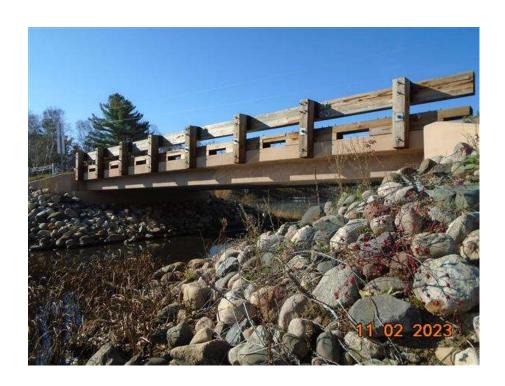
2023 ROUTINE BRIDGE INSPECTION REPORT



BRIDGE # 18533 DREAM ISLAND RD over CHANNEL LITTLE PINE LK

DISTRICT: District 3 COUNTY: Crow Wing CITY/TOWNSHIP: Cross Lake

STATE: Minnesota

Date of Inspection: 11/02/2023

Equipment Used: Life Jacket, Probing Rod, Other - Waders

Assisted by Ted Dullum

Owner: City or Municipal Highway Agency

Inspected By: Dosh, Wayne; Dullum, Ted

Report Written By: Wayne Dosh Report Reviewed By: Timothy Bray

Final Report Date: 01/16/2024



Inspector:Dosh,WayneStructure Number:18533Inspection Date:11/02/2023Facility Carried:M 24

Bridge Inspection Report

Minnesota Structure Inventory Report

Bridge ID: 18533

DREAM ISLAND RD over CHANNEL LITTLE PINE LK

+ GENERAL +	+ ROADWAY ON BRIDGE +	+ INSPECTION +
Agency Br. No. CITY34 Crew	Facility M 24	Last Routine Insp Date 11/02/2023
District 03 Maint. Area	LRS Functional Class 7 - Local	Routine Insp Frequency 24
County 018 - Crow Wing	ADT 49 YEAR 2016 Urban Code 99999	Inspector Name Dosh, Wayne
City Cross Lake	HCADT ADTT %	Status A - Open
Township	National Highway System 0	
Desc. Loc. 1.7 MI E OF JCT CSAH 6	LRS Mile Point I/D 2,078 / 2,078	+ NBI CONDITION RATINGS +
Sect., Twp., Range 10 137N - 27W	Speed Limit	Deck 8
Latitude 46.700311	Detour Length 99	Superstructure 8
Longitude -94.076317	Lanes 2 Lanes ON Bridge	Substructure 8
Custodian 04 - City or Municipal Highway Agency	Control Section (TH Only)	Channel 8
Owner 04 - City or Municipal Highway Agency	Function 1 - MAINLINE	Culvert N
Insp Responsibility Crow Wing County	Type 2 - 2-way traffic	
Year Built 2017	Bridge Match ID 1	+ NBI APPRAISAL RATINGS +
Date Opened to Traffic 11/13/2017	Roadway Key Route On Structure	Structure Evaluation 8
MN Year Remodeled	Route On Olitolare	Deck Geometry 5
FHWA Year Reconstructed	+ RDWY DIMENSIONS ON BRIDGE +	Underclearances N
Bridge Plan Location 3 - COUNTY	If Divided: NB-EB SB-WB	Waterway Adequacy 9
Potential ABC 2 - N/A	Roadway Width 20.0 ft ft	Approach Alignment 6
Fotential ABC 2 - N/A	Vertical Clearance ft ft	Approach Alignment 6
+ STRUCTURE +	Vertical Clearance π π π π π π π π π π π π π π π π π π π	+ SAFETY FEATURES +
Service On 1 - Highway	1101120111111 2010 11	Bridge Railing 1 - MEETS STANDARDS
Service Under 5 - Waterway	Appr. Surface Width 20.0 ft	GR Transition N - NOT REQUIRED
Main Span Type 5 - Prestress or Precast	Bridge Roadway Width 20.0 ft	Appr. Guardrail N - NOT REQUIRED
01 - Beam Span	Median Width On Bridge ft	GR Termini N - NOT REQUIRED
Main Span Detail		
Appr. Span Type No Approach Span	+ MISC. BRIDGE DATA +	+ SPECIAL INSPECTIONS +
No Approach Span	Structure Flared 0 - No flare	Y/N Freq Date
Appr. Span Detail	Parallel Structure N - No parallel structure	NSTM N
Skew 0	Field Conn. ID	Underwater N
Culvert Type	Cantilever ID	Pinned Asbly. N
Barrel Length		
Number of Spans	Foundations (Material/Type)	+ WATERWAY +
MAIN: 1 APPR: 0 TOTAL: 1	Abutment 1 - CONC 8 - INTEGRAL	Drainage Area (sq mi) 150
Main Span Length 46.0 ft	Pier N - N/A N - N/A	Waterway Opening (sq ft) 69
Structure Length 48.1 ft	Historic Status 4 - Not determinable	Navigation Control 0 - No nav. control on waterway
Deck Width (Out-to-Out) 22.0 ft	On - Off System 0 - OFF	Pier Protection
Deck Material 1 - Concrete Cast-in-Place		Nav. Clr. (ft) Vert. 0.0 Horiz. 0.0
Wear Surf Type 1 - Monolithic Concrete (concurrently placed with structural deck)	+ PAINT +	Nav. Vert. Lift Bridge Clear. (ft) 0.0
piaced with structural deck) Wear Surf Install Year 2017	Year Painted	MN Scour Code L - STBL - LOW RISK
Wear Course/Fill Depth 0.00 ft	Painted Sq ft	Scour Evaluation Year 2016
Deck Membrane 0 - None	Primer Type	Coodi Evaluation real 2010
Deck Rebars 1 - Epoxy Coated Reinforcing	Finish Type	+ CAPACITY RATINGS +
MN Rebar Coating EE	i illian Type	Design Load A - HL 93
Deck Install Year 2016	+ BRIDGE SIGNS +	Operating Rating 3 - HL-93 2.48
	Posted Load 0 - Not Required	Inventory Rating 3 - HL-93 1.25
Structure Area (Out-to-Out) 1060 sq ft	Traffic 0 - Not Required	Posting VEH: SEMI: DBL:
Roadway Area (Curb-to-Curb) 963 sq ft		l •
Sidewalk Width - L/R 0 0 ft	Horizontal 1 - Object Markers	Rating Date 05/18/2016
Curb Height - L/R 0 0 ft Rail Codes - L/R 55 55	Vertical N - Not Applicable	Overweight Permit Codes
		A: 1 B: 1 C: 1

