

Bridge Inspection										
Bridge File Number	77303 E-2 Bridge				Form Type	PSR				
Year Built/Year Supstr	1980/1980				Lot No.	2				
Bridge or Town Name	ONOWAY				Inspector Name	Kris Bosters				
Located Over	MUNICIPAL ROAD;CNR				Inspector Class	BR CLS A				
Located On	43:22 R1 9.038				Assistant Name					
Water Body Cl./Year					Assistant Class					
Navigabil. Cl./Year					Inspection Date	03-Oct-2011				
Legal Land Location	SW SEC 34 TWP 54 RGE 2 W5M				Data Entry By	Theresa Lacusta				
Longitude, Latitude	-114:13:22, 53:42:10				Data Entry Date	25-Oct-2011				
Road Authority	Alberta Transportation (AIT)				Reviewer Name	Eric Carcoux				
Contract Main. Area	CMA12				Review Date	22-Oct-2011				
Clear Roadway/Skew	13.4 / -5 deg. (LHF)				Dept. Reviewer Name	Brent Herrick				
AADT/Year	9,670 / 2010 (A)				Dept. Review Date	26-Oct-2011				
Road Classification	RAD-412.4-120				Follow-Up By					
Detour Length (km)	1									
Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	----> On Critical Spans ---->Critical Member			
Design Loading:	MS230						----> Primary Span			

Posting Information											
Required Vert. Clearance Posting (m)	UNDER: MUNICIPAL ROAD 7.0m										
Posted Vertical Clearance (Y/N)	Yes										
Posted:	Lane	EB	On Bridge (m)	7.0	In Advance (Y/N)	No	Lane	WB	On Bridge (m)	In Advance (Y/N)	No
Remarks	WB posted on NB bridge.										

Required Load Posting (t)	Single		Semi		Truck Train			
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	Not required.							

Hazard Marker At Bridge (Y/N)	No
Remarks	Not required.
Other Sign Types	Information.

Utilities (Located at)			
Utility Attachments			
Telephone	West r/w.	Gas	100m north crossing road.
Power	6 OH lines crossing road 100m South of bridge.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		7	7	
Vertical Alignment		7	7	
Roadway Width (m)	12.400			50mm dia. pot holes along N approach.
Approach Bump		5	4	ACP cracked and ravelling at S approach.-photo
Guardrail (Y/N)	Yes			Measured @ NW, shortest. Sheared bottom bolt @ NE transition
Guardrail		N	4	connection loose and bent bolts at SW connection.-photos
Length (m)	76.000			No guardrail @ SE corner. Insufficient posts.
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		4	5	
<b>Approach Road General Rating</b>		<b>7</b>	<b>7</b>	

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : RM, 4 Spans, Lengths(m): 14-18-18-14, A-Ident Number: )						
<b>Special Features</b>						
Special Feature			X			
(Type : )						
Special Feature			X			
(Type : )						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
<b>Last</b>	50					
<b>Now</b>						
Wearing Surface			5	5	Chip seal on 50mm high density concrete. Chip seal ends 500mm from curbd.	
(Material Type : <b>CONCRETE - CONVENTIONAL CHIP SEAL COAT</b> )						
(Thickness(mm) : <b>50</b> )						
Lateral Connection Problem (Y/N)		No				
Deck Top			N	N		
Deck Rideability			7	7		
Deck Joints			4	4	Sealant has been placed along North abutment joint.	
Temperature (deg. C)		4				
(Expansion Type : <b>GLAND (WABO-MAUER, TRANSFLEX, ETC)</b> )						
(Fixed Type : )						
Gap Size (mm)		Gap Location				
73		South abutment - A1 - exp				
150		North abutment - A2 - exp				
Deck Drainage			4	4	On a crest curve. No deck drains. Joints are temporarily repaired but water leaks.	
Drains Clogged (Y/N)		No				
Curbs/Median			N	5		
(Curb Type : <b>Standard</b> )						
Scaling (Percent Area)		5				
Bridge Rail			7	7	Some vertical cracks @ post on fascia. 1% of posts have insufficient threads.	
(Type : <b>GALVANIZED STEEL BRIDGE TUBE</b> )						
Bridge Rail Posts			5	5	Galvanizing on corners of top rail is peeling off.	
(Type : <b>GALVANIZED POST STEEL;GALVANIZED POST STEEL</b> )						
Bridge Rail/Posts Coating			7	5		
(Type : <b>GALVANIZED</b> )						
Sidewalk			X	X		
Girder Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
<b>Last</b>						
<b>Now</b>						
Girders			6	5	Staining U/S of S3 from train exhaust. G4S1 has hairline longitudinal crack @ c/l of girder. Rust stain between girders over train track 2nd from west, minor.	
Cracking (Y/N)		Yes				
Spalling (Percent Area)		0				
(Number Of Girders : <b>12</b> )						

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : RM, 4 Spans, Lengths(m): 14-18-18-14, A-Ident Number: )				
Diaphragms/Cross Frame		X	X	
Bearings		7	7	
Temperature (deg. C)	4			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : <b>REINFORCED PAD BEARING</b> )				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		N	N	
Stains (Percent Area)				
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>6</b>	<b>5</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		7	7	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		7	7	
Wingwalls		8	8	
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		8	8	
Scour/Erosion		8	8	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				
Bearing Seats/Caps		7	7	4 columns/pier. Massive concrete pier base.
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>0:0:0</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	Heavily graffitied all piers. Pigmented sealer. Grey.
(Colour Description : )				
(Colour Code : )				
Pier Stability		8	8	
Scour		7	7	
Debris (Y/N)	No			
<b>Substructure General Rating</b>		<b>7</b>	<b>7</b>	

Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		5	5	90 degree bend in East & West direction.
Traffic Safety Features		6	6	Minor creases.
Type	Guardrail			
Slope Protection		5	5	Bulging slope protection
(Type : <b>CONCRETE; CONCRETE</b> )				
Bank Stability		7	7	
Drainage		5	5	
<b>Grade Separation General Rating</b>		<b>5</b>	<b>5</b>	

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							
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2011	Replace A2 bladder.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2011	Patch approach road potholes and cracks.					
OTHER ACTION	2011	Replace sheared bolt @ NE guardrail transition and bent bolts at SW transition.					
OTHER ACTION							
OTHER ACTION							
<b>Structural Condition Rating (Last/Now) (%)</b>	<b>72.2/66.7</b>	<b>Sufficiency Rating (Last/Now) (%)</b>	<b>64.3/61.5</b>	Est. Repl. Yr	2044	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	Arnold Assenheimer		Previous Assistant's Name	Shane Hall			
Next Inspection Date	03-Jul-2013		Previous Inspection Date	14-Dec-2009			
Inspection Cycle (Default) (months)	21						
Comment							