

Bridge Inspection							
Bridge File Number	74217 -1 Bridge			Form Type	CON		
Year Built/Year Supstr	1954/1954			Lot No.	2		
Bridge or Town Name	KINSELLA			Inspector Name	Owen Salava		
Located Over	CNR			Inspector Class	BR CLS A		
Located On	14:12 C1 18.194			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	10-Jan-2012		
Legal Land Location	SE SEC 32 TWP 46 RGE 11 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-111:33:10, 53:00:38			Data Entry Date	14-Feb-2012		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	Jason Saly		
Contract Main. Area	CMA16			Review Date	30-Jan-2012		
Clear Roadway/Skew	9.1 / 45 deg. (RHF)			Dept. Reviewer Name	Andrew Smikles		
AADT/Year	2,240 / 2010 (A)			Dept. Review Date	23-Feb-2012		
Road Classification	RAU-211.8-110			Follow-Up By			
Detour Length (km)	5						
Allowable Load (t):	Single	CS1 32 DECK	Semi	CS2 48 DECK	Train	CS3 92 DECK	---> On Critical Spans --->Critical Member
Design Loading:	HS20				---> Primary Span		

Posting Information																							
Required Vert. Clearance Posting (m)																							
Posted Vertical Clearance (Y/N)												No											
Posted:	Lane	EB	On Bridge (m)		In Advance (Y/N)	No	Lane	WB	On Bridge (m)		In Advance (Y/N)	No											
Remarks												Not required.											
Required Load Posting (t)				Single				Semi		49		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)	Yes																						
Remarks																							
Other Sign Types												Curves & Reduce Speed, EBL 85 km/hr, WBL 75 km/hr.											

Utilities (Located at)											
Utility Attachments											
Telephone	Plowed in South ditch.					Gas					
Power	3 wires OH 20 m North of c/l.					Municipal					
Others	Fibre optic South r/w.					Problem (Y/N)	No				
Remarks											

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		4	4	Sharp curves in both directions. Speed limits posted as above - limited visibility due to vertical & horizontal alignments. Slight bump and roll due to skew.
Vertical Alignment		4	4	
Roadway Width (m)	13.000			Length reported is shortest of all. Meets old std - no blocking @ 1st 3 posts - all corners.
Approach Bump		7	7	
Guardrail (Y/N)	Yes			
Guardrail		3	5	
Length (m)	50.000			
Current Standard (Y/N)	Yes			
Termination Type	TURNED DOWN			
Drainage		7	7	Minor erosion gully at NE hslp.
Approach Road General Rating		4	4	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : CS, 5 Spans, Lengths(m): 9.4-12.5-12.5-12.5-9.4, A-Ident Number:)					
Special Features					
Special Feature			X		
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	According to 2009 deck testing report.
Last	0	0	0	12	
Now	0.0	0.0	0.0	12.0	
Wearing Surface			3	3	Chipseal stops shy of curb 0.6m - typical both sides. Chipseal on epoxy wearing surface on HDOL - slightly worn in wheelpaths. (Epoxy applied in 1987. Second application made in 1991 to repair many failures). According to chain drag survey in 2009, 63m2 of debonded epoxy was noted primarily along the gutters.
(Material Type : CONCRETE - UNKNOWN POLYMER OVERLAY - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Deck Top			N	N	
Deck Rideability			7	7	
Deck Joints			4	4	Seals have fallen through jnts at several locations.
Temperature (deg. C)		-4			
(Expansion Type :)					
(Fixed Type : COMPRESSION SEAL (ACME SEALS))					
Gap Size (mm)		Gap Location			
50	East abutment				
30	West abutment				
Deck Drainage			5	5	Additional deck drains cored through deck / curb. Scaling & stains around drains.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Staining/cracking of ext below bridge rail posts & curb tops. Delam spalls with exposed rebar. Trans. & long. cracks.
(Curb Type : Standard)					
Scaling (Percent Area)		5			
Bridge Rail			7	7	Numerous grout pads have rust staining & cracked. Some posts have insufficient A/B thread.
(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	
Girders			5	5	Stained from diesel smoke of railway locomotives @ center of structure. Cast in place arched slab. Spalled NW corner.
Diaphragms/Cross Frame			X	X	
Bearings			6	6	
Temperature (deg. C)		-4			
(Expansion Type : STEEL SLIDING PLATES WITH BRONZE PLATE IN BETWEEN)					
(Fixed Type : PINNED BEARING)					
Coating Adequate (Y/N)		No			
Functioning (Y/N)		Yes			

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : CS, 5 Spans, Lengths(m): 9.4-12.5-12.5-12.5-9.4, A-Ident Number:)				
Deck Underside		6	5	Few hairline random cracks with efflorescence. Cold joint below curb overlay visible. Minor honeycombing - no problems. Minor scaling around retrofit drains drilled through deck. PVC extends only approx 50mm past deck U/S. Spall at NW corner of bridge.
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		6	6	
Backwalls/Breastwalls		6	6	Concrete spall at NE corner of backwall.
Wingwalls		5	5	
Piles		N	N	
Paint/Coating		X	X	
Abutment Stability		6	6	
Scour/Erosion		6	6	
Piers/Bents				
(Type : PIER-COLUMN)				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Pier Shaft/Piles		7	7	
Nose Plate		X	X	
Paint/Coating		X	X	
(Colour Description :)				
(Colour Code :)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			Old abandoned CPR fence should be removed.
Substructure General Rating		6	6	
Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		X	X	
Traffic Safety Features		X	X	
Type				
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Bank Stability		X	X	

Structure Usage				
		Last	Now	Explanation of Condition
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	2012	Remove epoxy delam & patch or chipseal.								
SEAL DECK										
OVERLAY DECK										
REPAIR/REPLACE DECK JOINTS	2020	Install deck jts at next major rehab.								
RESET/ PAINT BEARINGS										
WASHING										
SHOTCRETE REPAIRS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
OTHER ACTION	2012	Patch NW girder spall, 0.01m3 OH-V.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	55.2/60.9	Est. Repl. Yr	2030	Maint. Req'd. (Y/N)	Yes			
Special Comments for Next Inspection	Road alignment is poor & may affect overall long term plans.		Department Comments							
Maintenance Reviewed By		Date		Estimated Total	0					
Proposed Long-Term Strategy	2006.05.09 Rehab in 2016, Replace in 2040.									
On 3-Year Program (Y/N)										
Proposed Action										
Previous Inspector's Name	Jason Saly	Previous Assistant's Name								
Next Inspection Date	10-Oct-2013	Previous Inspection Date	23-Jun-2010							
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	2012	Remove epoxy delam & patch or chipseal.	Operations to review			
SEAL DECK						
OVERLAY DECK						
REPAIR/REPLACE DECK JOINTS	2020	Install deck jts at next major rehab.	At next rehab	2017		
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION	2012	Patch NW girder spall, 0.01m3 OH-V.	At next rehab	2017		
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	61.1/61.1	Sufficiency Rating (Last/Now) (%)	55.2/60.9	Est. Repl. Yr	2030	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Road alignment is poor & may affect overall long term plans.	Department Comments	Rehab is currently programmed for 2017
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Maintenance Reviewed By	Chris Black	Date	17-Jan-2013	Estimated Total	0
Proposed Long-Term Strategy	2006.05.09 Rehab in 2016, Replace in 2040.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Jason Saly	Previous Assistant's Name			
Next Inspection Date	10-Oct-2013	Previous Inspection Date	23-Jun-2010		
Inspection Cycle (Default) (months)	21				

Comment	
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