

S-3 Tri Co Pecatonica Bridge 72 Replacement

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

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 02/2024)

Page 1 of 5

☒ ATV/UTV Trail Aid

☒ Snowmobile Trail Aid

Due Date: April 15

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.).

Instructions: Applications may combine more than one source of funds. They may be submitted for consideration of traditional ATV, UTV, Snowmobile and Motorized Stewardship funding. Submit one copy of all forms and attachments. See Page 2 for necessary attachments. Send applications to your [Community Services Specialist](#).

DNR Use Only	
Category	Number

Section 1: Applicant Information

Applicant / Organization Name			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input checked="" type="checkbox"/> Select if the same as applicant.		
Tri County Trail Commission					
Individual Authorized to Act on Behalf of Applicant per Resolution			Check Recipient Name (Name to Appear on Check)		
Max Blackburn			Max Blackburn		
Title			Title		
Tri County Trail Coordinator			Tri County Trail Coordinator		
Address			Address		
700 Main Street			700 Main Street		
City	State	ZIP Code	City	State	ZIP Code
Darlington	WI	53530	Darlington	WI	53530
Telephone Number		Email Address			
(608) 776-4893		trails@lafayettecountywi.org			

Section 2: Project Information Required for all Projects

Project Title					Current Funded Miles	New Miles (if applicable)
Bridge #72 / DNR #33-005 Replacement						
County	Township	Range	Section	1/4 1/4	1/4	GPS Coordinates:
Lafayette	N	<input type="radio"/> E <input type="radio"/> W				Lat. 42.739386 Long. -90.336177

Project Description Summary

Proposed project is the complete replacement of Bridge #72 aka DNR #33-005 on the DNR owned Pecatonica State Trail in the Village of Belmont.

In a routine bridge inspection conducted by DNR, major deficiencies were found in the wood pilings of the bridge. In order to replace degraded pilings the bridge decking would be removed. Due to the deck having a poured concrete cap, this would ruin the decking, so for the most cost-effective method we would propose replacing the entire bridge structure.

Currently propose a 50/50 split with ATV/UTV and Snowmobile grants.

ATV/UTV @ 50% = \$54,500 Snowmobile @ 50% = \$54,500

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

Estimated Cost

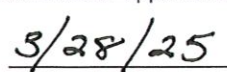
Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
				\$109,000.00		\$109,000.00
Leave Blank – DNR Use Only						

Applicant Certification

Printed Name of Authorized Official	Official's Title
Max Blackburn	Tri County Trail Coordinator

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

Appendix A – Required for Bridge Rehab/Replace, New, or Reroute with New Bridge
☒ Bridge Rehab/Replace ☐ New Bridge ☐ Reroute with new bridge

County Lafayette	Township N	Range <input type="radio"/> E <input type="radio"/> W	Section 1/4 1/4 1/4	GPS Coordinates: Lat. 42.739386 Long. -90.336177
Water Body Name Bonner Branch			Bridge Name Bridge #72 / DNR 33-005	County Inventory Number #72
Funded Trail Name or Number (SNARS if applicable) Pecatonica State Trail			Has this bridge site ever received development or rehabilitation funds in the past? <input type="radio"/> Yes <input checked="" type="radio"/> No Year: _____ \$ _____	
Bridge is located on: <input type="radio"/> Private property <input checked="" type="radio"/> Public property			Old Bridge/Culvert Size 10' X 42' New Bridge/Culvert Size 12' X 50'	
Landowner Where Bridge is Located Wisconsin DNR			Telephone Number	Length of Trail Use Agreement (5 year minimum) Perpetual
Current maximum load 25,000 lbs.		Age of Bridge	Bridge Material	
Proposed maximum load 25,000 lbs.		50+	Wood pilings & girders	
Sponsoring Club Name Tri County Trail Commission			Club Contact Max Blackburn	Telephone Number (608) 776-4893
Do you have your trail bridges posted as to maximum load? <input type="radio"/> Yes <input checked="" type="radio"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge? >25,000 lb. this bridge just needs to handle winter maintenance equipment and not heavier summer equipment used on the rest of the trail	
What is the weight of your puller & drag/grading equipment? See note --->				
What other recreational trail uses are planned for this bridge? Pedestrian, bicycle				
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users? None				
<input type="radio"/> Yes <input checked="" type="radio"/> No Have you contacted your local DNR Water Management Specialist (WMS) regarding a permit? <input checked="" type="radio"/> Yes <input type="radio"/> No Is a permit needed? (Please provide any written correspondence from WMS.) <input type="radio"/> Yes <input checked="" type="radio"/> No Have you contacted your County Zoning Dept. regarding a floodplain determination? <input checked="" type="radio"/> Yes <input type="radio"/> No Will an H & H (hydrologic and hydraulic) study be required?				

