Bridge File Number 81351 - 1 Bridge Form Type PSR Year Built/Year Supstr 1990/1990 Lot No. 2 Bridge or Town Name VERMELION Inspector Name Jason Saly Located Over 41:20 R1 1.691;41:20 L1 1.693 BR CLS A Assistant Name BR CLS A Located Over 41:20 R1 1.691;41:20 L1 1.693 Assistant Name BR CLS A Navigabil. CL/Year NUNCIPAL Assistant Class BR CLS A Navigabil. CL/Year SE SEC 31 TW P50 RGE 6 W4M Inspector Date 28-Nov-2012 Data Entry Date Entry Date Entry Date Entry Date Class John O'Brien Road Authority Alberta Transportation (AIT) Review Rame John O'Brien Review Date Andrew Smikles Clar Roadway/Skew 10 / Image Sec Sec Sec Sec Sec Sec Sec Sec Sec Se							:	Bridge li	nspe	ction							
Superior Inspector Name Jason Saly BR CLS A Located Over 4120 R1 1.691,41:20 L1 1.693 Assistant Class BR CLS A Located Over 4120 R1 1.691,41:20 L1 1.693 Assistant Class BR CLS A Maria Pody CLArear Assistant Class BR CLS A Assistant Class Located On MUNICIPAL Assistant Class BR CLS A Located CLArear Assistant Class BR CLS A Assistant Class Located CLArear MuNICIPAL Assistant Class BR CLS A Longitude, Latitude 110:51:32,53:21:10 Review Park Class Review Rikes Date Entry Date Class Review Rikes Class Adarbatity Abbrat Transportation (AIT) Review Park Adverwer Wikes Adverwer Wikes Adverwer Wikes Class Advanchity Abbrat Transportation (AIT) Review Park Adverwer Wikes Adverwer Wikes Adverwer Wikes Destar Loading: CS750 Train CS3 22 > On Critical Spans Posted VertiClearance Posting (m) UNDER: 11 15 .4m Semi Track Train Posted Verticlearance Posting (m)<	Bridge File Numb	ber	8135	1 -1 Bridge									PSR				
Bridge of Town Name VERMULON Inspector Class BR CLS A Located Onver 41:20 R1 1.691.41:20 L1 1.893 Assistant Name BR CLS A Mutor Class MUNC/Year Assistant Class BR CLS A Water Body CL/Year MUNC/Year Assistant Class BR CLS A Legal Land Location SE SEC 31 TWP 50 RGE 6 W4M Data Entry By Marcia Chavez Legal Land Location SE SEC 31 TWP 50 RGE 6 W4M Data Entry Date 15-Len-2013 Legal Land Location SE SEC 31 TWP 50 RGE 6 W4M Data Entry Date 14-Dec-2012 Cere Roadway/Skew 16/ Dept. Reviewer Name John O'Brien Road Authority Aborat Transportation (AIT) Review Date 17-Jan-2013 Cere Roadway/Skew 16/ Dept. Reviewer Name Andrew Smikles Destor Length (Nm) 1 Dept. Review Pate 17-Jan-2013 Required Vert. Clearance Posting (m) UNDER: 41 L1 5.4m, 41 R1 5.4m Yes Yes Lane S on Bridge (m) 5.3 In Advance (Y/N) Yes Posted Loading (t) Single Semi Truck Train Revested Loading	Year Built/Year			v									2				
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Lecated On MUNICIPAL Assistant Valme Valer Body CL/Vear Valer Body CL/	U																
Water Body CL/Year Assistant Class Inspection Date 28-Nov-2012 Navigabil, CL/Year Inspection Date 28-Nov-2012 Inspection Date 28-Nov-2012 Longitude, Latitude 110-51:32, 53:21:10 Reviewer Name John OBrien Road Authority Alberta Transportation (AIT) Reviewer Name John OBrien Contract Main, Area CMA15 Dept. Review Date 14-Dec-2012 Contract Main, Area CMA15 Dept. Review Date 17-Jan-2013 Clasr Roadway/Skew 10 / Dept. Review Date 17-Jan-2013 ADT/Year ES0 / 2011 (E) Follow-Up By Inspection Date 28-Nov-2012 Required Vent. Clearance Posting (IN) Value Posting Information >> On Critical Spans Posted Vertical Glearance (VN) Yes Lane IS And Anonce (V/N) Yes Lane IS And Anonce (V/N) Posted User Clearance Posting (I) Single Semi Track Train Posted Posted User Clearance (VN) Yes Semi Truck Train Posted Posted Lane IE Ar Junction (V/N) No In Advance (V/N) No At Bridge (V/N) Posted Lane IC Beart Ar Bridge (VN) No In Advance (V/N) No In Advance (V/N) Posted: Lane WB				,	1:20 L1 [·]	1.693			· · · · · · · · · · · · · · · · · · ·								
