

Bridge Inspection										
Bridge File Number	75957 W-3 Bridge					Form Type	PSR			
Year Built/Year Supstr	1981/1981					Lot No.	2			
Bridge or Town Name	FALLIS					Inspector Name	Wade Nanninga			
Located Over	31:02 C1 3.787					Inspector Class	BR CLS A			
Located On	16:12 L1 17.024					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	09-Aug-2012			
Legal Land Location	NW SEC 18 TWP 53 RGE 5 W5M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-114:44:16, 53:35:05					Data Entry Date	21-Aug-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA12					Review Date	21-Aug-2012			
Clear Roadway/Skew	13.1 / -9 deg. (LHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	8,640 / 2011 (A)					Dept. Review Date	22-Aug-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:	MS230									----> Primary Span

Posting Information													
Required Vert. Clearance Posting (m)				UNDER: 31 C1 5.2m									
Posted Vertical Clearance (Y/N)				Yes									
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	
Remarks		NB vertical clearance sign mounted on 75957E.											
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				Merge, Information.									

Utilities (Located at)									
Utility Attachments									
Telephone	South r/w in median.					Gas			
Power	6 wires 40m West of bridge.					Municipal			
Others						Problem (Y/N)	No		
Remarks									

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	On top of crest, typical grade separation.
Vertical Alignment		6	6	
Roadway Width (m)		12.800		Insufficient post/spacing, not thrie beam.
Approach Bump		6	6	
Guardrail (Y/N)		Yes		
Guardrail		7	7	
Length (m)		65.000		
Current Standard (Y/N)		No		
Termination Type		Turn Down		
Drainage		6	6	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 3 Spans, Lengths(m): 10-20-10, 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					
Wearing Surface			4	5	Section of chip coat worn off along deck joints .
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			3	3	Leaking at both abutments between G5 & G6 - photo.
Temperature (deg. C)		27			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type :)					
Gap Size (mm)		Gap Location			
30		West abutment			
40		East abutment			
Deck Drainage			3	3	No deck drains. Joints leaking between G5 & G6 on both abutments.
Drains Clogged (Y/N)		No			
Curbs/Median			5	4	Small chip out of North curb over East pier and South curb West pier. Typical vertical cracks/staining on exterior of bridge post bolts. Transverse cracking. Scaling/cracking around cover plate @ NW/NE.
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			8	8	One post cap missing @ SW, 2nd post - photo. Grout scaling from two base plate locations SW - photo. Rusting at base plates.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		4	4		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last				1	
Now				1	
Girders			3	3	1 small spall at SW corner of West abutment possibly from erection. Medium crack at mid web longitudinally almost full length on all of curb girders. Bottom of girder scaling & spalled S3G6 at abutment - photo.
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 10)					

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : DBT, 3 Spans, Lengths(m): 10-20-10, A-Ident Number:)					
Diaphragms/Cross Frame		4	4	Hairline cracks at the end diaphragms. Diaphragm between G5-6 on both abutments are spalled on backside .	
Bearings		5	5	Fixed at East abutment. Deck leakage between G5 & G6 on both abutments is corroding bearing plates - photo.	
Temperature (deg. C)	27				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
(Fixed Type : REINFORCED PAD BEARING)					
Coating Adequate (Y/N)	No				
Functioning (Y/N)	Yes				
Deck Underside		6	6	Crack @ East abutment mid. Rust stains.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		3	3		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		4	4	Wide horizontal crack @ East abutment mid with rust stains - photo.	
(Type : CONCRETE)					
Backwalls/Breastwalls		5	5	Light scaling on East backwall between G5 & G6.	
Wingwalls		5	5	Map cracking/staining.	
Piles		N	N		
Paint/Coating		5	5		
Abutment Stability		8	8		
Scour/Erosion		X	4	Slope protection pulled away 70mm and cracked.	
Piers/Bents					
(Type : PIER-COLUMN)				Narrow horizontal cracks North side both caps.	
Bearing Seats/Caps		6	6		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 7:7)					
Pier Shaft/Piles		7	7		
Bracing/Struts/Sheathing		X	X		
Nose Plate		X	X		
Paint/Coating		5	5	Paint has chunky appearance. Lots of graffiti. Red.	
(Colour Description :)					
(Colour Code :)					
Pier Stability		8	8		
Scour		X	X		
Debris (Y/N)		No			
Substructure General Rating		4	4		

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	6	Limited site distance to South.
Traffic Safety Features		X	X	
Type	None			
Slope Protection		4	4	Both concrete slope protection pulled away 70mm at top.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		6	6	
Grade Separation General Rating		4	4	

