

#72 Forest Co Otter Creek New Bridge

State of Wisconsin  
 Department of Natural Resources  
[dnr.wi.gov](http://dnr.wi.gov)

**Motorized Recreation Grant Application**

For: (choose all that apply)

Form 8700-159 (R 02/2024)

Page 1 of 5

**Due Date: April 15**

ATV/UTV Trail Aid

Snowmobile Trail Aid

**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 Forest County Forestry and Recreation			Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input type="checkbox"/> Select if the same as applicant.		
Individual Authorized to Act on Behalf of Applicant per Resolution Travis Wollenberg			Check Recipient Name (Name to Appear on Check) Forest County Forestry and Recreation Department		
Title Forest Administrator			Title		
Address 200 E Madison Street			Address 200 E Madison Street		
City Crandon	State WI	ZIP Code 54520	City Crandon	State WI	ZIP Code 54520
Telephone Number (715) 478-3475		Email Address travis@co.forest.wi.us			

**Section 2: Project Information Required for all Projects**

Project Title United States Forest Service Otter Creek Bridge Development					Current Funded Miles	New Miles (if applicable)
County Forest	Township 35 N	Range 15	Section 35	¼ ¼ ¼	GPS Coordinates: Lat. 45.2818 Long. -88.5921	

**Project Description Summary**

United States Forest Service has requested that Forest County Forestry and Recreation Department apply for funding to develop a bridge over Otter Creek. This trail is part of Forest County state funded snowmobile miles. Through USFS Cost-Share Agreement Forest County has to maintain/develop bridges on USFS property. Currently, the creek does not have any existing bridges or culverts in place and a bridge is needed to protect the water quality, and bank erosion. Existing trail is used only for snowmobile season but constant wear from snowmobiles have developed the need for a bridge. USFS is providing engineering plans, on site over view and cost estimates for this project.

**The County has also applied for RTP funds. If awarded, \$191,568.80 would be RTP (80%), leaving the remaining \$47,892.20 for the Snow Program to fund for match (20%).**

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

**Estimated Cost**

Maintenance	Acquisition	Insurance	Development \$239,461.00	Bridge Rehab.	Trail Rehab.	Total Estimated Cost \$239,461.00
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Leave Blank – DNR Use Only

**Applicant Certification**

Printed Name of Authorized Official Travis Wollenberg	Official's Title Forest Administrator
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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

4/11/24  
 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	Township	Range	Section	1/4	1/4	GPS Coordinates: Lat. 45.2818 Long. -88.5921
Forest	35 N	15	35			
Water Body Name Otter Creek			Bridge Name Otter Creek Bridge		County Inventory Number FC-10	
Funded Trail Name or Number (SNARS if applicable) 8A 30, 100 Miler Trail System			Has this bridge site ever received development or rehabilitation funds in the past? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Year: _____ \$ _____			
Bridge is located on: <input type="checkbox"/> Private property <input checked="" type="checkbox"/> Public property			Old Bridge/Culvert Size _____ New Bridge/Culvert Size 57'x12'			
Landowner Where Bridge is Located United States Forest Service			Telephone Number (715) 674-4481		Length of Trail Use Agreement (5 year minimum) 5 years with renewal agreement	
Current maximum load    0    lbs.		Age of Bridge		Bridge Material		
Proposed maximum load    25,000    lbs.		0		Wood		
Sponsoring Club Name N/A			Club Contact N/A		Telephone Number	
Do you have your trail bridges posted as to maximum load? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			What is the maximum load of the other bridges on the system if groomed with this bridge? 25,000 Lbs			
What is the weight of your puller & drag/grading equipment? 20000						
What other recreational trail uses are planned for this bridge? None-Trail is designated for snowmobiles for motorized use. All non-motorized use of the bridge is allowed						
If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users? N/A						
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Have you contacted your local <a href="#">DNR Water Management Specialist (WMS)</a> regarding a permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Is a permit needed? (Please provide any written correspondence from WMS.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Have you contacted your County Zoning Dept. regarding a floodplain determination? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Will an H & H (hydrologic and hydraulic) study be required?						

**Bridge Project Detailed Description**

USFS has approached Forest County Forestry and Recreation Department to apply for funding to install a bridge over Otter Creek located in the Town of Wabeno. This bridge would support an existing state funded snowmobile trail system. Without installation of a bridge this trail section could be subjected to closure losing numerous miles and connections. Currently, there is no culvert or bridge at this location and snowmobiles have been going through the creek to continue on the trail. To prevent any further erosion and protect water quality a bridge is needed. USFS is providing all the engineering, permitting, hydraulic studies for this project. This bridge will be made out of all wood timbers along with abutments. Forest County is applying for funding and contracting with contractor through bidding services to develop a new bridge in this location.



**From:** [Richardson, Nicole - FS, WI](#)  
**To:** [Pennucci, Jeff F - DNR](#)  
**Cc:** [Travis Wollenberg](#)  
**Subject:** RE: Follow-up from the Preliminary Council Meetings  
**Date:** Tuesday, July 30, 2024 1:27:54 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)  
[image010.png](#)

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Hi Jeff-

I reached out to the bridge engineer, and he provided this information regarding your questions, on the Otter Creek Bridge:

Regarding hydraulic capacity, a bridge is pretty much needed at this site over a culvert. This is a site with large peak floods. Screenshot at the bottom of this email shows the Q100 water elevation at the bridge deck. This is tighter than we normally allow, meaning the floods really are big (relative to crossing size), and providing a lot of freeboard would mean an unrealistically large bridge. All that to say, it would be tough to achieve our design criteria for floods with a culvert.

The site is also in the middle of a wetland and we need to minimize new wetland fill in our projects. A culvert in place of a bridge here would mean very large quantities of road raising and road fill on the approaches to achieve the necessary cover over the culvert. We'd get a hump in the trail with wide side slopes lots of new fill brought in and placed over the wetland, which likely would not hold up as well as a bridge in these wetland soils. The proposed three span bridge option has very minimal fill needed. The 57' length is ~2/3 due to the approach spans which are almost certainly in place to prevent ramping road fill to the center span of the bridge. Not to mention all that new fill and dewatering would be its own substantial cost. Bridge construction here will be easier, though with more expensive materials.

There's a couple other rules of thumb potentially at play here as well. We'll avoid culverts on remote crossings where getting equipment in for replacement/maintenance is hard during parts or all of the year - bridge maintenance is easier for a hand crew or clubs. Reasonably at a certain size, a culvert becomes impractical relative to a bridge for accommodating bankfull width.

Hopefully that answers your questions, but feel free to reach out if you need anything else.

Sincerely,



Nikki Richardson  
**Natural Resource Specialist**  
**Forest Service**  
**Chequamegon-Nicolet National Forest**  
P: 715-674-4481 x. 6229  
4978 US Highway 8 W  
Laona, WI 54541  
[www.fs.usda.gov](http://www.fs.usda.gov)  
 USDA, Twitter, and Facebook icons.  
**Caring for the land and serving people**

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**From:** Pennucci, Jeff F - DNR <Jeff.Pennucci@wisconsin.gov>  
**Sent:** Monday, July 29, 2024 12:15 PM  
**To:** Richardson, Nicole - FS, WI <Nicole.Richardson@usda.gov>  
**Cc:** Travis Wollenberg <Travis@co.forest.wi.us>  
**Subject:** FW: Follow-up from the Preliminary Council Meetings

Hi Nikki,

I am the DNR Grant Specialist processing this application request for the new bridge at Otter Creek. Recently, the Wisconsin Snowmobile Council's Infrastructure Subcommittee met to review all the projects and ask for any additional information that may be needed in order to make a funding decision at their full committee meeting at the end of August.

