#3	Oneida (Co Sta	cks Ba	iy Red	ecking					
				Motorized Recreation Grant Application For: (choose all that apply) Form 8700-159 (R 02/2024)						
Due Date: April 15					 ☐ ATV/UTV Trail Aid Page ⊠ Snowmobile Trail Aid 					Page 1 of 5
Notice: Completion of this form is rec financial assistance. Personally identi Natural Resources (DNR) may provide	ifiable inforn	nation fo	ound on	this form	is not inter	ded to be	used for any other	nurnose	∍ The í	Department of
Instructions: Applications may combine more than one source of be submitted for consideration of traditional ATV, UTV, Snowmobile Stewardship funding. Submit one copy of all forms and attachments necessary attachments. Send applications to your <u>Community Serv</u>					unds. The and Moto See Pag	y may rized a 2 for		ONR Us		
Section 1: Applicant Information	on	C. C. L		100	NAME AND		TANK AND A PROPERTY		L.M.	Carl Million and Sta
Applicant / Organization Name					Check Recipient: Individual other than authorized individual to act on behalf of the applicant.					
Oneida County Forestry Depart	tment									
Individual Authorized to Act on Behalf of Applicant per Resolution			lution	Check Recipient Name (Name to Appear on Check)						
Eric Rady -					Eric Rad					
Title					Title					
Assistant Forestry Director					Assistant	Forestr	y Director			
Address					Address					
PO Box 400-Court House, 2nd	Floor, Ro	om # I	3206		PO Box 400-Court House, 2nd Floor, Room # B206					B206
City			ZIP Cod		City		itt 110030, 210 1	1001, 1		ZIP Code
Rhinelander		WI	545		Rhinelan	der	×		WI	54501
Telephone Number	E	mail A		<u> </u>	. cillionan					54501
(715) 369-6234 erady@oneidacount			county	wi.gov						
Section 2: Project Information I						NTV ale		real host		A REAL PROPERTY OF
Project Title						Current	Funded Miles	New M	iles (if a	applicable)
Redeck Stacks Bay Bridge						431.6				
County	Township	Range	ΘE	Section	1/4 1/4	1/4	GPS Coordinates			
Oneida	39 N	7	Őw	18	NW	NE	Long89.661			

Project Description Summary

The stacks bay bridge was built in 1988 on NHAL State Forest Lands over the Minocqua Thoroughfare. The wear course on this bridge was replaced back in 2009 and is currently in extremely poor condition and needs another wear course as soon as possible. This 184-foot by 10-foot wide wood bridge is on the main funded Trail 17 Corridor.

The project will consist of the old wear course being removed and hauled to a dump with a new 2" hardwood deck (likely white or red oak) installed to the sub-deck and screwed down with a 4-inch hex lag head.

I certify that all maintenance land use agreements are on file.

	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost		
			\$19,615.00		\$19,615.00		
		Leave Blank - DNF	R Use Only				
on							
	al	Of	ficial's Title				
Eric Rady			Assistant Forestry Director				
	on orized Offici		on orized Official Of	Leave Blank - DNR Use Only on orized Official Official's Title	on orized Official Official's Title		

