2018 UPDATE BRIDGE INSPECTION REPORT



BRIDGE # 6290 TH 210 over OTTER CREEK

DISTRICT: District 1 **COUNTY: Carlton CITY/TOWNSHIP: TWIN LAKES**

STATE: Minnesota Date of Inspection:

12/03/2018

Reason for Update Report: Inspection & Inventory Item Updates

Equipment Used:

Owner: State Highway Agency

Inspected By: Rohling, Kevin

Report Written By: Kevin Rohling Report Reviewed By: Kevin Rohling

Final Report Date: 12/03/2018



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Minnesota Structure Inventory Report

Bridge ID: 6290 TH 210 over OTTER CREEK

+ GENERAL +	+ ROADWAY ON BRIDGE +	+ INSPECTION +
Agency Br. No.	Road Name MN 210	Structurally Deficient Y
District 01 Maint. Area 1A	Functional Class. 02 - Rural - Principal Arterial - Other	Functionally Obsolete N
County 009 - Carlton	ADT 4100 YEAR 2008	Sufficiency Rating 52.0
City	HCADT ADTT 15 %	Last Routine Insp Date 09/19/2017
Township 09017 - TWIN LAKES	National Highway System	Routine Insp Frequency 24
Desc. Loc. 0.2 MI W OF JCT TH 35 SB	Route Sys/Nbr 03 - MNTH / 210	Inspector Name Rohling, Kevin
Sect., Twp., Range 10 - 048N - 17W	Ref. Point (TIS) 215+00.813	Status A - Open
Latitude 46 d 39 m 48.74 s	Detour Length 7 mi.	Topon
Longitude -92 d 28 m 54.82 s	Lanes 4 Lanes ON Bridge	+ NBI CONDITION RATINGS +
Custodian 01 - State Highway Agency	Control Section (TH Only) 15	Deck N
Owner 01 - State Highway Agency	Function 1 - MAINLINE	Superstructure N
on State Highway Agency	Type 2 - 2-way traffic	Substructure N
Year Built 1930	Bridge Match ID 0	Channel 8
Date Opened to Traffic 9/1/1966	Roadway Key Route On Structure	Culvert 4
MN Year Remodeled 1965	Noute On Structure	T Suivert
FHWA Year Reconstructed	+ RDWY DIMENSIONS ON BRIDGE +	+ NBI APPRAISAL RATINGS +
Bridge Plan Location 0 - NO PLAN	FROW F DIMENSIONS ON BRIDGE +	+ NBI APPRAISAL RATINGS + Structure Evaluation 4
Potential ABC 2 - N/A	Roadway Width 35.00 ft 35.00 ft	Deck Geometry N
Potential ABC 2 - N/A	Vertical Clearance ft ft	1
+ STRUCTURE +		
3 .,		Approach Alignment 8
Service Under 5 - Waterway	Appr. Surface Width 100.0 ft	OAFETY FEATURES
Main Span Type 1 - Concrete	Bridge Roadway Width 0.0 ft	+ SAFETY FEATURES +
Main Span Design 13 - Box Culvert	Median Width On Bridge 30.00 ft	Bridge Railing N - NOT REQUIRED
Main Span Detail	MIGO DRIDGE DATA	GR Transition N - NOT REQUIRED
Appr. Span Type	+ MISC. BRIDGE DATA +	Appr. Guardrail 1 - MEETS STANDARDS
Appr. Span Design	Structure Flared 0 - No flare	GR Termini 0 - SUBSTANDARD
Appr. Span Detail	Parallel Structure N - No parallel structure	
Skew 0	Field Conn. ID	+ SPECIAL INSPECTIONS +
Culvert Type W1010D	Cantilever ID	Y/N Freq Date
Barrel Length 118		Frac. Critical
Number of Spans	Foundations (Material/Type)	Underwater
MAIN: 2 APPR: 0 TOTAL:	Abutment N - N/A	Pinned Asbly.
Main Span Length 10.0 ft	Pier N - N/A	
Structure Length 22.0 ft	Historic Status 5 - Not eligible	+ WATERWAY +
Deck Width (Out-to-Out) 0.0 ft	On - Off System 1 - ON	Drainage Area (sq mi)
Deck Material N - Not Applicable		Waterway Opening (sq ft) 180
Deck Installation Year	+ PAINT +	Navigation Control 0 - No nav. control on waterway
Wear Surf Type 6 - Bituminous	Year Painted	Pier Protection
Wear Surf Install Year	Painted Area sq ft	Nav. Cir. (ft) Vert. 0.0 Horiz. 0.0
Wear Course/Fill Depth 4.30 ft	Primer Type	Nav. Vert. Lift Bridge Clear. (ft)
Deck Membrane N - Not Applicable (applies only to	Finish Type	MN Scour Code E - CULVERT
Deck Rebars N - Not Applicable (no deck)		Scour Evaluation Year
Structure Area (Out-to-Out) 0 sq ft	+ BRIDGE SIGNS +	
Roadway Area (Curb-to-Curb) sq ft	Posted Load 0 - Not Required	+ CAPACITY RATINGS +
Sidewalk Width - L/R 0.00 ft 0.00 ft	Traffic 0 - Not Required	Design Load 2 - H 15
Curb Height - L/R 0.00 ft 0.00 ft	Horizontal 0 - Not Required	Operating Rating 2 - HS TRUCK 24.0
Rail Codes - L/R NN NN	Vertical N - Not Applicable	Inventory Rating 2 - HS TRUCK 18.0
		Posting VEH: SEMI: DBL:
		Rating Date 07/08/2013
		Overweight Permit Codes
		A: N B: N C: N

