

#23 Iron Co Hurd Creek Crossing

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)

Due Date: April 15

- ATV/UTV Trail Aid
- Snowmobile Trail Aid

50/50

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 Iron County Forestry Department | | | Check Recipient: Individual other than authorized individual to act on behalf of the applicant. <input checked="" type="checkbox"/> Select if the same as applicant. | | |
| Individual Authorized to Act on Behalf of Applicant per Resolution Eric Peterson | | | Check Recipient Name (Name to Appear on Check) | | |
| Title Forest Administrator | | | Title | | |
| Address 607 3rd Ave N Suite 2 | | | Address | | |
| City Hurley | State WI | ZIP Code 54534 | City | State | ZIP Code |
| Telephone Number (715) 561-2697 | | Email Address icfadmin@ironcountyforest.org | | | |

Section 2: Project Information Required for all Projects

| | | | | | | |
|--|------------------|------------|--------------|---------------|----------------------|--|
| Project Title Trail 9 Hurd Creek Bridge | | | | | Current Funded Miles | New Miles (if applicable) |
| County Iron | Township 42 N | Range 1 | Section 1 | 1/4 1/4 NE | 1/4 NE | GPS Coordinates: Lat. 46.152301 Long. -90.304774 |

Project Description Summary

See attached

Total recreation bridge project = ~\$36,151.00
 Snow 50% = \$18,075.50
 ATV 50% = \$18,075.50

County will pay for the difference to reinforce the bridge for forestry truck use.

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

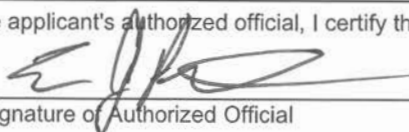
Estimated Cost

| Maintenance | Acquisition | Insurance | Development | Bridge Rehab. | Trail Rehab. | Total Estimated Cost |
|----------------------------|-------------|-----------|-------------|---------------|--------------|----------------------|
| | | | | 36,150.78 | | |
| Leave Blank – DNR Use Only | | | | | | |
| | | | | | | |

Applicant Certification

| | |
|--|--|
| Printed Name of Authorized Official Eric J Peterson | Official's Title Forest Administrator |
|--|--|

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

4/8/2024
 Date Prepared

Motorized Recreation Grant Application

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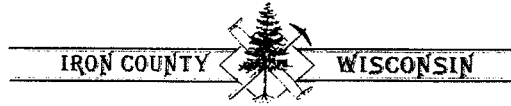
Appendix A – Required for Bridge Rehab/Replace, New, or Reroute with New Bridge

Bridge Rehab/Replace
 New Bridge
 Reroute with new bridge

| | | | | | | | |
|---|------------------|---------------|--------------|--|-----------|--|--|
| County Iron | Township 42 N | Range 1 | Section 1 | <input checked="" type="radio"/> E <input type="radio"/> W | ¼ ¼ NE | ¼ NE | GPS Coordinates: Lat. 46.152301 Long. -90.304774 |
| Water Body Name Hurd Creek | | | | Bridge Name Hurd Creek Bridge | | County Inventory Number | |
| Funded Trail Name or Number (SNARS if applicable) 9 | | | | 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 2 - 30" culverts New Bridge/Culvert Size 12'x25' bridge | | | |
| Landowner Where Bridge is Located Ashland County Forest | | | | Telephone Number 715-769-3777 | | Length of Trail Use Agreement (5 year minimum) | |
| Current maximum load _____ lbs. | | Age of Bridge | | Bridge Material | | | |
| Proposed maximum load 100,000 lbs. | | | | steel/wood | | | |
| Sponsoring Club Name Mercer SnoGoers | | | | Club Contact AveryBrandt | | Telephone Number (715) 476-2888 | |
| 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 # | | | |
| What is the weight of your puller & drag/grading equipment? 20,000 # | | | | | | | |
| What other recreational trail uses are planned for this bridge? Forest harvesting | | | | | | | |
| If there are other Recreational uses planned, how much of the bridge cost will be paid for by non-snowmobile or non-ATV users? \$3,141.24 paid by Iron County Forestry & Ashland County Forestry | | | | | | | |
| <input checked="" type="radio"/> Yes <input 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

see attached



IRON COUNTY FORESTRY DEPARTMENT

607-3RD AVENUE NORTH - SUITE 2 • HURLEY, WISCONSIN 54534
PHONE: (715) 561-2697 • FAX: (715) 561-4801

“Trail 9 Hurd Creek Bridge” Project

Narrative

The Trail 9 Hurd Creek Bridge Project is the installation of a new bridge over Hurd Creek on Trail 9 within the Town of Agenda in Ashland County. This segment of Trail 9 is part of the Iron County Snowmobile and ATV Trail systems and briefly enters Ashland County before returning to Iron County. The trail is located entirely on Iron County Forest and Ashland County Forest properties.

The existing crossing currently has two 30-inch steel culverts, one of which is mostly collapsed. During high water events Hurd Creek typically overtops the roadway / trail. This project will remove these undersized, failing culverts and replace them with a 12'X25' steel framed, wood decked bridge. The new bridge will meet the design standards required to obtain a General Permit from the DNR for a free span bridge. An H & H study is not anticipated to be required for this project due to increasing flow and alleviating floodplain pressures but is included in the budget in case regulatory permitting requires.

Iron County Forestry and Ashland County Forestry also use this road for forest management activities on over 1000 acres of County Forest lands. The Forestry Departments intend to upsize the steel beams and wood decking to support heavy truck traffic. These additional expenses are documented within the application packet and will be cost shared by Ashland and Iron Counties.

