

Bridge Inspection							
Bridge File Number	75723 -1 Bridge			Form Type	SG		
Year Built/Year Supstr	1966/1966			Lot No.	2		
Bridge or Town Name	WETASKIWIN			Inspector Name	Owen Salava		
Located Over	2:28 L1 26.787;2:28 R1 26.786			Inspector Class	BR CLS A		
Located On	MUNICIPAL			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	21-Feb-2013		
Legal Land Location	SW SEC 36 TWP 45 RGE 26 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:38:40, 52:54:58			Data Entry Date	12-Mar-2013		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA17			Review Date	27-Feb-2013		
Clear Roadway/Skew	8.5 /			Dept. Reviewer Name	Chris Black		
AADT/Year	100 / 2001 (E)			Dept. Review Date	14-Mar-2013		
Road Classification	RLU-209G-90			Follow-Up By			
Detour Length (km)	10						
Allowable Load (t):	Single	CS1 52 GIRDER	Semi	CS2 58 GIRDER	Train	CS3 65 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 2 L1 5.3m, 2 R1 5.3m											
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes
Remarks												
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			Gas
Power			Municipal
Others			Problem (Y/N) No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		9	9	Vertical crest curve.
Vertical Alignment		7	7	Long. & trans. cracks on approaches. Tree growing at NW corner.
Roadway Width (m)	9.000			Wide trans. crack at approach slab.
Approach Bump		5	5	
Guardrail (Y/N)	Yes			SW has 1 split TT post and 2 creased flexbeam but is still functional.
Guardrail		5	5	
Length (m)	99.000			
Current Standard (Y/N)	No			Not attached to parapet & insufficient posts; not thrie beam.
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		7	7	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RB, 4 Spans, Lengths(m): 12.2-23.2-23.2-12.2, A-Ident Number: A0466-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)	Snow along curbs.	
Last	0	0	0	0		
Now	10.0	0.0	0.0	0.0		
Wearing Surface			X	X		
(Material Type :)						
(Thickness(mm) :)						
Deck Top			6	6	20mm deep holes from breaker points, throughout 5mx8m area. Transverse cracks total width of roadway @ piers.	
Deck Rideability			5	5	Deck uneven over center pier as much as 40mm difference.	
Deck Joints			4	4	Both jnts leak at both gutters. Jnts drain in concrete trough at abut seat to slope protection.	
Temperature (deg. C)		-4				
(Expansion Type : SLIDING PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
67		E. abut				
70		W. abut				
Deck Drainage			4	4	No drains. Leaking through abut joints onto seat & girder end. Icing at all corners affects slope protection.	
Drains Clogged (Y/N)						
Curbs/Median			7	7	Vertical cracks 0.1 to 0.3 mm wide @ 1 m spacing.	
(Curb Type : Standard;None)						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Corrosion with some pitting @ 5% of area.	
(Type : VERTICAL BAR)						
Bridge Rail Posts			7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating			4	4		
(Type : PAINT)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate			7	7	NBL & SBL girders-bottom flange out of alignment about 25 mm horiz. sweep - from past high load damage. SBL - S2 exterior girders have T-section repairs. S2 girders have slight sag. Bottom of S2 & S3 girders have nicks/scrapes due to high load damage - rusting.	
Flange			5	5		
Web			7	7		
Stiffeners			7	7		
Splice			7	7		
Weld			7	7		
Diaphragms/Cross Frame			7	7		