Bridge Project Detailed Description

Proposed project is the complete replacement of Bridge #72 aka DNR #33-005 on the DNR owned Pecatonica State Trail within the Village of Belmont.

In a routine bridge inspection conducted by DNR, major deficiencies were found in the wood pilings of the bridge. In order to replace degraded pilings the bridge decking would be removed. Due to the deck having a poured concrete cap, this would ruin the decking, so for the most cost-effective method we would propose replacing the entire bridge structure.

Currently we are looking at proposing a 12' X 50' arched steel truss bridge by Anderson Bridges pending DNR engineering review & approval. The proposed bridge will sit higher over Bonner Branch and the wood pilings would be removed which would improve flow through the natural channel.

A pre-application meeting will be scheduled in the immediate future with DNR WMS for permitting requirements and piling removal requirements. It is assumed that bridge will require an H&H analysis due to FEMA floodplain designation.

Appendix A (continued)**Summarize Costs in Appropriate Categories:****Bridge Structure****Quote 1**☒ Steel ☐ Wooden**Quote 2**☒ Steel ☐ WoodenBridge Dimensions: 12' X 50'12' X 50'Bridge Manufacturer: Wheeler Lumber LLCAnderson BridgesDesign Weight Load 25,000 lbs.25,000 lbs.Cost of Structure: 1. Engineering \$ \$ 4,0002. Structure \$ 68,500\$ 43,000**Subtotal** \$ 68,500\$ 47,000**Quote 1**☒ Contractor or ☐ Sponsor
Estimate**Quote 2**☒ Contractor or ☐ Sponsor
Estimate**Installation Costs:**1. Engineering \$ \$ 2. Site Preparation \$ \$ 20,0003. Abutments \$ 9,950\$ 15,0004. Pilings/Piers \$ \$ 5. Approaches \$ \$ 6. Riprap \$ \$ 2,0007. Labor \$ 70,000\$ 10,0008. Equipment Rental \$ \$ 9. Culverts \$ \$ 10. H & H Study \$ 20,000\$ 15,00011. Wetland Delineation \$ \$ 12. Other \$ \$ **Subtotal** \$ 99,950\$ 62,000**Total Cost** \$ 168,450\$ 109,000**For the application grant, you must take the lowest of the two quotes.****Entire Deck and Railing Projects**☒ Contractor ☐ Sponsor ☐ ClubBridge Dimensions: Design Weight Load lbs.1. Materials \$ 2. Labor \$ **Total** \$

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
2	Permits (maximum points 4)		
	Consultation with DNR Water Mgmt Specialist has occurred & permit is likely, if needed	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)? 50% ATV	2	2
	11% - 49% from other funding source(s)?	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	5
	10 or more year deeded easement on private land or other public land, for <u>all portions of</u> that trail to the nearest road on each side of the bridge	5	
	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	4	
	10 or more year deeded easement on private land or other public land, for <u>just the bridge site</u>	3	
	3-9 deeded easement on private land or other public land, for <u>just the bridge site</u>	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	
5	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	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	-1	
GRAND TOTAL			18

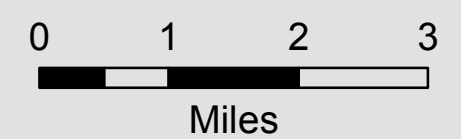
Comments/Notes:

Lafayette County 2021

SNOWMOBILE TRAILS

Legend

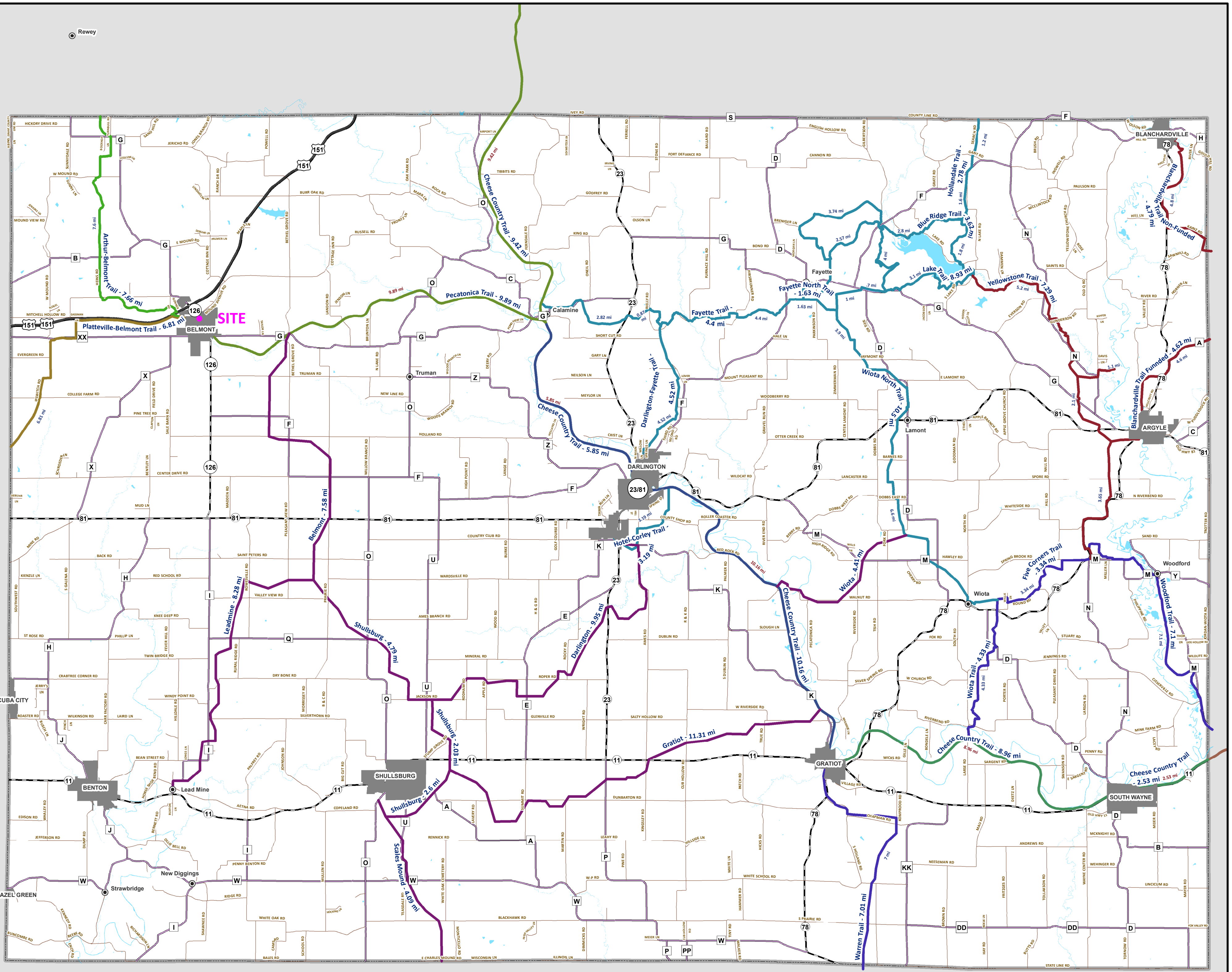
- Unincorporated
- Argyle Ditch Bangers
- Arthur Snowmobile Club
- Blackhawk Riders
- Fayette Sno-Goers
- Platteville Driftbusters
- Shullsburg Prairie View Ryders
- Tri County ATV Club/Blackhawk Riders
- Tri County ATV Club/Fayette SnoGoers
- Tri County ATV Club/Mineral Point T-Riders
- Tri County ATV Club/Staline Trailblazers SC
- Town Road
- County Road
- State Road
- US Highway
- Waterbody
- City
- Village



Lafayette County Land Information
www.lafayettecountywi.org/ligis

Map features are a representation only and do not replace a survey or other legally recorded documents.

