						В	ridge l	nenac	rtion						
Bridge File Numb	e Number 75725 -1 Bridge						illuge i		n Type			PSR			
Year Built/Year		1964/19						Lot I				2			
Supstr									ector Na	ame		Owen Salava	 а		
Bridge or Town N	ame	MENAIK							spector Class BR CLS A						
Located Over 2:28 R1 12.233;2:28 L1 12.234				2.234				Assistant Name							
Located On	cated On 25112:02 C1 0.272								Assistant Name						
Water Body Cl./Y	Cl./Year								Inspection Date 22-Feb-2013						
Navigabil. Cl./Yea	ar							·				Marcia Chavez			
Legal Land Locat	ion	SW SEC 13 TWP 44 RGE 26 W			26 W4I	M			a Entry [			14-Mar-2013			
Longitude, Latitud	de	-113:38:41, 52:47:07						Reviewer Name John O'Brien							
Road Authority		Alberta Transportation (AIT)							Review Date 27-Feb-2013						
Contract Main. Ar	ea	CMA17							Dept. Reviewer Name Chris Black						
Clear Roadway/S	Skew 10.4 / 4 deg. (RHF)											14-Mar-2013	 R		
AADT/Year		125 / 20	04 (E)					Follow-Up By				14 Mai 2010	,		
Road Classification	on							- Onow op by							
Detour Length (km) 13															
			Semi	CS	32 49		7	Train	CS	3 62		> On Critical Spans			
GIRDER										>Critical Member					
Design Loading: HS20													> Primary S	Span	
De mine d Mant. Ol		aa Daatis	()	LINDED	. 0 1 4 5		sting I		nation						
Required Vert. Cl			ig (m)	UNDER	(: 2 L1 t	o.3m	, 2 R1 5	5.2M							
Posted: Lane NB On Bridge (m)			50 1	A 1		() ( ( ) ( )			0.0		D:1 ( )	<b>5</b> 0		() ( ( ) ) ( )	
			5.2	n Advaı	nce (	(Y/N)	Yes	Lane	SB	C	n Bridge (m)	5.3	In Advance	(Y/N) Yes	
Remarks  Cingle							<u> </u>				_				
Required Load Posting (t)			Single					Semi			Truck Train				
Posted Loading (t)			Single					Semi			Truck Train				
	ane	EB		At Junction (Y/N					In Advance (Y/N)				ridge (Y/N)		
	_ane	WB At Ju			tion (Y/I	N)		In Advance (Y/N)			At Bi	ridge (Y/N)			
Remarks															
Hazard Marker At	Bridg	ge (Y/N)	No												
Remarks															
Other Sign Types						1114			. 1 . 4						
Litility Attack as and						Ut	ilities (l	Locat	ed at)						
Utility Attachment	S							0							
Telephone								Gas							
Power									icipal	/N IN	\ I -				
Others								Proc	olem (Y/	'N)  I	No				
Remarks							A 10 10 10 0	ah D							
						.ast	Approa Now		ા lanatior	o of C	ondi	tion			
Horizontal Alignm	ent					<u>.αδι</u> 5	5		es to W		Jilul	uon			
						5	5	Vert	ical cres	st curv	/e - li	mited sight			
Vertical Alignment					3	dista	ance - ty	/pical	G/S.						
Roadway Width (m) 10.000															
Approach Bump				7	7	-									
Guardrail (Y/N)															
Guardrail						7	7								
Length (m)			53.000												
Current Standar		N)	Yes												
Termination Typ	ре		TURNE	D DOW	V										
Drainage						7	7								
Approach Road	Geno	ral Ratio	n			5	5	+							
Approach Nodu	Jene	rai Nauil	ਬ			3									
								_							