They had a question regarding this project: For the new bridge at Otter Creek, why does this need to be 57 feet in length? Would a culvert be sufficient?

I asked Forest County, but they indicated that USFS initiated the project request and the design. Are you able to provide any additional information about how this design was determined?

Thank you very much for your time!

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jeff Pennucci

Phone: (715) 499-1424

Fax: (715) 365-8932

[Jeff.Pennucci@Wisconsin.gov](mailto:Jeff.Pennucci@Wisconsin.gov)

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**From:** Travis Wollenberg <[Travis@co.forest.wi.us](mailto:Travis@co.forest.wi.us)>



**Sent:** Monday, July 29, 2024 11:21 AM  
**To:** Pennucci, Jeff F - DNR <[Jeff.Pennucci@wisconsin.gov](mailto:Jeff.Pennucci@wisconsin.gov)>  
**Cc:** Erin Lane <[forestryadmin@co.forest.wi.us](mailto:forestryadmin@co.forest.wi.us)>  
**Subject:** RE: Follow-up from the Preliminary Council Meetings

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Jeff,

USFS initiated the project. The person I work with through the FS is:



Nikki Richardson  
**Recreation Management Specialist**  
**Forest Service**  
**Chequamegon-Nicolet National Forest**

P: 715-674-4481 x. 6229

4978 US Highway 8 W  
Laona, WI 54541

[www.fs.usda.gov](http://www.fs.usda.gov)



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The other one is the engineer if you have questions for him. Like I said if grant is not funded we would more than likely lose miles.

## Travis Wollenberg

County Forest Administrator  
Forest County  
200 E Madison Street  
Crandon, WI 54520  
Email: [travis@co.forest.wi.us](mailto:travis@co.forest.wi.us)  
Phone: 715-478-3475  
Cell: 715-784-0068



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**From:** Pennucci, Jeff F - DNR <[Jeff.Pennucci@wisconsin.gov](mailto:Jeff.Pennucci@wisconsin.gov)>  
**Sent:** Monday, July 29, 2024 11:16 AM

**To:** Travis Wollenberg <[Travis@co.forest.wi.us](mailto:Travis@co.forest.wi.us)>  
**Cc:** Erin Lane <[forestryadmin@co.forest.wi.us](mailto:forestryadmin@co.forest.wi.us)>  
**Subject:** RE: Follow-up from the Preliminary Council Meetings

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Hi Travis,

Just a couple more questions for you on this. Are you working with someone at USFS? Who initiated this project (you or them)? Is there someone who can advocate for the project in the USFS if needed?

For instance, I have 2 bridges in Price County and maybe 2 in Ashland that are also on USFS property and there is a USFS trail person that is helping to advocate the applications and answer questions. Is there a counterpart for this project?

Thank you!

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Jeff Pennucci

Phone: (715) 499-1424

Fax: (715) 365-8932

[Jeff.Pennucci@Wisconsin.gov](mailto:Jeff.Pennucci@Wisconsin.gov)

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**From:** Travis Wollenberg <[Travis@co.forest.wi.us](mailto:Travis@co.forest.wi.us)>  
**Sent:** Monday, July 29, 2024 7:15 AM  
**To:** Pennucci, Jeff F - DNR <[Jeff.Pennucci@wisconsin.gov](mailto:Jeff.Pennucci@wisconsin.gov)>  
**Cc:** Erin Lane <[forestryadmin@co.forest.wi.us](mailto:forestryadmin@co.forest.wi.us)>  
**Subject:** RE: Follow-up from the Preliminary Council Meetings

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Jeff,

1. For the new bridge at Otter Creek, this is USFS property, and this is what they requested. USFS engineering deemed a bridge was necessary and never gave any options other than a bridge. It is a trout stream as well, so special culvert would have been needed. I can email the engineering plan I

was sent by the USFS prior to applying for this new bridge. If bridge is not funded Forest County will lose a good amount of miles due to FS potentially closing down trail do to stream crossing and erosion control matters.

Here is the contact info for the engineer at the FS if they have questions for him.



**Tyler LeMahieu, EIT**  
**Civil Engineer - Structures**  
**Forest Service**  
**Chequamegon-Nicolet National**  
**Forest**

**p: 715-499-5075**  
[tyler.lemahieu@usda.gov](mailto:tyler.lemahieu@usda.gov)

500 Hansen Lake Road  
Rhineland, WI 54501  
[www.fs.usda.gov](http://www.fs.usda.gov)



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**people**

Thank you,

**Travis Wollenberg**

County Forest Administrator  
Forest County  
200 E Madison Street  
Crandon, WI 54520  
Email: [travis@co.forest.wi.us](mailto:travis@co.forest.wi.us)  
Phone: 715-478-3475  
Cell: 715-784-0068



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**From:** Pennucci, Jeff F - DNR <[Jeff.Pennucci@wisconsin.gov](mailto:Jeff.Pennucci@wisconsin.gov)>

**Sent:** Friday, July 26, 2024 12:44 PM

**To:** Travis Wollenberg <[Travis@co.forest.wi.us](mailto:Travis@co.forest.wi.us)>; Erin Lane <[forestryadmin@co.forest.wi.us](mailto:forestryadmin@co.forest.wi.us)>

**Subject:** Follow-up from the Preliminary Council Meetings

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As you may be aware, at the end of June, the ORV Council and the Snow Infrastructure



Subcommittee both met and discussed any questions they had on all the projects submitted for this year. They had a few questions for you on your projects.

Snow Council:

1. For the new bridge at Otter Creek, why does this need to be 57 feet in length? Would a culvert be sufficient?

That is all the questions I have for all of your projects. Please provide a response and any documents by August 16 so that we can compile them for the funding meetings at the end of August.

Sincerely,

**We are committed to service excellence.**

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

**Jeff Pennucci**

Grants Specialist – Northern Region

Wisconsin Department of Natural Resources

107 Sutliff Ave.

Rhineland, WI 54501

Phone: (715) 499-1424

Fax: (715) 365-8932

[Jeff.Pennucci@Wisconsin.gov](mailto:Jeff.Pennucci@Wisconsin.gov)



[dnr.wi.gov](http://dnr.wi.gov)



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**Appendix A (continued)**

**Summarize Costs in Appropriate Categories:**

<b>Bridge Structure</b>			
		Quote 1	Quote 2
		<input type="radio"/> Steel <input checked="" type="radio"/> Wooden	<input type="radio"/> Steel <input checked="" type="radio"/> Wooden
Bridge Dimensions:		57'x12'	57'x12'
Bridge Manufacturer:	Wheeler	_____	UP Engineers & Architects, Inc.
Design Weight Load		25,000 lbs.	25,000 lbs.
Cost of Structure:	1. Engineering	\$ _____	\$ _____
	2. Structure	\$ 70,000	\$ 100,000
	<b>Subtotal</b>	<b>\$ 70,000</b>	<b>\$ 100,000</b>
		Quote 1	Quote 2
		<input type="radio"/> Contractor or <input checked="" type="radio"/> Sponsor Estimate	<input type="radio"/> Contractor or <input checked="" type="radio"/> Sponsor Estimate
<b>Installation Costs:</b>	1. Engineering	\$ _____	\$ _____
	2. Site Preparation	\$ 20,000	\$ 34,675
	3. Abutments	\$ 25,000	\$ _____
	4. Pilings/Piers	\$ 25,000	\$ 70,602
	5. Approaches	\$ 10,000	\$ 3,065
	6. Riprap	\$ 2,500	\$ 9,350
	7. Labor	\$ 55,000	\$ 21,769
	8. Equipment Rental	\$ _____	\$ _____
	9. Culverts	\$ _____	\$ _____
	10. H & H Study	\$ _____	\$ _____
	11. Wetland Delineation	\$ _____	\$ _____
	12. Other Mobilization	\$ 35,000	\$ _____
	<b>Subtotal</b>	<b>\$ 172,500</b>	<b>\$ 139,461</b>
	<b>Total Cost</b>	<b>\$ 242,500</b>	<b>\$ 239,461</b>

