S-20 Langlade Bridge 5

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Due Date: April 15

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 02/2024)

Page 1 of 5

☐ ATV/UTV Trail Aid

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Notice: Completion of this form is required under Wisconsin Statutes 23.09(26) and 23.33. Failure to complete this form will result in denial of financial assistance. Personally identifiable information found on this form is not intended to be used for any other purpose. The Department of Natural Resources (DNR) may provide this information to requesters as required by Wisconsin's Public Records law {ss. 19.31 – 19.39, Wis. Stats.}.

DNR Use Only Instructions: Applications may combine more than one source of funds. They may be submitted for consideration of traditional ATV, UTV, Snowmobile and Motorized Category Number Stewardship funding. Submit one copy of all forms and attachments. See Page 2 for necessary attachments. Send applications to your Community Services Specialist. Section 1: Applicant Information Applicant / Organization Name Check Recipient: Individual other than authorized individual to act on behalf of the applicant. Select if the same as applicant. Langlade County Forestry, Parks & Recreation Dept. Individual Authorized to Act on Behalf of Applicant per Resolution Check Recipient Name (Name to Appear on Check) Langlade County Treasurer Al Murray Title Title Treasurer Forest Administrator Address Address 1633 Neva Road 1633 Neva Road City State ZIP Code City State ZIP Code WI 54409 WI 54409 Antigo Antigo Telephone Number Email Address amurray@co.langlade.wi.us (716) 627-6300 Section 2: Project Information Required for all Projects **Project Title Current Funded Miles** New Miles (if applicable) 530.4 Bridge 5 Replacement GPS Coordinates: Township Range Section 1/4 County 1/4 1/4 E 45.26343 32 N $\bigcirc W$ 8 SE SE Long. -89.265249 Langlade 10 **Project Description Summary** Langlade County proposes to replace an existing snowmobile bridge in the Antigo Sno-Drifters area. This bridge crosses W. Br. Eau Claire River on a major east to west connection to Lincoln County County. This bridge is 34 years old and the deck is in very poor condition. In addition to the decking the capacity of the bridge is under rated for the grooming equipment being used now. The pilings/abutments have heaved and will also need replacement. Temporary measures have been taken to keep the bridge usable in the short term. Bridge inspection completed by a bridge engineer in 2024 is attached. Bridge costs to be split 50% Snowmobile, 50% Winter ATV. The ATV program Awarded funding in 2023. Langlade County Winter ATV trails open ten days after the snowmobile trails open. They are open to ATVs only and only when the temperature is less than 28 degrees. UTVs are not permitted on the Langlade County Winter ATV trail system. 50% =\$74,887 from each Snow and ATV I certify that all maintenance land use agreements are on file. **Estimated Cost Total Estimated Cost** Maintenance Acquisition Insurance Development Bridge Rehab. Trail Rehab.

Leave Blank – DNR Use Only

Applicant Certification
Printed Name of Authorized Official
Al Murray

\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00
\$149,774.00

As the applicant's authorized official, I certify that, to the best of my knowledge, the information in this application is true and correct.

Signature of Authorized Official

Date Prepared

Motorized Recreation Grant Application

Form 8700-159 (R 02/2024)