BRIDGE 18533 M 24 OVER CHANNEL LITTLE PINE LK

11/05/2019: Approaches were paved spring 2018.

1.7 MI E OF JCT CSAH 6 County: Crow Wing Location: Length: 48.1 ft. City: Cross Lake Route: 10 - MUN 24 Ref. Pt.: 002+00.070 Deck Width: 22.0 ft. Township: Control Section: Rdwy. Area/ Pct. Unsnd: 963 sq. ft. / % Section: 10 Township: 137N Range: 27W Maint. Area: Paint Area/ Pct. Unsnd: sq. ft. / % Span Type: 5 - Prestressed Concrete 2 -Local Agency Bridge Nbr.: CITY34 Culvert: N/A Stringer/Multi-beam or Girder List: Postings: Culv: N NBI Deck: 8 Super: 8 Sub: 8 Chan: 8 Open, Posted, Closed: A - Open MN Scour Code: L - STBL - LOW RISK Appraisal Ratings - Approach: 6 Waterway: **Unofficial Structurally Deficient** Ν Required Bridge Signs - Load Posting: 0 - Not Required Traffic: 0 - Not Required Unofficial Functionally Obsolete Ν Horizntal: 1 - Object Markers Vertical: N - Not Applicable **Unofficial Sufficiency Rating** 93.6 **ELEM** QTY QTY QTY QTY NBR **ELEMENT NAME** REPORT TYPE INSP. DATE **QUANTITY** CS₁ CS₂ CS₃ CS₄ 12 Reinforced Concrete Deck 11/02/2023 1060 SF 1060 0 0 0 Routine 1060 SF 1060 0 0 0 Routine 11/03/2021 Notes: 11/02/2023: There are some minor transverse random cracks with minor leaching visible on the side of the deck and minor longitudinal cracks at deck ends. There are minor longitudinal cracks visible on the bottom of the deck following the rebar chairs. None of the cracks visible have any leaching or efflorescence. 11/03/2021: There are minor longitudinal cracks visible on the bottom of the deck following the rebar chairs. None of the cracks visible have any leaching or efflorescence. 11/05/2019: Like new. 510 - Wearing Surfaces Routine 11/02/2023 963 SF 963 n 0 Routine 11/03/2021 963 SF 963 0 0 0 Notes: 11/02/2023: The surface of the deck has minor unsealed transverse cracks across the deck and minor longitudinal cracks, 10' to 15' long, located at the roadway centerline over the abutments at both ends of the deck. 11/03/2021: The surface of the deck has minor longitudinal cracks, 10' to 15' long, located at the roadway centerline over the abutments at both ends of the deck. 11/05/2019: Like new. Prestressed Concrete Open 0 0 0 189 LF 189 109 Routine 11/02/2023 Girder/Beam 189 LF 189 0 0 0 11/03/2021 Routine Notes: 11/02/2023: No notable defects or deterioration. 0 0 0 215 Reinforced Concrete Abutment 11/02/2023 73 LF 73 Routine 0 0 0 73 LF 73 Routine 11/03/2021 Notes: 11/02/2023: No notable defects or deterioration. 0 99 LF 83 16 0 332 Timber Bridge Railing Routine 11/02/2023 11/03/2021 99 LF 99 0 0 0 Routine Notes: 11/02/2023: All of the rail posts have checks or shakes that penetrates 5% to 50% of the post thickness. 11/03/2021: Timber railing is in good condition. All connections are in place and functional. Timber railing does in fact measure 99 feet! 0 1 EA 0 0 Critical Deficiencies or Safety Hazards 1 800 Routine 11/02/2023 1EA 1 0 0 0 Routine 11/03/2021 Bituminous Approach Roadway 2 EA 0 2 0 0 822 Routine 11/02/2023 2 0 2 EA 0 0 Routine 11/03/2021 Notes: 11/02/2023 - 11/03/2021: Minor settlement has occurred at the abutments in the approaches. There is a bituminous patch present at the deck joint to prevent plows from catching the concrete deck.