Map Created: January 2021



State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2984 Shawano Avenue Green Bay WI
54313-6727

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



INSPECTION REPORT FOR

Lafayette County #72
NR-33-005

Pecatonica State Trail over Bonner Branch

2/1/2024




Identification & Location

Structure No.	NR-33-005	State Division	State Trail
Feature On	Pecatonica State Trail	Location	Just E of Spring St
Feature Under	Bonner Branch	Trail Mile	N/A
Sect/Twn/Rng	14/03N/01E	Latitude	42.73935
Municipality	Belmont	Longitude	90.33596
County	Lafayette	Owner	WI DNR
Year Built	N/A	Maintainer	WI DNR

Inspection

Type	Prior Date	Frequency (mos)
Routine	11/15/2013	
SIA Review		

Inspector

Inspector	Number	Date	Completion Time
Matt Roesch	9725	2/1/2024	30 min
Signature			
Team Members			
Jarrold Schneider			

Geometry

Total Width (ft)	10	Clr Deck Width (ft)	10
Total Length (ft)	42	Deck Area (sq ft)	420
Deck Surface Material	Timber		

Span(s)

# Spans	Material	Configuration	Length (ft)
3	Timber	Girder	14

Hydraulic

High Water Elevation (ft)	
Q100 (ft ³ /sec)	
Velocity (ft/sec)	

Capacity

Inventory Rating		Last Rating Date	
Operating Rating		Controlling	

Elements

		Quantity in Condition State							Comments
Element	Defect	Description	UOM	Total	1	2	3	4	
31		Timber Deck	SF	420		420			
	1150	Checks/Shakes/Cracks/Splits/ Delamination	SF			420			The deck exhibited minor checks.
8514		Concrete Overlay	SF	420					Unable to inspect - Covered in snow
111		Timber Open Girder/Beam	LF	84	84				
216		Timber Abutment	LF	20	15		5		
	1140	Decay/Section Loss/Abrasion/Wear	LF				5		There was a gap in the abutment backwall at the northeast corner.
228		Timber Pile	EA	20		13	3	4	
	1140	Decay/Section Loss/Abrasion/Wear	EA			13	3	4	West Abutment: 1 pile CS3 decayed Pier 1W: 1 pile CS3 decayed, 3 piles CS4 decayed Pier 1E: 1 pile CS3 decayed (hollow) East Abutment: 1 pile CS4, Pier Cap not bearing on south pile
235		Timber Pier Cap	LF	40	34		6		
	1140	Decay/Section Loss/Abrasion/Wear	LF				6		The pier caps exhibited minor decay. 3' of each end of the Pier cap 1W exhibited moderate decay.
330		Metal Bridge Railing	LF	84	84				

Assessments*Quantity in Condition State*

Assessment	Description	UOM	Total	1	2	3	4	Comments
9001	Drainage - Ends of Structure	EA	4	4				
9030	Signs - Object Markers	EA	4	4				
9045	Slope Prot. - Riprap	EA	2	2				
9250	Crash Walls/Web Walls/Cross Bracing or Struts	EA	2	2				
9322	Approach Roadway - Concrete (Non-Structural)	EA	2	2				

NBI Ratings

	File	New
Deck	N/A	7
Superstructure	N/A	8
Substructure	N/A	4
Culvert	N/A	N/A
Channel	N/A	8
Waterway	N/A	8

Structure Specific Notes**Inspection Specific Notes****Inspector Site-Specific Safety Considerations**

Maintenance Items History

<i>Item</i>	<i>Priority</i>	<i>Recommended By</i>	<i>Status Date</i>
Replace decayed piles (7 EA)	High	Matt Roesch	2/1/2024

