						Bridge In	nspection						
Bridge File Num	ber	09996 -1	Bridge				Form Type)		PCS			
Year Built/Year		1966/196	6				Lot No.			1			
Supstr	N 1	0 0 1 0 1 1 0					Inspector I	Name		Owen Salav	a		
Bridge or Town	ivame	GALAHA		EEV 500) \//\TE	DCDC	Inspector	Class		BR CLS A			
Located Over		ST	ARTHUR	EEK, 5.23	3, WATE	RCRS-	Assistant I						
Located On		861:02 C	1 17.842				Assistant (_			
Water Body Cl./	Year						Inspection			13-Sep-2012			
Navigabil. Cl./Ye	ear						Data Entry			Marcia Chav			
Legal Land Loca	ation	NE SEC	22 TWP	39 RGE 1	4 W4M		Data Entry			02-Oct-2012			
Longitude, Latitu	ıde	-111:55:2	28, 52:22	:29			Reviewer			John O'Brie			
Road Authority		Alberta T	ransporta	ation (AIT)			Review Da			27-Sep-201			
Contract Main. A	Area	CMA21					· ·			Andrew Smi			
Clear Roadway/	Skew	8.2 / -15	deg. (LHI	F)			Dept. Revi		te	22-Oct-2012			
AADT/Year		60 / 2011	(A)				Follow-Up	Ву					
Road Classificat	tion	RCU-209	G-90										
Detour Length (I		6											
Allowable Load	(t): Sin		30 DER			CS2 52 GIRDER		Train		3 75 RDER		> On Critic	
Design Loading:		HS2	0									> Primary	Span
						Posting In	nformation						
Required Load F	Posting	(t)		Single			Semi				Truc	k Train	
Posted Loading	(t)			Single			Semi				Truc	k Train	
Posted:	Lane	NB		At Junction	on (Y/N)	No	In Adv	ance (Y/N)	No	At Bridge (Y/N) No		No
Posted:	Lane	SB		At Junction	on (Y/N)	No	In Adv	ance (Y/N)	No	At B	ridge (Y/N)	No
Remarks													
Hazard Marker	At Bridg	ge (Y/N)	Yes										
Remarks			Wrong I	ocation; to	oo low, 5	00-830mr	m to bottom	(photo); SE	leaning.			
Other Sign Type	S		60 kph,	Steep Hill									
Utility Attachme	oto					Jtilities (L	_ocated at)						
Telephone		side of roa					Gas						
Power				2 wiros 10	Om Sout	h & North	Municipal						
Powei		s 15111 Ea Ige crossi		o wiles 10	om Sout	II & INOILII	Problem (Z/NI\	No				
Others							1 TODICITI (1/14)	110				
Remarks													
							ch Road						
					Las	t Now	Explanation						
Horizontal Align					7		Farm & fie	ld entra	ances	both ends. D	eep v	alley, good si	ght distance.
Vertical Alignme			I		6	6							
Roadway Width	` '		9.300										
Approach Bump			1		7	7							
Guardrail (Y/N)			Yes										
Guardrail			44.5		6	6	-						
Length (m)			11.000				Insufficien	t lenath	ı, pos	ts. SW turn d	own e	end too hiah.	
Current Stand		N)	No				-	3"	, , ===			· · · · · · · · · · · · · · · · · · ·	
Termination T	ype		Turn Do	own			0	-l-				desir (1	4-1
Drainage					4	6	Gravel win	arows	unde	r guardrail im	pede	drainage (pho	το).
Approach Road	d Gene	ral Ratin	g		6	6							

