

Bridge Inspection										
Bridge File Number	75724 -1 Bridge					Form Type	CON PSR			
Year Built/Year Supstr	1965/1965					Lot No.	1			
Bridge or Town Name	HOBBEMA					Inspector Name	Owen Salava			
Located Over	2:28 L1 18.686;2:28 R1 18.685					Inspector Class	BR CLS A			
Located On	611:02 C1 48.447					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	22-Feb-2013			
Legal Land Location	SE SEC 1 TWP 45 RGE 26 W4M					Data Entry By	Marcia Chavez			
Longitude, Latitude	-113:38:37, 52:50:36					Data Entry Date	14-Mar-2013			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien			
Contract Main. Area	CMA17					Review Date	27-Feb-2013			
Clear Roadway/Skew	9.1 /					Dept. Reviewer Name	Chris Black			
AADT/Year	600 / 2011 (A)					Dept. Review Date	28-Mar-2013			
Road Classification	RCU-209-110					Follow-Up By				
Detour Length (km)	13									
Allowable Load (t):	Single	CS1 38 GIRDER			Semi	CS2 49		Train	CS3 62	----> On Critical Spans ---->Critical Member
Design Loading:	HS20									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 2 L1 5.8m, 2 R1 5.8m									
Posted Vertical Clearance (Y/N)												
Posted:	Lane	NB	On Bridge (m)	6.0	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.7	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)			In Advance (Y/N)			At Bridge (Y/N)			
Posted:	Lane	WB	At Junction (Y/N)			In Advance (Y/N)			At Bridge (Y/N)			
Remarks												

Hazard Marker At Bridge (Y/N)	No											
Remarks												
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	On crest curve.
Vertical Alignment		6	6	
Roadway Width (m)	9.000			
Approach Bump		7	7	
Guardrail (Y/N)	Yes			Radius at N.E. & S.W. corners.
Guardrail		7	7	
Length (m)	45.000			
Current Standard (Y/N)	No			Not thrie beam.
Termination Type	TURNED DOWN			
Drainage		7	7	
Approach Road General Rating		6	6	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CF, 3 Spans, Lengths(m): 25.6-17.7-25.6, 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	0.0	0.0	0.0	
Wearing Surface			8	8	Silica fume fiber.
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			9	9	
Deck Joints			8	8	Hinge. Intermittant stress cks.
Temperature (deg. C)		-7			
(Expansion Type :)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
75	P2				
80	P1				
Deck Drainage			8	8	No drains.
Drains Clogged (Y/N)					
Curbs/Median			7	7	
(Curb Type : Standard)					
Scaling (Percent Area)		2			
Bridge Rail			6	6	5% of post AB's lack enough thread.
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		4	4		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk			X	X	
Girders			6	6	
Diaphragms/Cross Frame			X	X	
Bearings			9	9	
Temperature (deg. C)		-7			
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)					
(Fixed Type : REINFORCED PAD BEARING)					
Coating Adequate (Y/N)		Yes			
Functioning (Y/N)		Yes			
Deck Underside			6	6	
Stains (Percent Area)		3			

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CF, 3 Spans, Lengths(m): 25.6-17.7-25.6, A-Ident Number:)					
Span Alignment Problems					
Vertical (Y/N)		No			
Horizontal (Y/N)		No			
Superstructure General Rating		6	6		
Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Secondary Span : FC)					
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	0.0	0.0	0.0	
Wearing Surface		8	8	silica fume.	
(Material Type : CONCRETE)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		No			
Deck Top		X	X		
Deck Rideability		9	9		
Deck Joints		8	8		
Temperature (deg. C)		-7			
(Expansion Type :)					
(Fixed Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
Gap Size (mm)		Gap Location			
80		W. abut			
80		W. pier			
75		E. pier			
86		E. abut			
Deck Drainage		7	7	No drains.	
Drains Clogged (Y/N)		No			
Curbs/Median		7	7	Transverse cracks @ an average 500 mm spacing.	
(Curb Type : Standard)					
Scaling (Percent Area)		1			
Bridge Rail		6	6	Minor bent vertical bars in N22, North rail. 3 bars.	
(Type : GALVANIZED STEEL VERTICAL BAR)					
Bridge Rail Posts		7	7		
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating		7	7		
(Type : GALVANIZED)					
Sidewalk		X	X		

Superstructure						
Bridge Component				Last	Now	Explanation of Condition
(Secondary Span : FC)						
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	0	0	0	1	S3G3-5 have typical longit. cks on side of leg. S3G1 minor HL nick.	
Now	0	0	0	3	S3G6 vertical crack at end, staining in diaphragm (photo). S3G4,S1G4	
Girders				3	3	Vertical end of girder spalls on exterior of concrete cantilever. Several girders have longitudinal cracks at the pier with rust spots. Exposed rebar on curb fascias at pier joints. S1G5,6 have cracks, stains and/or exposed rebar at CF hinge joint.
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : 12)						
Diaphragms/Cross Frame				5	5	40% of end diaphragms delaminated along bottom.
Bearings				8	8	
Temperature (deg. C)		-7				
(Expansion Type : REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL)						
(Fixed Type : REINFORCED PAD BEARING)						
Coating Adequate (Y/N)		Yes				
Functioning (Y/N)		Yes				
Deck Underside				4	4	Several delams on underside of gutters - appear ok at this time. Corrosion staining along curbs.
Stains (Percent Area)		5				
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				7	7	
(Type : CONCRETE)						
Backwalls/Breastwalls				7	7	Crack with efflorescence at A1.
Wingwalls				7	7	
Piles				N	N	
Paint/Coating				7	7	
Abutment Stability				7	7	
Scour/Erosion				X	X	
Piers/Bents						
(Type : PIER-COLUMN)						Delam on S3G1 at CF connection.
Bearing Seats/Caps				6	6	
(Type : CONCRETE)						
(Total Number of Bearing Piles : 0:0)						
Pier Shaft/Piles				7	7	
Bracing/Struts/Sheathing				X	X	
Nose Plate				X	X	
Paint/Coating				7	7	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		8	8	
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	6	
Type	GUARDRAIL			
Slope Protection (Type : CONCRETE; CONCRETE)		6	6	Random cracks in slope protection; separated from abut seats.
Bank Stability		7	7	
Drainage		7	7	
Grade Separation General Rating		6	6	

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							
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Assess girder repair options; conduct Lvl 2 inspection.					
OTHER ACTION	2013	Patch girders, deck underside and diaphragms per assessment decisions.					
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	50.0/50.0	Sufficiency Rating (Last/Now) (%)	53.8/53.8	Est. Repl. Yr	2034	Maint. Req. (Y/N)	Yes
Special Comments for Next Inspection	Pay particular attention to under deck delams & curb exterior delams so nothing falls onto traffic. Girders have 3 rating; the man requirement is to keep area dry so check for moisture on stains each inspection - no other action required. No action for bridgerail anchor bolts.		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	22-Nov-2014		Previous Inspection Date	13-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							