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Clear Roadway/Skew 10 / Dept. Review Date And review Date Train Clear Roadway/Skew 17-Jan-2013 ADDT/Year 650 / 2011 (E)						T)							14-Dec-2012	2			
Clear Roadwa/Skew 10 / Dept. Review Date 17-Jan-2013 AADT/Year 650 / 2011 (E) Follow-Up By Follow-Up By Detour Length (km) 1 Follow-Up By Follow-Up By Design Loading: CS 1 28 Semi CS2 49 Train CS3 62 > On Critical Spans Posted Length (km) 1 Vertical Clearance Posting (m) UNDER: 41 L1 5.4m, 41 R1 5.4m Train > On Critical Spans Posted Vert. Clearance Y(N) Yes Lane N Montage (m) 5.3 In Advance (Y/N) Yes Posted Vert. Clearance Y(N) Yes Lane Semi Truck Train > Posted Load Opsting (t) Single Semi Truck Train > > Posted Load Opsting (t) Single Semi Truck Train > > Posted Learance (Y/N) No In Advance (Y/N) No In Advance (Y/N) No At Bridge (m) No Posted Load Op (t) Single Semi Truck Train	Contract Main. Area CMA15					-			ot. Revie	ewer N	ame	Andrew Smi	kles				
Read Classification RLU-208-110 Follow-Up By Detour Length (m) 1 Image: Train CS3 62 > On Critical Spans Allowable Load (it): Single CS1 28 Train CS3 62 > On Critical Spans Design Loading: CS750 > Primary Span > Primary Span > Primary Span Required Vert. Clearance Posting (m) UNDER: 41 L1 5.4m, 41 R1 5.4m Train CS3 62 > Primary Span Posted: Lane N On Bridge (m) 5.3 In Advance (Y/N) Yes Posted: Lane N Semi Truck Train Prove Posted: Lane EB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N) No Remarks Lane WB At Junction (Y/N) No In Advance (Y/N) No At Bridge (Y/N) No Remarks In center of Town of Vermilion, utilities present. Conduit or (I, No in use. Image: No in use.	Clear Roadway/Skew 10 /					F											
Read Classification RLU-208-110 Detour Length (km) 1 Train CS3 colspan="2">->> On Critical Spans Design Loading: CS750 Posting Information Posted Vent: Clearance Posting (m) UNDER: 41 L1 5.4m >> Primary Span Posted Vent: Clearance (Y/N) Yes Posted Vent: Clearance Posting (m) UNDER: 41 L1 5.4m >> Primary Span Posted Vent: Clearance Posting (m) Venter Venter >> Primary Span Posted: Lane SB On Bridge (m) 5.3 In Advance (Y/N) Yes Required Load Posing (t) Single Semi Truck Train Posted: Lane SE On Bridge (m) 5.3 In Advance (Y/N) No Required Load Posing (t) Single Semi Truck Train Colspan="2">Colspane </td <td>AADT/Year</td> <td></td> <td>650 /</td> <td>2011 (E)</td> <td></td> <td></td> <td></td> <td></td> <td><u> </u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	AADT/Year		650 /	2011 (E)					<u> </u>								
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Description Single Semi Truck Train Posted Loading (t) 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 Hazard Marker At Bridge (Y/N) No In Advance (Y/N) No At Bridge (Y/N) No Remarks Utilities (Located at) Utilities (Located at) Utility Attachments Street lighting. Street lighting. Other Sign Types Utilities present, conduit under (r/L) No Street lighting. Street lighting. Others CNR railway overpass 25m to South. Problem (r/L) No No Remarks In center of Town of Vermilion, utilities present, conduit under (r/L) No Street lighting. Others CNR railway overpass 25m to South. Problem (r/L) No No Vertical Alignment 7 7 Cocal urban traffic to cross over Hwy 41 below, curves both directions. Adjacent CNR overpass is file 79442. Approach Bump 7 7 7 7 rd	Remarks	Advan	ce się	gns located	at 75m or	n SB la	ne &	120m o	n NB	lane. N	B atta	ched	to RR bridge.				
