

Bridge Inspection							
Bridge File Number	07512 -1 Bridge			Form Type	PCS		
Year Built/Year Supstr	1961/1961			Lot No.	1		
Bridge or Town Name	GADSBY			Inspector Name	Dave Lam		
Located Over	PAINTEARTH CREEK, 5.23, WATERCRS-ST			Inspector Class	BR CLS A		
Located On	601:04 C1 18.955			Assistant Name			
Water Body Cl./Year				Assistant Class			
Navigabil. Cl./Year				Inspection Date	12-Jul-2011		
Legal Land Location	SE SEC 18 TWP 40 RGE 16 W4M			Data Entry By	Marcia Chavez		
Longitude, Latitude	-112:17:36, 52:26:02			Data Entry Date	16-Aug-2011		
Road Authority	Alberta Transportation (AIT)			Reviewer Name	John O'Brien		
Contract Main. Area	CMA20			Review Date	27-Jul-2011		
Clear Roadway/Skew	8.2 / -15 deg. (LHF)			Dept. Reviewer Name	Chris Black		
AADT/Year	100 / 2010 (A)			Dept. Review Date	30-Aug-2011		
Road Classification	RCU-209G-90			Follow-Up By			
Detour Length (km)	8						
Allowable Load (t):	Single	CS1 28 GIRDER	Semi	CS2 49 GIRDER	Train	CS3 62 GIRDER	---> On Critical Spans --->Critical Member
Design Loading:	HS20						---> Primary Span

Posting Information								
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	Not required.							

Hazard Marker At Bridge (Y/N)	Yes
Remarks	4 corners, spring type.
Other Sign Types	

Utilities (Located at)			
Utility Attachments			
Telephone	South of c/l.	Gas	
Power	2 wires 15m North of c/l.	Municipal	
Others		Problem (Y/N)	No
Remarks			

Approach Road				
		Last	Now	Explanation of Condition
Horizontal Alignment		8	8	
Vertical Alignment		8	8	
Roadway Width (m)	8.500			
Approach Bump		7	6	
Guardrail (Y/N)	Yes			
Guardrail		7	7	
Length (m)	22.800			
Current Standard (Y/N)	Yes			
Termination Type	Turn Down			
Drainage		7	7	
Approach Road General Rating		8	8	

Superstructure					
Bridge Component		Last	Now	Explanation of Condition	
(Primary Span : PG, 1 Spans, Lengths(m): 8.5, A-Ident Number:)					
Special Features					
Special Feature			X	File tags NE & SW.	
(Type :)					
Special Feature			X		
(Type :)					
Wearing Surface/Deck Top Detail Ratings					
	N (%)	1 (%)	2 (%)	3 (%)	
Last	10				
Now	40.0	0.0	0.0	0.0	
Wearing Surface			X	X	No connectors.
(Material Type :)					
(Thickness(mm) :)					
Lateral Connection Problem (Y/N)		No			
Deck Top			5	5	Minor girder edge wear. Wide gaps btwn girders.
Deck Rideability			6	6	
Deck Joints			X	X	
Bump (Y/N)		No			
Deck Drainage			6	5	Heavy gravel accumulation along both gutters.
Drains Clogged (Y/N)		No			
Curbs/Median			4	4	SE corner cracked & spalled at rub rail bolt connector - photo. NW corner exterior spalled under post (photo).
(Curb Type : Standard)					
Scaling (Percent Area)		0			
Bridge Rail			8	8	Double layer.
(Type : GALVANIZED STEEL FLEX BEAM)					
Bridge Rail Posts			8	4	Spalled curb under NW post affecting anchorage.
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)					
Bridge Rail/Posts Coating			8	7	
(Type : GALVANIZED)					
Sidewalk			X	X	
Girder Detail Ratings					
	N (count)	1 (count)	2 (count)	3 (count)	
Last	10				
Now	0	0	0	2	
Girders			N	3	1 leg G6 from S spalling in middle of girder & wide crack in AZ of same leg. Exposed rebar in AZ 3rd interior from N with unsound concrete above top half main long. steel - photo.
Last Complete Inspection Date		12-Jul-2011			
Cracking (Y/N)		Yes			
Spalling (Percent Area)		10			
Lift or Connector Pocket Grouted (Y/N)		Yes			
(Number Of Girders : 10)					
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						
(Extended Backwall Piles (Y/N) : Y)						
(Extended Backwall Piles Spacing(mm) : 1500)						
(Total Number of Caps/Corbels : 3:3)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	100					
Now	0	0	0	0		
Bearing Seats/Caps/Corbels				N	5	
(Type : TREATED TIMBER)						
(Depth(mm) : 305)						
(Width(mm) : 305)						
Backwalls/Breastwalls			N	5		
Greatest Height (m)		1.70				
Wingwalls			5	3		
(Total Number of Bearing Piles : 7:7)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last	14					
Now	0	0	0	1		
Piles				N	3	
Paint/Coating				X	X	
Abutment Stability				5	5	
Scour/Erosion				N	N	
Piers/Bents						
(Type :)						
(Total Number of Caps/Corbels :)						
Bearing Seats/Caps/Corbels Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Bearing Seats/Caps/Corbels				X	X	
(Type :)						
(Depth(mm) :)						
(Width(mm) :)						
(Total Number of Bearing Piles :)						
Piles Detail Ratings						
	N (count)	1 (count)	2 (count)	3 (count)		
Last						
Now						
Pier Shaft/Piles				X	X	
Greatest Height (m)						
Bracing/Struts/Sheathing			N	4		
7 struts. Numerous struts are rotating. No cleat under some strut. 3rd strut from S has wide split, full length (photo).						
Nose Plate			X	X		
Paint/Coating				X	X	
(Colour Description :)						
(Colour Code :)						