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

<b>Entire Deck and Railing Projects</b>		<input type="radio"/> Contractor	<input type="radio"/> Sponsor	<input type="radio"/> Club
Bridge Dimensions:	_____			
Design Weight Load	_____ lbs.			
1. Materials	\$ _____			
2. Labor	\$ _____			
<b>Total</b>	<b>\$ _____</b>			

Project Name: USFS Otter Creek Bridge		Prepared By: Travis Wollenberg	Date: 01/09/2024
County: Forest	Project Applicant: Forest County Forestry and Recreation	Landowner Name: United States Forest Service	<input checked="" type="radio"/> Public <input type="radio"/> Private

Indicate - (C) Contract, (F) Force Acct., (D) Donated

	DEVELOPMENT PROJECT ITEMS <i>List by individual item or break down by Use Areas (See Item List On Back Of This Form)</i>	Quantity	Unit of Measure	Component Costs	Estimated Total Item Cost
C	Mobilization	1	LPSM	\$22,000.00	22,000.00
C	Construction Survey and Staking, Method 1, Tolerance Class C	1	LPSM	\$9,000.00	9,000.00
C	Silt Fence	170	LNFT	\$2.50	425.00
C	Structure Excavation	9	CUYD	\$250.00	2,250.00
C	Riprap, Class I, Machine Placed	25	CUYD	\$350.00	8,750.00
C	GeoTextile, Type III, Class I	30	SQYD	\$20.00	600.00
C	Aggregated Base, Grading D, Compaction Method B	4	CUYD	\$380.00	1,520.00
C	Furnish Pile Drilling Equipment	1	LPSM	\$25,000.00	25,000.00
C	Helical Piles, Furn	320	LNFT	\$85.00	27,200.00
C	Helical Piles, Driven	320	LNFT	\$10.00	3,200.00
C	Structural Steel Plate, Fabricated, Furn, and Erect	1,031	LBS	\$6.50	6,701.50
C	Treated Structural Timber, Substructure	1	LPSM	\$8,500.00	8,500.00
C	Treated Structural Timber, Superstructure	1	LPSM	\$100,000.00	100,000.00
C	Signs, Type III Sheeting	10	SFT	\$18.50	185.00
C	Post, Wood, 4-inch X 4-inch	60	LNFT	\$15.00	900.00
C	Object Markers, Type 3	4	Each	\$115.00	460.00
C	Temporary Traffic Control	1	LPSM	\$1,000.00	1,000.00
C	Labor	1		\$21,769.00	21,769.00
<b>TOTAL \$</b>					<b>\$239,460.50</b>

**NOTE:**

- For development projects, contingency and indirect costs are not 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.

Category		Possible Points	Actual Points
1	<b>Condition of the Structure</b> (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	0 new
2	<b>Permits</b> (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	<b>Funding</b> (maximum points 2) Are other funds already committed?		
	50% or greater from other funding source(s)? <b>RTP applied for</b>	2	2
	11% - 49% from other funding source(s)?	1	
4	<b>Length of Written Easements or Land Use Agreement</b> (max points 5)(ch. 23.09(26)(am)1 WI Stats)		
	On public land (County, State, Federal)	5	5
	10 or more year <b>deeded easement</b> on private land or other public land, for <u>all portions of that trail to the nearest road on each side of the bridge</u>	5	
	3-9 year <b>deeded easement</b> on private land or other public land, for <u>all portions of that trail to the nearest road on each side of the bridge</u>	4	
	10 or more year <b>deeded easement</b> on private land or other public land, for <u>just the bridge site</u>	3	
	3-9 <b>deeded easement</b> 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	<b>Miles Impacted</b> – 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:	4	
	<b>DEDUCTIONS</b>		
6	<b>County Active Project Deduction</b> (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	0
<b>GRAND TOTAL</b>			<b>11</b>

Comments/Notes:

Without a bridge, this would result in a very long re-route. Shorter reroute options would still need a water crossing/bridge to be installed.



# Forest County Snowmobile Trails

2023-2024



**Trail Information**

**100 Mile Snow Safari**  
 www.100milesnowsafari.com  
 Blackbear Sportsman's Club  
 www.blackbearclub.com  
 Lumberjack Memorial Trails  
 www.lmttrails.com

**Three Lakes Trails**  
 www.threelakes.com  
 Tombstone/Pickrel  
 www.tombstonepickrel.com

**Forest County Information**

Snowline: (715) 478-2024  
 Website: www.forestcountywi.com  
 Tourism: (715) 478-3450 or 1-800-334-3387

**US Forest Service**  
 715-674-4481  
 www.fs.usda.gov/main/fcnf

**Legend**

- 100 Mile Snow Safari
- Blackbear Sportsman's Club
- Lumberjack Memorial (LMT)
- Nicolet State Trail
- Three Lakes Trails
- Tombstone/Pickrel
- Wolf River State Trail
- Intersection
- Gas Available
- Corridor

Numbered Pit Stops relate in color to Club Membership.