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Interaction (model into an interaction of the second of t	Posted:	Lane	E	В	At Junc	tion (Y	Y/N) No		In Advance (Y/N)		No	At Br	3ridge (Y/N) No				
No Remarks Utilities (Located at)	Posted:	Lane	N	/B	At Junc	tion (Y	7/N)	No			No	At Br	idge (Y/N)	No			
Will View of the second secon	Remarks																
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Utilities (Located at) Utilities (Located at) Utility Attachments Gas Telephone Municipal Street lighting. Power 9 wire O/H crosses 10m East of c/l. Municipal Street lighting. Others CNR railway overpass 25m to South. Problem (Y/N) No Approach Road Total alignment Guard	Remarks																
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Remarks In center of Town of Vermilion, utilities present, conduit under c/l. Not in use. Approach Horizontal Alignment 7 7 7 Colar urban traffic to cross over Hwy 41 below, curves both directions. Adjacent CNR overpass is file 79442. Roadway Width (m) 9.400	Power	9 wire	O/H	crosses 10m	East of	c/l.		Municipal			Street lighting.						
Approach Road Last Now Explanation of Condition Horizontal Alignment 7 7 Vertical Alignment 8 8 Roadway Width (m) 9.400	Others	CNR r	ailwa	y overpass 2	25m to So	outh.				Problem (Y/N) No							
Image: body with the sector of the sector	Remarks	In cent	ter of	Town of Ve	rmilion, u	tilities p					Not in	use.					
Horizontal Alignment777Local urban traffic to cross over Hwy 41 below, curves both directions. Adjacent CNR overpass is file 79442.Roadway Width (m)9.400						1			1								
Vertical Alignment 8 8 directions. Adjacent CNR overpass is file 79442. Roadway Width (m) 9.400									· ·								
Vertical Alignment 8 8 Adjacent CNR overpass is file 79442. Roadway Width (m) 9.400	v						-	-			n traffic	c to cr	oss over Hwy	/ 41 b	elow, curves	both	
Approach Bump 7 7 away. Curb & gutter. Guardrail (Y/N) Yes (Missing 1 transition bolt at SW. 16Aug2009). Guardrail N 5 Length (m) 19.000	Vertical Alignmer	nt					8	8			NR ov	erpas	s is file 79442	2.			
Approach Bump Y Y Guardrail (Y/N) Yes (Missing 1 transition bolt at SW. 16Aug2009). Guardrail N 5 Length (m) 19.000	Roadway Width (m)		9.400									ly due to tape	ers an	d street wide	ens furth	ner
Guardrail N 5 Length (m) 19.000 Current Standard (Y/N) Yes Termination Type Turned Down Drainage N N Snow covered.	Approach Bump						7	7	awa	ay. Curb	& gut	ter.					
Guardrail N 5 Length (m) 19.000	Guardrail (Y/N)			Yes					(Mis	ssing 1 t	transiti	on bo	lt at SW. 16A	ug20	09).		
Current Standard (Y/N) Yes Termination Type Turned Down Drainage N N Snow covered.	Guardrail						Ν	5	Enc	as are sr	now co	overed	J.				
Termination Type Turned Down Drainage N N Snow covered.	Length (m)			19.000)												
Drainage N N Snow covered.	Current Standa	rd (Y/N	V)	Yes													
	Termination Ty	ре		Turneo	d Down												
Approach Road General Rating 7 7							Ν	N	Sno	ow cover	red.						
Approach Road General Rating 7 7	A	0		- 11			_	-									
	Approach Road	Gene	ral Ra	ating			7	7									

Alberta Transportation

						tructure
Bridge Comp	onent			Last	Now	Explanation of Condition
(Primary Spar	n : CBC, 2 Sp	ans, Lengths	(m): 22-22, A·	Ident I	Numbe	r:)
Special Feat	ures					
Special Featu	ire				Х	Concrete Stairs.
(Type :)						Beside wingwall @ SE & SW.
Special Featu	ire				Х	Concrete Retaining Wall.
(Type:)				-		Sidewalk in G/S under bridge.
Wearing Surfa	ace/Deck Top	Detail Ratings	5			
	N (%)	1 (%)	2 (%)	3 (%)		
Last	100	0	0		0	Show covered
Now	100.0	0.0	0.0	().0	Snow covered.