Page 3 of 5

Appendix A – Required for	Bridge Reha	ab/Rep	lace, N	lew, or l	Reroute	e with New B	ridge		
⊠ Bridge Rehab/Replace	☐ New Bri	dge	F	Reroute w	ith new	bridge			
County	Township Rang	je OF	Section	1/4 1/4	1/4	GPS Coordinate			
Langlade	32 N 10	●E→W	8	SE	SE	Lat. 45.263 Long89.269			
Water Body Name	52 11 11	, 0		dge Name		Long. 00.20		Inventor	y Number
W. Br. Eau Claire River			Br	ridge 5			5		
Funded Trail Name or Number (SN	IARS if applicab	<u>e)</u>	На	s this brid	ge site ev	ver received deve	elopment or r	ehabilita	tion funds
County Line			lin i	the past?	Yes	s O No Y	ear:	\$1	2,600.00
Bridge is located on: Private	property		Ole	d Bridge/C	ulvert Siz	ze 35x12			
	oroperty			•		ize <u>36x12</u>			
Landowner Where Bridge is Locate	ed		Те	lephone N	umber	Length of T	rail Use Agre	ement	(5 year minimum)
Anthony Stadtmueller		,		<u></u>		9			
	0,000 lbs.	"	Bridge						
	5,000 lbs.	34	To	Steel w/wood deck					
Sponsoring Club Name				Contact			Telephone N		
Antigo Sno-Drifters				Tim Grall (715) 216-3910					
Do you have your trail bridges post	ed as to maximi Yes	im load? No		What is the maximum load of the other bridges on the system if groomed with this bridge?					
What is the weight of your puller &			1200						
	drag/grading eq	uipment							
25000 What other recreational trail uses a	re planned for th	is hridae	2						
none	re planned for th	ns bridge							
	s planned, how r	nuch of the	ne brida	e cost will	be paid f	or by non-snown	nobile or non-	-ATV us	ers?
	If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users?								
	Yes								
Yes									

Bridge Project Detailed Description

This bridges is approximately 34 years old and has deteriorating decking and the pilings have heaved. The weight rating of the existing bridge is to low for grooming equipment used by the club. Langlade County is proposing to replace the existing bridge with a 12'x45' bridge rated for 25,000 lbs to accommodate modern grooming equipment. This new structure would be expected to have a lifespan of more than 30 years. A Chapter 30 permit will be required for replacement of this structure. Permit approval is anticipated without issue. A zoning permit will be required for work taking place within a floodplain. An H&H study will not be required for the replacement as proposed. Cost estimates include permits, the bridge structure, removal of the existing bridge, installation of the new bridge and disposal of the old structure.

Motorized Recreation Grant Application

Form 8700-159 (R 02/2024)

Page 4 of 5

the state of the s	endix A (continued)						
Sumn	narize Costs in Approp	riate Catego	ories:				
			Bri	dge Structure			
			Qı	iote 1			uote 2
			○ Steel	Wooden	•	Steel	○ Wooden
_	e Dimensions:				_		
Bridge	e Manufacturer:	Wheeler, Ir	nc.		Contech		
Desig	n Weight Load			25,000 lbs.	_		25,000 lbs.
Cost	of Structure: 1. Engir	neering	\$		\$		
	2. Struc	ture	\$ <u>52,100</u>		\$	60,000	
		Subtotal	\$ <u>52,100</u>		\$	60,000	
			Qı	uote 1		Qı	uote 2
		•	Contractor	or (Sponsor	Co	ntractor	or O Sponsor
Instal	lation Costs:		Es	timate		Es	timate
1.	Engineering		\$		\$		
2.	Site Preparation		\$		\$		
3.	Abutments		\$ <u>7,810</u>		\$		
4.	Pilings/Piers		\$		\$		
5.	Approaches		\$	-	\$		
6.	Riprap		\$		\$		-
7.	Labor		\$ 82,356		\$	92,449	<u> </u>
8.	Equipment Rental		\$		\$		
9.	Culverts		\$		\$		
10.	H & H Study		\$		\$		
11.	Wetland Delineation		\$		\$		
12.	Other Removal/disposa	<u>ıl</u>	\$ 5,940	····	\$	5,940	
		Subtota	I \$ <u>96,106</u>		\$	98,389	
		Total Cos	st \$ <u>148,20</u> 6	3	\$	158,38	9
For	the application (grant, yo	u must	take the low	est of the two	quote	es.
Entir	e Deck and Railing P	rojects		○ Contract	ctor O Sponsor	O Club	
Bridg	e Dimensions:						
Desig	gn Weight Load			Ibs.			
1. 1	Materials		\$				
2. I	Labor		\$				

Total \$_____

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Recreation Grant Project Cost Estimate Worksheet

