

Bridge Inspection							
Bridge File Number	07553 -1 Bridge			Form Type	PSR		
Year Built/Year Supstr	1960/1960			Lot No.	2		
Bridge or Town Name	EDSON			Inspector Name	Wade Nanninga		
Located Over	EDSON RIVER, 8.11.107.25, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	748:02 C1 10.799			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	16-Apr-2013		
Legal Land Location	NW SEC 10 TWP 54 RGE 17 W5M			Data Entry By	Theresa Lacusta		
Longitude, Latitude	-116:25:56, 53:39:13			Data Entry Date	24-Apr-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Eric Carcoux		
Contract Main. Area	CMA13			Review Date	21-Apr-2013		
Clear Roadway/Skew	11 /			Dept. Reviewer Name	Brent Herrick		
AADT/Year	980 / 2012 (A)			Dept. Review Date	01-May-2013		
Road Classification	RCU-209-110			Follow-Up By			
Detour Length (km)	13						
Allowable Load (t):	Single	CS1 5	Semi	CS2 5	Train	CS3 5	----> On Critical Spans ---->Critical Member
Design Loading:	HS20						----> Primary Span

Posting Information							
Required Load Posting (t)	Single	5	Semi	5	Truck Train	5	
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	Design & posted loading on BIM form appears wrong.						

Hazard Marker At Bridge (Y/N)	Yes
Remarks	Installed on 1st guardrail post. Not required.
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.	Gas	
Power	1 wire East r/w. 2 wires crossing road 20m North.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Curves with no passing both ways, Township Rd. @ SW. S curve with limited sight distance.
Vertical Alignment		6	6	
Roadway Width (m)	9.500			Potholes @ both abut.-photo
Approach Bump		4	3	
Guardrail (Y/N)	Yes			Rail has a few minor dents; especially @ SE.
Guardrail		6	5	Not thrie beam or fleat
Length (m)	26.000			
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		4	5	Windrows along South guardrail channel water to approach slab where it is causing 3 long x 0.5 wide x 0.2m deep erosion gullies. Looks stable.
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, 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			5	5	Chipseal over epoxy on concrete. 5% chipseal worn to epoxy. Worn section (150mm W x 500mm L) in S2 -NB lane.
(Material Type : CONCRETE - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)	No				
Deck Top			N	N	
Deck Rideability			4	4	Chipseal is 15mm above joints creating bumps.
Deck Joints			6	4	Cracking/spalling paving lips. Leakage on S abut sent.-photo
Temperature (deg. C)		5			
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
(Fixed Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))					
Gap Size (mm)		Gap Location			
50		S. abut (A1)			
50		S. pier (P1)			
60		N. pier (P2)			
55		N. abut (A2)			
Deck Drainage			5	4	Impeded by dirt.
Drains Clogged (Y/N)		No			
Curbs/Median			5	5	Wide cracks & spalling along East & west section of curb on outside face.
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			6	6	Insufficient threads @ 3 AB on E. side & 5 AB on W. side. Grout pads cracked & loose at edges on 10% of posts.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			4	4	
(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	0	0	0	0	
Now					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : PO, 3 Spans, Lengths(m): 18.3-18.3-18.3, A-Ident Number:)				
Girders		4	4	The SE & NW have rust stains & spalled sections. Narrow diagonal cracks extending into top flange in narrow web section at ends of DBT girders. Bridge widened on both sides with 1 row of DBT girders in 1982.
Cracking (Y/N)	Yes			
Spalling (Percent Area)	1			
(Number Of Girders : 18)				
Diaphragms/Cross Frame		4	4	S2 - missing botm angle @ 2nd intermediate diaph.along E. side. Loose bolt in SP3G5. S3 - missing 3 bolts @ 1st int. diaph.; missing 2 bolts @ 2nd int. diaph. from P2 - E. side. S3 - missing 4 bolts @ 1st & 2nd int. diaph from P2 - W. side.
Bearings		5	5	Center bearings especially on piers rusty. 6 out of 8 nuts removed on AB @ A2.
Temperature (deg. C)	0			
(Expansion Type : REINFORCED PAD BEARING)				
(Fixed Type : REINFORCED PAD BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		7	7	A few transverse and longitudinal cracks with efflorescence.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	4	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		6	6	
(Type : CONCRETE)				
Backwalls/Breastwalls		6	6	
Wingwalls		6	6	
Piles		N	N	
Paint/Coating		5	5	Backwall & abutment seats painted with coal tar epoxy. Flaking off wingwalls.
Abutment Stability		7	7	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		6	6	3 spalled sections; 250mm x 500mm area on S. side @ W. end of P1; 1.3M x 800 mm area @ W. end of P1 & 550mm x 500mm area on N. side @ W. end of P1.
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		4	4	
Bracing/Struts/Sheathing		X	X	
Nose Plate		7	7	
Paint/Coating		6	6	Grey.
(Colour Description :)				
(Colour Code :)				
Pier Stability		7	7	

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Scour		7	N	
Debris (Y/N)	Yes			
Substructure General Rating		6	4	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		5	5	NE embankment sloughing/erosion area - 4.3M x 1.5M x 1.1M located approx. 100M D/S from bridge.
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		7	7	Class II around piers/P1 & P2.
(Type : RIP RAP; RIP RAP)				
Guidebank/Spurs		X	X	
Adequacy of Opening		8	8	
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	7	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Repair/patch spalled areas in exterior DBT girders @ SE & NW.					
SEAL DECK	2013	Repair/patch worn section in chip seal coat surface on S2 in NB lane.					
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Flood and abut. joint and repair leakage.					
RESET/ PAINT BEARINGS							
WASHING	2013	Annually gutters & deck joints.					
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Patch potholes.					
OTHER ACTION	2013	Remove windrows under approach rail to improve drainage from bridge.					
OTHER ACTION	2013	Replace missing 9 bolt connections @ 1st & 2nd intermediate diaph. on S3 from P2.					
OTHER ACTION	2013	Repair/patch spalled sections in P1 & P2.					
OTHER ACTION	2013	Replace missing btm angle @ 2nd intermediate diaph. on S2 from P1 - E.side.					
OTHER ACTION							
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OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/44.4	Sufficiency Rating (Last/Now) (%)	45.4/44.4	Est. Repl. Yr	2033	Maint. Req. (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	Wayne Cappellani	Previous Assistant's Name	Bryan Wai
Next Inspection Date	16-Jul-2016	Previous Inspection Date	02-Oct-2012
Inspection Cycle (Default) (months)	39		
Comment			