				5	Supers	tructure		
Bridge Comp	onent			Last	Now	Explanation of Condition		
(Primary Spa	n : HC, 3 Spa r	ns, Lengths(m): 8.5-8.5-8.5	, A-Ide	nt Nun	nber:)		
Special Feat	ures							
Special Featu	ıre				X			
(Type:)								
Special Featu	ıre				X			
(Type:)								
Wearing Surfa	ace/Deck Top	Detail Rating	s					
	N (%)	1 (%)	2 (%)	3 (%)		Gravel covered.		
Last	40	0	0		0			
Now	90.0	0.0	0.0	0	.0			
Wearing Surf	ace			Х	Х	(Connector pockets failed on S2G5-7 & S3G6,7. 19Jun2012).		
(Material Ty								
(Thickness)	mm):)							
	ection Problem) Yes						
Deck Top		·		4	4	Worn girder edges and top abrasion (photo).		
Deck Rideabi	lity			5	5			
Deck Joints				4	4	S1/2 upto 40mm gap.		
Bump (Y/N)		No				Damage to buffer angle; previous spall at buffer angle not seen.		
Deck Drainag				4	6	Girders separating.		
Drains Clog		No				(Gravel along curbs impedes drainage. 19Jun2012).		
Curbs/Median			3	3	Numerous spalls on face & corners with exposed void on S2G10 -			
(Curb Type : Standard)					photo. Spalls backside of curbs behind post - photo.			
Scaling (Percent Area) 15								
Bridge Rail	,			4	5	Single layer; missing 5 splice bolts & 1 nut missing on bridgerail post		
	LVANIZED ST	EEL FLEX B	EAM)			connection along W on N (photo).		
Bridge Rail P			,	3	4	S1G1 post 5 nut not fully engaged - photo.		
		ST STEEL;	SALVANIZED	POST		(Damage to post anchorage at 2 locations along W & along E (photo). 19Jun2012). Concrete spall & scale at post anchors.		
Bridge Rail/P	osts Coating			6	6	Concrete span & scale at post anonors.		
(Type : GAI								
Sidewalk	,			Х	Х			
Girder Detail								
	N (count)	1 (count)	2 (count)	3 (cou	nt)			
Last	0	0	0	;	5			
Now	0	0	0	1	2			
Girders				3	3			
Last Complet	e Inspection D	ate 14-Sep	o-2012			Wide longit. crack in AZ, 1 leg, with sound concrete on S1G7,9.		
Cracking (Y	/N)	Yes				S3G5 has narrow shear crack. S1G5 & S2G2 spall in AZ.		
Spalling (Pe	ercent Area)	2				50mm bearing with spalling in AZ of S1G1 at pier (photo).		
Lift or Connec Grouted (Y/N		No				Reduced bearing length, drift pins popping out side of cap at P1 (photo).		
(Number Of C	Girders : 30)					100mm x 100mm punchout on S3G7. Connector pockets failed at SG5-7 & S3G6,7. Non grouted pockets mean other girders have maximum 4 rating. Connector pockets filled with tar.		
Span Alignm	ent Problems	5						
Vertical (Y/I	N)	No				(P1 shifting W ~100mm (photo). 19Jun2012).		
Horizontal (Y/N)	Yes				S1 190mm out of alignment at A1.		
Superstructu	ıre General R	ating		3	3			

					Subst	ructure				
Bridge Com	ponent			Last	Now	Explanation of Condition				
Abutments		'								
(Extended	Backwall Piles	s (Y/N) : Y)								
(Extended	Backwall Piles	Spacing(mm)	: 1600)							
	er of Caps/Co		,			A1 subcap hidden by gravel from roadway.				
	<u> </u>	ls Detail Rating	as							
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	1	0	0		0					
Now	1	0	0		0					
Bearing Seat	ts/Caps/Corbe	ls		5	5					
	EATED TIMB									
(Depth(mm										
(Width(mm	•									
Backwalls/Br	•			5	5	A1				
Greatest H		1.20								
Wingwalls	oigni (iii)	1.20		4	4	NE top plank cracked, functional. Missing SE tin top, pile rotting				
Villigwalis						(photo).				
(Total Number	er of Bearing F	Piles : 7:7)				Assume North abutment has 7 piles. Abutment 2 headslope above				
Piles Detail F	Ratings					bottom of cap.				
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	8	0	0	(0					
Now	8	0	0	(0					
Piles				6	6					
Paint/Coating	g			X	X					
Abutment Sta	ability			5	5					
Scour/Erosio	n			4	5	Surface erosion @ SW headslope - photo. (Large amount of gravel accumulation on hslps. 19Jun2012).				
Piers/Bents										
(Type : PIE	R-COLUMN)									
(Total Number	er of Caps/Co	rbels : 3:3)								
Bearing Seat	s/Caps/Corbe	ls Detail Rating	gs							
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0		0	(I (I'' : 1) : (O4 (B4 40) 0040)				
Now	0	0	0		1	(Insufficient bearing of S1 at P1. 19Jun2012). Dowel visible at S1G6; drwgs show 67mm from girder end to edge of				
Bearing Seat	ts/Caps/Corbe	ls		6 3		dowel so bearing could be less than 75mm.				
(Type : TR	EATED TIMB	ER)								
(Depth(mm	n): 300)									
(Width(mm) : 350)									
(Total Number	er of Bearing F	Piles : 8:8)								
Piles Detail F	Ratings									
	N (count)	1 (count)	2 (count)	3 (cou	ınt)					
Last	0	0	0	(0	Several piles with wide checking.				
Now	0	0	0	(0	Pier 1 pile 6 steel jacket, base poor - photo.				
Pier Shaft/Pil	les			4	4	(Beginning rot in top of P1p4. 19Jun2012).				
Greatest H	eight (m)	5.50								
Bracing/Strut	ts/Sheathing			4	4	Pier 2, two cracked planks - functional (photo).				
Nose Plate				5	5	Small section of cap on pier 1 nose only.				
Paint/Coating				Х	Х					
(Colour De	. ,									
(Colour Co	de:)									