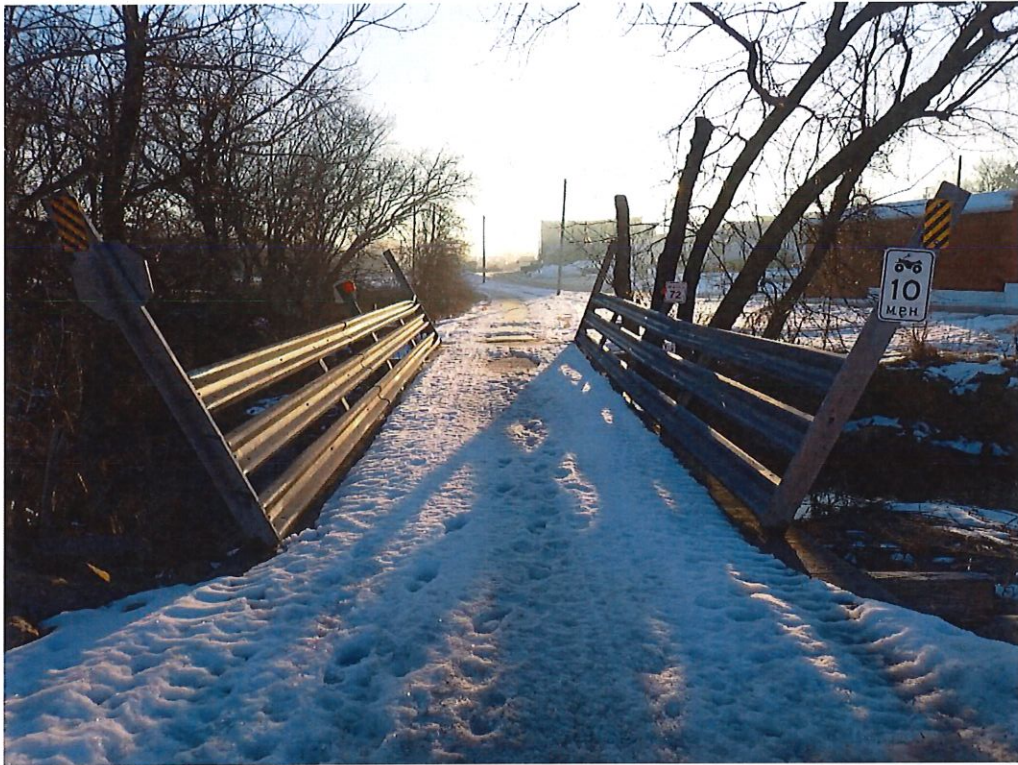
Sketch



View of north fascia, looking south.



View of south fascia, looking north.



View of west approach, looking east.



View of east approach, looking west.



View of upstream channel, looking south.



View of downstream channel, looking north.



View of west abutment, looking west.



View of east abutment, looking east.



View of typical underdeck, looking east.



View of typical pier, looking east.



View of typical heavily decayed pile, looking west.



