

Bridge Inspection											
Bridge File Number	80643 -1 Bridge				Form Type	SG					
Year Built/Year Supstr	1986/1986				Lot No.	2					
Bridge or Town Name	VEGREVILLE				Inspector Name	Jason Saly					
Located Over	16:24 R1 14.817;16:24 L1 14.828				Inspector Class	BR CLS A					
Located On	RAMP 95-1 A				Assistant Name						
Water Body Cl./Year					Assistant Class						
Navigabil. Cl./Year					Inspection Date	19-Jul-2012					
Legal Land Location	NW SEC 27 TWP 52 RGE 15 W4M				Data Entry By	Marcia Chavez					
Longitude, Latitude	-112:08:02, 53:31:19				Data Entry Date	10-Aug-2012					
Road Authority	Alberta Transportation (AIT)				Reviewer Name	John O'Brien					
Contract Main. Area	CMA14				Review Date	28-Jul-2012					
Clear Roadway/Skew	7.6 / 42 deg. (RHF)				Dept. Reviewer Name	Andrew Smikles					
AADT/Year					Dept. Review Date	13-Aug-2012					
Road Classification	RAU-213.4-120				Follow-Up By						
Detour Length (km)	3										
Allowable Load (t):	Single	CS1 28			Semi	CS2 49			Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:	MS300									---> Primary Span	

Posting Information												
Required Vert. Clearance Posting (m)	UNDER: 16 L1 5.9m, 16 R1 5.9m											
Posted Vertical Clearance (Y/N)	Yes											
Posted:	Lane	EB	On Bridge (m)	5.8	In Advance (Y/N)	Yes	Lane	WB	On Bridge (m)	5.8	In Advance (Y/N)	Yes
Remarks	New est. 6.180 - NW 6.240 SW											
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)		In Advance (Y/N)		At Bridge (Y/N)					
Remarks												
Hazard Marker At Bridge (Y/N)	Yes											
Remarks	At West end only.											
Other Sign Types												

Utilities (Located at)										
Utility Attachments										
Telephone	R/W				Gas					
Power	NE corner.				Municipal					
Others					Problem (Y/N)	No				
Remarks										

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		5	5	Long horizontal curves in both directions. Structure at top of crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	8.100			Minor creasing.
Approach Bump		7	6	
Guardrail (Y/N)	Yes			
Guardrail		6	6	
Length (m)	99.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		N	5	(Water missing NE catch basin causing a 400 x 800 x 1000mm gully up to the shoulder of the road. 04/05/04) - No evidence of gully.
Approach Road General Rating		3	5	

Superstructure								
Bridge Component		Last	Now	Explanation of Condition				
(Primary Span : WG, 2 Spans, Lengths(m): 60-52, A-Ident Number: A1056-01)								
Special Features								
Special Feature			X					
(Type :)								
Special Feature			X					
(Type :)								
Wearing Surface/Deck Top Detail Ratings								
	N (%)	1 (%)	2 (%)	3 (%)				
Last	70	0	0	0				
Now	0.0	0.0	0.0	0.0				
Wearing Surface			7	7	New ACP btwn 15Jun2011 & 19Jul2012.			
(Material Type : ACP)								
(Thickness(mm) : 90)								
Deck Top			N	N				
Deck Rideability			8	8				
Deck Joints			5	3	Jnt cover plates at both abuts pound under traffic. 2011 Bridge Deck Testing Report indicates that the jnts were flooded & leakage was observed at both jnts.			
Temperature (deg. C)		21						
(Expansion Type : ARMoured GLAND (WABO UNDER FINGER OR SLIDING PLATES))								
(Fixed Type :)								
Gap Size (mm)		Gap Location						
70		W. abut						
52		E. abut						
Deck Drainage			5	4	NE deck drain drips onto A2 seat & splashes onto girder. Corrosion stains from rebar on face of breastwalls.			
Drains Clogged (Y/N)		No						
Curbs/Median			N	5	Curbs are vertically cracked every 1 m both sides.			
(Curb Type : Standard)								
Scaling (Percent Area)		1						
Bridge Rail			4	5	Post grout pads are starting to spall chamfers on 10% of posts.			
(Type : GALVANIZED STEEL BRIDGE TUBE)								
Bridge Rail Posts			N	5				
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)								
Bridge Rail/Posts Coating			8	7				
(Type : GALVANIZED)								
Sidewalk			X	X				
Girder/Beam								
Cover Plate			X	X				
Flange			8	8				
Web			8	8				
Stiffeners			8	8				
Splice			8	8				
Weld			8	8				
Diaphragms/Cross Frame			8	8				

