

Bridge Inspection									
Bridge File Number	75726 -1 Bridge					Form Type	SG		
Year Built/Year Supstr	1965/1965					Lot No.	2		
Bridge or Town Name	MENAİK					Inspector Name	Owen Salava		
Located Over	2:28 R1 7.368;2:28 L1 7.368					Inspector Class	BR CLS A		
Located On	MUNICIPAL					Assistant Name			
Water Body Cl./Year						Assistant Class			
Navigabil. Cl./Year						Inspection Date	22-Feb-2013		
Legal Land Location	SW SEC 36 TWP 43 RGE 26 W4M					Data Entry By	Marcia Chavez		
Longitude, Latitude	-113:38:39, 52:44:30					Data Entry Date	14-Mar-2013		
Road Authority	Alberta Transportation (AIT)					Reviewer Name	John O'Brien		
Contract Main. Area	CMA17					Review Date	28-Feb-2013		
Clear Roadway/Skew	9.1 /					Dept. Reviewer Name	Chris Black		
AADT/Year	100 / 2001 (E)					Dept. Review Date	14-Mar-2013		
Road Classification	RLU-209G-90					Follow-Up By			
Detour Length (km)	15								
Allowable Load (t):	Single		Semi		Train		----> On Critical Spans ---->Critical Member		
Design Loading:	HS20						----> Primary Span		

Posting Information													
Required Vert. Clearance Posting (m)		UNDER: 2 L1 5.2m, 2 R1 5.2m											
Posted Vertical Clearance (Y/N)													
Posted:	Lane	NB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)	5.2	In Advance (Y/N)	Yes	
Remarks													
Required Load Posting (t)		Single				Semi				Truck Train			
Posted Loading (t)		Single				Semi				Truck Train			
Posted:	Lane	EB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Posted:	Lane	WB	At Junction (Y/N)		In Advance (Y/N)		At Bridge (Y/N)						
Remarks													

Hazard Marker At Bridge (Y/N)	No												
Remarks													
Other Sign Types													

Utilities (Located at)													
Utility Attachments													
Telephone						Gas							
Power						Municipal							
Others						Problem (Y/N)	No						
Remarks													

Approach Road					
		Last	Now	Explanation of Condition	
Horizontal Alignment		9	9	Bridge plaque casted into both conc headslopes. Vertical crest curve - poor sight distance - typical G/S.	
Vertical Alignment		5	5		
Roadway Width (m)	9.000			Not attached to bridgerail and insufficient posts. Not thriebeam.	
Approach Bump		6	6		
Guardrail (Y/N)	Yes				
Guardrail		4	5		
Length (m)	60.000				
Current Standard (Y/N)	No				
Termination Type	TURNED DOWN				
Drainage		7	7		
Approach Road General Rating		5	5		

Superstructure						
Bridge Component		Last	Now	Explanation of Condition		
(Primary Span : FR, 3 Spans, Lengths(m): 30.5-9.1-30.5, A-Ident Number: A0470-01)						
Special Features						
Special Feature			X			
(Type :)						
Special Feature			X			
(Type :)						
Wearing Surface/Deck Top Detail Ratings						
	N (%)	1 (%)	2 (%)	3 (%)		
Last	0	0	0	0		
Now	5.0	0.0	0.0	0.0		
Wearing Surface			4	6	Stops 600mm from curb at paving lip.	
(Material Type : ACP)						
(Thickness(mm) : 50)						
Deck Top			N	N		
Deck Rideability			6	7		
Deck Joints			5	5	Curb cover plates @ E abut have gap under (abut side higher) 25mm NW 20 mm higher @ curb cover plate - possible plow hazard. Wingwall cracks extend from ends of curb cover plates.	
Temperature (deg. C)		1				
(Expansion Type : SLIDING PLATES)						
(Fixed Type :)						
Gap Size (mm)		Gap Location				
35		E. abut				
45		W. abut				
Deck Drainage			5	5	(Minor ponding along curbs - 950908). No drains.	
Drains Clogged (Y/N)						
Curbs/Median			6	6	0.3mm wide transverse cracks 1 to 2m spacing. Water stop exposed at SE.	
(Curb Type : Standard)						
Scaling (Percent Area)		0				
Bridge Rail			7	7	Verticals in one panel @ SE is bent but not broken. 1 panel at N, one bent bar - minor. 11 A/B assemblies @ N & 3 @ S have up to 1/3 of bolt not fully into nut. 1 anchor nut missing 1st post from NE - photo. 1 location on SE end panel galvanizing peeled off & rusting (minor).	
(Type : GALVANIZED STEEL VERTICAL BAR)						
Bridge Rail Posts		3	3			
(Type : GALVANIZED POST STEEL; GALVANIZED POST STEEL)						
Bridge Rail/Posts Coating		6	6			
(Type : GALVANIZED)						
Sidewalk			X	X		
Girder/Beam						
Cover Plate		7	7	S1,3 bottom flanges have scrapes & notches. S1G1,3, S3G1 have zipper repair from HLD. S1,3 girders have slight sag. S3G1 HLD deflect up 20mmx600mm long (photo) - appears straightened.		
Flange		4	5			
Web		4	6			
Stiffeners		8	8			
Splice		8	8			
Weld		7	7			
Diaphragms/Cross Frame			6	6		