This bridge project will provide better flow of Hurd Creek and make use of Trail 9 safer for all users. The bridge will provide a stream crossing that will not be washed away after heavy rains or spring runoff and snowmobile users will not have to run through open flowing water as culverts become plugged and continue to fail.

Appendix A (continued)

Summarize Costs in Appropriate Categories:

Bridge Structure

| | Quote 1 | Quote 2 |
|----------------------|---|---|
| | <input checked="" type="radio"/> Steel <input type="radio"/> Wooden | <input checked="" type="radio"/> Steel <input type="radio"/> Wooden |
| Bridge Dimensions: | 12'x25' | 12'x25' |
| Bridge Manufacturer: | Force Account -- reinforced for trucks | Wheeler Lumber |
| Design Weight Load | 100,000 lbs. | 25,000 lbs. |
| Cost of Structure: | | |
| 1. Engineering | \$ _____ | \$ _____ |
| 2. Structure | \$ 14,659.02 | \$ 39,900.00 |
| Subtotal | \$ _____ | \$ _____ |

| | 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 |
| Installation Costs: | | |
| 1. Engineering | \$ _____ | \$ _____ |
| 2. Site Preparation | \$ 2,180.00 | \$ 2,180.00 |
| 3. Abutments | \$ _____ | \$ _____ |
| 4. Pilings/Piers | \$ _____ | \$ _____ |
| 5. Approaches | \$ _____ | \$ _____ |
| 6. Riprap | \$ _____ | \$ _____ |
| 7. Labor | \$ 6,972.00 | \$ 3,500.00 |
| 8. Equipment Rental | \$ 5,481.00 | \$ 4,000.00 |
| 9. Culverts | \$ _____ | \$ _____ |
| 10. H & H Study | \$ 10,000.00 | \$ 10,000.00 |
| 11. Wetland Delineation | \$ _____ | \$ _____ |
| 12. Other _____ | \$ _____ | \$ _____ |
| Subtotal | \$ 24,633.00 | \$ 19,680.00 |
| Total Cost | \$ 39,292.02 | \$ 59,580.00 |

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

Entire Deck and Railing Projects Contractor Sponsor Club

Bridge Dimensions: _____

Design Weight Load _____ lbs.

1. Materials \$ _____

2. Labor \$ _____

Total \$ _____

Recreation Grant Project Cost Estimate Worksheet

Form 8700-014 (R 07/14)

Page 1 of 3

For use with Recreation Grant Application Forms

| | | | |
|--|---|---|--|
| Project Name: Trail 9 Hurd Creek Rec Bridge | | Prepared By: Tara Krall | Date 04/02/2024 |
| County Iron | Project Applicant: Iron County Forestry Department | Landowner Name Ashland County Forest | <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 |
|-----|---|----------|-----------------|-----------------|---------------------------|
| (F) | 10"x10"x16' treated timbers | 4 | ea | \$432.00 | \$1,728.00 |
| (F) | 3"x12"x12' treated timbers | 37 | ea | \$107.64 | \$3,982.68 |
| (F) | 3"x12"x16' treated timbers | 6 | ea | \$143.52 | \$861.12 |
| (F) | 4"x4"x10' treated lumber | 6 | ea | \$18.88 | \$113.28 |
| (F) | 2"x6"x10' treated lumber | 10 | ea | \$13.49 | \$134.90 |
| (F) | 2"x6"x16' treated lumber | 10 | ea | \$17.85 | \$178.50 |
| (F) | W12x26x25' steel | 6 | ea | \$554.35 | \$3,326.10 |
| (F) | W8x18x25' steel | 2 | ea | \$383.79 | \$767.58 |
| (F) | 4x4x1/8x20' steel | 1 | ea | \$127.02 | \$127.02 |
| (F) | 3/8x3/20' steel | 4 | ea | \$58.90 | \$235.60 |
| (F) | nails | 1 | box | \$120.00 | \$120.00 |
| (F) | 6" spikes | 1 | box | \$195.00 | \$195.00 |
| (F) | crushed gravel | 100 | yds | \$8.00 | \$800.00 |
| (F) | Pit Run | 60 | yds | \$3.00 | \$180.00 |
| (F) | Breaker Rock | 2 | loads | \$200.00 | \$400.00 |
| (F) | Rip Rap | 4 | loads | \$200.00 | \$800.00 |
| (F) | Labor | 160 | hours | \$42.00 | \$6,720.00 |
| (F) | #78 excavator (class 558) | 12 | hours | \$52.00 | \$624.00 |
| (F) | #10 dozer (class 217) | 8 | hours | \$53.00 | \$424.00 |
| (F) | #14 loader (class 206) | 4 | hours | \$43.00 | \$172.00 |
| (F) | #103 ASV skidsteer (class 217) | 5 | hours | \$53.00 | \$265.00 |
| (F) | #56 dumptruck (class 128) | 25 | hours | \$60.00 | \$1,500.00 |
| (F) | #57 dumptruck (class 128) | 25 | hours | \$60.00 | \$1,500.00 |
| (F) | #202 trailer (class 493) | 11 | hours | \$26.00 | \$286.00 |
| (F) | #302 trailer (class 493) | 11 | hours | \$26.00 | \$286.00 |
| (F) | #29 pickup (class 101) | 16 | hours | \$16.00 | \$256.00 |
| (F) | #62 welder (class 922) | 15 | hours | \$4.00 | \$60.00 |
| (F) | #61 generator (class 802) | 3 | hours | \$18.00 | \$54.00 |