Wearing Surfa		1		N	N	
(Material Ty						
(Thickness(· · · · · · · · · · · · · · · · · · ·					-
Lateral Conne	. , ,	n No				
(Y/N)						
Deck Top				N	N	
Deck Rideabi	lity			7	7	
Deck Joints	-				2	
		40		N	3	Gland general covered in dirt & snow. 300mm tear in gland of E abut jnt.
Temperatur		-13				
· · · ·		D (WABO-MA	UER, IRANS	FLEX,	EIC))	-
(Fixed Type						-
Gap Size (n	nm)		ocation			
90			abutment			-
83		East a	butment			-
						-
						-
						-
Deck Drainag	le			4	4	No deck drains except for weep tubes under ACP in both gutters. 12
Drains Clog	iged (Y/N)	No				weep tubes broken off @ both ends.
Curbs/Mediar	1			N	N	(Plow scrapes. Leakage through curb. 16Aug2009). Vertical cracks
(Curb Type	: Standard)					on curb exterior at all bridgerail post locations. 1% aggregate spalls.
Scaling (Pe	rcent Area)	1				
Bridge Rail				7	7	
	LVANIZED ST	FEEL BRIDGE	TUBE)			
Bridge Rail Po			,	4	N	Missing bolts on 3 post/cap connections; missing 1 bolt @ each of
		OST STEEL;G	ALVANIZED	POST		two posts in S side & 2 bolts in 1 post (NE) in N side. Could not view base plates or hardware.
Bridge Rail/Po	osts Coating			7	7	
(Type : GAI	LVANIZED)					
Sidewalk				N	N	(1245mm vertical slat railing system on sidewalk. Trans. cracks in concrete sidewalk. 16Aug2009) - Snow covered.
Girder Detail	Ratings					
	N (count)	1 (count)	2 (count)	3 (coi	unt)	
Last			0		1	
Now	0	0	0		1	

Alberta Transportation

			Supers	
Bridge Component				Explanation of Condition
(Primary Span : CBC, 2 Span	s, Lengths(m): 22-22, /	\-Ident I	Numbe	r:)
Girders		3	3	S2G10 patching failed.
Cracking (Y/N)	No			S1G11 & S2G11 both have high load damage chips, minor. S2G5-6,8-10 have up to 25mm deep high load damage.
Spalling (Percent Area)	1			(No exposed steel but G10 has 1m long wide cracking @ bottom
(Number Of Girders : 22)		_		Îlange @ point of impact. 16Aug2009). Could not confirm crack, even with binoculars, but rating carried
(forward.
				Some girders have been patched.
Diaphragms/Cross Frame		7	7	Cracks @ cast in place concrete @ diaphragm.
Bearings		8	8	
Temperature (deg. C)	-13		-	
(Expansion Type : REINFO	RCED NEOPRENE BEA		/ІТН	-
TEFLON AND STAINLESS	STEEL)			-
(Fixed Type : REINFORCEI TEFLON AND STAINLESS		3 WITH		
Coating Adequate (Y/N)	Yes			
Functioning (Y/N)	Yes			1
Deck Underside		7	7	
Stains (Percent Area)	0	-	,	
Span Alignment Problems	U C			
Vertical (Y/N)	No	_		
Horizontal (Y/N)	No	-		-
		2	2	
Superstructure General Rat	ing	3	3	
			Subst	ructure
Bridge Component		Last	Now	Explanation of Condition
Abutments				
Bearing Seats/Caps		7	7	
(Type : CONCRETE)				
Backwalls/Breastwalls		7	7	
Wingwalls		7	7	
wingwans		1	1	
Piles		N	N	Buried
		_		Buried
Piles Paint/Coating		N 7	N 7	Buried
		_		Buried
Paint/Coating		7	7	Buried
Paint/Coating Abutment Stability Scour/Erosion		7 7	7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents		7 7	7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN)		7 7 7 7	7 7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps		7 7	7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE)	s · 2)	7 7 7 7	7 7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile	s : 2)	7 7 7 7 7 7 7	777777	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile Pier Shaft/Piles	s : 2)	7 7 7 7 7 7 7	7 7 7 7 7 7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps	s : 2)	7 7 7 7 7 7 7	777777	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile Pier Shaft/Piles Bracing/Struts/Sheathing	s : 2)	7 7 7 7 7 7 7	7 7 7 7 7 7 7	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile Pier Shaft/Piles Bracing/Struts/Sheathing Nose Plate	s : 2)	7 7 7 7 7 7 7 7 7 X	7 7 7 7 7 7 7 7 X	Buried
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile Pier Shaft/Piles Bracing/Struts/Sheathing Nose Plate	s : 2)	7 7 7 7 7 7 7 7 X X X	7 7 7 7 7 7 7 7 X X X	
Paint/Coating Abutment Stability Scour/Erosion Piers/Bents (Type : PIER-COLUMN) Bearing Seats/Caps (Type : CONCRETE) (Total Number of Bearing Pile Pier Shaft/Piles Bracing/Struts/Sheathing Nose Plate Paint/Coating	s : 2)	7 7 7 7 7 7 7 7 X X X	7 7 7 7 7 7 7 7 X X X	

			Subst	ructure				
Bridge Component		Last	Now	Explanation of Condition				
Scour			X					
Debris (Y/N)	No		_					
Substructure General Rating			7					
			Structu	re Usage				
		Last	Now	Explanation of Condition				
Grade Separation								
Road Alignment		8	8					
Traffic Safety Features		7	7	Tube rail guardrail with galvanized I-beam posts in median.				