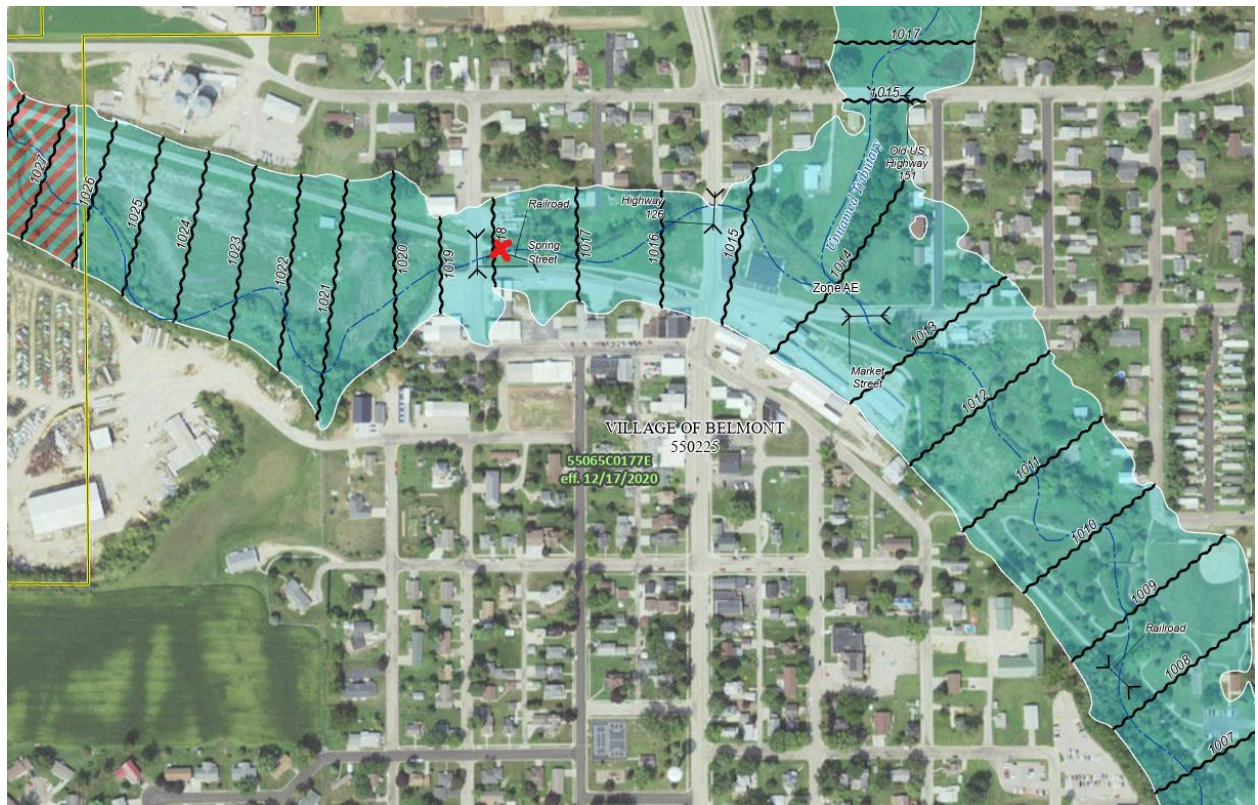
View of gap in east abutment backwall, looking east.