For use with Recreation Grant Application Forms

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 |
|---|------------------------|----------|-----------------|-----------------|---------------------------|
| (F) | #60 welder (class 802) | 3 | hours | \$18.00 | \$54.00 |
| (C) | H&H study | 1 | ea | \$10,000.00 | \$10,000.00 |
| | | | | TOTALS | \$36,150.78 |

NOTE: For acquisition projects, complete the Acquisition Project Cost Estimate Section

ACQUISITION PROJECT COST ESTIMATE:

NOTE: If project includes more than two parcels, attach additional information.

| | Parcel 1 | Parcel 2 | Total |
|---|----------|----------|-------|
| 1. Parcel Owner | | | |
| 2. Number of Acres being Purchased | | | |
| 3. Grant Eligible Acres | | | |
| 4. Option Expiration Date | | | |
| 5. Option Amount | \$ | \$ | \$ |
| 6. Appraised Value : Land | \$ | \$ | \$ |
| Improvements | \$ | \$ | \$ |
| 7. Subtotal | \$ | \$ | \$ |
| 8. Estimated Other Eligible Acquisition Costs Total | \$ | \$ | \$ |
| List costs included in above: | \$ | \$ | |
| | \$ | \$ | |
| | \$ | \$ | |
| 9. Grand Total Project Costs: (Add Lines 7 & 8) | | | |

DEVELOPMENT PROJECT ITEMS LISTING:

NOTE: This list is intended as a guideline and is not a complete list.

SERVICES

- Pre-approval Engineering
- Post-approval Engineering
- Supervision
- Feasibility Studies
- Planning
- Administration

BOATING AREA

- Ramp Apron
- Launch Ramp
- Bulkhead/Seawall
- Riprap
- Security Lighting

CAMPSITES

- Tables
- Grills/Fire Rings
- Camp Pads (Gravel, Asphalt)
- Refuse Containers

EQUIPMENT

- Benches
- Trash Receptacles

PARKING

- Gravel/Paving
- Curbs/Bumper blocks
- Striping

PICNIC AREA

- Tables/Grills
- Trash Receptacles
- Shelters
- General Construction
- Electrical/Water Service

PLAY AREA

- Play Equipment
- Equipment Installation
- Surfacing Material

ROADS

- Gravel Base/Paving
- Curb and Gutter

SIGNING

- Signs
- Posts/Hardware

Color Coating

- Lighting
- Volleyball
- Basketball
- Hockey Rinks
- Sand/Gravel Base
- Dasher Boards
- Lighting
- Water Hydrant
- Multipurpose Courts

SPORTS FIELDS-should include specific items as shown under Softball.

- Softball
- Infield Mix
- Backstop/Fencing
- Grass Seeding/Sodding
- Player Enclosures
- Bleachers with Pads
- Lighting
- Sprinkling Sys/Drainage Tile

Soccer/Football

- Baseball

TOILETS

- Flush Toilets
- General Construction
- Plumbing
- Electrical
- Sewer/Water Laterals
- Vault Toilets

TRAILS

- Clearing
- Surfacing
- Overview Structures
- Boardwalks
- Culverts
- Bridges
- Grading

UNDERGROUND ELECTRIC

- Trenching
- Junction Boxes
- Conduit
- Transformers

WALKWAYS

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 | 0 |
| 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 | |
| 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 | |
| | 20 miles or more | 3 | |
| | No other snowmobile trails connect. Explain: | 4 | 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 | | | 10 |

Comments/Notes:

Trail 9 Hurd Creek Bridge

Recreation Grant Project Cost Estimate Worksheet

Form 8700-014 (R 07/14)

For use with Recreation Grant Application Forms

*** Estimate for reinforced bridge for forestry trucks.

| | | | |
|---|---|---|--|
| Project Name: Trail 9 Hurd Creek Truck Bridge | | Prepared By: Tara Krall | Date 04/02/2024 |
| County Iron | Project Applicant: Iron County Forestry Department | Landowner Name Ashland County Forest | <input checked="" type="radio"/> Public <input type="radio"/> Private |

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| (F) | 3"x12"x16' treated timbers | 16 | ea | \$143.52 | \$2,296.32 |
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| (F) | 2"x6"x10' treated lumber | 10 | ea | \$13.49 | \$134.90 |
| (F) | 2"x6"x16' treated lumber | 10 | ea | \$17.85 | \$178.50 |
| (F) | W12x35x25' steel | 6 | ea | \$746.25 | \$4,477.50 |
| (F) | W8x18x25' steel | 2 | ea | \$383.79 | \$767.58 |
| (F) | 4x4x1/8x20' steel | 1 | ea | \$127.02 | \$127.02 |
| (F) | 3/8x3/20' steel | 4 | ea | \$58.90 | \$235.60 |
| (F) | nails | 1 | box | \$120.00 | \$120.00 |
| (F) | 6" spikes | 2 | box | \$195.00 | \$390.00 |
| (F) | crushed gravel | 100 | yds | \$8.00 | \$800.00 |
| (F) | Pit Run | 60 | yds | \$3.00 | \$180.00 |
| (F) | Breaker Rock | 2 | loads | \$200.00 | \$400.00 |
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| | | | | TOTAL\$ | \$39,292.02 |

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- Ramp Apron
- Launch Ramp
- Bulkhead/Seawall
- Riprap
- Security Lighting

CAMPSITES

- Tables
- Grills/Fire Rings
- Camp Pads (Gravel, Asphalt)
- Refuse Containers

EQUIPMENT

- Benches
- Trash Receptacles

PARKING

- Gravel/Paving
- Curbs/Bumper blocks
- Striping

PICNIC AREA

- Tables/Grills
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- Shelters
- General Construction
- Electrical/Water Service

PLAY AREA

- Play Equipment
- Equipment Installation
- Surfacing Material

ROADS

- Gravel Base/Paving
- Curb and Gutter

SIGNING

- Signs
- Posts/Hardware

Color Coating

- Lighting
- Volleyball
- Basketball
- Hockey Rinks
- Sand/Gravel Base
- Dasher Boards
- Lighting
- Water Hydrant
- Multipurpose Courts

SPORTS FIELDS-should include specific items as shown under Softball.