Туре	Guardrail			Galvanized railing on top of retaining wall used for sidewalk, typical both sides.				
Slope Protection		7	7	Cast-in-place concrete headslope slabs have moved up to 80mm E				
(Type : CONCRETE; CON				& 50mm W from breastwall.				
Bank Stability		7	7					
Drainage			N	(Municipal storm sewers in outer lane gutters. 16Aug2009).				
Grade Separation General	Rating	7	7					

				Maintenance Re	ecommend	ations					
Inspector Recommendations		Year	Year Inspector Comments			Department Com	ments	Target Year	Est. Cost	Cat #	
REPAIR/REPLAC	CE BRIDGE RAIL	2013	Replace	e missing post/cap bolts (4).							
GALVANIZE/PAII	NT BRIDGE RAIL										
SEAL CURBS		2013	Seal cu	rbs & sidewalk on regular cyc	cle.						
PATCH DECK											
SEAL DECK											
OVERLAY DECK											
REPAIR/REPLAC											
RESET/ PAINT B	BEARINGS										
WASHING											
SHOTCRETE RE	PAIRS										
REPAIR ABUTM	ENT SCOUR/EROSIC	DN									
PLACE ADDITIO	NAL RIP RAP										
REMOVE DRIFT	ACCUMULATION										
OTHER ACTION		2013	Replace	e broken weep tube drains (1	2).						
OTHER ACTION		2013	Repair o	or replace torn gland.							
OTHER ACTION											
OTHER ACTION											
OTHER ACTION											
	ition Rating (Last/No	ow) 55.6/5	5.6	Sufficiency Rating (Last/I (%)	Now) (61.3/61.3	Est. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Structural Cond		aired so no acti	on since d	(%)	Now) (Department Comments	Est. Repl. Yr	2034	Maint. Red	qd. (Y/N)	Yes
Structural Cond (%) Special Comments for	ition Rating (Last/No Assume girders repa Low rating remains o	aired so no acti	on since d	(%)	Now) (Department	Est. Repl. Yr	<u> </u>	Maint. Red		Yes
Structural Cond (%) Special Comments for Next Inspection	ition Rating (Last/No Assume girders repa Low rating remains o	aired so no acti	on since d	(%)	Now) (Department Comments	Est. Repl. Yr	<u> </u>			Yes
Structural Cond (%) Special Comments for Next Inspection Maintenance Rev	ition Rating (Last/No Assume girders repa Low rating remains o viewed By	aired so no acti	on since d	(%)	Now) (Department Comments	Est. Repl. Yr	<u> </u>			Yes
Structural Cond (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T	ition Rating (Last/No Assume girders repa Low rating remains o viewed By	aired so no acti	on since d	(%)	Now) (Department Comments	Est. Repl. Yr	<u> </u>			Yes
Structural Cond (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra	ition Rating (Last/No Assume girders repa Low rating remains o /iewed By Ferm Strategy am (Y/N)	aired so no acti	on since d	(%)		Department Comments	Est. Repl. Yr	<u> </u>			Yes
Structural Cond (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action	ition Rating (Last/No Assume girders repa Low rating remains o viewed By erm Strategy am (Y/N)	aired so no acti due to uncertai	on since d	(%)	Previous	Department Comments Date	Est. Repl. Yr	<u> </u>			Yes
Structural Cond (%) Special Comments for Next Inspection Maintenance Rev Proposed Long-T On 3-Year Progra Proposed Action Previous Inspector Next Inspection E	ition Rating (Last/No Assume girders repa Low rating remains o /iewed By erm Strategy am (Y/N) or's Name Date	aired so no acti due to uncertai	on since d	(%)	Previous	Department Comments Date		<u> </u>			Yes