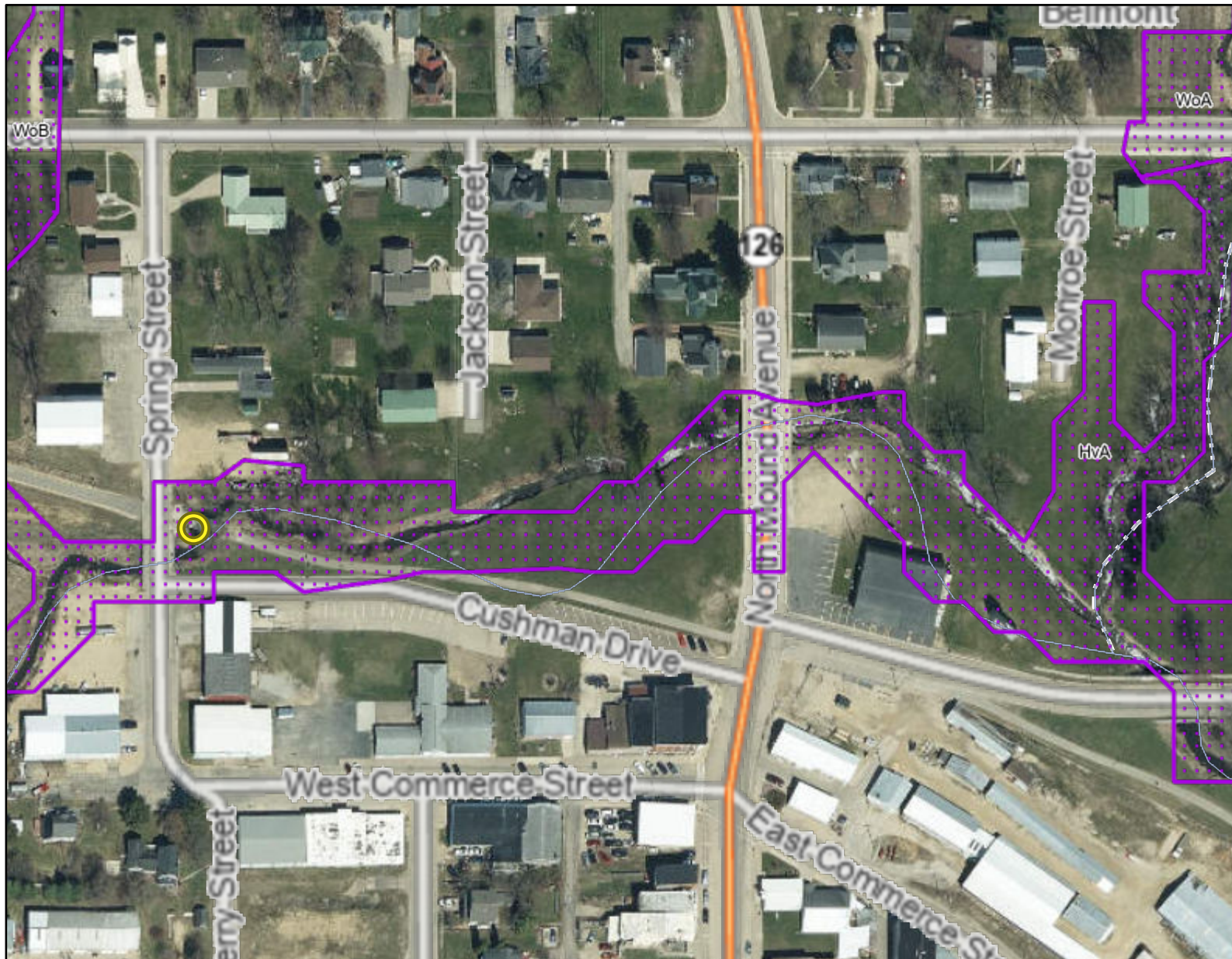


View of pile not bearing on east abutment pier cap, looking east.



View of pier cap end decay, looking south.





Legend: (some map layers may not be displayed)

- Wetland Indicators
- Rivers and Streams
- Intermittent Streams
- 24K Intermittent Streams
- 24K Streams and Rivers
- City or Village
- County Boundaries
- Major Roads
- State Highway
- County and Local Roads
- Local Road
- Latest Leaf Off Imagery

Notes:



Map: 0 150 300 Feet
0 40 80 Meters

Service Layer Credits:

Latest Leaf Off: , Wetland Indicators & Soils: Surface Water Data Viewer Team, Wisconsin Wetland Inventory NWI (Dynamic): Calvin Lawrence, Dennis Weise, Nina Rihn, Cities, Roads & Boundaries: , Surface Water (Cached): WiDNR, USGS, and other data

Map projection: NAD 1983 HARN Wisconsin TM

This map is a product generated by a DNR web mapping application.

This map is for informational purposes only and may not have been prepared for or be suitable for legal, engineering, or surveying purposes. The user is solely responsible for verifying the accuracy of information before using for any purpose. By using this product for any purpose user agrees to be bound by all disclaimers found here: <https://dnr.wisconsin.gov/legal>

Date Printed: 3/28/2025 3:17 PM



Tax Parcels: 106.0621.0000

Owner: DEPT OF NATURAL RESOURCES
STATE OF WISCONSIN

Primary Site Address:
Acreage: 0.00

[Click HERE to View Parcel Details in Ascent](#)

Zoom to



Outlook

RE: Lafayette County Bridge replacement #72 / DNR 33-005

From Jake Silkey <jsilkey@wheeler1892.com>

Date Mon 10/28/2024 3:33 PM

To Max Blackbourn <max.blackbourn@lafayettecountywi.org>

 1 attachment (264 KB)

T24249 Wheeler Quote 10.28.24.pdf;

Max,

Please find requested budget estimate attached. Please note this is for design and fabrication only. It does not include construction costs, for that see estimate below.

I have assumed a 50' bridge length. Quoted bridge is for a prefabricated steel truss with underhung floor beams to reduce structure depth and increase waterway clearance. This bridge will need to be supported by a legitimate abutment system with piling and rip rap. I have quoted a timber abutment system that will be supported by helical piles, supplied by others.