- Softball
- Infield Mix
- Backstop/Fencing
- Grass Seeding/Sodding
- Player Enclosures
- Bleachers with Pads
- Lighting
- Sprinkling Sys/Drainage Tile

Soccer/Football

- Baseball

TOILETS

- Flush Toilets
- General Construction
- Plumbing
- Electrical
- Sewer/Water Laterals
- Vault Toilets

TRAILS

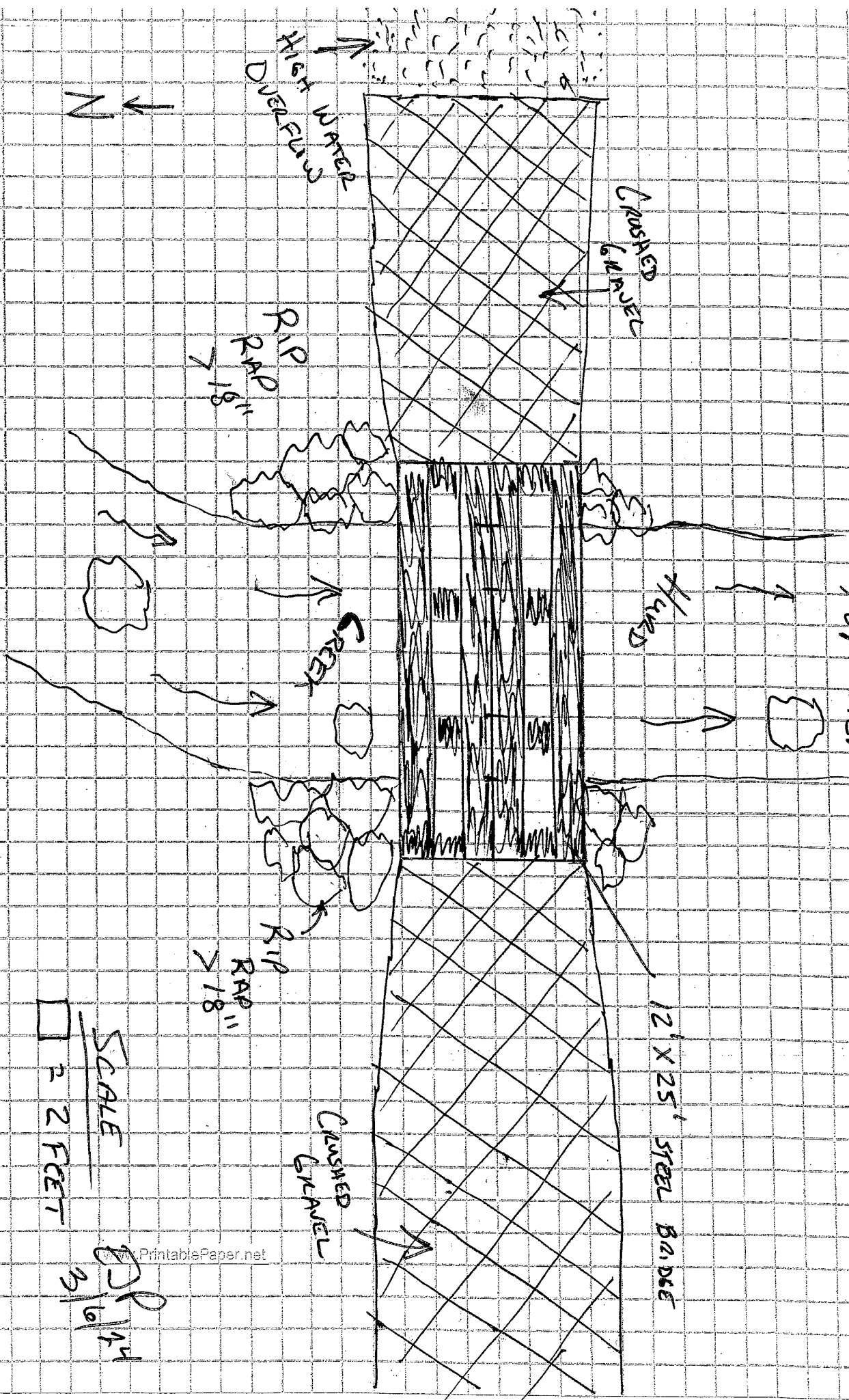
- Clearing
- Surfacing
- Overview Structures
- Boardwalks
- Culverts
- Bridges
- Grading