Bridge Component							Supers	tructure
Special Feature	Bridge Comp	onent						
X			ns, Leng	gths(m	n): 13.7-28-28			•
Type :   Special Feature	Special Feat	ures						
Special Feature							Х	
Type :   Wearing Surface/Deck Top Detail Ratings	(Type:)					<u>'</u>		
Wearing Surface	Special Feature						Х	
Wearing Surface	(Type:)							
N (%)   1 (%)   2 (%)   3 (%)   N		ace/Deck Top	Detail F	Ratings				
Last   0						3 (%)		
Wearing Surface	Last			)			0	
Wearing Surface	Now	5.0	0.	0	0.0	C	0.0	
(Material Type : CONCRETE)         (Thickness(mr) : 50)           Lateral Connection Problem (Y/N)         N         N           Deck Top         N         N           Deck Rideability         7         7           Deck Rideability         7         7           Temperature (deg, C)         -3         Leakage at abuts; icing on abut elements.           (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))         (Fixed Type :)           (Sap Size (mm)         Gap Location         86           86         E. abut         82           82         W. abut         Joint moisture affects abuts & undermines slope protection.           Deck Drainage         7         7           Deck Drainage         7         7           Orains Clogged (Y/N)         No         Joint moisture affects abuts & undermines slope protection.           Curbs/Median         7         7           (Curb Type : Standard)         Scaling (Percent Area)         5           Scaling (Percent Area)         0         5           Type : GALVANIZED STEEL VERTICAL BAR)         8           Bridge Rail         7         7           Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED STEEL VERTICAL BAR         8           <	Wearing Surfa		<u>'</u>			7	7	
Chickness(mm) : 50			ETE)					
Lateral Connection Problem   No   No		•	/					
Deck Top								
Deck Rideability 7 7 7  Deck Joints 7 7  Temperature (deg. C) -3  (Expansion Type: GLAND (WABO-MAUER, TRANSFLEX, ETC))  (Fixed Type:)  Gap Size (mm) Gap Location 86 E. abut 82 W. abut 9  Deck Drainage 7 4 7  Drains Clogged (V/N) No 9  Deck Drainage 8 7 4 7  Drains Clogged (V/N) No 9  Deck Drainage 9 7 7 7  (Curb Type: Standard) 8  Scaling (Percent Area) 0 9  Bridge Rail Posts 7 7  (Type: GALVANIZED STEEL VERTICAL BAR) 8  Bridge Rail Posts 7 7  (Type: GALVANIZED POST STEEL;GALVANIZED POST STEEL; GALVANIZED POST STEEL; GALVANIZED SIdewalk X X  Girder Detail Ratings 8  N (count) 1 (count) 2 (count) 3 (count) 1  Last 0 0 0 0 0  Now 0 0 0 0 0  Girders 5 5 5  High load damage scraps & chips on Sidel, 7  Salling (Percent Area) 1	(Y/N)							
Deck Joints 7 7 Temperature (deg. C) -3 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type : ) Gap Size (mm)  86	Deck Top				N	N		
Deck Joints 7 7 Temperature (deg. C) -3 (Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC)) (Fixed Type : ) Gap Size (mm)  86								
Temperature (deg. C)	Deck Rideabi	lity				7	7	
(Expansion Type : GLAND (WABO-MAUER, TRANSFLEX, ETC))  (Fixed Type : )  Gap Size (mm)  86						7	7	Leakage at abuts; icing on abut elements.
Fixed Type :	Temperatur	e (deg. C)	-:	3				
Gap Size (mm)   Gap Location	(Expansion	Type : GLAN	D (WAE	BO-MA	UER, TRANS	SFLEX,	ETC))	
E. abut	(Fixed Type	:)						
Deck Drainage	Gap Size (mm) Gap Location				ocation			
Deck Drainage 7 4 75mm dia retrofit drain @ SE & NE.  Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0 5-A/B's @ back of assemblies @ N & 3 - A/B's @ S - have 1/4 less than entire bolt into nut.  Bridge Rail 7 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)  Bridge Rail/Posts Coating 5 5 5 (Type : GALVANIZED)  Sidewalk X X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count)  Last 0 0 0 0 0  Girders 5 5 5  Cracking (Y/N) Yes  Spalling (Percent Area) 1	86	E. abut						
Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0  Bridge Rail 7 7 7 (Type : GALVANIZED STEEL VERTICAL BAR) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 5 5 (Type : GALVANIZED)  Sidewalk X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count) Last 0 0 0 0 Now 0 0 0 0  Girders 5 5 Cracking (Y/N) Yes  Spalling (Percent Area) 1	82 W. abut							
Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0  Bridge Rail 7 7 7 (Type : GALVANIZED STEEL VERTICAL BAR) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 5 5 (Type : GALVANIZED)  Sidewalk X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count) Last 0 0 0 0 Now 0 0 0 0  Girders 5 5 Cracking (Y/N) Yes  Spalling (Percent Area) 1								
Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0  Bridge Rail 7 7 7 (Type : GALVANIZED STEEL VERTICAL BAR) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 5 5 (Type : GALVANIZED)  Sidewalk X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count) Last 0 0 0 0 Now 0 0 0 0  Girders 5 5 Cracking (Y/N) Yes  Spalling (Percent Area) 1								
Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0  Bridge Rail 7 7 7 (Type : GALVANIZED STEEL VERTICAL BAR) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 5 5 (Type : GALVANIZED)  Sidewalk X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count) Last 0 0 0 0 Now 0 0 0 0  Girders 5 5 Cracking (Y/N) Yes  Spalling (Percent Area) 1								
Drains Clogged (Y/N) No Joint moisture affects abuts & undermines slope protection.  Curbs/Median 7 7 7 (Curb Type : Standard) Scaling (Percent Area) 0  Bridge Rail 7 7 7 (Type : GALVANIZED STEEL VERTICAL BAR) Bridge Rail Posts 7 7 (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL) Bridge Rail/Posts Coating 5 5 (Type : GALVANIZED)  Sidewalk X X  Girder Detail Ratings  N (count) 1 (count) 2 (count) 3 (count) Last 0 0 0 0 Now 0 0 0 0  Girders 5 5 Cracking (Y/N) Yes  Spalling (Percent Area) 1								
Curbs/Median	Deck Drainag	ıe				7	4	
Curb S/Median         7         7           (Curb Type : Standard)         Scaling (Percent Area)         0           Bridge Rail         7         7           (Type : GALVANIZED STEEL VERTICAL BAR)         A/B's @ back of assemblies @ N & 3 - A/B's @ S - have 1/4 less than entire bolt into nut.           Bridge Rail Posts         7         7           (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED POST STEEL;GALVANIZED)         Sidewalk         X         X           Bridge Rail/Posts Coating (Type : GALVANIZED)         X         X         X           Sidewalk         X         X         X           Girder Detail Ratings         X         X           Isast         0         0         0           Now         0         0         0           Girders         5         5         5           Cracking (Y/N)         Yes         Yes           Spalling (Percent Area)         1         High load damage scraps & chips on Sign 1,7.	Drains Clog	ged (Y/N)	N	10				Joint moisture affects abuts & undermines slope protection.
Curb Type : Standard    Scaling (Percent Area)   0       Bridge Rail   7   7   5-A/B's @ back of assemblies @ N     (Type : GALVANIZED STEEL VERTICAL BAR)     Bridge Rail Posts   7   7     (Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)   Bridge Rail/Posts Coating   5   5     (Type : GALVANIZED)     Bridge Rail/Posts Coating   5   5     (Type : GALVANIZED)     Sidewalk   X   X     Girder Detail Ratings   N (count)   1 (count)   2 (count)   3 (count)     Last   0   0   0   0     Now   0   0   0   0     Girders   5   5     Cracking (Y/N)   Yes     Spalling (Percent Area)   1						7	7	
Scaling (Percent Area)   0	(Curb Type	: Standard)						
Spalling   Spalling			0					
Count   Coun		<i></i> ,				7	7	5-A/B's @ back of assemblies @ N
Bridge Rail Posts		VANIZED ST	EEL VE	ERTIC	AL BAR)	,		& 3 - A/B's @ S - have 1/4 less than
(Type : GALVANIZED POST STEEL;GALVANIZED POST STEEL)         Bridge Rail/Posts Coating       5       5         (Type : GALVANIZED)         Sidewalk       X       X         Girder Detail Ratings         N (count)       1 (count)       2 (count)       3 (count)         Last       0       0       0         Now       0       0       0         Girders       5       5       High load damage scraps & chips on S3G1,7.         Spalling (Percent Area)       1       S3G1,7.						7	7	entire doit into nut.
Bridge Rail/Posts Coating   5   5	(Type : GAI		ST STI	EEL;G	ALVANIZED			
Cacking (Y/N)   Yes   Sidewalk   X   X   X   X   X   X   X   X   X	ŠŤĖEL)							
Sidewalk         X         X           Girder Detail Ratings         Sidewalk         X         X           Image: Control of the properties of	Bridge Rail/Posts Coating					5	5	
Spalling (Percent Area)   1 (count)   1 (count)   2 (count)   3 (count)   2 (count)   3 (count)   4 (count)   4 (count)   5 (count)   5 (count)   5 (count)   6								
N (count)   1 (count)   2 (count)   3 (count)	Sidewalk					X	X	
Last         0         0         0         0           Now         0         0         0         0           Girders         5         5         High load damage scraps & chips on S3G1,7.           Cracking (Y/N)         Yes         S3G1,7.	Girder Detail	Ratings						
Now         0         0         0           Girders         5         5         High load damage scraps & chips on S3G1,7.           Cracking (Y/N)         Yes         S3G1,7.		N (count)	1 (cour	nt)	2 (count)	3 (cou	ınt)	
Girders 5 5 High load damage scraps & chips on S3G1,7.  Spalling (Percent Area) 1	Last	0	0	)	0		0	
Cracking (Y/N) Yes S3G1,7.  Spalling (Percent Area) 1	Now	0	0	)	0		0	
Cracking (Y/N) Yes S3G1,7.  Spalling (Percent Area) 1	Girders					5	5	High load damage scraps & chips on
Spalling (Percent Area) 1	Cracking (Y	/N)	Y	'es				S3G1,7.
			1					
(· · · · · · · · · · · · · · · · · · ·	-							