Please Patronize These Businesses

Map Compliments of: Forest County Snowmobile Clubs

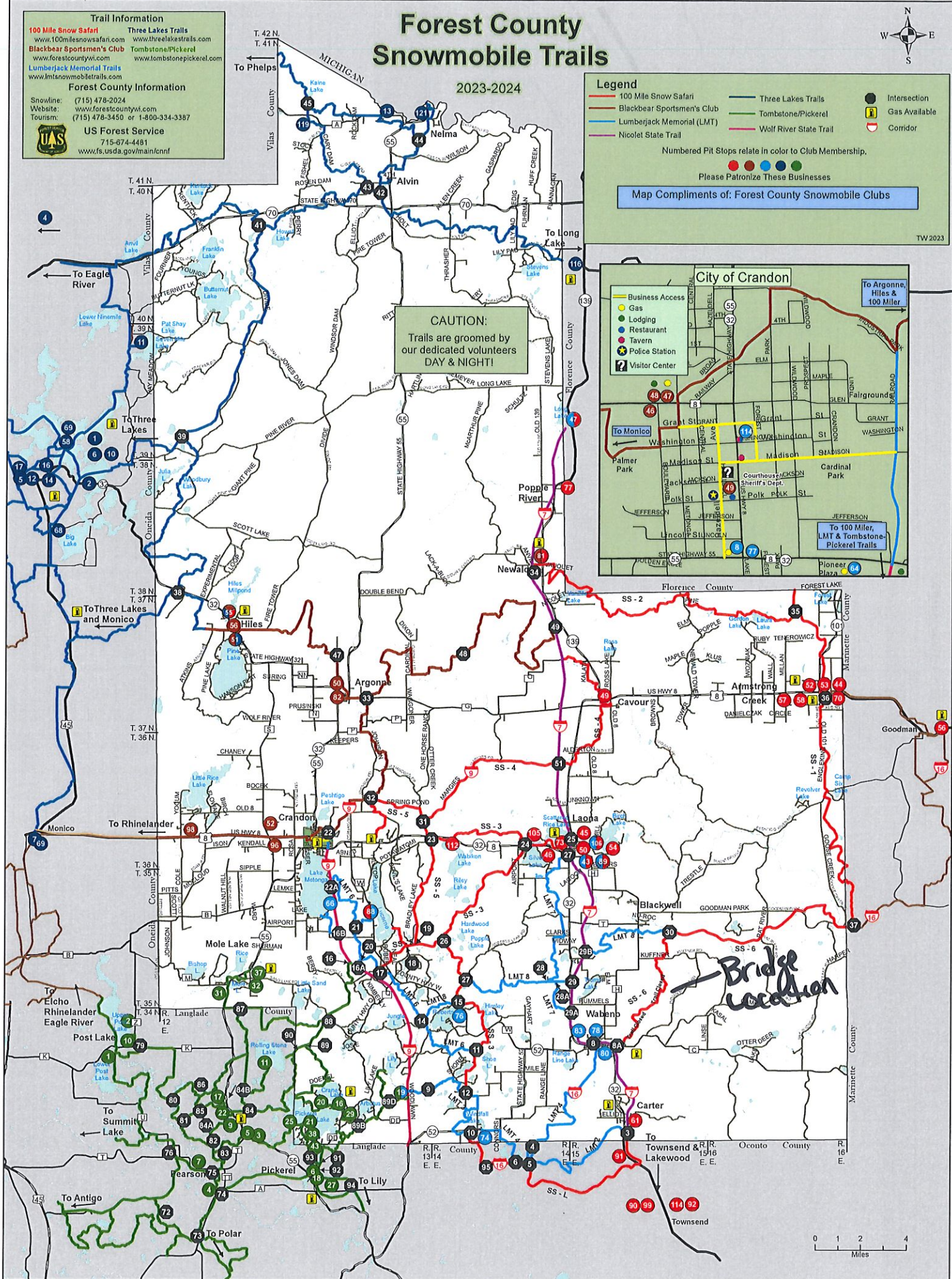
TW 2023

**CAUTION:**  
 Trails are groomed by our dedicated volunteers  
**DAY & NIGHT!**

**City of Crandon**

- Business Access
- Gas
- Lodging
- Restaurant
- Tavern
- Police Station
- Visitor Center

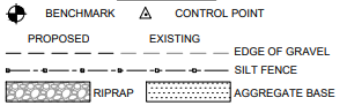
Map showing streets in Crandon, WI, including Washington, Madison, and Grant streets. Landmarks include Palmer Park, Courthouse, Sheriff's Dept., and Pioneer Plaza.



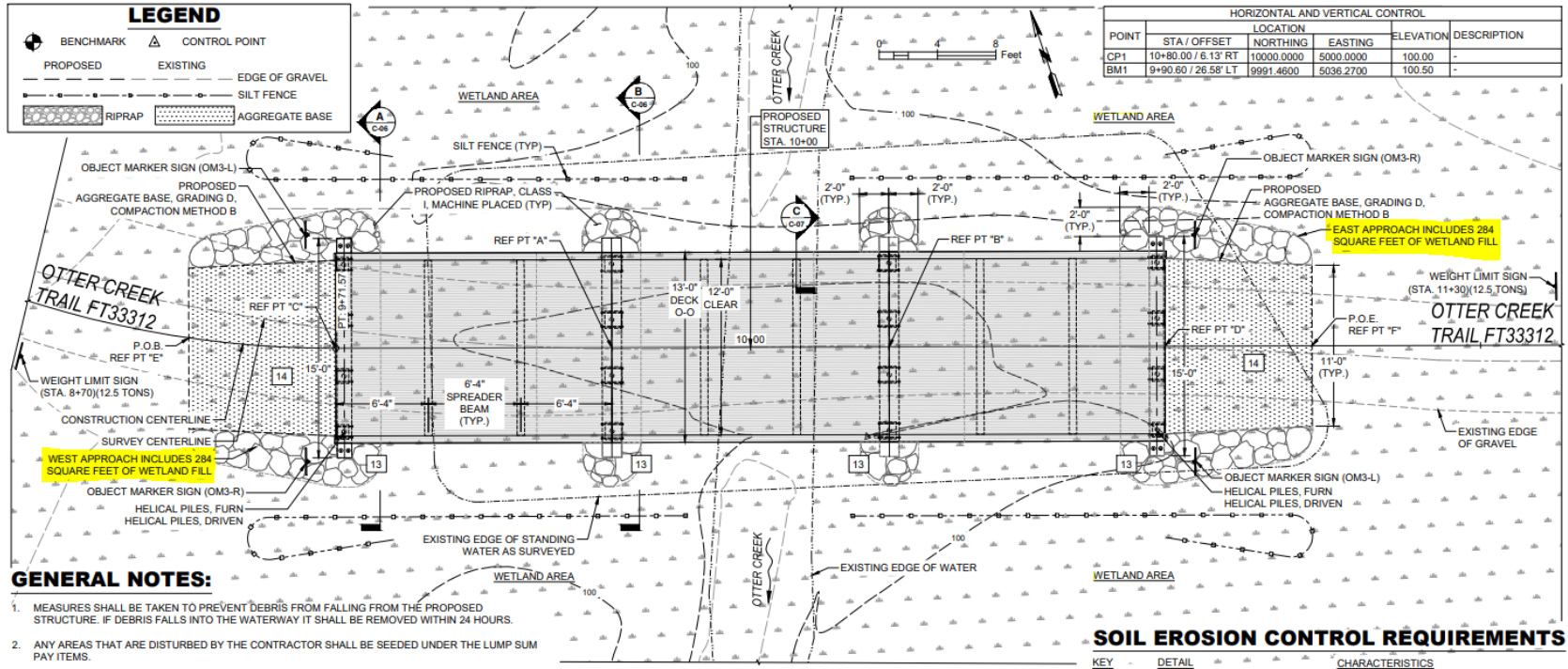
*Bridge Location*



**LEGEND**



HORIZONTAL AND VERTICAL CONTROL					
POINT	STA / OFFSET	LOCATION	EASTING	ELEVATION	DESCRIPTION
CP1	10+80.00 / 6.13' RT	NORTHING	5000.0000	100.00	-
BM1	9+90.60 / 26.58' LT		9991.4600	5036.2700	-



**GENERAL NOTES:**

- MEASURES SHALL BE TAKEN TO PREVENT DEBRIS FROM FALLING FROM THE PROPOSED STRUCTURE. IF DEBRIS FALLS INTO THE WATERWAY IT SHALL BE REMOVED WITHIN 24 HOURS.
- ANY AREAS THAT ARE DISTURBED BY THE CONTRACTOR SHALL BE SEEDED UNDER THE LUMP SUM PAY ITEMS.
- PROVIDE SMOOTH TRANSITION FROM EXISTING TO PROPOSED ROADWAY AT REFERENCE POINTS "E" AND "F". FADE OR EXTEND PROFILE SLIGHTLY AS REQUIRED.