Form 8700-014 (R 02/23)

Page 1 of 2

For use with Recreation Grant Application Forms

Additional Costs beyond the Bridge worksheet

Project Name:		Prepared By:	Date
Bridge 5 Replacement		Cody Brauner	02/05/2025
County	Project Applicant:	Landowner Name	O Public
Langlade	Langlade County	Anthony Stadtmueller	Private

	Indicate - (C) Contract , (F) Force Acct., (D) Donated				
\	DEVELOPMENT PROJECT ITEMS List by individual item or break down by Use Areas (See Item List On Back Of This Form)	Quantity	Unit of Measure	Component Costs	Estimated Total Item Cost
F	Administration (permit prep/bid prep)	20	hr	\$55.00	1,100.00
С	Floodplain Permit	1	each	\$150.00	150.00
С	Signs	8	each	\$12.00	96.00
С	posts	8	each	\$9.00	72.00
С	Bid Advertisement	1	each	\$150.00	150.00
				,	
				·····	
	·				
			ě		
				TOTAL \$	\$1.568.00

NOTE:

- For development projects, contingency and indirect costs are <u>not</u> eligible expenses.
- For acquisition projects, complete the Acquisition Project Cost Estimate Section of this form.

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.

rquested 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	10	1/5
example, must provide copy of report by August 1 for 2024 only)	10	10
2 Permits (maximum points 4)		
Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	1	1
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	1
4 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	
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		
3-9 year deeded easement on private land or other public land, for <u>all portions of that</u>	4	
trail to the nearest road on each side of the bridge	ļ	
10 or more year deeded easement on private land or other public land, for <u>just the bridge</u>	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	1	
land 3-9 year land use agreement (LUA, not deeded) on private land or other public land	0	\sim
5 Miles Impacted – How many miles will need to rerouted if the structure is not replaced?	V	
Measured from nearest intersection on both sides of the bridge. (max 4 points)		
Measured from hearest intersection on both sides of the oriage. (max 4 points)		
Less than 20 miles		1
20 miles or more	3	
No other snowmobile trails connect. Explain:	4	
DEDUCTIONS		
6 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 Yes - 3 projects	-1	<u> </u>
GRAND TOTAL	<u> </u>	12

Comments/Notes:

From: Cody Brauner

To: Pennucci, Jeff F - DNR

Cc: <u>amurray</u>

Subject: RE: Follow-up from Preliminary Council Meetings

Date: Tuesday, July 30, 2024 4:31:02 PM

Attachments: <u>image008.png</u>

image010.png image011.png image011.png image004.png

CAUTION: This email originated from outside the organization.

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Hi Jeff,

Please see below.

Snow Council:

- 1. Instead of full replacement of Bridge #4, would redecking and repair of abutment be sufficient? What is the condition of the rest of the structure?
- 2. Instead of full replacement of Bridge #5, would redecking and repair of abutment be sufficient? What is the condition of the rest of the structure?

This option was not evaluated because of three factors: the poor condition of the decking, the heaving of the pilings / poor condition of the soil dams on the abutments and the manufacturer rating on these bridges being only 5 ton. The County has concerns with 30+ year old bridges with that low of a load rating. The County Could evaluate that option with an engineer and determine whether or not this is a viable option. This may be too short of a timeframe to review and be able to have a revised budget by the August meeting.

ORV Council:

1. For the new Perch Lake Campground Trail Segment, how do riders get between the new trail segments along Hwy U? Please provide an additional map (if needed) to explain how to use the new trail.

The segments of the proposed trail are connected by existing open county road route (CTH U). This road routes also make connections to the rest of the County's trails via CTH K to the north and CTH T to the south.

