

Bridge Inspection										
Bridge File Number	71746 -1 Bridge				Form Type	PCS				
Year Built/Year Supstr	1991/1991				Lot No.	1				
Bridge or Town Name	EAST COULEE				Inspector Name	Owen Salava				
Located Over	WILLOW CREEK, 3.30, WATERCRS-ST				Inspector Class	BR CLS A				
Located On	10:08 C1 14.928				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	01-Nov-2011				
Legal Land Location	SW SEC 7 TWP 28 RGE 18 W4M				Data Entry By	Marcia Chavez				
Longitude, Latitude	-112:32:01, 51:22:43				Data Entry Date	28-Nov-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien				
Contract Main. Area	CMA21				Review Date	14-Nov-2011				
Clear Roadway/Skew	12 / -15 deg. (LHF)				Dept. Reviewer Name	Chris Black				
AADT/Year	590 / 2010 (A)				Dept. Review Date	25-Jan-2012				
Road Classification	RAU-211.8-110				Follow-Up By					
Detour Length (km)	12									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member			
Design Loading:	CS750						---> 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)	No									
Remarks	Not required.									
Other Sign Types	Route, School Bus, Information.									
Utilities (Located at)										
Utility Attachments	FIBRE OPTIC-Telus - Agreement on file									
Telephone	North, East and West.				Gas					
Power	3 wire 40m North. Crosses 100m West.				Municipal					
Others	AT & U bench mark @ SW wingwall.				Problem (Y/N)		No			
Remarks	Phone conduit along N curb.									
Approach Road										
			Last	Now	Explanation of Condition					
Horizontal Alignment			6	6	Bridge in middle of long curve.					
Vertical Alignment			8	8						
Roadway Width (m)	12.300				Wide ACP cracks at approach slabs.					
Approach Bump			6	6						
Guardrail (Y/N)	Yes									
Guardrail			7	7						
Length (m)	60.800									
Current Standard (Y/N)	No				Not thrie beam.					
Termination Type	Turn Down									
Drainage			7	7						
Approach Road General Rating			6	6						

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : SCC, 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					
Now	0.0	0.0	0.0	0.0	
Wearing Surface			6	6	2 longitudinal cracks, 1 each lane. Random transverse cracks, all sealed. Wide crack at end of approach slab, sealed. No grout keys for SC girders.
(Material Type : ACP)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	Paved over.
Bump (Y/N)		No			
Deck Drainage			4	4	All water drains to South curb as bridge deck is superelevated. Curb U/S damage may be from drain tube.
Drains Clogged (Y/N)		No			
Curbs/Median			6	6	Curb exterior cracking under posts with rust staining (typ), no spalling.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Square tube posts.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
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				1	
Now	0	0	0	1	
Girders			3	3	0.2 to 0.4mm wide x 1470 long corrosion stained crack @ SW girder 2m from West from drain tube - photo. Patch over scaled area at SW curb fascia. No growth in marked crack.
Last Complete Inspection Date		01-Nov-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		0			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 33)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	3	1 point bump for curb girder.

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/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						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
Backwalls/Breastwalls			N	N		
Greatest Height (m)		1.00				
Wingwalls			6	6		
				Not visible behind girders.		
				Medium scaling at top of SE wing.		
(Total Number of Bearing Piles : 0:0)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100					
Now	100	0	0	0		
Piles				N	N	
Paint/Coating				5	5	
Abutment Stability				8	8	
Scour/Erosion				8	8	
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						
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				8	8	
(Type : CONCRETE)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles : 5:5)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now	0	0	0	0		
Pier Shaft/Piles				8	8	
Greatest Height (m)		4.20				
Bracing/Struts/Sheathing			X	X		
Nose Plate			X	X		
Paint/Coating				5	5	
(Colour Description :)						
(Colour Code :)						
Pier Stability				8	8	
				East cap South end stained but does not appear to be from curb exterior runoff.		
				Galvanized pipe piles.		
				Coating peeling @ ends of pier cap.		

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		8	8	
Debris (Y/N)	No			
Substructure General Rating		8	8	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				Curve U/S.
(D/S Direction : S)				
Alignment		6	6	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		8	8	Class II.
(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		6	6	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2012	Seal curb as well as SW exterior patch & top of wingwalls.								
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	Open crack in SP1/G1 and investigate cause, epoxy seal around drain tube.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.2/61.3	Est. Repl. Yr	2045	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Measure crack in SW girder underside until repaired.		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	Owen Salava	Previous Assistant's Name								
Next Inspection Date	01-Aug-2013	Previous Inspection Date	11-Mar-2010							
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2012	Seal curb as well as SW exterior patch & top of wingwalls.	Programmed	2012		
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	Open crack in SP1/G1 and investigate cause, epoxy seal around drain tube.	Programmed	2012		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	62.2/61.3	Est. Repl. Yr	2045	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Measure crack in SW girder underside until repaired.	Department Comments	Programmed for deck rehab in 2021. DA
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Maintenance Reviewed By	Darron Ahlstedt	Date	29-Oct-2012	Estimated Total	0
Proposed Long-Term Strategy					
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	01-Aug-2013	Previous Inspection Date	11-Mar-2010		
Inspection Cycle (Default) (months)	21				

Comment	
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