For total costs I would estimate the following:

Bridge supply: \$68,500

Abutment Supply: \$9,950

Construcion by others (including helical supply): \$70,000

Survey, H&H, Soil Borings: \$20,000

Please let me know if you have any questions.

Sincerely,

Jake Silkey, PE | Sales Engineer – Engineered Products | Wheeler
d. 262.229.4068 | jsilkey@wheeler1892.com

PROJECT: Bridge #72 Replacement Pecatonica State
Trail
Prefabricated Steel Truss Bridge
Lafayette, Co. WI



Wheeler Lumber LLC
Jake Silkey, PE
jsilkey@wheeler1892.com
262.229.4068

BID DATE:

Steel Truss Recreation Bridge

Bridge Size: 50' x 12'	Safety Railing: 42" Horizontal	Design Code: AASHTO LRFD
Truss Type: Parallel Chord	Rail Spacing: AASHTO	Weld Code: AWS D1.1
Web: Pratt	Rub Rail: NA	Live Load: 90 psf
X-Section: Underhung	Handrail: NA	Vehicle Load: H-12.5
Shipped as: 1 piece	Decking: Wood Plank	Finish: SP-7
Field Splices: None	Species: DFL	Coverage: Highly Visible
Lifting Weight: 19,150 lb	Preservative: QNAP	Bearings: Teflon/Stainless

Item lump sum / ea... **\$68,500.00**

Timber Abutments – 4' Height

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

Lump Sum Total \$9,950.00

Additional Notes:

- Decking shop installed.
- Lifting weight is for fully assembled bridge (decking included).
- Detailed, written instructions in the proper lifting procedures and splicing procedures (if required) will be provided. The method and sequence of erection shall be the responsibility of others.
- Includes a drill and epoxy anchor system (bolts, nuts, washers, and epoxy for normal bearing installation).
- Does not include the cost of unloading, installation, approach railing or substructure design/materials.

Wheeler maintains AISC certification for Intermediate Bridge Fabricator with Fracture Critical Endorsement. The bridge(s) will be fabricated in Wheeler's facility in accordance with our AISC approved Quality Manual. Work will be performed by AWS certified welders, supervised and inspected by Certified Weld Inspectors in accordance with our QC procedures. The Buyer is welcome to visit our facility for shop inspection. Wheeler will notify the Buyer when fabrication is scheduled. Reasonable accommodation will be made to facilitate inspection scheduling, but Wheeler reserves the right to perform work as needed to expedite project backlogs. Any lost production time due to inspection delays not the fault of Wheeler will be billed to the project.



111 Willow Street
Colfax, WI 54730
(715) 962-2800
FAX: (715) 962-2801

PROPOSAL

November 14, 2024

To: Lafayette County Snowmobile Trail Administrator

Re: ATV/Snowmobile Bridge Budget

- 1 - **50' x 12' (clear width) steel truss bridge**
- Design Standards: **AASHTO**
 - Diagonals per Panel: **1**
 - Clear width: **Inside face structural elements at deck level**
 - End Vertical: **Square**
 - Bearings: **Equal Elevations**
 - Steel Grade: **A588/A847 (Unpainted self-weathering)**
 - Deck: **#1 Southern Yellow Pine (.40 MCA)**
 - Safety Rails: **Horizontal (4" opening)**
 - Installation: **Steel piling and/or concrete abutments**
 - Loads: **85 psf live load - 35 psf wind load – 25,000 lbs. vehicle load**
 - FOB: **Lafayette County, WI**
 - Engineered Drawings State Seal: **Wisconsin**

Price-----\$109,000

• Structure (Steel Truss)	\$43,000
• Engineering	\$4,000
• Soil Testing	\$0
• Site Prep	\$5,000
• Abutments	\$15,000
• Labor	\$10,000
• Rip Rap	\$2,000
• Demolition	\$15,000
• H&H Study	\$15,000

*****This price is for budgetary purposes only*****

Please call with any questions.

Thank you,

Kory S. Weathers