

Bridge Inspection									
Bridge File Number	78929 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1985/1985				Lot No.	2			
Bridge or Town Name	MAGRATH				Inspector Name	Jon Davies			
Located Over	SMR - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B			
Located On	844:02 C1 0.333				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	11-Jun-2012			
Legal Land Location	NW SEC 18 TWP 5 RGE 20 W4M				Data Entry By	Kelsey Roberts			
Longitude, Latitude	-112:41:45, 49:23:10				Data Entry Date	24-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 / 15 deg. (RHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	370 / 2011 (A)				Dept. Review Date	29-Jun-2012			
Road Classification	RCU-210-110				Follow-Up By				
Detour Length (km)	6								
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member		
Design Loading:	MS23						----> 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	Split post at SW								
Other Sign Types	NARROW BRIDGE								
Utilities (Located at)									
Utility Attachments	TELEPHONE UTILITIES-Telus conduit Mar 2007.								
Telephone	ALONG W. DITCH				Gas				
Power	3 WIRE EAST R/W				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			7	7	CURVES 400M S-'T' intersection 300m S RISES TO NORTH				
Vertical Alignment			6	6					
Roadway Width (m)	9.600								
Approach Bump			7	7					
Guardrail (Y/N)	Yes				MINOR DAMAGE @ SW				
Guardrail			6	6	No thriebeam				
Length (m)	8.000								
Current Standard (Y/N)	No								
Termination Type	ROUNDED OUT								
Drainage			7	7					
Approach Road General Rating			6	6					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SM, 4 Spans, Lengths(m): 10-11-11-10, 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			5	4	transverse cracks at deck joints, does not fully extend to curbs Possible wheel trap.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			8	7	
Deck Joints			N	N	ACP covered
Bump (Y/N)		No			
Deck Drainage			5	5	No deck drains
Drains Clogged (Y/N)		No			
Curbs/Median			4	3	Spalled at Sp. 3 - SE and Sp. 2 NW. 0.25 wide x 0.30m long x 0.25m high 6 of 16 lift pockets at curb not grouted. Rated 3.
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail			8	8	Double layer flexbeam- proper lap
(Type : STEEL FLEX BEAM)					
Bridge Rail Posts			8	8	
(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	0	0	0	0	
Girders			6	6	Hairline longitudinal cracks on curb units- G1&8, spans 1&4. Rust staining from connector pockets. Spans 2 and 3 not accessible. Minor spall at NW curb girder fascia
Last Complete Inspection Date					
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 32)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			6	6	

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)	Not confirmed due to headslope.	
Last	0	0	0	0		
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				7	7	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls			N	N	Not visible behind precast	
Greatest Height (m)		1.00				
Wingwalls			7	7	Small SPALL ON TOP OF NW WINGWALL	
(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				5	5	
Abutment Stability				8	8	
Scour/Erosion				7	6	
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)	RUST STAINING ON CENTRE & SW SIDE	
Last	0	0	0	0		
Now	3	0	0	0		
Bearing Seats/Caps/Corbels				7	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. 7- not accessible due to high water level. Not confirmed due to flow rate in channel.	
Last						
Now	18	0	0	0		
Pier Shaft/Piles				7	N	
Greatest Height (m)		4.50				
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating				4	N	Rusting. P.R. 4. Only able to see 25% of 12 piles.
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	N	P.R. 7
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		7	6	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		8	8	
Bank Stability		7	7	
HWM (m below Top of Curb)	3.8			(SUM 92-FLOWING WITHIN .15M OF CAP) No HWM visible
Drift (Y/N)	No			
Slope Protection		7	6	
(Type : RIP RAP; 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	6	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
SEAL CURBS	2012	Grout 16 lift pockets. Patch 4 curb spalls-0.3m2.					
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) (%)	72.2/66.7	Sufficiency Rating (Last/Now) (%)	70.6/67.2	Est. Repl. Yr	2041	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	11-Sep-2015		Previous Inspection Date	19-Jun-2009			
Inspection Cycle (Default) (months)	39						
Comment							