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
855	Secondary Members (Superstructure)	Routine	11/02/2023	1 EA	1	0	0	0
		Routine	11/03/2021	1 EA	1	0	0	0
	Notes: 11/02/2023: Isolated minor cra	acks in the concrete d	iaphragms.					
885	Scour	Routine	11/02/2023	1 EA	1	0	0	0
		Routine	11/03/2021	1 EA	1	0	0	0
	Notes: 11/02/2023: No scour evident.							
891	Other Bridge Signing	Routine	11/02/2023	1 EA	1	0	0	0
		Routine	11/03/2021	1 EA	1	0	0	0
	Notes: 11/02/2023 - 11/03/2021: Object marker sign reflective sheeting sweeper. 11/05/2019: Object markers are mour Minnesota Manual on Uniform Traffic Comments.	has minor damage, s	uspect from beining and the botto	g initially installe m of the signs a	ed too low are inches	and damagabove the	ge was dor roadway pa	ne by the plow or a avement. The

Notes: 11/02/2023: Past eroded areas have been repaired with sewer rock. Slopes appear to be stable.

Routine

Routine

11/03/2021: Erosion behind the wing-walls appears to have stabilized. Erosion appears to have been initially caused by utility work in the area of the west wingwalls.

1 EA

1 EA

0

0

0

0

0

0

11/02/2023

11/03/2021

11/05/2019: Erosion occurring behind the wing-walls at the SW and NW corners. It appears the erosion was caused by utility work in the area of the wingwall.

893	Guardrail	Routine	11/02/2023	1 EA	1	0	0	0
		Routine	11/03/2021	1 EA	0	1	0	0

Notes: 11/02/2023: Repairs have been made. No notable damage or deterioration.

11/03/2021: The cable guardrail on the north side of the bridge has settled. Today the height to the center cable measures 14 inches, and should measure 24 inches. The SW cable has had a traffic impact bending over 2 posts in the middle of the run and the king post at the bridge in the SW run is leaning slightly to the south.

11/05/2019: Cable has now been installed on the south approach as well. Again none of the cable is attached to the bridge and the anchorage for the cable is installed just before the wing-walls. The SW cable has had a traffic impact bending over 2 posts in the middle of the run and the king post at the bridge in the SW run is leaning slightly to the south.

12/06/17: Cable guardrail installed on both sides of the north approach only. Guardrail is not attached to the bridge.

The cable rail in place with the original bridge on this site was installed to discourage snowmobilers from using the road embankment as a launch pad.

894	Deck & Approach Drainage	Routine	11/02/2023	1 EA	0	1	0	0
		Routine	11/03/2021	1 EA	0	1	0	0
	Notes: 11/02/2023 - 11/03/2021: Wa bridge seat.	ter is draining the mi	nor erosion behind t	the wingwalls	and throug	h the cork	joints, then	draining across th
899	Miscellaneous Items	Routine	11/02/2023	1 EA	1	0	0	0
		Routine	11/03/2021	1 EA	1	0	0	0
	Notes: 11/02/2023 - 11/03/2021: Utili	ty is attached to the	west bridge curb.					
900	Protected Species	Routine	11/02/2023	1 EA	0	1	0	0
		Routine	11/03/2021	1 EA	0	1	0	0
	Notes: 11/02/2023 - 11/05/2019: Nor	ne observed.						

General Notes: 11/02/2023: Water was about 2' deep. Inspected without waders or boat today.

