

Bridge Inspection							
Bridge File Number	01092 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1967/1967			Lot No.	1		
Bridge or Town Name	TEES			Inspector Name	Owen Salava		
Located Over	TRIBUTARY TO PARLBY CREEK, 3.65.2.1.1.4, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	821:02 C1 2.696			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	14-Aug-2012		
Legal Land Location	NW SEC 31 TWP 40 RGE 23 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:18:56, 52:29:14			Data Entry Date	17-Sep-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA20			Review Date	04-Sep-2012		
Clear Roadway/Skew	9.1 / 30 deg. (RHF)			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	520 / 2011 (A)			Dept. Review Date	18-Oct-2012		
Road Classification	RAU-210-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 30 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 75 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> 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)	No
Remarks	
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	Plowed in West ditch.	Gas	
Power	3 wires OH 15 m East of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Farm entrance 30m N to the W. Passing both directions.
Vertical Alignment		9	8	
Roadway Width (m)	9.000			Insufficient length.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	12.000			
Current Standard (Y/N)	No			
Termination Type	Turn Down			
Drainage		4	4	Minor gully @ SE headslope from water behind backwall.
<b>Approach Road General Rating</b>		<b>9</b>	<b>8</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : <b>HC, 3 Spans, Lengths(m): 8.5-8.5-8.5, A-Ident Number: )</b>					
<b>Special Features</b>					
Special Feature			X		
(Type : )					
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	7	
(Material Type : <b>ACP</b> )					
(Thickness(mm) : <b>100</b> )					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			N	N	
Bump (Y/N)		No		Paved over.	
Deck Drainage			7	7	
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	
(Curb Type : <b>Standard</b> )					
Scaling (Percent Area)		10		Severe scaling at 6 of 12 curb ends. Exposed rebar SW with spalls at anchor assemblies - photo. Heavy curb scaling.	
Bridge Rail			6	6	
(Type : <b>GALVANIZED STEEL FLEX BEAM</b> )					
Bridge Rail Posts			4	4	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )					
Bridge Rail/Posts Coating			7	7	
(Type : <b>GALVANIZED</b> )					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	2	
<b>Now</b>	0	0	0	1	
Girders			3	3	
Last Complete Inspection Date		14-Aug-2012			
Cracking (Y/N)		Yes		21/33 of girders have narrow shear cracks and drift spalls. S1G10 has narrow shear cracks & longit. cracking in same leg. S2G3-5,9 has narrow shear cracks. S2G6 150x150mm punchout. S2G1,11 & S3 G9 wide longit. crack in AZ, 2 legs. S3G1 spalling in AZ, 2 legs. S3G3 small popout; map cracking. S2G11 spall at bearing area at P2. S3G1 spall in AZ, 1 leg.	
Spalling (Percent Area)		2			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : <b>33</b> )					
<b>Span Alignment Problems</b>					
Vertical (Y/N)		No		Twisted 300mm due to skew pressures.	
Horizontal (Y/N)		Yes			
<b>Superstructure General Rating</b>			<b>3</b>	<b>3</b>	

Substructure							
Bridge Component		Last	Now	Explanation of Condition			
<b>Abutments</b>							
(Extended Backwall Piles (Y/N) : Y)							
(Extended Backwall Piles Spacing(mm) : 1500)							
(Total Number of Caps/Corbels : 3:3)				Cored 2012, no rot.			
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				7	8		
(Type : TREATED TIMBER)							
(Depth(mm) : 350)							
(Width(mm) : 300)							
Backwalls/Breastwalls			5	5			
Greatest Height (m)		1.80					
Wingwalls			7	7			
(Total Number of Bearing Piles : 7:7)				Cored 2012, no rot.			
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			
Piles				6	6		
Paint/Coating				X	X		
Abutment Stability				7	7		
Scour/Erosion				5	5		
Minor gully @ SE headslope, not pulling material from backwall yet.							
<b>Piers/Bents</b>							
(Type : PIER-COLUMN)							
(Total Number of Caps/Corbels : 3:3)							
Bearing Seats/Caps/Corbels Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	1	0	0	0			
<b>Now</b>	0	0	0	0			
Bearing Seats/Caps/Corbels				7	7		
(Type : TREATED TIMBER)							
(Depth(mm) : 300)							
(Width(mm) : 350)							
(Total Number of Bearing Piles : 9:9)							
Piles Detail Ratings							
	N (count)	1 (count)	2 (count)	3 (count)			
<b>Last</b>	0	0	0	1			
<b>Now</b>	0	0	0	0			
Pier Shaft/Piles				3	5		
Greatest Height (m)		3.50					
Bracing/Struts/Sheathing				7	7		
Nose Plate				X	X		
Paint/Coating				X	X		
(Colour Description : )							
(Colour Code : )							
[(Insufficient bearing on P1p5) - repaired - photo. Transv. split P1p8; cored extra, no rot found. Cored 2012. 19Jun2012 timber coring inspection].							