				tructure
Bridge Component		Last		Explanation of Condition
(Primary Span : FC, 4 Spans, Le	ngths(m): 13.7-28-28-	-13.7, <i>I</i>	4-Ident	Number: )
Diaphragms/Cross Frame		7	7	
Bearings		6	6	
Temperature (deg. C)	-3			
(Expansion Type : REINFORC TEFLON AND STAINLESS ST	ED NEOPRENE BEAR 'EEL)	RING W	/ITH	
(Fixed Type : PINNED BEARIN	IG)			
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			
Deck Underside		6	6	
Stains (Percent Area)	1			
Span Alignment Problems				
Vertical (Y/N)	No			
Horizontal (Y/N)	No			
Superstructure General Rating		5	5	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	Icing on seats, backwalls, breastwalls & slope protection.
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
Piles		N	N	
Paint/Coating		Х	X	
Abutment Stability		7	7	
Scour/Erosion		Х	X	
Piers/Bents				
(Type : <b>PIER-COLUMN</b> )			_	
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
(Total Number of Bearing Piles :	0:0:0)			
Pier Shaft/Piles		7	7	
Bracing/Struts/Sheathing		Х	X	
Nose Plate		Х	X	
Paint/Coating		Х	Х	
(Colour Description : )				
(Colour Code : )				
Pier Stability		7	7	
Scour		Х	Х	
Debris (Y/N)	No			
Substructure General Rating		7	7	