Notes: 2017- No Change

BRID	GE 6290 TH 210 OVER OTTER	CREEK							
Count	y: Carlton	Location: 0.2 MI	W OF JCT TH 3	5 SB	Length:		22.0 ft.		
City:		Route: 03 - MNTh	1 210 Ref. Pt.:	215+00.813	Deck Wid	lth:	0.0 ft.		
Towns	Township: 09017 - TWIN LAKES Control Section: 15					ea/ Pct. Ur	snd: sq. ft	/ %	
Sectio	Section: 10 Township: 048N Range: 17W Maint. Area: 1A				Paint Area/ Pct. Unsnd: sq. ft. / %				
Span ⁻ List:	Span Type: 1 - Concrete 19 - Culvert (includes Local Agency Bridge Nbr.:					W1010)D		
	eck: N Super: N Sub: N Ch	an: 8 Culv: 4			Postings:				
	oo Capo Capo		sted, Closed: A	v - Open					
		•	r Code: E - CUL	-					
Apprai	isal Ratings - Approach: 8 Waterway				Un	official Stru	acturally De	eficient	Υ
Requi	red Bridge Signs - Load Posting: 0 - Not R	equired	Traffic: 0 -	Not Required	ed Unofficial Functionally Obsolete				N
	Horizntal: 0 - Not R	equired	Vertical: N	 Not Applicable 	Un	official Suf	ficiency Ra	iting	52.0
ELEN NBR		REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4	
241	Reinforced Concrete Culvert	Update	12/03/2018	236 LF	0	186	50	0	
		Update	11/30/2018	236 LF	0	186	50	0	
	Notes: 2017-No Change	•							
800	2013/- The west barrel has a full section areas 2 - 6 in. deep with exposed rebation and 14 light to moderate cracks. The section of the sect	ar (picture 1). The eas South headwall, west	st barrel has a ful pipe, is scaled o	I section crack 1	/4 in. wide	. There is	24 LF of sp		
800	Chilical Deliciencies of Galety Flazards	Update Update	12/03/2018 11/30/2018	1 EA	1	0	0	0	
	Notes: 2017- Nothing time of inspecti	•	11/30/2016	7 27		Ü	Ü	Ü	
870	Culvert End Treatment	Update	12/03/2018	4 EA	2	2	0	0	
		Update	11/30/2018	4 EA	2	2	0	0	
	Notes: 2017-No Change								
	2015- The South headwall scaled 22' SW wing has 2 scale areas on the top					he SE wing	g has 1 dia	gonal cra	ack and the
871	Roadway Over Culvert	Update	12/03/2018	1 EA	1	0	0	0	
		Update	11/30/2018	1 EA	1	0	0	0	
	Notes: 2017/2015- No Change								
891	Other Bridge Signing	Update	12/03/2018	1 EA	1	0	0	0	
		Update	11/30/2018	1 EA	1	0	0	0	
	Notes: 2017- SE wing marker is bent								
	2015-No Change								
892	Slopes & Slope Protection	Update	12/03/2018	1 EA	1	0	0	0	
		Update	11/30/2018	1 EA	1	0	0	0	

BRIDGE 6290 TH 210 OVER OTTER CREEK									
ELEM NBR		MENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
893	Guardrail		Update	12/03/2018	1 EA	1	0	0	0
			Update	11/30/2018	1 EA	1	0	0	0
	Notes: 2017	- End treatments subs	standard down side of traf	fic					
	2015- No Ch	ange							
894	Deck & Approa	ch Drainage	Update	12/03/2018	1 EA	1	0	0	0
			Update	11/30/2018	1 EA	1	0	0	0
	Notes: 2017	- No Change							
900	Protected Spec	ies	Update	12/03/2018	1 EA	0	1	0	0
			Update	11/30/2018	1 EA	0	1	0	0
	Notes: 2017	- Nothing at time of in	spection						
	General Notes	Inspection Conduction 09/16/2013 Inspect 2015-9-14 Inspect 2017-9-19 Routine 2018-11-30 Updat ratings, maintenant	etion: G. Wright/ J. Loons eted By D.Rychlak/I.Schaaliton: G. Elmquist/ F. Andeion: D Rychlak/S Danielson D Rychlak/ J Zetah e D Rychlak/C Werner. Klace items and discretises on version was a second of the sections.	atz 09/13/11 erson, boat inspon walk thru inspon MR added notes with inspector.	ectio ection for NBI culvert		,	review of n	otes for eleme

2018-12-03 Update report KMR to restore photos from 2017 report.

58. Deck NBI:

36A. Brdg Railings NBI:

36B. Transitions NBI:

36C. Appr Guardrail NBI:

36D. Appr Guardrail End treatments exiting side substandard Terminal NBI:

59. Superstructure NBI:

60. Substructure NBI:

61. Channel NBI:

62. Culvert NBI: Repairs are necessary at construction joint area. Structural integrity is compromised with delamination, spalling and exposed

rusted rebar leaching and leakage. KMR 12-3-2018.

71. Waterway Adeq NBI:

72. Appr Roadway Alignment NBI:

Kevin Rohling	Kevin Rohling
Inspector's Signature	Reviewer's Signature

Pictures



Photo 1 -



Photo 2 -

Pictures



Photo 3 -



Photo 4 -