

Bridge Inspection										
Bridge File Number	76625 -1 Bridge					Form Type	PSR			
Year Built/Year Supstr	1974/1974					Lot No.	2			
Bridge or Town Name	GIBBONS					Inspector Name	Kris Bosters			
Located Over	28A:03 R1 14.250;28A:03 L1 14.246					Inspector Class	BR CLS A			
Located On	28:02 R1 32.994					Assistant Name				
Water Body Cl./Year						Assistant Class				
Navigabil. Cl./Year						Inspection Date	27-Mar-2012			
Legal Land Location	NW SEC 14 TWP 56 RGE 23 W4M					Data Entry By	Theresa Lacusta			
Longitude, Latitude	-113:19:21, 53:50:38					Data Entry Date	04-Apr-2012			
Road Authority	Alberta Transportation (AIT)					Reviewer Name	Eric Carcoux			
Contract Main. Area	CMA09					Review Date	04-Apr-2012			
Clear Roadway/Skew	13.4 / -47 deg. (LHF)					Dept. Reviewer Name	Brent Herrick			
AADT/Year	5,360 / 2011 (A)					Dept. Review Date	11-Apr-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:	HS25									----> Primary Span

Posting Information												
Required Vert. Clearance Posting (m)			UNDER: 28A L1 5.3m, 28A R1 5.3m									
Posted Vertical Clearance (Y/N)			Yes									
Posted:	Lane	NB	On Bridge (m)	5.3	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.7	In Advance (Y/N)	Yes
Remarks		Sign clearance should not exceed "Required Vertical Clearance" - change sign as necessary.										
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		Hwy 28 Flyover labelled EB/WB for clarity.										

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

Utilities (Located at)												
Utility Attachments												
Telephone						Gas						
Power	East r/w., 2 wire					Municipal						
Others						Problem (Y/N)	No					
Remarks												

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		6	6	Overpass with on / off ramps. Curve to the East.
Vertical Alignment		6	6	On top of crest curve.
Roadway Width (m)	13.500			ACP is cracked and ravelled along abutment joints and approaches.- photo
Approach Bump		5	4	Both approaches have settled about 150mm, creating a bump.
Guardrail (Y/N)	Yes			Insufficient post / spacing at NW corner only.
Guardrail		8	8	Only SW appro G/R have thriebeam transition.
Length (m)	41.400			NW - 41.4m, SW - 91.2m (with thriebeam transition), NE & SE - 99.0m.
Current Standard (Y/N)	No			
Termination Type	Turned Down			
Drainage		3	3	NE & SE drain trough broken/separating.-photo Drainage going under slope protection at NW.
<b>Approach Road General Rating</b>		<b>6</b>	<b>6</b>	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : VF, 4 Spans, Lengths(m): 12.2-38.1-38.1-15.2, A-Ident Number: )					
<b>Special Features</b>					
Special Feature		9	9	Super bolts span 2 & 3 only.	
(Type : EXT LATER POST TENS)					
Special Feature			X		
(Type : )					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	Gravel along curbs.
<b>Last</b>	0	0	0	5	
<b>Now</b>	10.0	0.0	0.0	5.0	
Wearing Surface			3	3	Chipseal with 50mm asphalt. Potholes along curb & adjacent to pier joint grout key crack near North curb paving lip. Numerous pot holes along both curbs-rebar exposed.photo-22-Jun-2010
(Material Type : ACP - CONVENTIONAL CHIP SEAL COAT)					
(Thickness(mm) : 50)					
Lateral Connection Problem (Y/N)		Yes			
Deck Top			N	N	
Deck Rideability			6	6	
Deck Joints			4	3	Fingers not bearing down 5mm gap, slap with traffic, both abutments (photo). Pier joints repaired with elastomeric compound, 50% peeled off & no longer functioning.-photo Center & East pier have neoprene gland. S curb cover plate over W over have one sheared bolt (photos). 2 bent. Paving lip deteriorated W.A.-photo Fingers not centre due to skew pressure. 1 broken finger EBL W abutment. Fingers at SE overlap adjacent and have risen 30mm.-photo Pier and abutment caps are wet and stained from joint leakage.
Temperature (deg. C)		5			
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))					
(Fixed Type : )					
Gap Size (mm)		Gap Location			
43			West abutment		
73			West pier		
90			Center		
70			East pier		
40			East abutment		
Deck Drainage			6	3	
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	Curbs have few delamination cracks & spalls with rust staining at 2m ok.-photo Delam holes in south side of median (EB) in S1, S4 (photo). Section of South curb exterior spalled in S2 (photo).
(Curb Type : Standard)					
Scaling (Percent Area)		10			
Bridge Rail			7	7	Rail has a few minor dents and scrapes.
(Type : GALVANIZED STEEL BRIDGE TUBE)					
Bridge Rail Posts			7	7	
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			6	6	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
<b>Last</b>	0	0	0	1	
<b>Now</b>				7	
Girders			3	3	G3 & 4-S3 & 5 narrow longitudinal crack, G2-S3 small spall W.E. longitudinal crack. Rust spots on second girders not associated with strands corrosion. Rebar spot stains. Long crack G9/G6-SP2. Spall on stirrups G3,SP2. Vertical crack starting at abutment ends of S1G4,8 S3G8, S4 G5,8,9. -photos Spall G9 SP2.-photo
Cracking (Y/N)		Yes			
Spalling (Percent Area)		1			
(Number Of Girders : 36)					

