concrete pockets 0.1m3.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	61.1/50.0	Sufficiency Rating (Last/Now) (%)	71.8/65.9	Est. Repl. Yr	2025	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-Sep-2015		Previous Inspection Date	14-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							