Cody Brauner

Assistant Forest Administrator Langlade Co. Forestry Dept. cbrauner@co.langlade.wi.us (715) 627-6300



Larson Construction Co Inc

19681 - 55th Avenue Chippewa Falls WI 54729 PH 715.723.9708 FX 715.723.4515 February 3, 2025 Langlade Co Trail Bridges Site #5 Estimate Wheeler Panel Lam Bridge

	Remove and Dispose of Existing Structure	1	LS	\$ 5,940.00	\$ 5,940.00
	Install 36' long x 12' wide, 25,000lb capacity steel truss bridge, supported on				
C:t- #1	helical pile and timber abutments	1.00	EACH	\$142,266.00	\$ 142,266.00
Site #4	Backfill abutments with materials on site			included	
	Silt fence, seeding & emat as needed			included	
	Place up to 20 ton of base course for approaches			included	
		No.		Total	\$148 206 00

Notes:

- 1 Larson Construction is a Union Contractor.
- 2 All Utility Conflicts, Resolved By Others
- 3 Riprap can be placed and installed by Larson for \$1,500 per load (22 tons each)

	Tim MacLaaghlin-Barck	Date:	2/3/2025
Signed:	Tim MacLaughlin-Barck	Title:	VP, Operations
Accepted:		Date:	
		Title:	

Project: Site #5

Snowmobile Bridge Langlade Co., WI

Letting

Date:

Time:

Place:



Wheeler Lumber LLC 9531 W 78th Street, Ste. 100 | Minneapolis, MN 55344 Jake Silkey | Sales Engineer

jsilkey@wheeler1892.com | 262.229.4068

Prefabricated Timber Panel-Lam Recreation Bridge

Bridge Size:	36' x 12'	No. of spans:	1		
Live Load:	60 psf	Vehicle Load:	25,000 LBS (H12.5)	Design Code:	AASHTO LRFD
Decking:	Wood panel	Species:	DF	Treatment:	QNAP
Railing:	Wood	Species:	DF	Treatment:	QNAP
		Safety Railing:	42" Horizontal	Rail Spacing:	AASHTO

Additional Notes: Bridge deck to be shipped as 3 panels and railing in pieces as a field assembled kit. Includes 2"x12" timber wear plank.

Lump Sum Total... \$52,100.00

Timber Abutments - 6' Height

Materials include Douglas Fir 12"x12" abutment caps, backing planks, support posts and attaching hardware. Helical pile and attaching hardware to timber cap to be designed and supplied by others.

Lump Sum Total... \$7,810.00

Note:

Unloading and complete installation by others.

All practical pre-framing to be done prior to treatment. Some field drilling and cutting may be required. All Douglas Fir timber to be pressure treated with Copper Naphthenate (QNAP) in Type A Hydrocarbon Solvent in accordance with AWPA P-36 and HSA-14 to meet AWPA UC4B & UC4C. Includes associated hardware. Hardware to be hot-dipped galvanized or coated to meet ICC AC-257.



Larson Construction Co Inc

19681 - 55th Avenue Chippewa Falls WI 54729 PH 715.723.9708 FX 715.723.4515 February 3, 2025 Langlade Co Trail Bridges Site #5 Estimate Contech Truss

	Remove and Dispose of Existing Structure	1	LS	\$ 5,940.00	\$ 5,940.00
	Install 36' long x 12' wide, 25,000lb capacity steel truss bridge, supported on				
Site #4	helical pile and timber abutments	1.00	EACH	\$152,449.00	\$ 152,449.00
Site #4	Backfill abutments with materials on site			included	
l	Silt fence, seeding & emat as needed			included	
	Place up to 20 ton of base course for approaches			included	
				Total	\$158,389,00

Notes:

- 1 Larson Construction is a Union Contractor.
- 2 All Utility Conflicts, Resolved By Others
- 3 Riprap can be placed and installed by Larson for \$1,500 per load (22 tons each)

	Tim MacLaughlin-Barck	Date:	2/3/2025
Signed:	Tim MacLaughlin-Barck	Title:	VP, Operations
Accepted:		Date:	
		Title:	

Cody Brauner

From:

Eric Sturm < Eric.Sturm@ContechES.com>

Sent:

Thursday, January 16, 2025 10:54 AM

To:

Cody Brauner

Subject:

External Email CONTECH - Snowmobile Bridges

Cody,

35x12 Truss Snowmobile bridge

\$60,000

45x12 Truss Snowmobile bridge

\$75,000

25,000lb loading

Let me know if you need anything else.