			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		3	3	Pier 1 leaning West approx 100mm.
Scour		4	4	Minor, both piers.
Debris (Y/N)	No			
Substructure General Rating		3	3	
			Structu	re Usage
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : W)				
(D/S Direction : E)				
Alignment		7	7	
Bank Stability		7	7	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			Beaver dam d/s of bridge.
Slope Protection		4	5	South headslope.
(Type : RIP RAP; NONE)				
Guidebank/Spurs		Х	X	
Adequacy of Opening		7	7	
(Fish Compensation Measure 1	: NONE)			
(Fish Compensation Measure 2	: NONE)			
Channel General Rating		4	5	

Alberta Transportation

		Maintenance Recommendations	ndations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	nents	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten post bolt; add 5 splice bolts.					
SEAL CURBS	2012	Patch spalls approx 0.5m2.					
PATCH DECK	2012	Patch spall @ buffer angle, if not yet done.					
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2012	Remove gravel.					
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Repair punchout.					
OTHER ACTION	2012	Stub P1p4.					
OTHER ACTION	2012	Bolt 150mm x 300mm plank to P1 cap along S side.	S				
OTHER ACTION	2012	Remove tar from lift & connectors fill with 0.5m(cubed) NH grout; repair connections where failed.					
OTHER ACTION	2012	Install hazard markers @ standard location/height.					
OTHER ACTION	2012	Fill erosion gully 3m3 pitrun.					
OTHER ACTION	2012	Consider reset girders to improve bearing & pull pier in line.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33.3	3.3 Sufficiency Rating (Last/Now)	56.6/58.9	Est. Repl. Yr 2016	Maint. Reqd. (Y/N)		Yes
Special Monitor P1 stability. Comments for Monitor shear crack & exposed rebar areas. Next Inspection	osed reb	oar areas.	Department Comments				
Maintenance Reviewed By			Date		Estimated Total	0	
Proposed Long-Term Strategy 2003.0	38.18 Re	2003.08.18 Replace bridge by 2015 or when road is paved/upgraded	graded.				
On 3-Year Program (Y/N)							

Proposed Action			
Previous Inspector's Name	Kris Bosters	Previous Assistant's Name	
Next Inspection Date	13-Dec-2015	Previous Inspection Date	19-Jun-2012
Inspection Cycle (Default) (months) 39	39		
Comment			

		Maintenance Recommer	dations				
Inspector Recommendations	Year	Inspector Comments	Department Comments		Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL	2012	Tighten post bolt; add 5 splice bolts.	Programmed		2013		
SEAL CURBS	2012	Patch spalls approx 0.5m2.	Programmed		2013		
PATCH DECK	2012	Patch spall @ buffer angle, if not yet done.	Programmed		2013		
OVERLAY DECK							
STRAIGHTEN/REPLACE MEMBERS							
WASHING	2012	Remove gravel.	Operations		2013		
SHOTCRETE REPAIRS							
CORE TIMBER CAPS/CORBELS							
REPAIR/REPLACE TIMBER CAPS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
INSTALL STRUTS							
OTHER ACTION	2012	Repair punchout.	Programmed		2013		
OTHER ACTION	2012	Stub P1p4.	Programmed		2013		
OTHER ACTION	2012	Bolt 150mm x 300mm plank to P1 cap along S side.	Programmed		2013		
OTHER ACTION	2012	Remove tar from lift & connectors fill with 0.5m(cubed) NH grout; repair connections where failed.	Programmed		2013		
OTHER ACTION	2012	Install hazard markers @ standard location/height.	Operations		2013		
OTHER ACTION	2012	Fill erosion gully 3m3 pitrun.	defer until next rehab				
OTHER ACTION	2012	Consider reset girders to improve bearing & pull pier in line.	defer until next rehab				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	33.3/33	.3 Sufficiency Rating (Last/Now) (%)	56.6/58.9 Est. R	2016 epl. Yr	Maint. Re	eqd. (Y/N)	Yes

Special Comments for Next Inspection	Monitor P1 stability Monitor shear crac	k & exposed rebar areas.	Department Comments	Scheduled for replacement	in PMa in 2016. D <i>l</i>	A
Maintenance Rev	iewed By	Darron Ahlstedt	Date	11-Dec-2012	Estimated Total	0
Proposed Long-To	erm Strategy	2003.08.18 Replace bridge by 2015 or when road is	paved/upgraded.			
On 3-Year Progra	m (Y/N)					
Proposed Action						
Previous Inspecto	r's Name	Kris Bosters	Previous Assistant's Nan	ne		
Next Inspection D	ate	13-Dec-2015	Previous Inspection Date	e 19-Jun-2012		
Inspection Cycle ((Default) (months)	39				
Comment						