

Bridge Inspection									
Bridge File Number	71344 E-1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1984/1984				Lot No.	2			
Bridge or Town Name	IRVINE				Inspector Name	Tom Carey			
Located Over	ROSS CREEK, 2.7, WATERCRS-ST				Inspector Class	BR CLS A			
Located On	1:22 R1 23.113				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	08-Feb-2012			
Legal Land Location	NE SEC 34 TWP 11 RGE 3 W4M				Data Entry By	Lauren Korte			
Longitude, Latitude	-110:20:05, 49:57:20				Data Entry Date	22-Mar-2012			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Garry Roberts			
Contract Main. Area	CMA23				Review Date	26-Feb-2012			
Clear Roadway/Skew	13.3 /				Dept. Reviewer Name	Tim Davies			
AADT/Year	5,160 / 2011 (A)				Dept. Review Date	29-Mar-2012			
Road Classification	RAD-412.4-120				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:	MS300						----> 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									

Utilities (Located at)									
Utility Attachments									
Telephone	Fibre optics South ROW.				Gas				
Power	3 West @ North R/W 56m FROM C.L.				Municipal				
Others					Problem (Y/N)	No			
Remarks									

Approach Road									
		Last	Now	Explanation of Condition					
Horizontal Alignment		7	7	Wrong lap at SE. NW is missing 6 splice bolts. No guardrail @ NE. Split post and rail detached A NW.					
Vertical Alignment		8	8						
Roadway Width (m)	12.900								
Approach Bump		7	7						
Guardrail (Y/N)		Yes							
Guardrail		4	3						
Length (m)		32.000							
Current Standard (Y/N)		No							
Termination Type		TURNED DOWN							
Drainage		7	7						
Approach Road General Rating		7	7						

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : SMC, 3 Spans, Lengths(m): 11-11-11, 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		6	4	TRANSVERSE CRACK OVER EAST PIER. 4 CRACKS ALONG LENGTH OF DECK. POPOUTS OF DECK AGG 20% LIGHT SCALING. CRACKS REPAIRED WITH EPOXY RESIN. Some cracks are still open.		
(Material Type : CONCRETE)						
(Thickness(mm) : 50)						
Lateral Connection Problem (Y/N)	Yes					
Deck Top		N	N	(Leaking btwn 6-girders @ East pier).		
Deck Rideability		7	7			
Deck Joints		X	X			
Bump (Y/N)		No				
Deck Drainage		5	4	(Active leakage @ South & North)- No active leakage seen @ 2012 but heavy corrosion staining. End of East pier & corrosion stains. Staining between some girders @ East pier. (Ponding along South curb from 4th post West to 3rd post E-951017).		
Drains Clogged (Y/N)		No				
Curbs/Median		6	6	Some abrasions from plows & flexural cracks; leaching at outer cracks; Narrow vert cracking @ anchor bolt locations with staining.		
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail		7	7	Insufficient. Thread projection on numerous anchor bolts @ centre span North side.		
(Type : BRIDGE TUBE)						
Bridge Rail Posts		4	4			
(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		5	5	9 OF 36 GIRDERS HAVE TYPICAL NARROW DIAGONAL CRACKS IN BOTTOMS. Ext girder fascia peeling. CORR. STAINS @ FIELD CAST CONCRETE. Drain holes drilled into South exterior girder @ East span.		
Last Complete Inspection Date		08-Feb-2012				
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
Lift or Connector Pocket Grouted (Y/N)		Yes				
(Number Of Girders : 12)						
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					
(Extended Backwall Piles (Y/N) : N)				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) : 847)					
(Width(mm) : 600)					
Backwalls/Breastwalls			X	X	
Greatest Height (m)		1.00			
Wingwalls			7	7	
(Total Number of Bearing Piles : 0:0)				Buried.	
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	10	0	0	0	
Now	10	0	0	0	
Piles			N	N	
Paint/Coating			5	5	
Abutment Stability			8	8	
Scour/Erosion			4	8	
New class 1 Rip Rap @ abutments.					
Piers/Bents					
(Type : PIER-COLUMN)					
(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) : 846)					
(Width(mm) : 600)					
(Total Number of Bearing Piles : 6:6)					
Piles Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	0	
Now	0	0	0	0	
Pier Shaft/Piles			7	7	
Greatest Height (m)		4.70			
Bracing/Struts/Sheathing			7	7	
Nose Plate			X	X	
Paint/Coating			4	4	
Surface corrosion @ bottoms.					
(Colour Description :)					
(Colour Code :)					

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
Scour		N	N	Ice.
Debris (Y/N)	No			
Substructure General Rating		7	7	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		8	8	
Bank Stability		4	5	Steep cut banks @ D/S- Repaired A bridge.
HWM (m below Top of Curb)	1.7			(From 2010 flood).
Drift (Y/N)	No			
Slope Protection		4	8	New class, Rip Rap.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	5	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	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	2012	Investigate & repair leakage @ piers- chip coat or G.F.E Deck.					
OTHER ACTION	2012	Replace post and install 6 bolts @ NW guardrail.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	66.7/66.7	Sufficiency Rating (Last/Now) (%)	62.7/64.1	Est. Repl. Yr	2028	Maint. Req'd. (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	08-Nov-2013		Previous Inspection Date	13-Jul-2010			
Inspection Cycle (Default) (months)	21						
Comment							