**BRIDGE PLAN**

**SOIL EROSION CONTROL REQUIREMENTS**

KEY	DETAIL	CHARACTERISTICS
13	RIPRAP, RUBBLE, GABIONS	USED WHERE VEGETATION IS NOT EASILY ESTABLISHED. EFFECTIVE FOR HIGH VELOCITIES OR HIGH CONCENTRATIONS. PERMITS RUNOFF TO INFILTRATE



EASTERN REGION

PROJECT NAME  
**OTTER CREEK TRAIL BRIDGE FT33312**

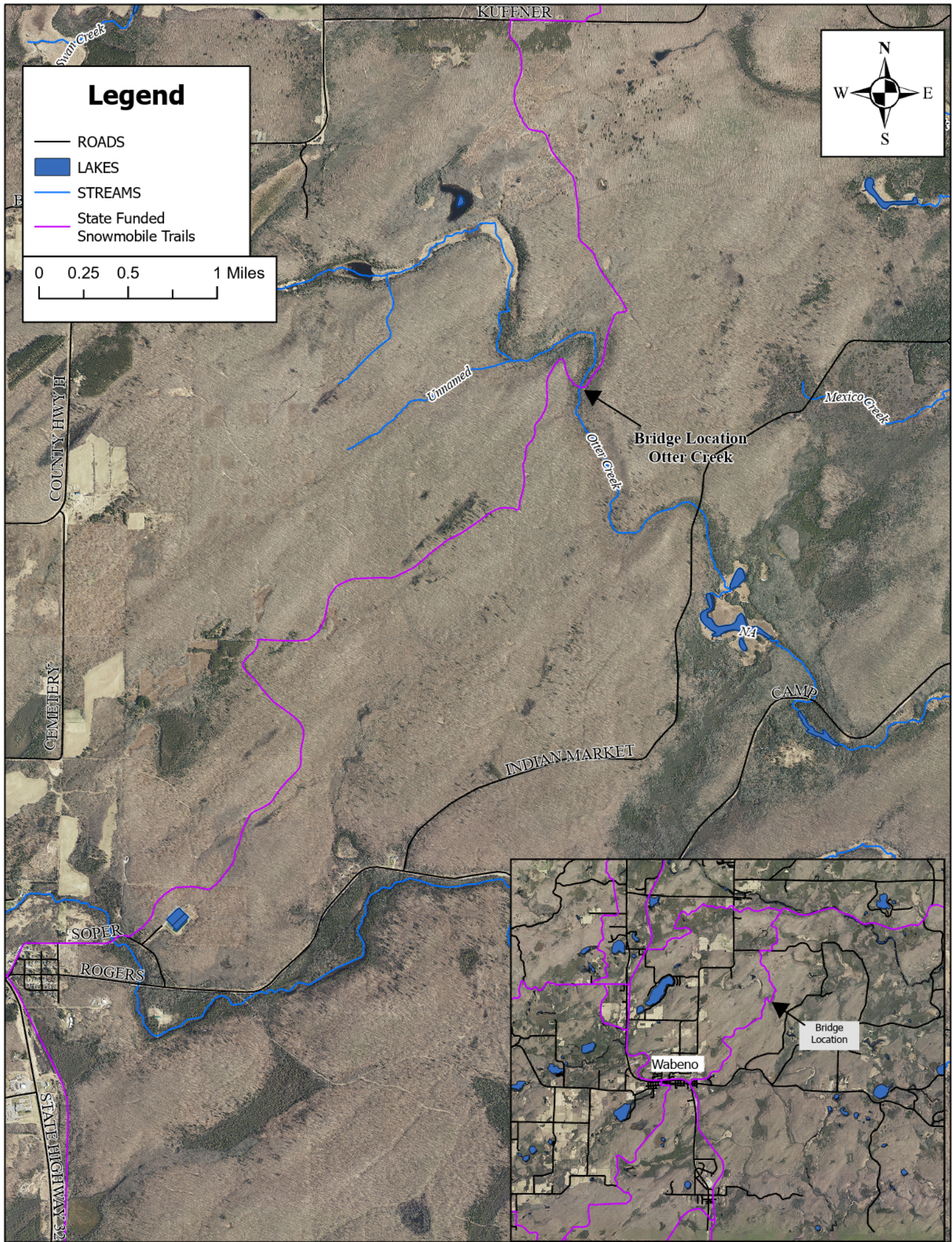
**CHEQUAMEGON - NICOLET NATIONAL FOREST**

LAKWOOD-LAONA RANGER DISTRICT

DRAWING TITLE  
**PLAN & PROFILE**

OTTER CREEK/OTTER CREEK TRAIL BRIDGE FT33312.DWG



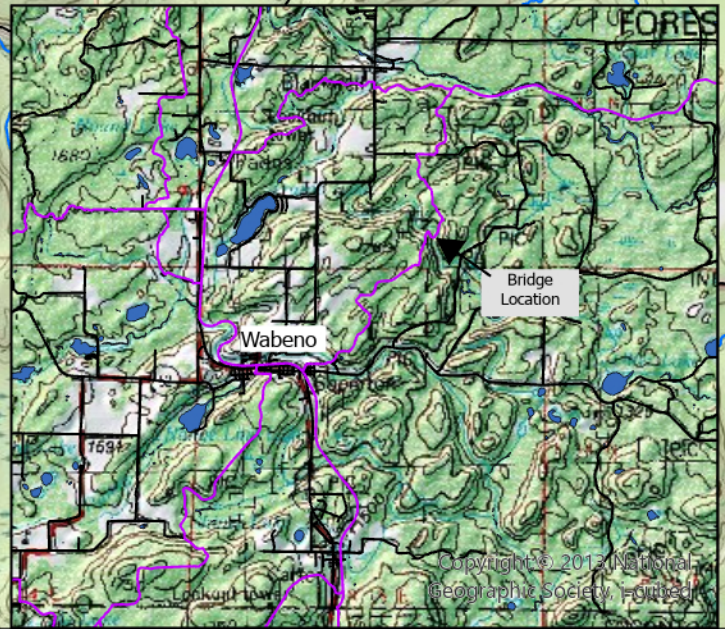
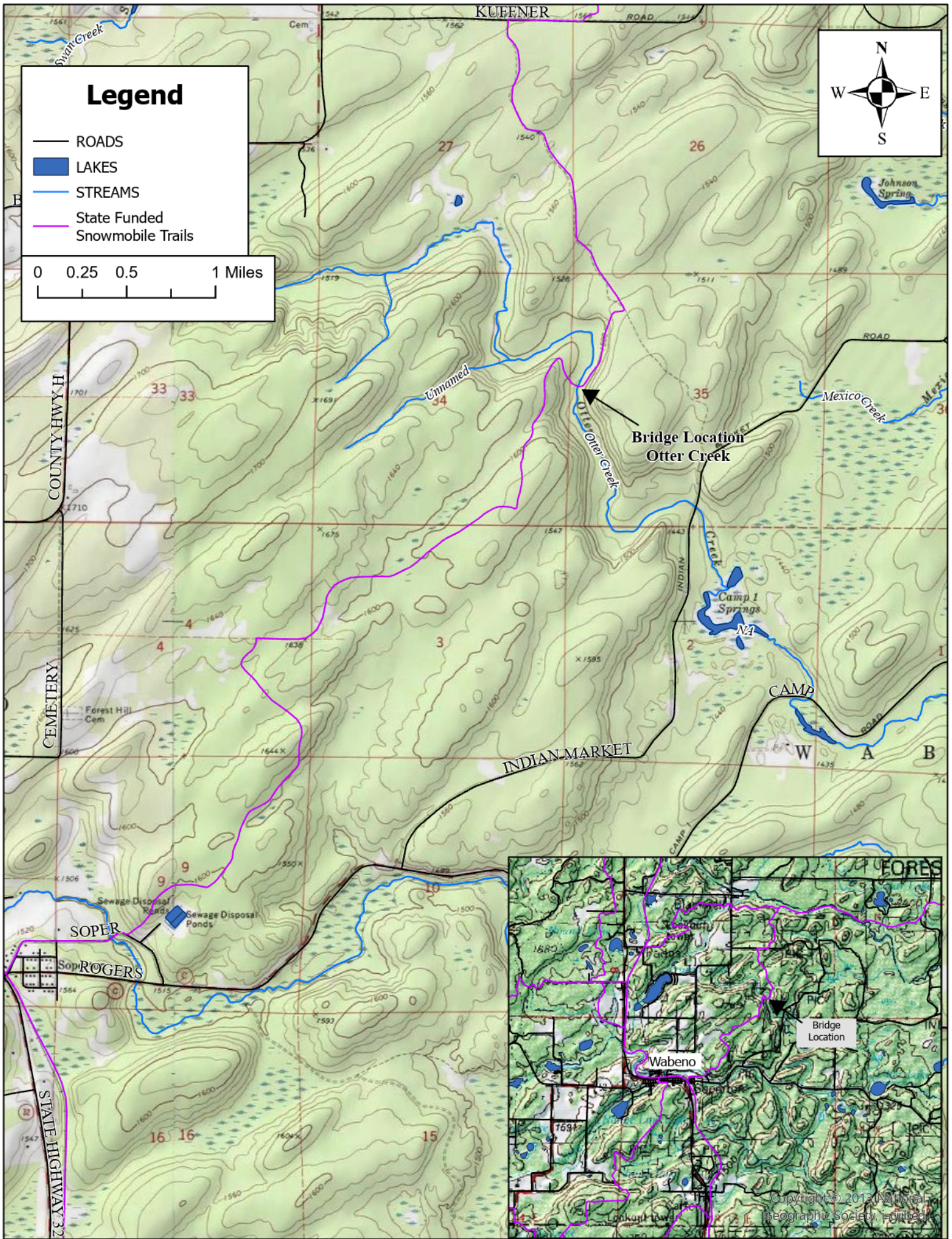