UNDERGROUND ELECTRIC

- Trenching
- Junction Boxes
- Conduit
- Transformers

WALKWAYS

Iron County Forestry
Hurd Creek Project
TOP VIEW



N

SCALE

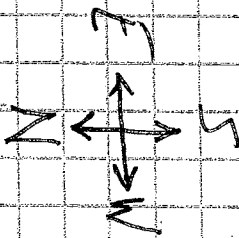
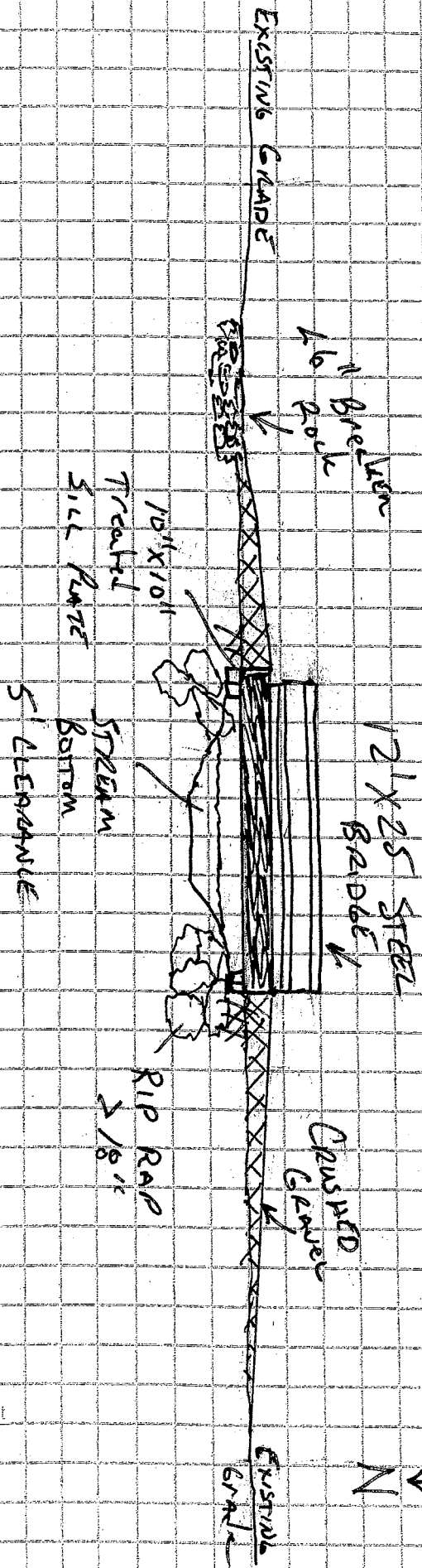
2 2 FEET

DP
3/10/14

Iron County Forestry

HARDY CREEK

SIDE VIEW



SCALE
3 FEET

3/16/24
J.P.

HURD CREEK

2 failed 30" culverts.

25' x 12' steel framed bridge

4 loads rip rap streambank protection

60 yards pit run to level existing road
Rock overflow 35' east of stream centerline

Rock overflow 10' long, 16' wide and 2 ft deep

Stream hwm 16' lwm 7' depth 2'

Total project area length 100'

CRUSHED GRAVEL

$$36' \times 3 \times 16 = 64$$

$$20 \times 3 \times 16 = 36$$

$$\frac{\quad}{100 \text{ yds (FF)}}$$

RIP RAP ($> 1.5''$) - 4 LOADS (FF)

BREAKER ROCK - 1 LOAD (DMA)

PIT RUN - 60 yards (FF)

EXCAVATION

$$3 \times 16 \times 30 = 54 \text{ yards (HAUL AWAY FF)}$$

JOB # 1905

5 BRIDGE DESIGN ALL RECREATIONAL W/LL @ $12\frac{1}{2}$ TON = 25^k

ALL SIMPLE SPAN 12' WIDE w/ ADEQUATE HANDRAILING WOOD DECK & WEAR PLATE.

SIZES RANGE FROM 20' TO 40' (20, 25, 30, 35, 40)

ADEQUATE HOLD IN FIELD BRACING @ $\frac{1}{4}$ POINTS ALONG SPAN BETWEEN EACH OF 6 MEMBERS

APPROX SPACING $\frac{12'}{5 \text{ SPAN}} = 2.4' \approx 29" \pm$

BRIDGING TO BE PIECES OF SAME SIZE BEAM MEMBERS

IMPACT LOADING @ 25% OF ALL WEIGHT LL+DL.

SNOW LOAD @ 60 PSF

BRIDGE DL @ 35 PSF

MADE. LIVE LOAD 25^k (WORST CASE SINGLE AXIAL @ $\frac{1}{2}$) w/ 1.33 INCREASE FWD UNITY 1.0

CALCULATE FULL LOAD MOMENT THEN DIVIDE BETWEEN 5 MEMBERS. $\frac{1}{2}$ OUTSIDE

MEMBERS PER MEMBER

@ 20' $M = 12.5^k(10') + \frac{0.095(12)(20')^2}{8} = 182^{k-ft} / 5 = 36.4$

$\frac{6}{5} = 1.2$

@ 25' $M = 12.5^k(12.5') + \frac{1.14(25')^2}{8} = 245.3^{k-ft} / 5 = 49.1$

20% NOT INCLUDED

@ 30' $M = 12.5^k(15.0') + \frac{1.14(30')^2}{8} = 315.75^{k-ft} / 5 = 63.2$

@ 35' $M = 12.5^k(17.5') + \frac{1.14(35')^2}{8} = 393.3^{k-ft} / 5 = 78.7$

@ 40' $M = 12.5^k(20.0') + \frac{1.14(40')^2}{8} = 478^{k-ft} / 5 = 95.6$

$S_x = \frac{36.4(12)}{22} = 19.9 < 21.3$ W 12x19 6 @ 20'

$S_x = \frac{49.1(12)}{22} = 26.8 < 33.4$ W 12x24 6 @ 25'