Eric W Sturm

Bridge Consultant

CONTECH Engineered Solutions LLC

6441 Enterprise Lane, Suite 116 | Madison, WI 53719

Cell: 608-215-3937 Fax: 608-216-9865

www.conteches.com esturm@conteches.com

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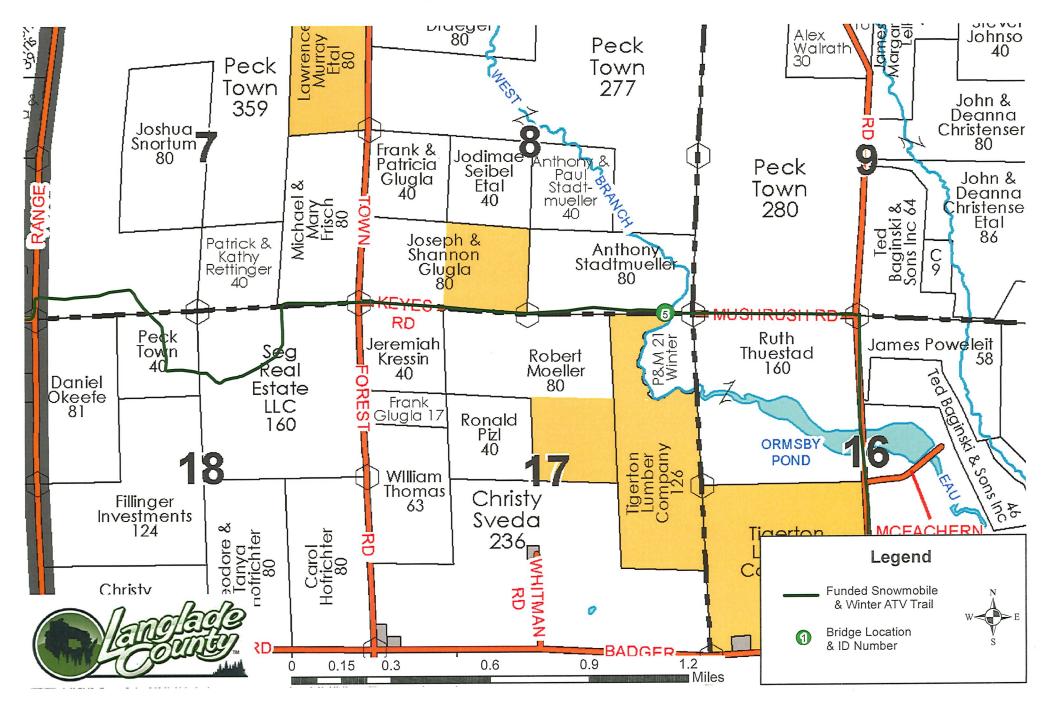
Bridge 5 Replacement Project