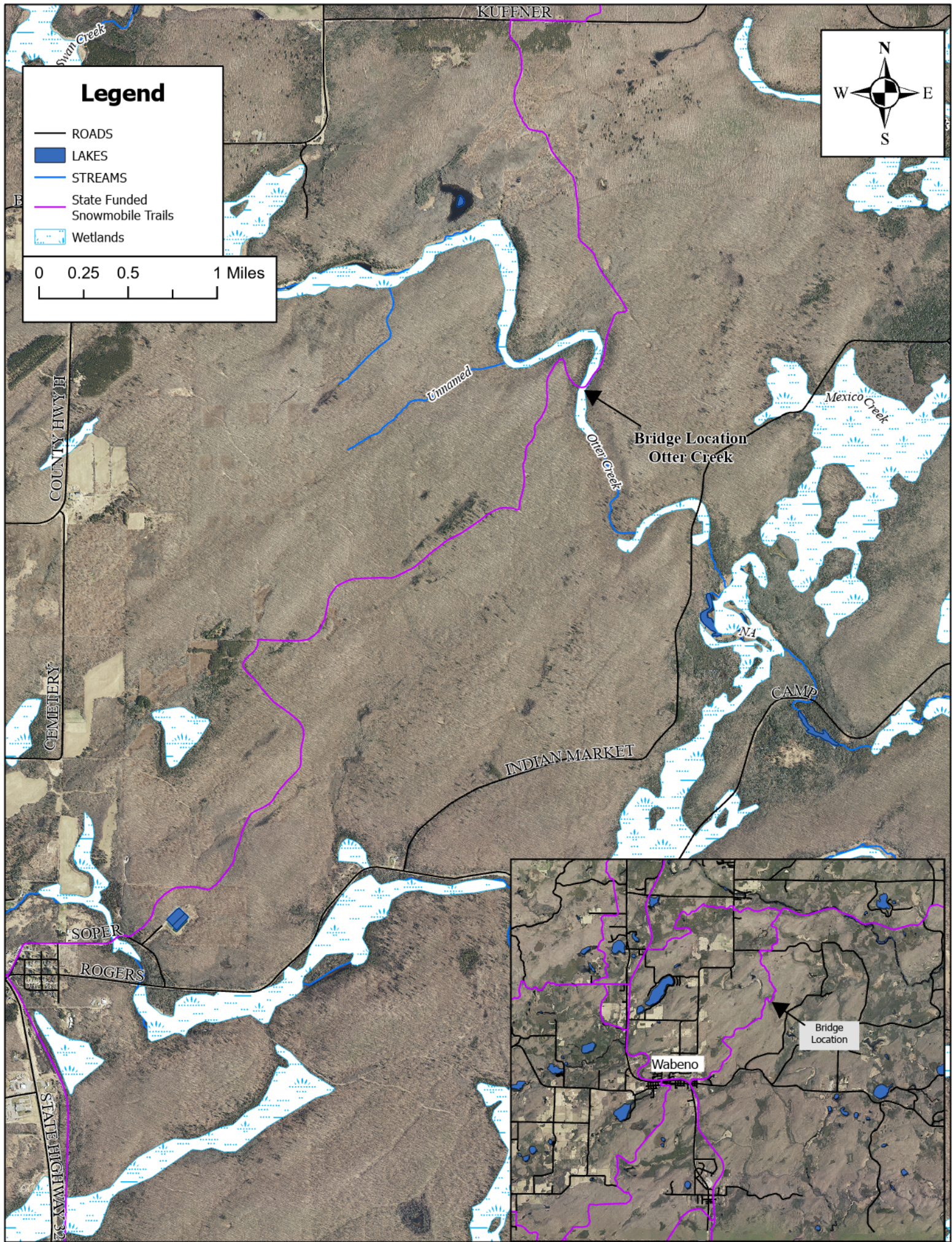
# Legend

- ROADS
- LAKES
- STREAMS
- State Funded Snowmobile Trails

0 0.25 0.5 1 Miles

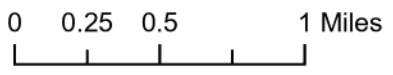






### Legend

- ROADS
- LAKES
- STREAMS
- State Funded Snowmobile Trails
- Wetlands



Bridge Location  
Otter Creek

Bridge Location

Wabeno

COUNTY HWY H

CEMETERY

SOPER

ROGERS

STATE HIGHWAY 32

INDIAN MARKET

KUFFNER

Ummed

Otter Creek

Mexico Creek

CAMP



# Otter Creek @ Snowmobile Trail

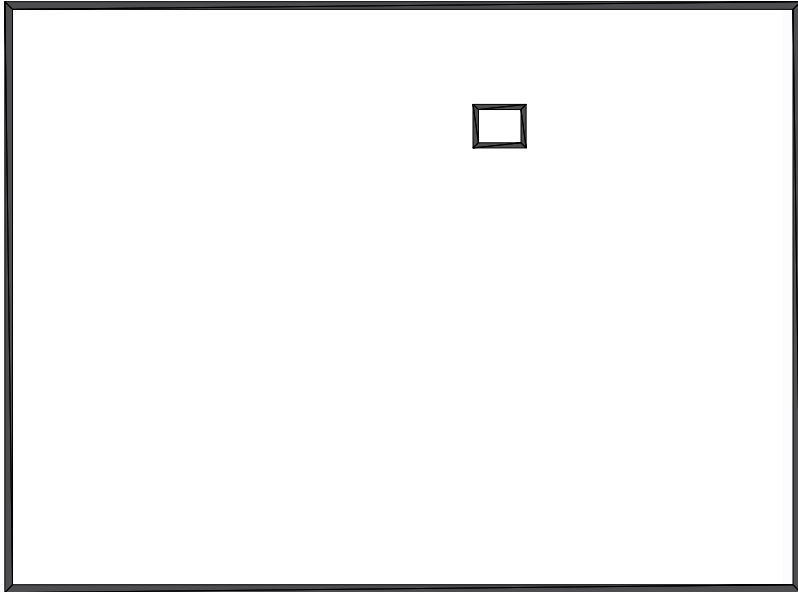




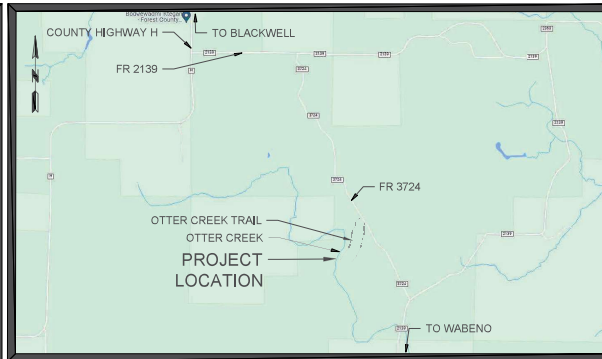
United States Department of Agriculture  
Forest Service