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : VF, 4 Spans, Lengths(m): 12.2-38.1-38.1-15.2, A-Ident Number: )				
Diaphragms/Cross Frame		4	4	Numerous cracked diaphragms.
Bearings		6	6	Some rust on plates above & below neoprene pads. Slight lateral neoprene pad deformation. Pier bearings inaccessible, viewed with binoculars - looks ok. S3G9 spall in bearing area.
Temperature (deg. C)	4			
(Expansion Type : <b>REINFORCED PAD BEARING</b> )				
(Fixed Type : )				
Coating Adequate (Y/N)	No			
Functioning (Y/N)	Yes			
Deck Underside		5	5	Stains & delam cracking @ weep hole drains & efflorescence on deck underside around deck drains. Typical chamfer cracks. Some cracks extend into the deck underside (photo).
Stains (Percent Area)	2			
<b>Span Alignment Problems</b>				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
<b>Superstructure General Rating</b>		<b>3</b>	<b>3</b>	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Abutments</b>				
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				
Backwalls/Breastwalls		5	5	
Wingwalls		4	4	Spalling under curb @ NW-photo 1.5mx0.5m spall at SW.
Piles		N	N	
Paint/Coating		5	5	
Abutment Stability		7	7	
Scour/Erosion		X	X	
<b>Piers/Bents</b>				
(Type : <b>PIER-COLUMN</b> )				Isolated rust spots East side of East pier. Stains from joint leakage over pile 2, Pier 2 & 3. Longitudinal cracking of cap underside in this area. 5 concrete columns/pier.-delam crack N end West pier, delam center pier.
Bearing Seats/Caps		5	5	
(Type : <b>CONCRETE</b> )				
(Total Number of Bearing Piles : <b>5:5:5</b> )				
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		7	7	Light grey
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		X	X	
Debris (Y/N)	No			

Substructure				
Bridge Component		Last	Now	Explanation of Condition
<b>Substructure General Rating</b>		<b>5</b>	<b>5</b>	
Structure Usage				
		Last	Now	Explanation of Condition
<b>Grade Separation</b>				
Road Alignment		8	8	
Traffic Safety Features		7	7	
Type	Guardrail			
Slope Protection (Type : <b>CONCRETE; CONCRETE</b> )		4	4	Decks approach drainage undermining slope protection @ NW. Cracks in slope protection. Top of West concrete slope protection pulled away 70mm.
Bank Stability		7	7	
Drainage		6	6	
<b>Grade Separation General Rating</b>		<b>4</b>	<b>6</b>	



On 3-Year Program (Y/N)			
Proposed Action			
Previous Inspector's Name	Arnold Assenheimer	Previous Assistant's Name	
Next Inspection Date	27-Dec-2013	Previous Inspection Date	22-Jun-2010
Inspection Cycle (Default) (months)	21		
Comment			