Bridge Inspection

Bridge File Number	85007 NR-8 Bridge	Form Type	PSR
Year Built/Year Supstr	2011/2011	Lot No.	3
		Inspector Name	Wade Nanninga
Bridge or Town Name	AHD (HWY 216) N RAMP TO 87 AVE OVER WHITEMUD N RAMP TO AHD	Inspector Class	BR CLS A
Located Over	RAMP 2437-3 D	Assistant Name	
Located On	RAMP 2291-3 C	Assistant Class	
Water Body Cl./Year		Inspection Date	25-Jan-2013
Navigabil. Cl./Year		Data Entry By	Theresa Lacusta
Legal Land Location	SW SEC 29 TWP 52 RGE 25 W4M	Data Entry Date	06-Mar-2013
Longitude, Latitude	-113:39:25, 53:31:06	Reviewer Name	Eric Carcoux
Road Authority	Alberta Transportation (AIT)	Review Date	25-Feb-2013
Contract Main. Area	ANTHONY HENDAY DRIVE	Dept. Reviewer Name	Brent Herrick
Clear Roadway/Skew	14.1 /	Dept. Review Date	13-Mar-2013
AADT/Year		Follow-Up By	
Road Classification			
Detour Length (km)			

Allowable Load (t):	Single	CS1 28	Semi	CS2 49	Train	CS3 62	---> On Critical Spans --->Critical Member
Design Loading:		CL800					---> Primary Span

Posting Information

Required Vert. Clearance Posting (m)											
Posted Vertical Clearance (Y/N)											
Posted:	Lane	NB	On Bridge (m)	5.4	In Advance (Y/N)	Yes	Lane	SB	On Bridge (m)		In Advance (Y/N)
Remarks	Meassured 5.5										

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)		In Advance (Y/N)		At Bridge (Y/N)	
Remarks								

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

Utilities (Located at)

Utility Attachments			
Telephone		Gas	
Power	Major power 50m West.	Municipal	Street lights
Others		Problem (Y/N)	No
Remarks			

Approach Road

		Last	Now	Explanation of Condition
Horizontal Alignment			8	On curve
Vertical Alignment			8	
Roadway Width (m)	9.200			Minor S approach settlement
Approach Bump			6	
Guardrail (Y/N)	Yes			
Guardrail			8	
Length (m)	45.600			
Current Standard (Y/N)	Yes			
Termination Type	Fleat			
Drainage			8	
Approach Road General Rating			**8**	

Superstructure

Bridge Component		Last	Now	Explanation of Condition
(Primary Span : **NU, 1 Spans, Lengths(m): 25.211, A-Ident Number:**)				
Special Features				
Special Feature			X	
(Type :)				
Special Feature			X	
(Type :)				
Wearing Surface/Deck Top Detail Ratings				
	N (%)	1 (%)	2 (%)	3 (%)
Last				
Now	20.0	0.0	0.0	0.0
Wearing Surface			8	
(Material Type : **ACP**)				
(Thickness(mm) : **90**)				
Lateral Connection Problem (Y/N)	No			
Deck Top			N	
Deck Rideability			7	
Deck Joints			4	3 snow plow guards missing S abut, 2 @ N abut.
Temperature (deg. C)				
(Expansion Type : **GLAND (WABO-MAUER, TRANSFLEX, ETC)**)				
(Fixed Type :)				
Gap Size (mm)	Gap Location			
70	S abut			
65	N abut			
Deck Drainage			8	
Drains Clogged (Y/N)				
Curbs/Median			8	Connected jersey barriers along West sidewalk.
(Curb Type : **SINGLE SLOPE CONCRETE BARRIER**)				
Scaling (Percent Area)				
Bridge Rail			X	
(Type :)				
Bridge Rail Posts			X	
(Type :)				
Bridge Rail/Posts Coating			X	
(Type :)				
Sidewalk			N	Snow/ice covered
Girder Detail Ratings				
	N (count)	1 (count)	2 (count)	3 (count)
Last				
Now				
Girders			8	
Cracking (Y/N)	No			
Spalling (Percent Area)				
(Number Of Girders : **6**)				
Diaphragms/Cross Frame			9	

Superstructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
(Primary Span : **NU, 1 Spans, Lengths(m): 25.211, A-Ident Number:**)				
Bearings			8	
Temperature (deg. C)	0			
(Expansion Type : **REINFORCED NEOPRENE BEARING WITH TEFLON AND STAINLESS STEEL**)				
(Fixed Type :)				
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside			7	Hairline crack @ NE.
Stains (Percent Area)				
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating			**7**	

Substructure				
Bridge Component		**Last**	**Now**	**Explanation of Condition**
Abutments				
Bearing Seats/Caps			9	
(Type : **CONCRETE**)				
Backwalls/Breastwalls			8	Vertical narrow cracks.
Wingwalls			9	
Piles			N	
Paint/Coating			8	
Abutment Stability			9	
Scour/Erosion			8	
Piers/Bents				
(Type :)				
Bearing Seats/Caps			X	
(Type :)				
(Total Number of Bearing Piles :)				
Pier Shaft/Piles			X	
Bracing/Struts/Sheathing			X	
Nose Plate			X	
Paint/Coating			X	
(Colour Description :)				
(Colour Code :)				
Pier Stability			X	
Scour			X	
Debris (Y/N)	No			
Substructure General Rating			**8**	

Structure Usage				
		Last	**Now**	**Explanation of Condition**
Grade Separation				
Road Alignment			7	
Traffic Safety Features			8	
Type	Lighting			
Slope Protection			8	
(Type : **CONCRETE; CONCRETE**)				
Bank Stability			8	
Drainage			N	
Grade Separation General Rating			**7**	

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	2013	Replace missing snow plow guards.(5)				
RESET/ PAINT BEARINGS						
WASHING						
SHOTCRETE REPAIRS						
REPAIR ABUTMENT SCOUR/EROSION						
PLACE ADDITIONAL RIP RAP						
REMOVE DRIFT ACCUMULATION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						
OTHER ACTION						

Structural Condition Rating (Last/Now) (%)	**/83.3**	**Sufficiency Rating (Last/Now) (%)**	**/71.8**	Est. Repl. Yr	2080	Maint. Reqd. (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		Previous Assistant's Name			
Next Inspection Date	25-Oct-2014	Previous Inspection Date			
Inspection Cycle (Default) (months)	21				
Comment					