Signature of Authorized Official

4-10 - 2024 Date Prepared

Oneida County Forestry Department

Motorized Recreation Grant Application

Par	1e	3	of	5

						0-159 (R 02/20 24	,	Page 3 of 5
Appendix A – Required for	Bridge Reha	b/Replace	ce, N	ew, or l	Reroute	e with New B	ridge	
X Bridge Rehab/Replace	New Brid	lge	Re	eroute w	ith new l	bridge		
County	Township Range	● OE Se	ection	1/4 1/4	1/4	GPS Coordinate		
Oneida	39 N 7	OW	18	NW	NE	Lat. 45.875 Long89.66		
Water Body Name			Brid	ge Name)		County Invento	ory Number
Minocqua Thoroughfare			Sta	cks Bay	Bridge			
Funded Trail Name or Number (SN	ARS if applicable	<u>e)</u>	Has	this brid	ge site ev	er received deve	elopment or rehabilit	ation funds
Corridor 17			in th	e past?	• Yes	-	ear: 2009 \$	9,000.00
Bridge is located on: OPrivate	property		Old	Bridge/C	ulvert Siz	e		
	property		New	/Bridge/0	Culvert Si	ze		
Landowner Where Bridge is Located				Telephone Number Length of Trail Use Agreeme			rail Use Agreement	(5 year
State on both sides			×	5) 892-0	095	State - Per	petual	minimum)
Current maximum load 20	,000 lbs.	Age of Br	idge	Bridge	e Material		· · · · · · · · · · · · · · · · · · ·	
Proposed maximum load	lbs.	36		All w	'ood			
Sponsoring Club Name		(Club C	ontact			Telephone Number	
Cross Country Cruisers			lerry V	Wesner			(608) 698-3	054
Do you have your trail bridges posted as to maximum load? V				s the max	imum loa	ad of the other br	idges on the system	if
	⊖ Yes (is bridge'		0 05 00011	
What is the weight of your puller &	drag/grading equi	pment?	vera c	reek bri	dge on R	Rux Road rated	for 25,000lbs	
23,700 total								
What other recreational trail uses a		s bridge?						
No other uses besides walking o	or fishing.							
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users?								
-0-								
• Yes O No Have you contacted your local DNR Water Management Specialist (WMS) regarding a permit?								
○ Yes ● No Is a permit needed? (Please provide any written correspondence from WMS.)								
○ Yes No Have you contacted your County Zoning Dept. regarding a floodplain determination?								
	ydrologic and hyd							

Bridge Project Detailed Description

The original bridge was permitted but no permit is needed for this redecking project.

Motorized Recreation Grant Application

Form 8700-159 (R 02/2024)

Page 4 of 5

Appendix A (continued)

Summarize Costs in Appropriate Categories:

	Bridge Structure	
	Quote 1	Quote 2
	🔿 Steel 🛛 🔿 Wooden	🔿 Steel 🛛 🔿 Wooden
Bridge Dimensions:		
Bridge Manufacturer:		
Design Weight Load	lbs.	lbs.
Cost of Structure: 1. Enginee	ering \$	\$
2. Structur		\$
	Subtotal \$	\$
	Quote 1	Quote 2
	◯ Contractor or ◯ Sponsor	○ Contractor or ○ Sponsor
installation Costs:	Estimate	Estimate
1. Engineering	\$	\$
2. Site Preparation	\$	\$
3. Abutments	\$	\$
4. Pilings/Piers	\$	\$
5. Approaches	\$	\$
6. Riprap	\$	\$
7. Labor	\$	\$
8. Equipment Rental	\$	\$
9. Culverts	\$	\$
10. H & H Study	\$	\$
11. Wetland Delineation	\$	\$
12. Other	\$	\$
	Subtotal \$	\$
Т	otal Cost \$	\$

For the application grant, you must take the lowest of the two quotes.

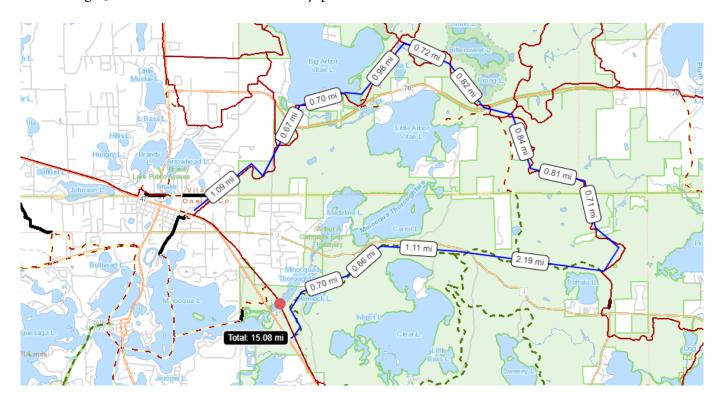
En	tire Deck and Railing Projects		 Contractor 	⊖ Sponsor	O Club
Brid	dge Dimensions:	184' x 10'			
Des	sign Weight Load		lbs.		
1.	Materials	\$ <u>13,915</u>			
2.	Labor	\$ <u>5,700</u>			
	Tot	al \$ <u>19,615</u>			

