

Bridge Inspection									
Bridge File Number	73823 E-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1977/1977				Lot No.	2			
Bridge or Town Name	BASSANO				Inspector Name	Jon Davies			
Located Over	EID - IRRIGATION C, WATERCRS-IC				Inspector Class	BR CLS B			
Located On	1:16 R1 39.849				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	05-Feb-2012			
Legal Land Location	NE SEC 8 TWP 20 RGE 16 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-112:11:02, 50:41:10				Data Entry Date	08-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	12-Feb-2012			
Clear Roadway/Skew	13.7 / -30 deg. (LHF)				Dept. Reviewer Name	Tim Davies			
AADT/Year	6,860 / 2010 (A)				Dept. Review Date	11-Mar-2012			
Road Classification	RFD-412.4-130				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:	HS25						----> 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)		In Advance (Y/N)		At Bridge (Y/N)		
Remarks	Not required								
Hazard Marker At Bridge (Y/N)	Yes								
Remarks									
Other Sign Types	CANAL I.D.(Springhill Canal)								
Utilities (Located at)									
Utility Attachments									
Telephone	South ditch and north r/w				Gas				
Power	S r/w - 1 wire - 30m FROM C/L				Municipal				
Others	Fibre optic in North ROW.				Problem (Y/N)	No			
Remarks									
Approach Road									
			<b>Last</b>	<b>Now</b>	<b>Explanation of Condition</b>				
Horizontal Alignment			8	8	Limited site distance West				
Vertical Alignment			6	6					
Roadway Width (m)	13.000				Minor rutting at West and East in both lanes.				
Approach Bump			6	6					
Guardrail (Y/N)	Yes				Missing 4 splice bolts at NW				
Guardrail			4	4	Not thriebeam				
Length (m)	34.000								
Current Standard (Y/N)	No								
Termination Type	TURNED DOWN								
Drainage			7	4	NW abutment head slope erosion gully from road drainage.				
<b>Approach Road General Rating</b>			<b>6</b>	<b>6</b>					

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : VS, 4 Spans, Lengths(m): 7.6-10.7-10.7-7.6, A-Ident Number: )						
<b>Special Features</b>						
Special Feature		8	8	3 per span.		
(Type : <b>UNDERSLUNG DIAPHR</b> )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0.0	0.0	0.0	0.0		
Wearing Surface		7	6	Chipcoat on epoxy w/s on conc Some cracks @ koch joints		
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)	No					
Deck Top		N	N			
Deck Rideability		7	6			
Deck Joints		5	N	("Koch" joints). Paved.		
Bump (Y/N)	No					
Deck Drainage		6	6	No Drains. Some staining & peeling @ pier caps. 2+3 at center.		
Drains Clogged (Y/N)	No					
Curbs/Median		4	4	Some vertical cracks esp. @ post anchor bolts. LIGHT SCALING @ CURB FACE Spall @ base of post @ NE corner of s-4		
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)	5					
Bridge Rail		6	6	ESTIMATE 20% FAILURE OF GROUT PADS Most patches have failed mostly @ edges  Isolated corrosion		
(Type : <b>BRIDGE TUBE</b> )						
Bridge Rail Posts		4	4			
(Type : <b>GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating		4	4			
(Type : )						
Sidewalk		X	X			
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Girders		6	6	Hairline diagonal crack @ bottom of 4/8 curb units-MINOR CHIPS Coating peeling on exterior face of girders  Open lift pocket at NE and NW curbs		
Last Complete Inspection Date	05-Feb-2012					
Cracking (Y/N)	Yes					
Spalling (Percent Area)	0					
Lift or Connector Pocket Grouted (Y/N)	No					
(Number Of Girders : <b>48</b> )						
<b>Span Alignment Problems</b>						
Vertical (Y/N)		No				
Horizontal (Y/N)		No				
<b>Superstructure General Rating</b>		<b>6</b>	<b>6</b>			

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
<b>Abutments</b>						
(Extended Backwall Piles (Y/N) : <b>N</b> )						
(Extended Backwall Piles Spacing(mm) : )						
(Total Number of Caps/Corbels : <b>1:1</b> )				Horizontal cracking @ SW		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				6	6	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>500</b> )						
(Width(mm) : <b>400</b> )						
Backwalls/Breastwalls			X	X		
Greatest Height (m)		1.10				
Wingwalls			7	7		
(Total Number of Bearing Piles : <b>0:0</b> )				Buried		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	20	0	0	0		
<b>Now</b>	20	0	0	0		
Piles				N	N	
Paint/Coating			X	X		
Abutment Stability			7	7		
Scour/Erosion			5	4		Minor 50mm undermining @ NW Abut. Erosion gully extend down head slope up to 300mm deep.
<b>Piers/Bents</b>						
(Type : <b>PIER-COLUMN</b> )						
(Total Number of Caps/Corbels : <b>1:1:1</b> )						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Bearing Seats/Caps/Corbels				6	4	
(Type : <b>CONCRETE</b> )						
(Depth(mm) : <b>600</b> )						
(Width(mm) : <b>500</b> )						
(Total Number of Bearing Piles : <b>9:9:9</b> )						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>	0	0	0	0		
<b>Now</b>	0	0	0	0		
Pier Shaft/Piles				7	7	
Greatest Height (m)		5.40				
Bracing/Struts/Sheathing			7	7		
Nose Plate			X	X		
Paint/Coating			5	5		Corrosion @ bases
(Colour Description : <b>GREEN</b> )						
(Colour Code : <b>14090</b> )						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	4	At West abutment. Pile bases not visible.
Debris (Y/N)	Yes			2 old piles in channel.
<b>Substructure General Rating</b>		<b>6</b>	<b>4</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>S</b> )				
(D/S Direction : <b>N</b> )				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)	3.7			No visible HWM
Drift (Y/N)	No			
Slope Protection		6	5	Rock and natural. Displaced at West head slope.
(Type : <b>RIP RAP; RIP RAP</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>6</b>	<b>5</b>	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2012	Repair spall, grout pads and lift pockets 0.3m3					
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							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>66.7/55.6</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>65.6/60.1</b>	Est. Repl. Yr	2032	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	05-Nov-2013		Previous Inspection Date	16-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							