Langlade County, Wisconsin



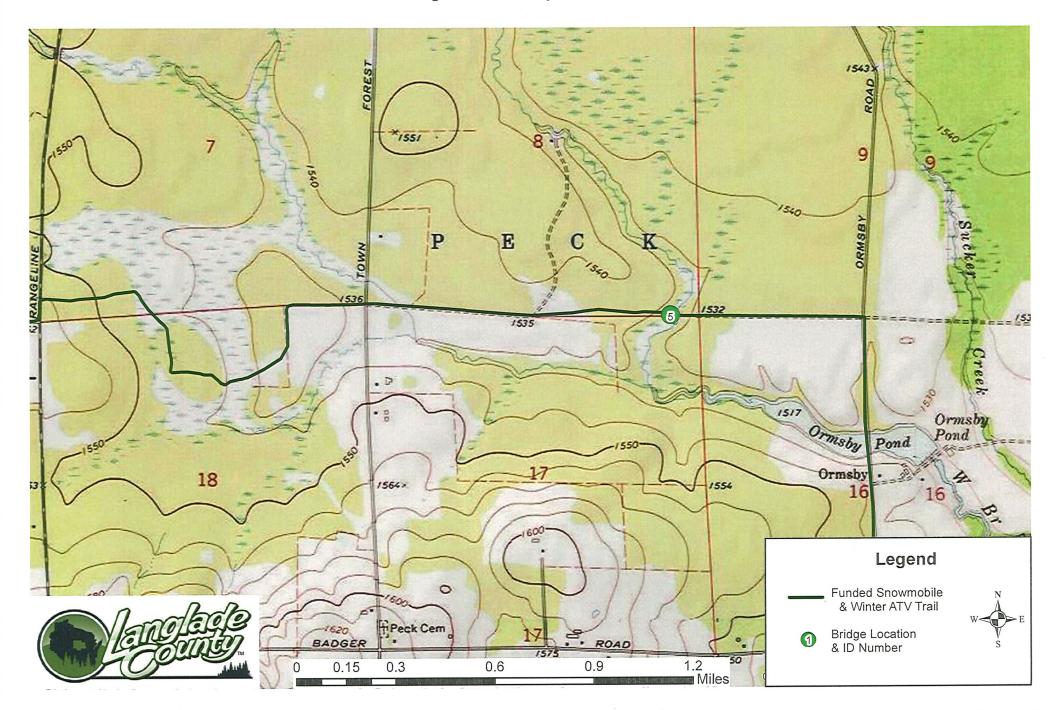
Bridge 5 Replacement Project

Langlade County, Wisconsin



Bridge 5 Replacement Project

Langlade County, Wisconsin



WISCONESN DEPT OF NATURAL RESOURCES

Langlade County Bridge 5 Replacement Wetlands



0.5 0 0.25 0.5 Miles

NAD_1983_HARN_Wisconsin_TM

1: 15,840

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

Legend

Wetland Class Areas
Wetland Class Points

Dammed pond

Excavated pond

Filled/drained wetland

Wetland too small to delineate

Filled excavated pond

Filled Points

Wetland Class Areas

Filled Areas

Wetland Class Areas
Wetland Class Points

Dammed pond

Excavated pond

Filled/drained wetland

Wetland too small to delineate

Filled excavated pond

Filled Points

Wetland Class Areas

// Filled Areas

 Wetland Identifications and Confirmations

Municipality

State Boundaries

County Boundaries

Major Roads

Interstate Highway

State Highway

US Highway

County and Local Roads

— County HWY

= Local Road

Railroads

Tribal Lands

Divers and Chasens

Notes

Cody Brauner

From:

Koehnke, Scott E - DNR <Scott.Koehnke@wisconsin.gov>

Sent:

Wednesday, February 12, 2025 4:39 PM

To:

Cody Brauner

Subject:

External Email RE: Langlade County Bridge Replacements

Hey Cody,

Let's have a phone call next week-ish to discuss these. Overall, I agree in concept but we need to talk details. Your reference below about not knowing what materials the bridges will be replaced with and noting "similar" construction makes me want to have more details. In either case, I believe that issuance of a GP21 crossing permit should be possible.

Let me know what works for you and we can do a teams call.

Thanks.

Scott Koehnke

Senior Water Management Specialist – Waterways/Wetlands Wisconsin Department of Natural Resources 647 Lakeland Road, Shawano, WI 54166 Phone: 715/526-4232

scott.koehnke@wisconsin.gov



dnr.wi.gov

Our core values include professionalism, integrity, and customer service.

Please visit our survey to provide feedback on your experience interacting with any DNR employee.



From: Cody Brauner < CBrauner@co.langlade.wi.us>

Sent: Wednesday, February 5, 2025 7:32 AM

To: Koehnke, Scott E - DNR <Scott.Koehnke@wisconsin.gov>

Subject: Langlade County Bridge Replacements

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Scott,

Langlade County will be submitting grant applications for replacement of two snowmobile bridges (bridges 4 and 5). County wide bridge location map is attached along with some additional information. These were previously applied for and have been partially awarded in 2023.