Superstructure				
Bridge Component		Last	Now	Explanation of Condition
(Primary Span : FR, 3 Spans, Lengths(m): 30.5-9.1-30.5, A-Ident Number: A0470-01)				
Paint Condition		4	4	Scrapes on S girder bottom flange over SBL travel lane. Bottom flanges in spray zone above traffic lanes starting to corrode.
(Colour Description : BROWN)				
(Colour Code : 504-106)				
Touchup Required (Y/N)	No			
Bearings		5	5	East abutment bearings are fully expanded, A/Bs bent.
Temperature (deg. C)	1			
(Expansion Type : SLIDING PLATE)				
(Fixed Type : PINNED BEARING)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	No			
Deck Underside		4	4	Efflorescence visible @ transverse cracks in center span & along patched curb. A few local delam/popouts in deck U/S due to low cover & rebar corrosion.
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		4	5	
Substructure				
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	Ice on A1 seat.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		4	4	Curb cracking & scaling on wings (photo). Delam at NE.
Piles		N	N	
Paint/Coating		6	6	
Abutment Stability		6	6	
Scour/Erosion		X	X	
Piers/Bents				
(Type : PIER-COLUMN)				Edge of SW grout pad broken away under steel column - minor.
Bearing Seats/Caps		6	6	
(Type :)				
(Total Number of Bearing Piles : 0:0)				
Pier Shaft/Piles		8	8	
Bracing/Struts/Sheathing		X	X	
Nose Plate		X	X	
Paint/Coating		6	6	
(Colour Description : YELLOW)				
(Colour Code : 13538)				
Pier Stability		8	8	
Scour		X	X	
Debris (Y/N)	No			
Substructure General Rating		6	6	

Structure Usage				
		Last	Now	Explanation of Condition
Grade Separation				
Road Alignment		8	8	
Traffic Safety Features		7	7	No guardrail @ headslope - median only.
Type	GUARDRAIL			
Slope Protection (Type : CONCRETE)		4	4	300mm wide crack in new top @ W. Concrete slope protection separating from abutment-230mm E & 310mm gap W - filled with concrete (failed). Gap between flat section & slope section on both sides - 80mm. Bottom of E headslope buckling - minor.
Bank Stability		7	4	Concrete sliding down slope.
Drainage		7	7	
Grade Separation General Rating		7	4	

Maintenance Recommendations							
Inspector Recommendations	Year	Inspector Comments	Department Comments	Target Year	Est. Cost	Cat #	
REPAIR/REPLACE BRIDGE RAIL	2013	1st post from NE has 1 anchor nut missing - replace nut. Extend anchor bolts to little bite at nuts.					
GALVANIZE/PAINT BRIDGE RAIL							
RETROFIT BRIDGE RAIL							
SEAL CURBS							
PATCH DECK	2013	Seal curb & curtain walls; patch curb.					
SEAL DECK							
OVERLAY DECK							
REPAIR/REPLACE DECK JOINTS	2013	Reset curb cover plates.					
RESET/ PAINT BEARINGS							
REPAINT SUPERSTRUCTURE	2013	Touch-up paint at bottom flanges.					
STRAIGHTEN/REPLACE MEMBERS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION							
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Upgrade rail to meet std.					
OTHER ACTION	2013	Seal gap btwn breastwall & top of concrete slope protection.					
OTHER ACTION	2013	Patch wingwall spalls/delams.					
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now) (%)	55.6/61.1	Sufficiency Rating (Last/Now) (%)	64.0/62.7	Est. Repl. Yr	2028	Maint. Req'd. (Y/N)	Yes
Special Comments for Next Inspection	No action for deck underside cracks or delams.			Department Comments			
Maintenance Reviewed By				Date	Estimated Total	0	
Proposed Long-Term Strategy	Rehab Strategy. ACP poor condition, pave when work in area. Include in 604 project scheduled for 2010. No CSE Issues. RS						
On 3-Year Program (Y/N)							
Proposed Action							

Previous Inspector's Name	Owen Salava	Previous Assistant's Name	
Next Inspection Date	22-Nov-2014	Previous Inspection Date	13-Jul-2011
Inspection Cycle (Default) (months)	21		
Comment			