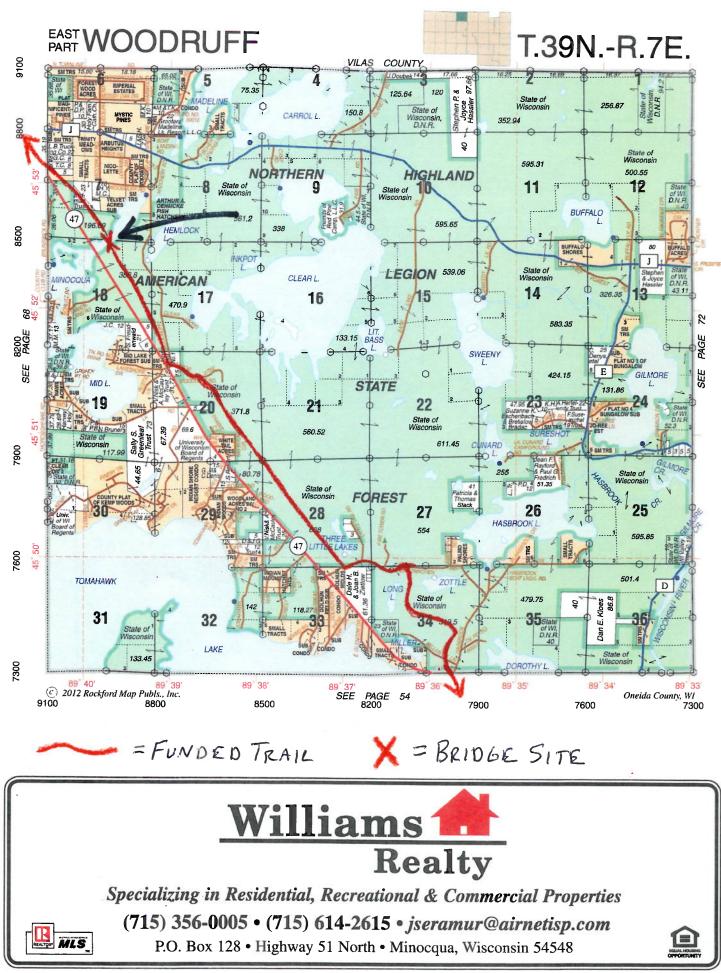
Guidelines for Applicant

Complete this form for each bridge structure you are submitting a grant application for. Provide any additional documents not requested on application checklist to substantiate your points, including actual deeded easements.

Category	Possible Points	Actual Points
1 Condition of the Structure (max of 10 points)		
Has a certified bridge inspection report that supports the project & demonstrates need (see example, must provide copy of report by August 1 for 2024 only)	10	10
Permits (maximum points 4)		
Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	X 0
Permit in hand / Bridge already permitted	3	3
Funding (maximum points 2) Are other funds already committed?		
50% or greater from other funding source(s)?	2	
11% - 49% from other funding source(s)?	1	
Length of Written Easements or Land Use Agreement (max points 5)(ch.		
23.09(26)(am)1 WI Stats)		
On public land (County, State, Federal)	5	5
10 or more year deeded easement on private land or other public land, for all portions of	5	
that trail to the nearest road on each side of the bridge	4	
3-9 year deeded easement on private land or other public land, for <u>all portions of that</u> trail to the nearest road on each side of the bridge		
10 or more year deeded easement on private land or other public land, for just the bridge	3	
site		
3-9 deeded easement on private land or other public land, for just the bridge site	2	
10 or more year land use agreement (LUA, not deeded) on private land or other public land	1	
3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	
Miles Impacted – How many miles will need to rerouted if the structure is not replaced? Measured from nearest intersection on both sides of the bridge. (max 4 points)		
Less than 20 miles	1	
20 miles or more	3	3
No other snowmobile trails connect. Explain: The bridge already exists;	4	XXX?
DEDUCTIONS		
County Active Project Deduction (maximum deduction 1 point) A snowmobile active project is one that has exceeded it's initial grant period.		
Two or more active projects - deduct 1 point	-1	_
GRAND TOTAL		145
comments/Notes: A revorte around the bridge wav much more than the redecking pro	ld co	5 - 21
much more than the redecting pro	ojecti	