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : WG, 2 Spans, Lengths(m): 60-52, A-Ident Number: A1056-01)				
Paint Condition		6	6	Weathering steel throughout - uneven rusting on both fascia due to exposure to prevailing wind/rain. Water then runs along flange.
(Colour Description :)				
(Colour Code :)				
Touchup Required (Y/N)	No			
Bearings		7	7	Bent anchor bolt 2nd from South at East abutment.
Temperature (deg. C)	21			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
(Fixed Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		8	8	Transverse cks with efflorescence.
Stains (Percent Area)	0			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		7	7	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		8	5	Horiz. cracking in the W abut. Rust stains from rebar along breastwall.
(Type : CONCRETE)				
Backwalls/Breastwalls		5	5	
Wingwalls		8	7	
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		8	8	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-SOLID)				
Bearing Seats/Caps		8	8	
(Type : CONCRETE)				
(Total Number of Bearing Piles : 0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Coating is cracking (minor). Masonry Class 3 finish applied to pier. Rust staining from girders on all pier corners.
(Colour Description :)				
(Colour Code :)				
Pier Stability		9	8	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Substructure General Rating		8	5	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		7	7	
Traffic Safety Features		7	7	
Type	GUARDRAIL			
Slope Protection		7	7	Concrete slope protection at West ends has settled 80mm & out 75mm. East end is settled 85 & out 70.
(Type : CONCRETE; CONCRETE)				
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		7	7	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
GALVANIZE/PAINT BRIDGE RAIL										
RETROFIT BRIDGE RAIL										
SEAL CURBS										
PATCH DECK										
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2012	Remove cover plates; inspect gland & repair as required.								
RESET/ PAINT BEARINGS										
REPAINT SUPERSTRUCTURE										
STRAIGHTEN/REPLACE MEMBERS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Seal abuts.								
OTHER ACTION	2012	Extend & redirect drain at NE.								
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	83.3/66.7	Sufficiency Rating (Last/Now) (%)	54.5/58.9	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Department Comments		Date		Estimated Total		0			
Maintenance Reviewed By	ACP ok BIM inspection Feb 2008. Mill and replace 40mm in 2014. RC 2006.05.09 Chip coat by 2013. Bridge deck rehab may be required on or about 2033.									
Proposed Long-Term Strategy	Y									
On 3-Year Program (Y/N)	2006.09.27 Replace top layer ACP in 2008.									
Proposed Action	Owen Salava									
Previous Inspector's Name	Previous Assistant's Name		Previous Inspection Date		16-Dec-2010					
Next Inspection Date	19-Apr-2014									
Inspection Cycle (Default) (months)	21									
Comment										

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL							
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2012	Remove cover plates; inspect gland & repair as required.	At rehab	2012			
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE							
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2012	Seal abuts.	At rehab	2012			
OTHER ACTION	2012	Extend & redirect drain at NE.	At rehab	2012			
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	83.3/66.7	Sufficiency Rating (Last/Now) (%)	54.5/58.9	Est. Repl. Yr	2044	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection			Department Comments	Programmed for rehab 2012			
Maintenance Reviewed By	Andrew Smikles		Date	27-Nov-2012	Estimated Total	0	
Proposed Long-Term Strategy	ACP ok BIM inspection Feb 2008. Mill and replace 40mm in 2014. RC 2006.05.09 Chip coat by 2013. Bridge deck rehab may be required on or about 2033.						
On 3-Year Program (Y/N)	Y						
Proposed Action	2006.09.27 Replace top layer ACP in 2008.						

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	19-Apr-2014	Previous Inspection Date	16-Dec-2010
Inspection Cycle (Default) (months)	21		
Comment			