**EASTERN REGION**  
**CHEQUAMEGON - NICOLET NATIONAL FOREST - LAKEWOOD-LAONA RANGER DISTRICT**  
**FOREST COUNTY**  
**WISCONSIN**

**OTTER CREEK TRAIL BRIDGE FT33312**



**PROJECT LOCATION**



**PROJECT SITE**

**PROJECT LOCATION:** FROM THE FOREST COUNTY HWY T / FOREST COUNTY HWY H INTERSECTION IN BLACKWELL, WISCONSIN, HEAD SOUTH ON FOREST COUNTY HWY H FOR 1.5 MILES, THEN TURN LEFT ONTO FR 2139 (KUFFNER ROAD), CONTINUE ON FR 2139 FOR 0.7 MILES, THEN TURN RIGHT ON TO FR 3724, CONTINUE ON FR 3724 FOR 1.3 MILES, THEN TURN RIGHT ON TO FR 833431 (SNOWMOBILE TRAIL), CONTINUE TO POB OF PROJECT.

STRUCTURE NUMBER: 091303-33312-24.0000 (LAT 45,2818, LONG -88,5921)  
PROPOSED PROJECT DESCRIPTION:  
87 FOOT THREE SPAN, DOWEL-LAM SLAB BRIDGE WITH HELICAL PILE FOUNDATIONS.  
DESIGN SPEED: N/A  
AADT: N/A

INDEX OF SHEETS		
SHEET	SHEET TITLE	DATE
G-01	TITLE SHEET	7/24/2023
C-02	QUANTITIES, DESIGN DATA, & GENERAL NOTES	7/10/2023
C-03	TEMPORARY TRAFFIC CONTROL PLAN	7/10/2023
C-04	TYPICAL SECTIONS	7/24/2023
C-05	PLAN & PROFILE	7/10/2023
C-06	STRUCTURE DETAILS	7/24/2023
C-07	STRUCTURE DETAILS	7/24/2023
C-08	SOIL BORINGS	7/10/2023



Gust Juntilla  
Jul 24 2023 4:19 PM

**RECOMMENDED BY:**

FOREST ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

DISTRICT RANGER \_\_\_\_\_ DATE \_\_\_\_\_

FOREST SUPERVISOR \_\_\_\_\_ DATE \_\_\_\_\_

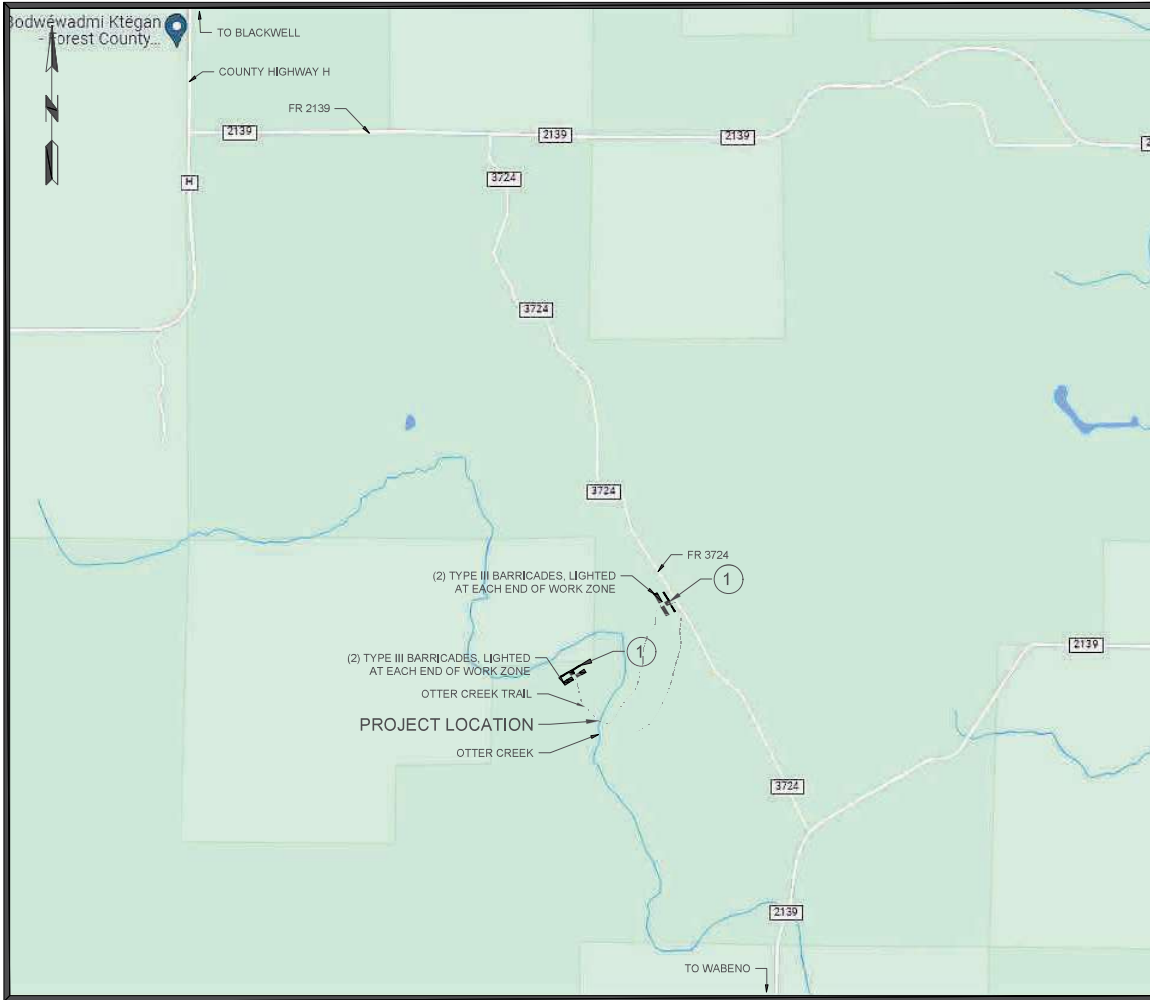
R9 BRIDGE PROGRAM MANAGER \_\_\_\_\_ DATE \_\_\_\_\_

**APPROVED:**

R9 DIRECTOR OF ENGINEERING \_\_\_\_\_ DATE \_\_\_\_\_



7/10/23 11:29 JALLEN E:\USERS\JALLEN\USDA FS 101\USFS BRIDGE\101 - CNF - OTTER CREEK\OTTER CREEK TRAIL BRIDGE FT33312.DWG



TRAFFIC CONTROL PLAN - ROAD CLOSURE



**TRAFFIC CONTROL PLAN KEY**

- SIGN
- TYPE III BARRICADE

ALL SIGNS, EXCEPT THOSE MOUNTED ON TYPE III BARRICADES SHALL BE MOUNTED ON DRIVEN POSTS AT A 7 FOOT BOTTOM HEIGHT.

**DETOUR NOTES:**

A DETOUR ROUTE IS NOT AVAILABLE FOR THE PROJECT LOCATION.