Ranking Q #5 - Nearest funded re-route/by-pass trail would be 15 miles around to the NE.





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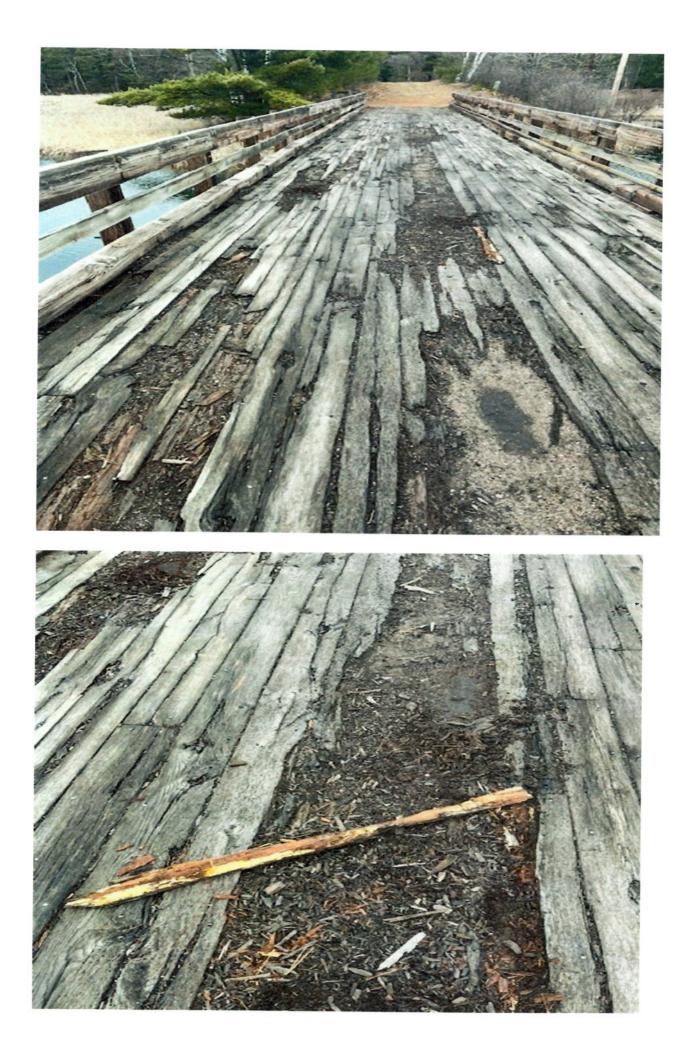
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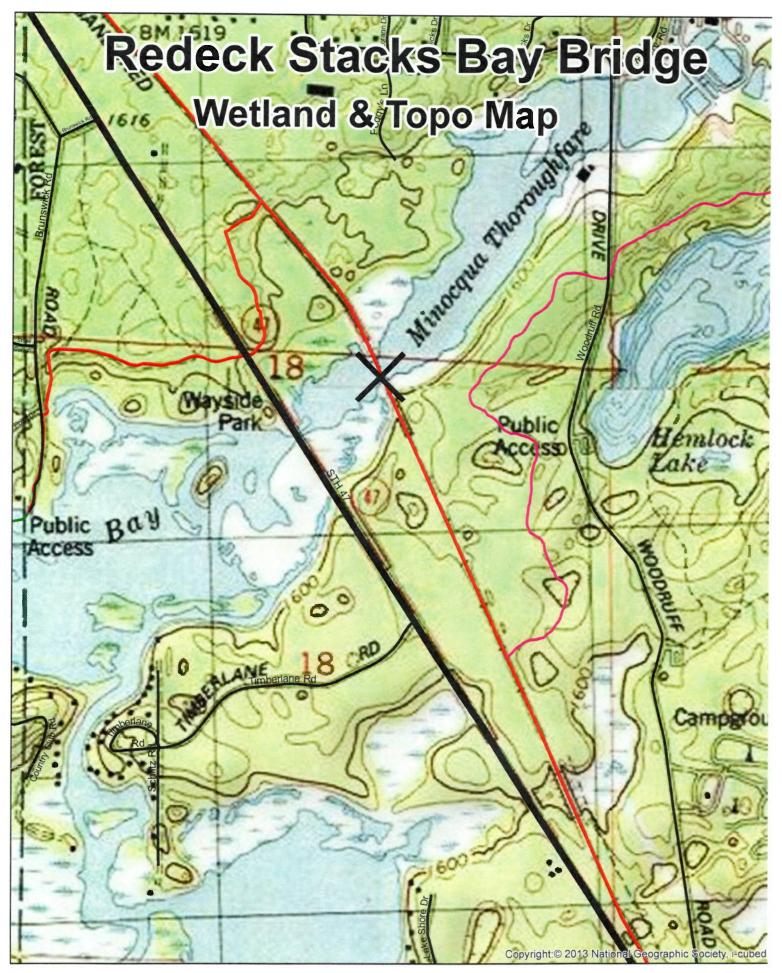