$S_x = \frac{63.2(12)}{22} = 34.5 < 38.6$ W 12x30 6 @ 30'

$S_x = \frac{78.7(12)}{22} = 42.9 < 45.6$ W 12x35 6 @ 35'

$S_x = \frac{95.6(12)}{22} = 52.1 < 58.1$ W 12x45 or W 16x36 6 @ 40'

56.5



STRESS INCREASE DUE TO L.L. (FULL LENGTH) @ 1.33 ALLOWS 33% IMPACT

Price. Cramblit
932-3773

Sam's
932-4340

BRIDGE INFO

7 - W12x35 - 30

25' LONG

To our shop

BUILT - TWO HALVES PRIMED
WITH SPLICE PLATES AND BOLTS,

FOB CALUMET

20 TON RATING @ 20'-23' CLEAR SPAN

(35-50)
SEE NOTE

NET 4600⁰⁰

DAVE @

UNIVERSAL METAL WORKS
57140 Mine Street
Calumet, Michigan 49913

906-337-4246

NOTE - ~~FOUR~~ W12x22 BEAMS WOULD CARRY 35 TON

~~SIX BEAMS WOULD CARRY 50 TON~~

(INFO FROM DATA BOOK)

QUOTATION

4/2/2024

PROJECT: Snowmobile Grants
Hurley, Wisconsin
Iron County



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

BID DATE:

Recreational Timber Panel-Lam Bridge – 182 West Road

30' single span x 12' clear roadway.

Superstructure is designed to a 60# pedestrian load and a 25,000 lbs. (H12.5) vehicle loading.

Longitudinal dowel laminated timber deck panels.

42" high horizontal pedestrian railing. Includes 12"x12" timber sills & 3"x12" timber wear course.

Lump Sum Total \$48,000.00

Recreational Timber Panel-Lam Bridge – Hurd Creek

25' single span x 12' clear roadway.

Superstructure is designed to a 60# pedestrian load and a 25,000 lbs. (H12.5) vehicle loading.

Longitudinal dowel laminated timber deck panels.

42" high horizontal pedestrian railing. Includes 12"x12" timber sills & 3"x12" timber wear course.

Lump Sum Total \$39,900.00

Note:

Price does not include the cost of unloading and installation.

The method and sequence of erection shall be the responsibility of others.

All timber to be Douglas Fir, 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.

Wheeler will include bridge superstructure plans sealed by a Professional Engineer registered in the state of the bridge location. Wheeler will not assume responsibility as Engineer of Record for the project.

Ashland County Forestry and Recreation Department

Phone (715)769-3777 FAX (715)769-3763

P.O. Box 155, 304 W. Michigan Street

Butternut, WI 54514

Chris Hoffman
Forest Administrator
Tom Ernst
Assistant Forest Administrator
Sawyer Peterson
Forester
Shana Curry
Office Manager

March 7, 2024

Ashland County is aware, and very supportive of, the Iron County bridge project to cross the Dan Hurd Creek. This piece of trail is integral to the Iron County snowmobile system, and by extension, the Ashland County snowmobile system. The addition of this bridge will make the trail system safer and easier to maintain. It will also help to protect the waters on the Dan Hurd creek. This bridge will enhance the user experience as well. This will help to encourage tourism and help support local economies. I ask that you give consideration to this project.

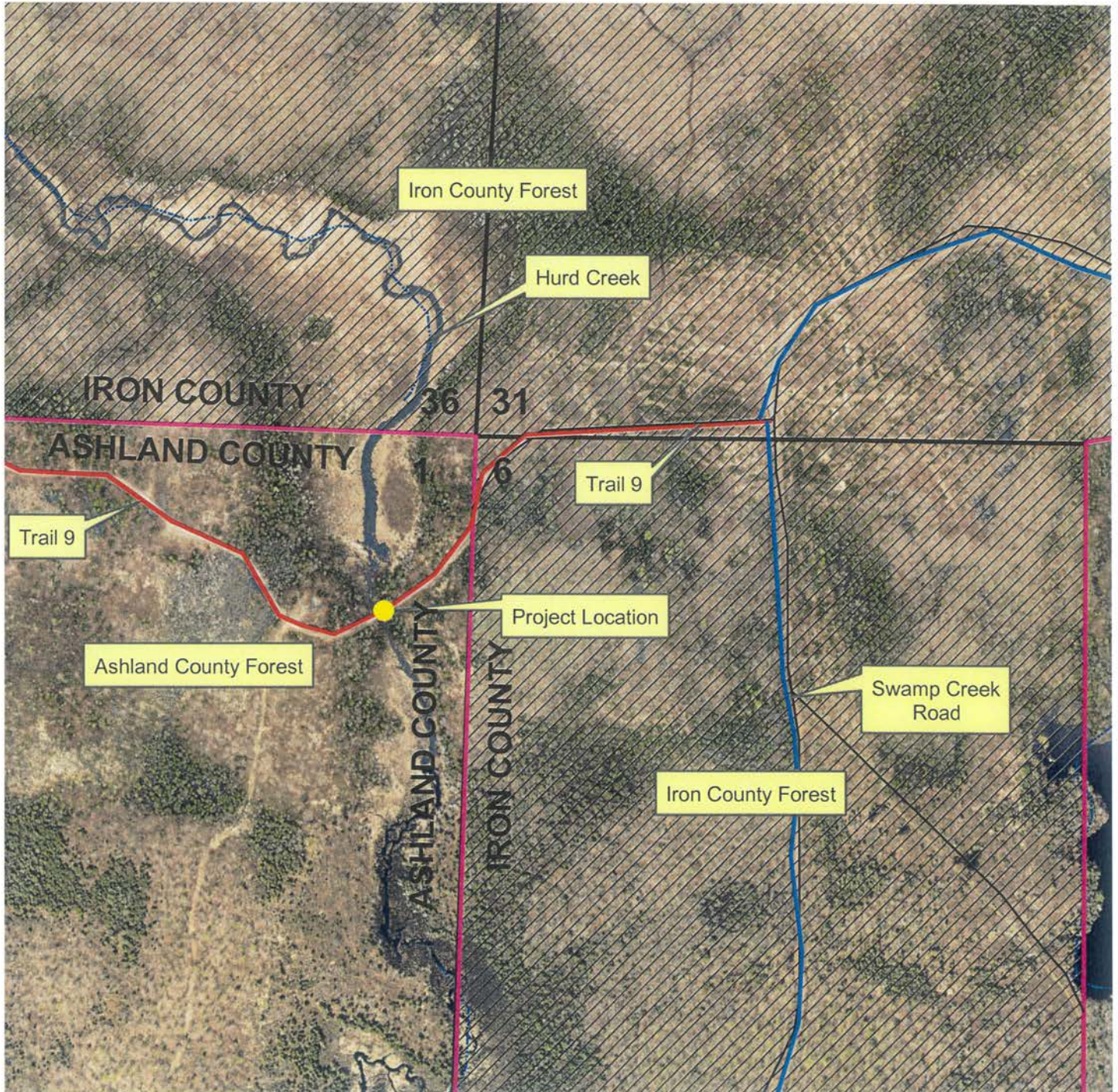
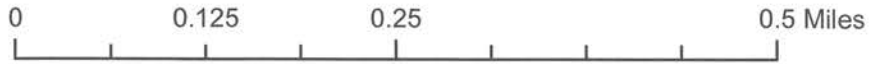
If you have any questions or need further information, please feel free to reach out.