United States Department of Agriculture  
Forest Service

EASTERN REGION

PROJECT NAME

**OTTER CREEK  
TRAIL BRIDGE  
FT33312**

**CHEQUAMEGON -  
NICOLET  
NATIONAL FOREST**

**LAKEWOOD-LAONA  
RANGER DISTRICT**

DRAWING TITLE

**TEMPORARY  
TRAFFIC  
CONTROL**

DATE

7/10/2023

ARCHIVE NO.

DESIGNER

D.CARTER

DRAWN

J.ALLEN

CHECKED

G.JUNTILA

PROJECT NO.

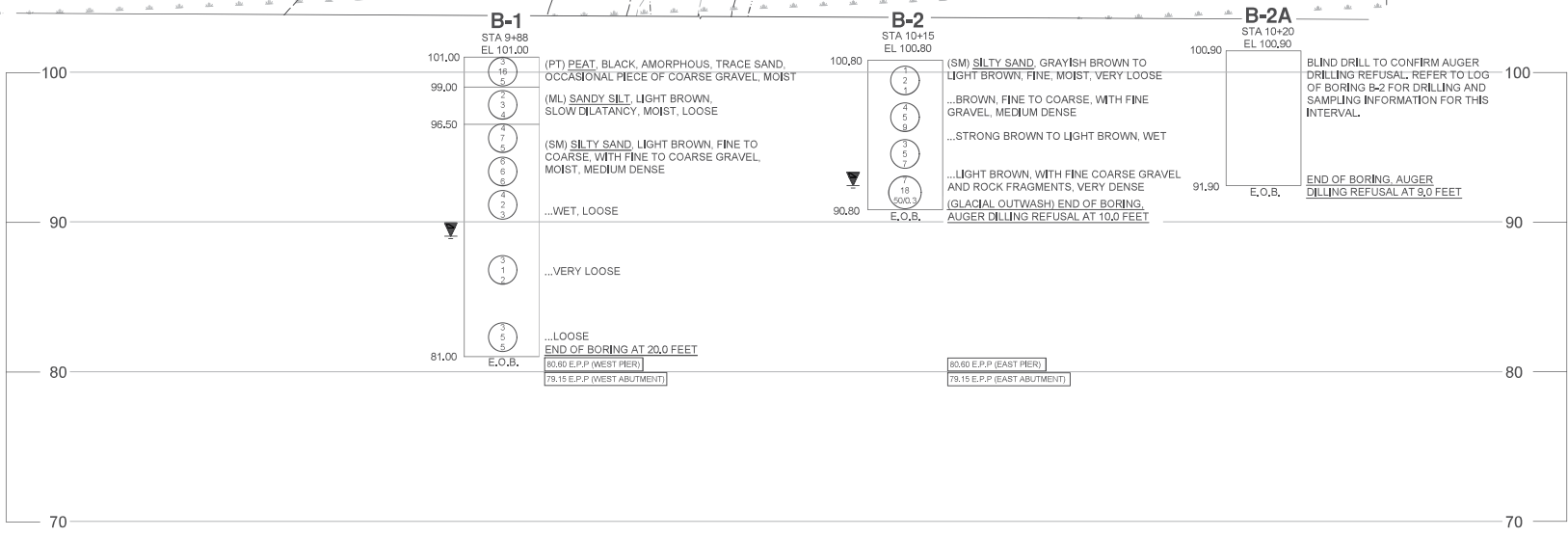
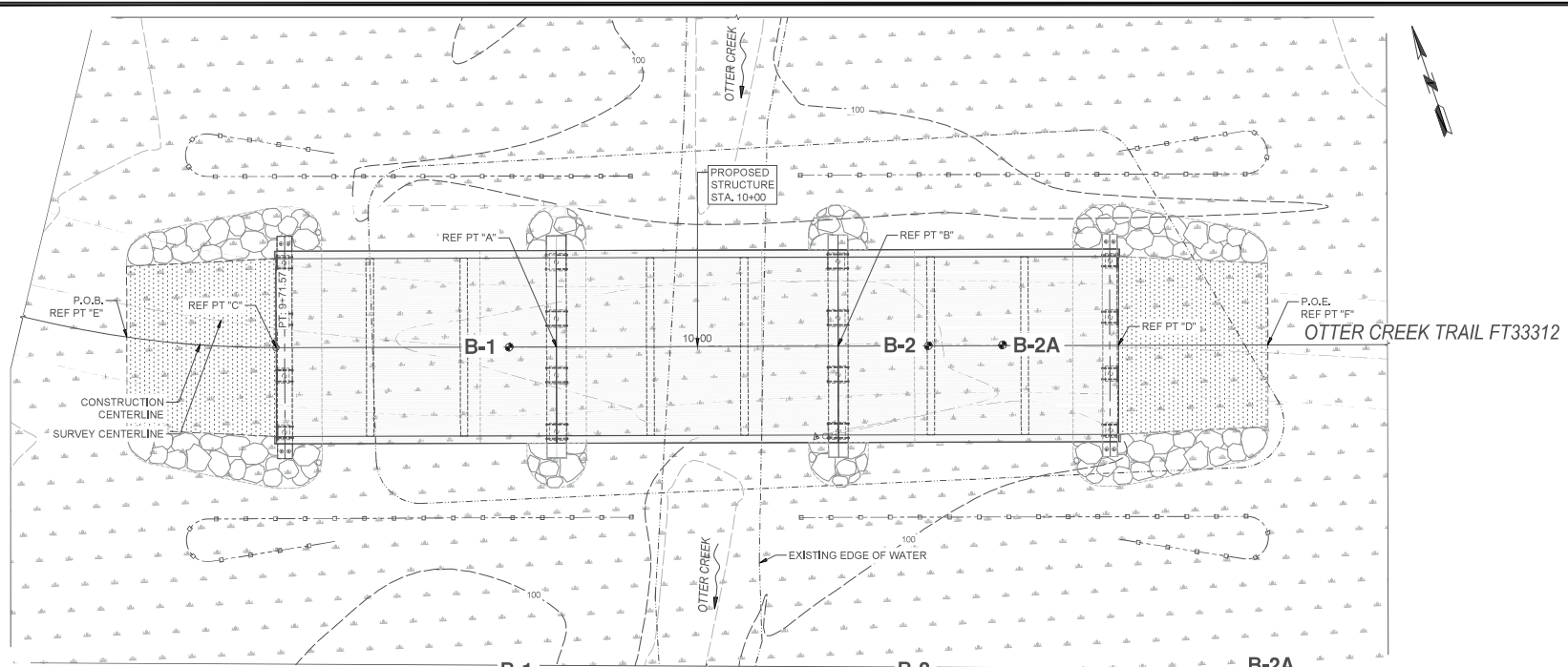
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DWG SHEET NO.

**C-03**

SHEET 3 OF 8

7/10/23 11:29 JALLEN C:\USERS\JALLEN\USDA\08-09-23\15145\5 BRIDGE (M3) - 21 BRIDGE\DWG\TASK 10 - CNF - OTTER CREEK\OTTER CREEK TRAIL BRIDGE FT33312.DWG.



United States Department of Agriculture  
Forest Service

EASTERN REGION

PROJECT NAME

**OTTER CREEK TRAIL BRIDGE FT33312**

CHEQUAMEGON - NICOLET NATIONAL FOREST

GREAT DIVIDE RANGER DISTRICT

DRAWING TITLE

**SOIL BORINGS**

DATE

7/10/2023

ARCHIVE NO.

DESIGNER	DWG SHEET NO.
D. CARTER	<b>C-08</b>
DRAWN	
J. ALLEN	

CHECKED

G. JUNTTILA

PROJECT NO.

U28-02592

SHEET 8 OF 8