Redeck Stacks Bay Bridge Aerial Photo



Bridge Site

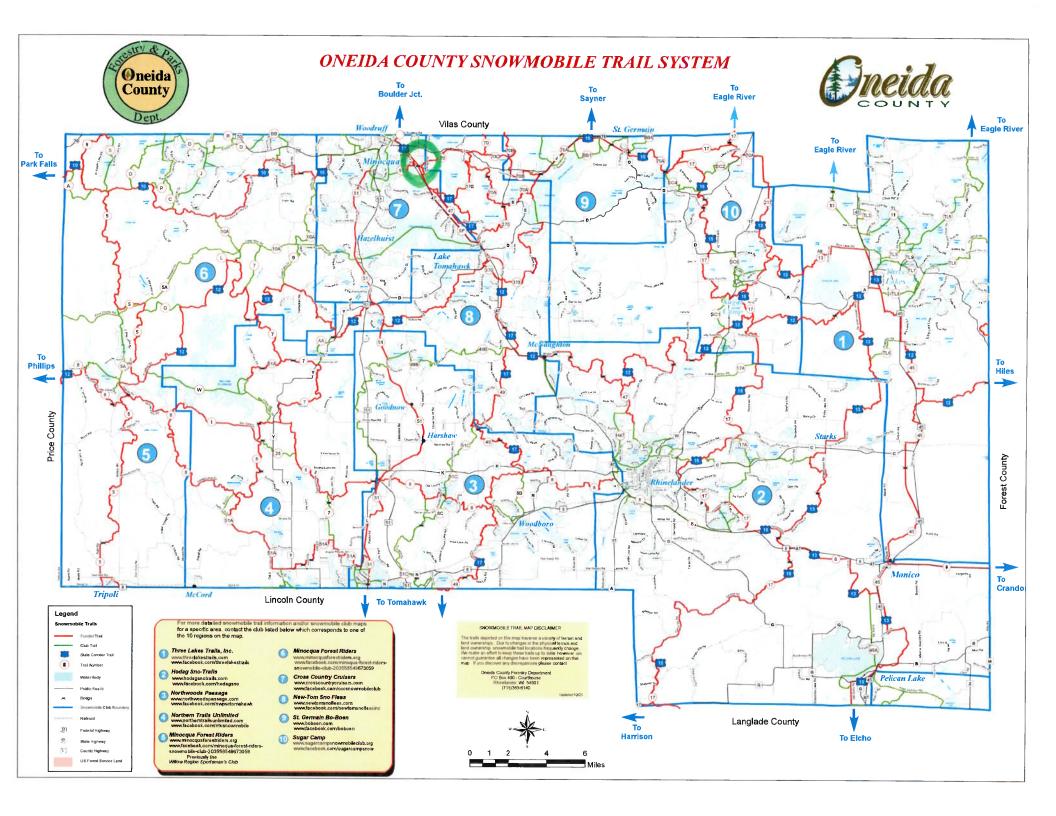
Funded Snowmobile Trail

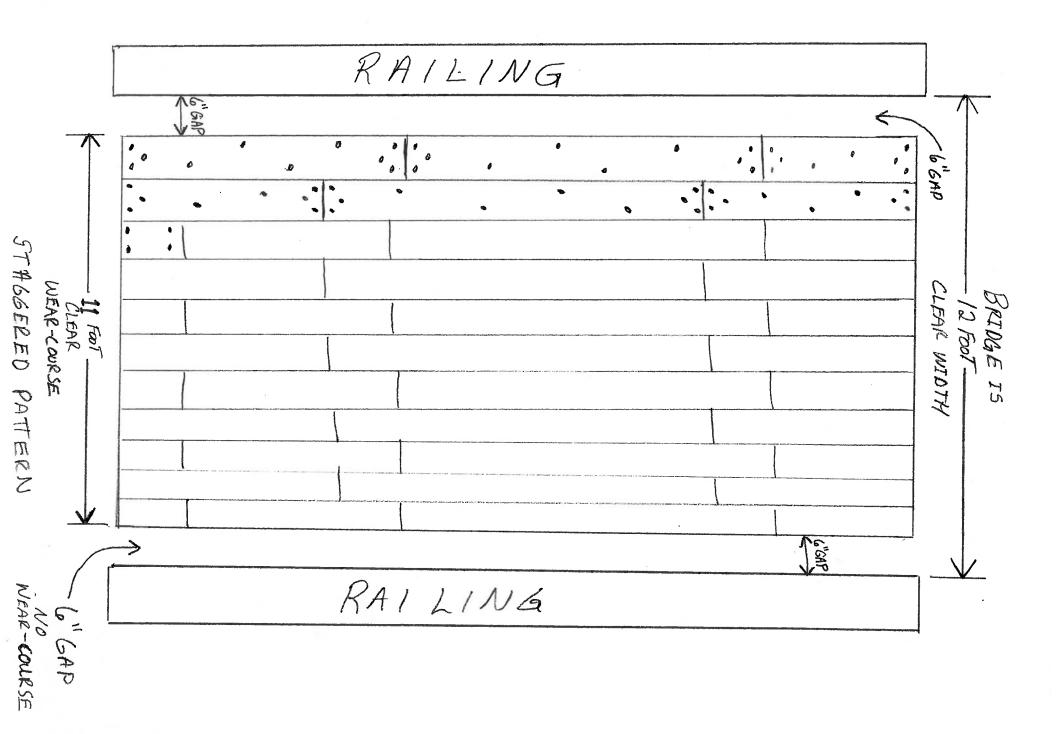




Bridge Site

Funded Snowmobile Trail







Trail Bridge Inspection Oneida County

Bridge Name Stacks Bay

Inspected By:

William S. Knaack Jr, P.E. William S. Knaack III Rebecca Knaack

03/30/24

Prepared By KBIS, LLC



Bridge # Stacks Bay



Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. Inspectors are Bridge Inspection Team Leaders and NSTM certified inspectors.