		S	Structu	re Usage
		Last	Now	Explanation of Condition
Grade Separation			_	
Road Alignment		9	9	
Traffic Safety Features		7	7	
Туре	GUARDRAIL			
Slope Protection		3	3	Slope protection separated from abuts
(Type : CONCRETE; CONCRETE)				- E. 80 mm & W. 70 mm. Btm 2m @ W&E breaking up & lifted-lesser extent on West. Top of East slope protection is sloping towards abutment, runoff ponding.
Bank Stability		6	4	Concrete slope jammed against pier columns.
Drainage		7	7	
Grade Separation General Rati	ng	6	4	

		Maintenance Recommendations	mendations				
Inspector Recommendations	Year	Inspector Comments	Department Comments	nments	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	Consider sealed joint sor add breastwall plumbing to protect slope.					
RESET/ PAINT BEARINGS							
WASHING							
SHOTCRETE REPAIRS							
REPAIR ABUTMENT SCOUR/EROSION	NOIS						
PLACE ADDITIONAL RIP RAP							
REMOVE DRIFT ACCUMULATION							
OTHER ACTION	2013	Repair sections of concrete slope protection; consider toe wall & improved drainage at toe too.	on; loe				
OTHER ACTION							
OTHER ACTION							
OTHER ACTION							
Structural Condition Rating (Last/Now)	Vow) 66.7/66.7	6.7 Sufficiency Rating (Last/Now)	64.6/62.1	Est. Repl. Yr 2034	Maint. Reqd. (Y/N)		Yes
Special Comments for Next Inspection			Department Comments				
Maintenance Reviewed By			Date		<b>Estimated Total</b>	0	
Proposed Long-Term Strategy	Chip seal by 2	Chip seal by 2018. Rehab/replace by 2040. RS					
On 3-Year Program (Y/N)	>						
Proposed Action	Seal deck in 2009/10.RS	2009/10.RS					
Previous Inspector's Name	Owen Salava		Previous Assistant's Name				
Next Inspection Date	22-Nov-2014	Prev	Previous Inspection Date	13-Jul-2011			
Inspection Cycle (Default) (months)	21						
Comment							

				Maint	enance Red	commend	lations						
Inspector Recommendations	Ye	ear	Inspecto	r Comments			Department C	Comme	nts		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	20	)13	Consider plumbing	sealed joint so to protect slop	r add breast e.	wall	when next on	site			2014		
RESET/ PAINT BEARINGS													
WASHING													
SHOTCRETE REPAIRS													
REPAIR ABUTMENT SCOUR/EROSION													
PLACE ADDITIONAL RIP RAP													
REMOVE DRIFT ACCUMULATION													
OTHER ACTION			Repair sections of concrete slope p consider toe wall & improved draina too.			otection; ge at toe	; when next on site				2014		
OTHER ACTION													
OTHER ACTION													
OTHER ACTION													
Structural Condition Rating (Last/N (%)	ow) 66	5.7/66.7		Sufficiency Ra (%)	ating (Last/I	Now)	64.6/62.1	Es	t. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Special Comments for Next Inspection	·					·	Department Comments	Bridge	e tentatively scl	neduled f	or replacement	in 2039 (P	MA)
Maintenance Reviewed By	John Umla	lah					Date	01-Ma	y-2013		Estimated Total	0	
Proposed Long-Term Strategy	Chip seal	by 20°	18. Reha	b/replace by 20	40. RS								
On 3-Year Program (Y/N)	Υ												
	Seal deck	k in 200	09/10.RS										
Previous Inspector's Name	Owen Sal	lava				Previous	Assistant's Nar	ne					
Next Inspection Date	22-Nov-20	014				Previous	Inspection Date	e	13-Jul-2011				

Bridge Inspection 8	Maintenance S	vetom	(Mah 20	05)
bridge mspection d	x Maintenance S	ystem i	(VVED ZU	UO)

Alberta Transportation

75725 -1 Bridge

Inspection Cycle (Default) (months)	21
Comment	