These projects were discussed with Jared Seidl in 2023. Those discussions concluded that bridge 4 had an existing permit (3-NC-1991-34-1070) and this structure could be replaced in-kind without a new permit. Bridge 4 Jared and myself were unable to locate a permit. I have since located a set of plans for bridge 5 with a permit number (3-NC-91-1072) however, no permit. Jared concluded that since there is an existing structure in place and it has been there for approximately 30 years without issues that a permit application would be approvable for a replacement. With regard to the wetlands at these two locations Jared concluded that as long as no new or existing fill material was introduced outside the existing dimensional footprint of current fill at the bridge approach that no wetland permitting would be required. These projects have also been discussed with zoning regarding floodplain requirements and both are approvable on their end as in-kind replacements.

The intent is to replace these bridges with the same size and similar construction bridge structures. We will not know the exact construction or material of the new bridge until they are bid out. However, initial discussions with contractors indicate that bridge 4 would likely remain a steel truss bridge of similar construction to the existing bridge.

Due to the amount of time that has elapsed since these were initially discussed with Jared I thought we should revisit these projects. Please confirm if you agree with Jared's assessment or if you think we need to discuss these projects further before the grant applications are completed.

Thank you,

Cody Brauner

Assistant Forest Administrator Langlade Co. Forestry Dept. 1633 Neva Road Antigo, WI 54409 <u>cbrauner@co.langlade.wi.us</u> (715) 627-6300



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Bridge # 5

Sno-Drifters Trails

Town of Peck, Langlade County

T32N R10E Section 8



Bridge Deck Looing West

Bridge Deck Looking East



Bridge Substructure and Abutment Looking West

Bridge Substructure and Abutment Looking East



Bridge Decking





Trail Bridge Inspection Langlade County

Bridge # 5

Inspected By:

Patrick Hampston, P.E.

10/12/24

Prepared By KBIS, LLC





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.

Location information/General Description:

Located west Ormsby Road, Langlade County. 45.263430°, -89.265265°

Bridge Condition

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

Abutments, pile bents, and spans are numbered along the trail from south to north. Girders are numbered from upstream to downstream.

Bridge has steel railings, no wearing surface, timber transverse deck planks, steel truss superstructure, on steel piling abutments.

Length 35.0', Width 12.0', 7.6' clearance from deck to stream bottom.

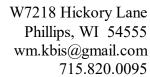
Bridge does not have a wearing surface.

Decking has widespread CS4 rot. Some boards are gone.

Trusses are in good condition with a nice weathering steel patina.

Abutment backwalls are nearly non-existent. Only a few rotten timbers remain. Not retaining fill. Piling and caps have CS2 corrosion (assumed bare steel, not weathering steel).

Channel is in good condition. Riprap is very small.





Approaches are in good condition. Bridge ahead signs are CS1. Object markers are CS1.



Bridge Inspection Report

Report Summary

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

Deck Wearing Surface	# 3 # NA	Major defects, strength seriously affected
Superstructure	#8	Some inherent defects
Substructure	# 4	Major defects, perfomance affected
Channel	#8	Some inherent defects
Overall Condition	Poor	

Recommendations/Maintenance Items:

Replace decking immediately
Reconstruct a backwall at both abutments
Add riprap

Signed By:

Patrick Hampston, P.E.







East bridge ahead sign







East approach







Top of deck

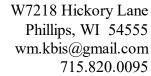




Photo Observations

KBIS



Channel looking upstream





Photo Observations

KBIS



Channel looking downstream



Bridge Inspection Report



Typical deck underside



Bridge Inspection Report



West abutment



Bridge Inspection Report



East abutment





Continental Bridge placard, 5T load limit



Bridge Inspection Report



CS4 rotten deck planks