

Bridge Inspection									
Bridge File Number	72816 -1 Bridge				Form Type	PCS			
Year Built/Year Supstr	1959/1959				Lot No.	1			
Bridge or Town Name	SPEDDEN				Inspector Name	Todd Warshawski			
Located Over	CACHE CREEK, 6.29.1.1.1, WATERCRS-ST				Inspector Class	BR CLS B			
Located On	28:10 C1 17.304				Assistant Name				
Water Body Cl./Year					Assistant Class				
Navigabil. Cl./Year					Inspection Date	03-Apr-2013			
Legal Land Location	SE SEC 31 TWP 59 RGE 12 W4M				Data Entry By	Theresa Lacusta			
Longitude, Latitude	-111:46:55, 54:08:34				Data Entry Date	17-Apr-2013			
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA07				Review Date	11-Apr-2013			
Clear Roadway/Skew	13.7 /				Dept. Reviewer Name	Brent Herrick			
AADT/Year	3,050 / 2012 (A)				Dept. Review Date	23-Apr-2013			
Road Classification	RAU-213.4-120				Follow-Up By				
Detour Length (km)	32								
Allowable Load (t):	Single	CS1 29 GIRDER	Semi	CS2 52 GIRDER	Train	CS3 74 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	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									
Utilities (Located at)									
Utility Attachments									
Telephone	North r/w.				Gas				
Power	20 m North of RR r/w.				Municipal				
Others					Problem (Y/N)	No			
Remarks									
Approach Road									
			Last	Now	Explanation of Condition				
Horizontal Alignment			6	6	Superelevated. No passing WB. Bridge located in long horz. curve.				
Vertical Alignment			6	6					
Roadway Width (m)	13.000				Not connected to bridgerail all 4 corners. Requires 3 extra posts at all corners. Incorrect SW laps, missing splice bolts. SE & SW turn down end corroded & almost ripped off - photo Strike damage to 2 sections on SE.				
Approach Bump			6	5					
Guardrail (Y/N)	Yes								
Guardrail			4	3					
Length (m)	30.500								
Current Standard (Y/N)	No								
Termination Type	Turned Down								
Drainage			5	5					
Approach Road General Rating			6	3					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PGO, 3 Spans, Lengths(m): 8.5-8.5-8.5, 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				5.0	
Wearing Surface			4	3	Chip seal applied on 100mm concrete overlay. Areas of spray patch in WBL SP2. Spalls/potholes in both lanes and along pier and E/C joints.-photos
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 100)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			5	3	
Deck Joints			N	3	
Bump (Y/N)		Yes			
Deck Drainage			4	4	Erosion on headslopes due to deck drains.-photo.
Drains Clogged (Y/N)		No			
Curbs/Median			3	3	Spalled North curb S1 & S2 around 2 bridgerail posts- photo. Curb face spall on S1 Norht curb.
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			4	4	Double layer flexbeam - incorrect splice. 40% of anchor bolts insufficient thread. 3 broken off anchor bolts North side - photo. Rusty anchor bolts . North curb cracked around 2 rail posts.-photo
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			3	3	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			5	5	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	0	0	0	10	
Now			3	15	
Spalling and/or cracking in 2 legs in AZ, with sound concrete in: SP3G1,3,4,8,11,12 SP2G1,8,9,11,12,13 SP1G6,9,10,12,13,18					
Girders			3	2	2/3 of girders have longitudinal cracking in legs. Both legs S2G1, concrete above rebar in South leg is suspect.-photo Corroded/broken stirrups on S2G1, S3G1, S3G2.
Last Complete Inspection Date		03-Apr-2013			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		5			
Lift or Connector Pocket Grouted (Y/N)		No			
(Number Of Girders : 48)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating			3	2	

Substructure						
Bridge Component		Last	Now	Explanation of Condition		
Abutments						
(Extended Backwall Piles (Y/N) : Y)				Erosion gullies on headslopes (6m x 0.5 x 0.5) - photo		
(Extended Backwall Piles Spacing(mm) : 1400)						
(Total Number of Caps/Corbels : 3:3)				Abutment caps appear to have been cored in 1999.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				4	4	
(Type : TREATED TIMBER)						
(Depth(mm) : 350)						
(Width(mm) : 305)						
Backwalls/Breastwalls				4	4	
Greatest Height (m)		1.60		Gaps between backwall planks. 300mmx300mm opening @ E. backwall losing fill.-photo		
Wingwalls				4	4	
(Total Number of Bearing Piles : 11:11)				Minor checks up to 5mm on several piles.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Piles				5	5	
Paint/Coating				X	X	
Abutment Stability				6	4	
Scour/Erosion				4	4	
Erosion gullies on headslopes from deck drains and drainage through girders.						
Piers/Bents						
(Type : PIER-COLUMN)						
(Total Number of Caps/Corbels : 2:2)				Double wide 310 HP with subcaps.		
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	0		
Now						
Bearing Seats/Caps/Corbels				5	5	
(Type : STEEL)						
(Depth(mm) : 310)						
(Width(mm) : 620)						
(Total Number of Bearing Piles : 13:11)				West pier has 2 extra bearing piles near North curb to reinforce two split piles.		
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				5	5	
Greatest Height (m)		3.80				
Bracing/Struts/Sheathing				5	5	
				Steel bracing, timber strut. Struts are slightly bowed. Minor split on Northern most strut.		
Nose Plate				X	X	
Paint/Coating				4	4	
Scaling rust on caps and capitals with section loss.						
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		7	7	
Scour		N	N	
Debris (Y/N)	No			
Substructure General Rating		4	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : N)				
(D/S Direction : S)				
Alignment		8	8	
Bank Stability		8	8	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		4	4	Erosion gully @ headslopes - photo.
(Type : NONE; NONE)				
Guidebank/Spurs		X	X	
Adequacy of Opening		6	6	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		4	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	Replace missing anchor bolts. Correct splice					
SEAL CURBS	2013	Repair spalls and holes.					
PATCH DECK	2013	Patch spalls/potholes.					
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	2013	Replace guardrail post & turndown end					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	38.9/33.3	Sufficiency Rating (Last/Now) (%)	51.9/36.9	Est. Repl. Yr	2013	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Monitor girder cracks and spalling. Reduce inspection cycle to 6 months until replaced. Schedule for replacement by 2014. LRA issued on 08-Apr-2013 to AT-Jeff Zhang.		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	Wade Nanninga		Previous Assistant's Name				
Next Inspection Date	03-Jan-2015		Previous Inspection Date	10-Apr-2012			
Inspection Cycle (Default) (months)	21						
Comment							