

Bridge Inspection									
Bridge File Number	80454 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1989/1989				Lot No.	4			
Bridge or Town Name	MAGRATH				Inspector Name	Jon Davies			
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B			
Located On	506:02 C1 0.851				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	04-Jun-2012			
Legal Land Location	SE SEC 13 TWP 5 RGE 22 W4M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-112:50:27, 49:22:39				Data Entry Date	23-Jun-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA25				Review Date	15-Jun-2012			
Clear Roadway/Skew	8.8 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	80 / 2011 (A)				Dept. Review Date	29-Jun-2012			
Road Classification	RCU-209-110				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:	MS230						----> 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	Not required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types									

Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-PHONE LINE								
Telephone	South ditch				Gas				
Power	1 line to north				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	8	Not thriebeam T.D. end at NE				
Vertical Alignment			7	7					
Roadway Width (m)		10.000							
Approach Bump			6	6					
Guardrail (Y/N)		Yes							
Guardrail			7	7					
Length (m)		11.400							
Current Standard (Y/N)		No							
Termination Type		ROUND/TURNED DOWN							
Drainage			7	7					
Approach Road General Rating			7	7					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 4 Spans, Lengths(m): 8-10-10-8, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Partially gravel covered at Span 1 and 4.
Last	0	0	0	0	
Now	20.0	0.0	0.0	0.0	
Wearing Surface			X	X	
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			7	6	Some pitting abrasion from the gravel.
Deck Rideability			7	7	
Deck Joints			7	6	Galv. buffer angles
Bump (Y/N)		No			
Deck Drainage			7	7	No Drains.
Drains Clogged (Y/N)		No			
Curbs/Median			7	6	Some paint peeling, some map cracking. Hairline vertical cracks at post anchors.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Triple layer - missing splice bolts at each rail splice - 80 total.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(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	16	0	0	0	
Girders			6	5	Horizontal and vertical surface cracks in ext. girder paint- spans 2 and 3.
Last Complete Inspection Date					Spans 2 and 3 not accessible. Hairline longitudinal cracks with no staining from strand Span 1-G1,6&7. Span 4-G1&8.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 32)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	5	

Substructure						
Bridge Component			Last	Now	Explanation of Condition	
Abutments						
(Extended Backwall Piles (Y/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				7	7	
(Type : CONCRETE)						
(Depth(mm) : 240)						
(Width(mm) : 680)						
Backwalls/Breastwalls				N	N	Not visible behind precast
Greatest Height (m)		1.50				
Wingwalls				7	7	
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	Not visible	
Last	1					
Now	1	0	0	0		
Piles				N	N	
Paint/Coating				6	6	
Abutment Stability				6	6	
Scour/Erosion				5	5	minor settlement under abut. caps - 200 mm- worst at A2.
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)	P.R. 8- not accesible due to high water level	
Last	0	0	0	0		
Now	3	0	0	0		
Bearing Seats/Caps/Corbels				8	N	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 6:6:6)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)	P.R. 8- not visible due to water level. Not confirmed due to flow velocity in channel.	
Last	0	0	0	0		
Now	18	0	0	0		
Pier Shaft/Piles				8	N	
Greatest Height (m)		4.80				
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Paint/Coating		7	N	Galv. P.R. 7
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	N	P.R. 8
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	3.3			No HWM visible
Drift (Y/N)	No			
Slope Protection		7	5	Scour at Z2 headslope.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	(Freeboard 1.5 m)
(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							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	72.2/61.1	Sufficiency Rating (Last/Now) (%)	70.7/64.0	Est. Repl. Yr	2046	Maint. Req. (Y/N)	No
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	04-Sep-2015		Previous Inspection Date	20-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							