Thank you



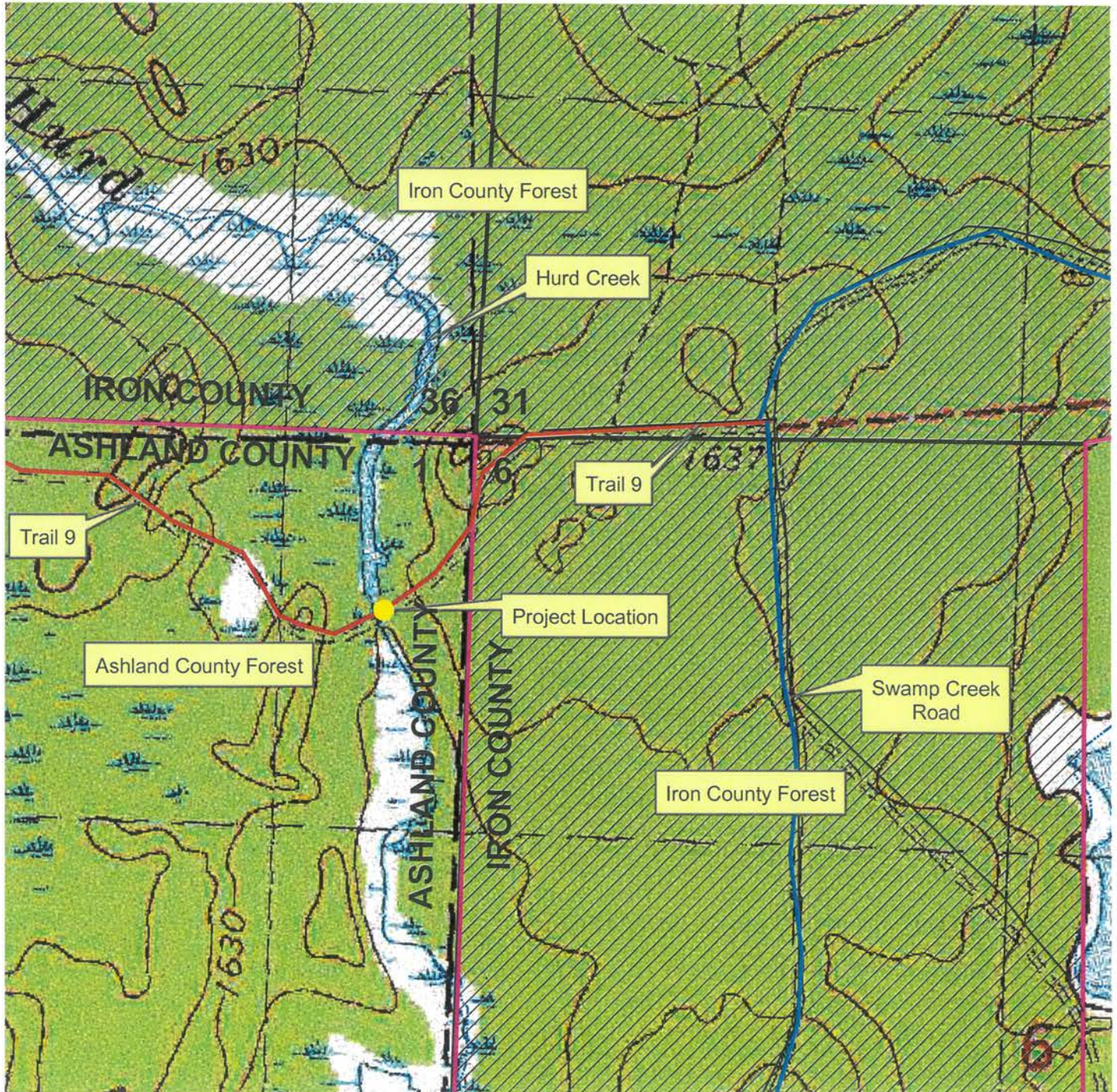
Chris Hoffman
Ashland County Forest Administrator