Substructure				
Bridge Component		Last	Now	Explanation of Condition
Pier Stability		X	X	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		5	3	
Structure Usage				
		Last	Now	Explanation of Condition
Channel				
(U/S Direction : S)				
(D/S Direction : N)				
Alignment		5	5	
Bank Stability		6	6	
HWM (m below Top of Curb)				HWM not visible.
Drift (Y/N)	No			
Slope Protection		6	6	
(Type : NATURAL; NATURAL)				
Guidebank/Spurs		X	X	
Adequacy of Opening		5	3	Opening reduced by half due to heavy gravel build-up under W half of bridge (photo).
(Fish Compensation Measure 1 : NONE)				
(Fish Compensation Measure 2 : NONE)				
Channel General Rating		5	3	

Maintenance Recommendations										
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #				
REPAIR/REPLACE BRIDGE RAIL										
SEAL CURBS	2011	Patch SE & NW corner spalls.								
PATCH DECK										
OVERLAY DECK										
STRAIGHTEN/REPLACE MEMBERS										
WASHING	2011	Remove gravel from deck surface.								
SHOTCRETE REPAIRS										
CORE TIMBER CAPS/CORBELS	2011	Core piles, especially A1P1.								
REPAIR/REPLACE TIMBER CAPS										
REPAIR ABUTMENT SCOUR/EROSION										
PLACE ADDITIONAL RIP RAP										
REMOVE DRIFT ACCUMULATION										
INSTALL STRUTS										
OTHER ACTION	2011	Install cleats under struts & replace pile 3 strut.								
OTHER ACTION	2011	Remove excess gravel from under W half of bridge in channel.								
OTHER ACTION										
OTHER ACTION										
OTHER ACTION										
Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	59.6/53.4	Est. Repl. Yr	2014	Maint. Req. (Y/N)	Yes			
Special Comments for Next Inspection	Monitor cracks & exposed rebar in G3 & G6. No action for wing piles.		Department Comments							
Maintenance Reviewed By	2004.05.29 Bridge should be good until 2013.		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	12-Oct-2014	Previous Inspection Date	08-Oct-2009							
Inspection Cycle (Default) (months)	39									
Comment										

Maintenance Recommendations

Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #
REPAIR/REPLACE BRIDGE RAIL						
SEAL CURBS	2011	Patch SE & NW corner spalls.	Defer until replacement			
PATCH DECK						
OVERLAY DECK						
STRAIGHTEN/REPLACE MEMBERS						
WASHING	2011	Remove gravel from deck surface.	Defer			
SHOTCRETE REPAIRS						
CORE TIMBER CAPS/CORBELS	2011	Core piles, especially A1P1.	Defer until replacement			
REPAIR/REPLACE TIMBER CAPS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
INSTALL STRUTS						
OTHER ACTION	2011	Install cleats under struts & replace pile 3 strut.	Defer until replacement			
OTHER ACTION	2011	Remove excess gravel from under W half of bridge in channel.	Defer			
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	44.4/33.3	Sufficiency Rating (Last/Now) (%)	59.6/53.4	Est. Repl. Yr	2014	Maint. Req. (Y/N)	Yes
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Special Comments for Next Inspection	Monitor cracks & exposed rebar in G3 & G6. No action for wing piles.	Department Comments	Tentatively programmed to be replaced in 2014. AS
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Maintenance Reviewed By	Andrew Smikles	Date	22-Aug-2012	Estimated Total	0
Proposed Long-Term Strategy	2004.05.29 Bridge should be good until 2013.				
On 3-Year Program (Y/N)					
Proposed Action					
Previous Inspector's Name	Owen Salava	Previous Assistant's Name			
Next Inspection Date	12-Oct-2014	Previous Inspection Date	08-Oct-2009		

Inspection Cycle (Default) (months)	39
Comment	