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : RB, 4 Spans, Lengths(m): 12.2-23.2-23.2-12.2, A-Ident Number: A0466-01)					
Paint Condition		5	5		
(Colour Description : BLUE)					
(Colour Code : 502-105)					
Touchup Required (Y/N)	No				
Bearings		7	7	Superficial rusting on SE exterior bearing. P1,P3 A1,P2,A3	
Temperature (deg. C)	-4				
(Expansion Type : SLIDING PLATE)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)	Yes				
Functioning (Y/N)	Yes				
Deck Underside		5	5	Map cracking throughout 0.1 mm wide cracks & transverse cracks with efflorescence 0.1 to 0.3mm wide every 2 to 3m.	
Stains (Percent Area)	1				
Span Alignment Problems					
Vertical (Y/N)	No				
Horizontal (Y/N)	No				
Superstructure General Rating		5	5		
Substructure					
Bridge Component		Last	Now	Explanation of Condition	
Abutments					
Bearing Seats/Caps		7	7	Ice on seat, backwall & breastwall face at NE corner; similar at SE, SW & NW.	
(Type : CONCRETE)					
Backwalls/Breastwalls		6	6		
Wingwalls		7	7		
Piles		N	N		
Paint/Coating		4	4	Some deterioration at wingwalls, backwalls.	
Abutment Stability		7	7		
Scour/Erosion		X	X		
Piers/Bents					
(Type : PIER-COLUMN)				Map & horizontal cracks up to 0.3 mm wide.(minor)	
Bearing Seats/Caps		7	7		
(Type : CONCRETE)					
(Total Number of Bearing Piles : 0:0:0)					
Pier Shaft/Piles		6	6		
Bracing/Struts/Sheathing		7	7		
Nose Plate		X	X		
Paint/Coating		4	4	Heavy scaling @ base of P3 col.	
(Colour Description :)					
(Colour Code :)					
Pier Stability		7	7		
Scour		X	X		
Debris (Y/N)	No				
Substructure General Rating		6	6		

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		9	9	
Traffic Safety Features		6	4	Broken post at SE; 3 damaged rail sections.
Type	GUARDRAIL			
Slope Protection (Type : CONCRETE; CONCRETE)		4	4	West - out 95 down 130mm. East - out 80 down 100mm. Slope protection buckling at pier columns especially West side - photo.
Bank Stability		7	4	Slope buckling against pier columns.
Drainage		5	5	Minor ponding at West shoulder of SBL, also E shoulder of NBL.
Grade Separation General Rating		4	4	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL	2015	Replace with galvanized next rehab, or paint the rail or galvanize rail.								
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK	2013	Smooth out deck at P2 area.								
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2013	Install sealed joints or install plumbing.								
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2013	Upgrade guardrail to meet standard. Replace split post at SW & repair median rail.								
OTHER ACTION	2013	Seal gap between breastwall and top of concrete slope protection - both abutments and patch headslope.								
OTHER ACTION	2013	Seal ACP cracks at approaches.								
OTHER ACTION	2013	Remove tree at NW corner.								
OTHER ACTION	2013	Remove scale, seal affected pier column.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now)	61.1/61.1	Sufficiency Rating (Last/Now)	59.2/59.2	Est. Repl. Yr	2026	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Monitor slope protection buckling with photos. No action for pier sealant.		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	21-Nov-2014	Previous Inspection Date
Inspection Cycle (Default) (months)	21	12-Jul-2011
Comment		

Maintenance Recommendations						
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2015	Replace with galvanized next rehab, or paint the rail or galvanize rail.	at next rehab			
GALVANIZE/PAINT BRIDGE RAIL						
RETROFIT BRIDGE RAIL						
SEAL CURBS						
PATCH DECK	2013	Smooth out deck at P2 area.	at next rehab			
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2013	Install sealed joints or install plumbing.	at next rehab			
RESET/ PAINT BEARINGS						
REPAINT SUPERSTRUCTURE						
STRAIGHTEN/REPLACE MEMBERS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2013	Upgrade guardrail to meet standard. Replace split post at SW & repair median rail.	To operations	2013		
OTHER ACTION	2013	Seal gap between breastwall and top of concrete slope protection - both abutments and patch headslope.	to operations	2013		
OTHER ACTION	2013	Seal ACP cracks at approaches.	to operations	2013		
OTHER ACTION	2013	Remove tree at NW corner.	to operations	2013		
OTHER ACTION	2013	Remove scale, seal affected pier column.	At next rehab			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	59.2/59.2	Est. Repl. Yr	2026	Maint. Req. (Y/N) Yes

Special Comments for Next Inspection	Monitor slope protection buckling with photos. No action for pier sealant.	Department Comments	bridge scheduled for replacement in PMA 2046 (bridge will be 80 yrs old)		
Maintenance Reviewed By	John Umlah	Date	01-May-2013	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	21-Nov-2014	Previous Inspection Date	12-Jul-2011		
Inspection Cycle (Default) (months)	21				
Comment					