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		5	5	
Scour		6	6	
Debris (Y/N)	Yes			Debris pile-up at u/s end of bridge (photo).
<b>Substructure General Rating</b>		<b>3</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Channel</b>				
(U/S Direction : <b>W</b> )				
(D/S Direction : <b>E</b> )				
Alignment		9	9	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not known. Large drift pile u/s.
Drift (Y/N)	Yes			
Slope Protection		7	7	
(Type : <b>NATURAL; NATURAL</b> )				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : <b>NONE</b> )				
(Fish Compensation Measure 2 : <b>NONE</b> )				
<b>Channel General Rating</b>		<b>7</b>	<b>7</b>	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2012	Patch spalled curbs, 0.5m OH-V & repair post anchorages.								
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	(Repair popout - 19Jun2012 timber coring inspection).								
OTHER ACTION	2012	(Band P1p8 - 19Jun2012 timber coring inspection).								
OTHER ACTION	2012	(Remove debris pile - 19Jun2012 timber coring inspection).								
OTHER ACTION	2012	(Replace S1G10 & S2G5 - 19Jun2012 timber coring inspection).								
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.4/64.1</b>	<b>Est. Repl. Yr</b>	<b>2019</b>	<b>Maint. Req. (Y/N)</b>	<b>Yes</b>	<b>Estimated Total</b>	<b>0</b>	
Special Comments for Next Inspection	(Precast connectors are shot & deterioration within AZ is progressing - 19Jun2012 timber coring inspection). No action for girders at this time.		Department Comments							
Maintenance Reviewed By			Date							
Proposed Long-Term Strategy	With Minor maintenance, bridge should be adequate until 2019. CB									
On 3-Year Program (Y/N)	Y									
Proposed Action	Inspect and determine strategy by April 1, 2009. RS									
Previous Inspector's Name	Kris Bosters	Previous Assistant's Name	Brian Cote							
Next Inspection Date	14-Nov-2015	Previous Inspection Date	19-Jun-2012							
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2012	Patch spalled curbs, 0.5m OH-V & repair post anchorages.	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	(Repair popout - 19Jun2012 timber coring inspection).	Programmed	2012		
OTHER ACTION	2012	(Band P1p8 - 19Jun2012 timber coring inspection).	Programmed	2012		
OTHER ACTION	2012	(Remove debris pile - 19Jun2012 timber coring inspection).	Programmed	2012		
OTHER ACTION	2012	(Replace S1G10 & S2G5 - 19Jun2012 timber coring inspection).	Programmed	2012		
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>33.3/44.4</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>60.4/64.1</b>	Est. Repl. Yr	2019	Maint. Req. (Y/N) Yes
Special Comments for Next Inspection	(Precast connectors are shot & deterioration within AZ is progressing - 19Jun2012 timber coring inspection). No action for griders at this time.		Department Comments	Currently programmed for replacement in 2022.		
Maintenance Reviewed By	Andrew Smikles	Date	19-Nov-2012	Estimated Total	0	
Proposed Long-Term Strategy	With Minor maintenance, bridge should be adequate until 2019. CB					
On 3-Year Program (Y/N)	Y					
Proposed Action	Inspect and determine strategy by April 1, 2009. RS					

Previous Inspector's Name	Kris Bosters	Previous Assistant's Name	Brian Cote
Next Inspection Date	14-Nov-2015	Previous Inspection Date	19-Jun-2012
Inspection Cycle (Default) (months)	39		
Comment			