The bridge was inspected with trail use in mind, using normal vehicle bridge standards to determine the condition of the structure.

All recommendations made in the report are also considering the use of the trail. Trail bridges in general should have a load rating considering all the possible uses of the structure. Even though the bridges may be just for snowmobiles, several types of vehicles may use the structure. A load rating is provided in conjunction with this report.

Location information/General Description:

Located just South Woodruff adjacent to STH 47. Access is approx. 1/2 mile South of bridge on STH 47. North of Timberlane Rd. 45.875501, -89.661718

Bridge Condition

Condition State (CS) 1-Good, CS2-Fair, CS3-Poor, CS4-Critical

Pilings have CS2 minor decay at waterline, some brooming of the exterior growth, minor checks throughout. Each pier has one set of 2 boards or cross bracing. The very south pier has split plank on the South side of the pier. The timber has minor CS2 decay.

All the object markers are CS3 damage.

Railings all have CS3 section loss on top rail from weathering. 2 sections have either broken plank or poor repair.

Wearing surface was covered with snow, the deck has a longitudinal plank sacrificial surface with transverse actual 3inch x 12 inch planks, Western Species. The wearing surface is 100% past its useful service life. The transverse planks appeared to have CS2, to early CS3 decay when sounding them. There was lots of moisture in the top and the sounding was a soft thud. The transverse planks on the bottom appear to be solid and in good shape. There also appears to be no transverse planks lifting or shifting.

Outside girders have CS2 section loss from weathering. Girders are actual 4in x 12in solid sawn.

There was a tag on the pile cap that showed 1985 as a date for the preservative.

Pile Caps and Abutments were good. The South abutment has fill coming out from under the backing boards. I fully recommend grouting the bottom of both abutments to hold the fill and prevent further problems. There is a set of steps and fishing pier on the SW corner of the bridge.



The bridge ahead signs were in good shape. Slope protection and drainage were good.

Length 184 ft, Width 10.0, 12.0 ft, and 10 plus feet clearance on stream.

8 Piers (3 piles per bent, SP), 9 Spans, Timber Girder (5 Girders, 28 inches C-C) 10 ft outside to outside, Western Species.

Most spans are 20+/- ft center of bearing to center of bearing. Each pile cap is 14 inches wide. 1 span is 24.0 ft. Inside of curb to inside of curb is 10.0ft.



Bridge Inspection Report

Report Summary

NBI Ratings: 9-7 Good, 6-5 Fair, 4-3 Poor, 2-1 Critical, 0-Closed

Deck	# 6			
Superstructure	# 6			
Substructure	# 6			
Channel	# 8			
0 11 0 11 1	- ·			

Overall Condition Fair

Recommendations/Maintenance Items:

Recommend doing a load rating if this structure has anything other than groomer crossing it. Checking the groomer load would not hurt either, as machines are getting bigger and the bridges are not. Cut the brush around the entire structure at the stumps. Bridges are like houses, they need to breathe. Grout the bottom of the South abutment, and evaluate the North abutment at the same time as the backing boards did not extend properly into the ground.

Replace the South cross bracing plank with same size, #1 or better grade, with proper treatment. Fix the conduit on the ends as the cable is exposed, and replace the clamps on the conduit.

Plan replacement of the longitudinal deck planks. My experience says the transverse planks are good for another cycle of the longitudinal planks. When the longitudinal planks are removed, it will be necessary to inspect the transverse planks at that time and replace with same size, properly treated materials. Safe bet is redo the entire deck with proper size, material grade, and treatment, and be good for 20-30 years when the sacrificial longitudinal planks need to be replaced.

Replace all the Object Markers.

Signed By:

Withm Shaach P.E.

Digitally signed by William S. Knaack Jr.,P.E. Date: 2024.03.31 09:55:18 -05'00'

William S. Knaack Jr., P.E.



W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report

Photo Observations



Looking East