11/03/2021 - 11/05/2019: Was able to wade beneath the bridge. Water depth in the channel is 2 - 2.5 feet deep today. 12/06/17: Bridge has opened to traffic on November 13th of 2017. Was able to walk beneath the bridge to inspect. Water is open beneath bridge today. Water depth in the channel under the bridge is 1-1.5 feet deep. Roadway approaches are gravel and will not be paved till spring.

The, "dummy" inspection was created by the MnDOT Bridge Office --- THIS IS NOT AN ACTUAL FIELD INSPECTION.

58. Deck NBI:

36A. Brdg Railings NBI:

892

Slopes & Slope Protection

BRIDGE 18533 M 24 OVER CHANNEL LITTLE PINE LK

ELEM NBR	ELEMENT NAME	REPORT TYPE	INSP. DATE	QUANTITY	QTY CS 1	QTY CS 2	QTY CS 3	QTY CS 4
36B. Tran	sitions NBI:							
36C. Appr Gu	uardrail NBI:							
36D. Ap Te	pr Guardrail erminal NBI:							
59. Superst	ructure NBI:							
60. Subst	ructure NBI:							
61. C	hannel NBI:							
62. (Culvert NBI:							
71. Waterwa	y Adeq NBI:							
72. Ap _l Aliç	pr Roadway gnment NBI:							
	Wayne Dosh				Tii	mothy Bra	ay	
	Inspector's Signature		_			ewer's Sign		















2. 11-02-2023 (102).JPG

8. 11-02-2023 (108).JPG





9. 11-02-2023 (109).JPG

10. 11-02-2023 (110).JPG





12. 11-02-2023

17. 11-02-2023







11. 11-02-2023 (111).JPG



13. 11-02-2023 (113).JPG



14. 11-02-2023

15. 11-02-2023 (115).JPG











16. 11-02-2023 (116).JPG



18. 11-02-2023 (118).JPG



19. 11-02-2023 (119).JPG

20. 11-02-2023 (120).JPG









21. 11-02-2023 (121).JPG



23. 11-02-2023 (123).JPG

28. 11-02-2023



(129).JPG

24. 11-02-2023

25. 11-02-2023 (125).JPG

26. 11-02-2023 (126).JPG



27. 11-02-2023





30. 11-02-2023







31. 11-02-2023 (131).JPG

32. 11-02-2023 (132).JPG

33. 11-02-2023 (133).JPG

34. 11-02-2023 (134).JPG

35. 11-02-2023 (135).JPG



Photo 1 - 11-02-2023 (101)



Photo 2 - 11-02-2023 (102)



Photo 3 - 11-02-2023 (103)



Photo 4 - 11-02-2023 (104)



Photo 5 - 11-02-2023 (105)



Photo 6 - 11-02-2023 (106)



Photo 7 - 11-02-2023 (107)



Photo 8 - 11-02-2023 (108)



Photo 9 - 11-02-2023 (109)



Photo 10 - 11-02-2023 (110)



Photo 11 - 11-02-2023 (111)



Photo 12 - 11-02-2023 (112)



Photo 13 - 11-02-2023 (113)



Photo 14 - 11-02-2023 (114)



Photo 15 - 11-02-2023 (115)

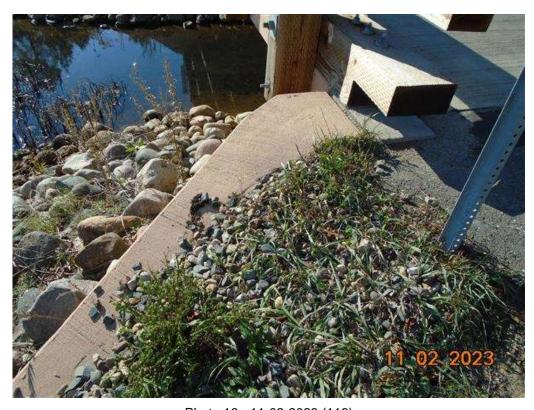


Photo 16 - 11-02-2023 (116)



Photo 17 - 11-02-2023 (117)



Photo 18 - 11-02-2023 (118)



Photo 19 - 11-02-2023 (119)



Photo 20 - 11-02-2023 (120)



Photo 21 - 11-02-2023 (121)



Photo 22 - 11-02-2023 (122)



Photo 23 - 11-02-2023 (123)



Photo 24 - 11-02-2023 (124)



Photo 25 - 11-02-2023 (125)



Photo 26 - 11-02-2023 (126)



Photo 27 - 11-02-2023 (127)



Photo 28 - 11-02-2023 (128)



Photo 29 - 11-02-2023 (129)



Photo 30 - 11-02-2023 (130)



Photo 31 - 11-02-2023 (131)



Photo 32 - 11-02-2023 (132)



Photo 33 - 11-02-2023 (133)



Photo 34 - 11-02-2023 (134)



Photo 35 - 11-02-2023 (135)