Iron County Forestry
"Trail 9 Hurd Creek Bridge"
NE NE, Sec. 1, T42N, R1E
Town of Agenda, Ashland County, Wisconsin



Map By: Iron County Forestry

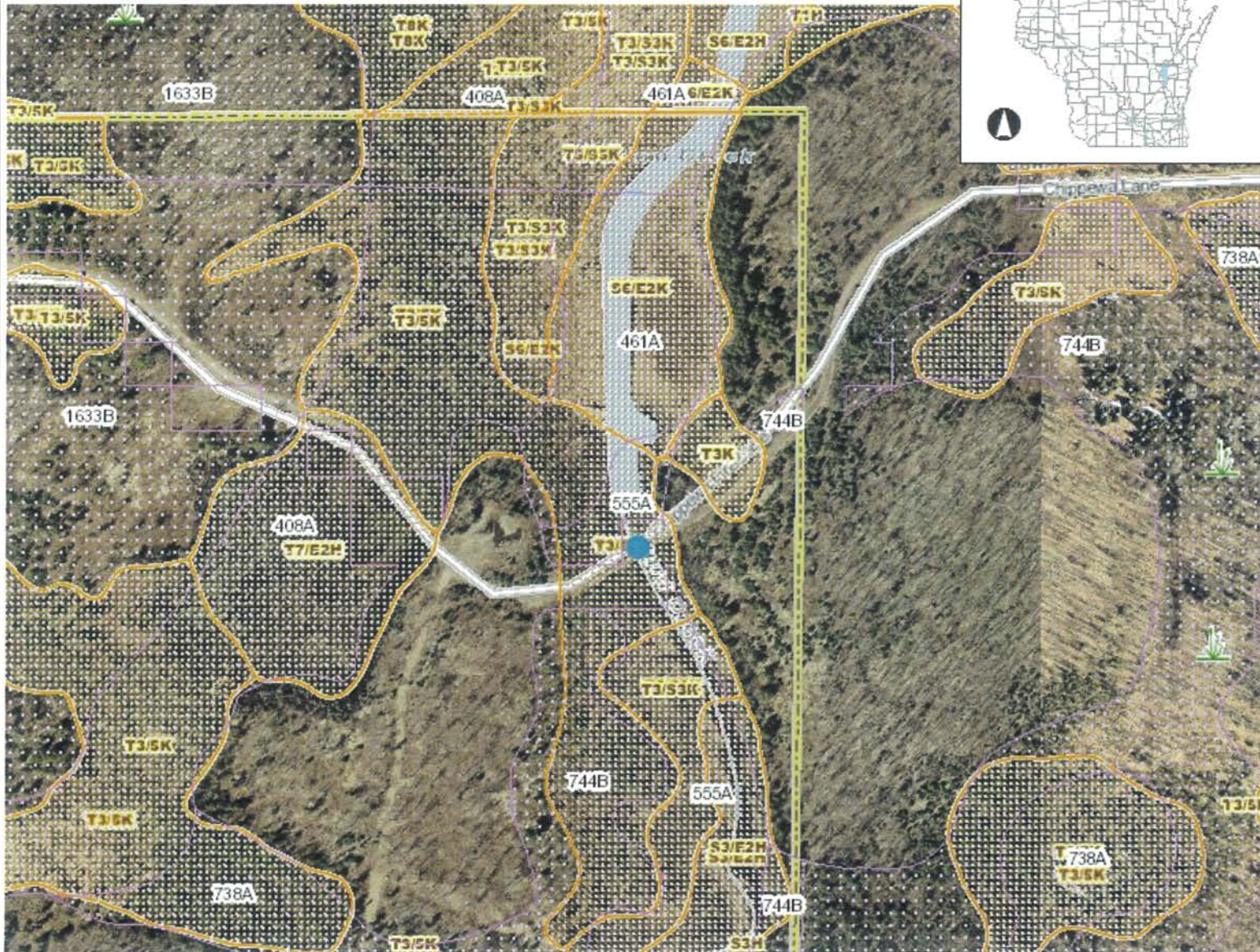
Iron County Forestry
"Trail 9 Hurd Creek Bridge"
NE NE, Sec. 1, T42N, R1E
Town of Agenda, Ashland County, Wisconsin



Map By: Iron County Forestry



Surface Water Data Viewer Map Iron County Forestry



Legend

- Wetland Indicators
- Lake Class Areas
- Riverine/ditch Class Areas
- Wetland Class Areas
- Wetland Class Points
 - Dammed pond
 - Excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
 - Filled excavated pond
- Filled Points
- Wetland Class Areas
- Filled Areas
- Lake Class Areas
- Riverine/ditch Class Areas
- Wetland Class Areas
- Wetland Class Points
 - Dammed pond
 - Excavated pond
 - Filled/draind wetland
 - Wetland too small to delineate
 - Filled excavated pond
- Filled Points
- Wetland Class Areas
- Filled Areas
- Wetland Identifications and Confirmations
- NRCS Wetspots
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
 - Interstate Highway
 - State Highway
 - US Highway

0.1 0 0.06 0.1 Miles

NAD_1983_HARN_Wisconsin_TM

1: 3,960

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/>

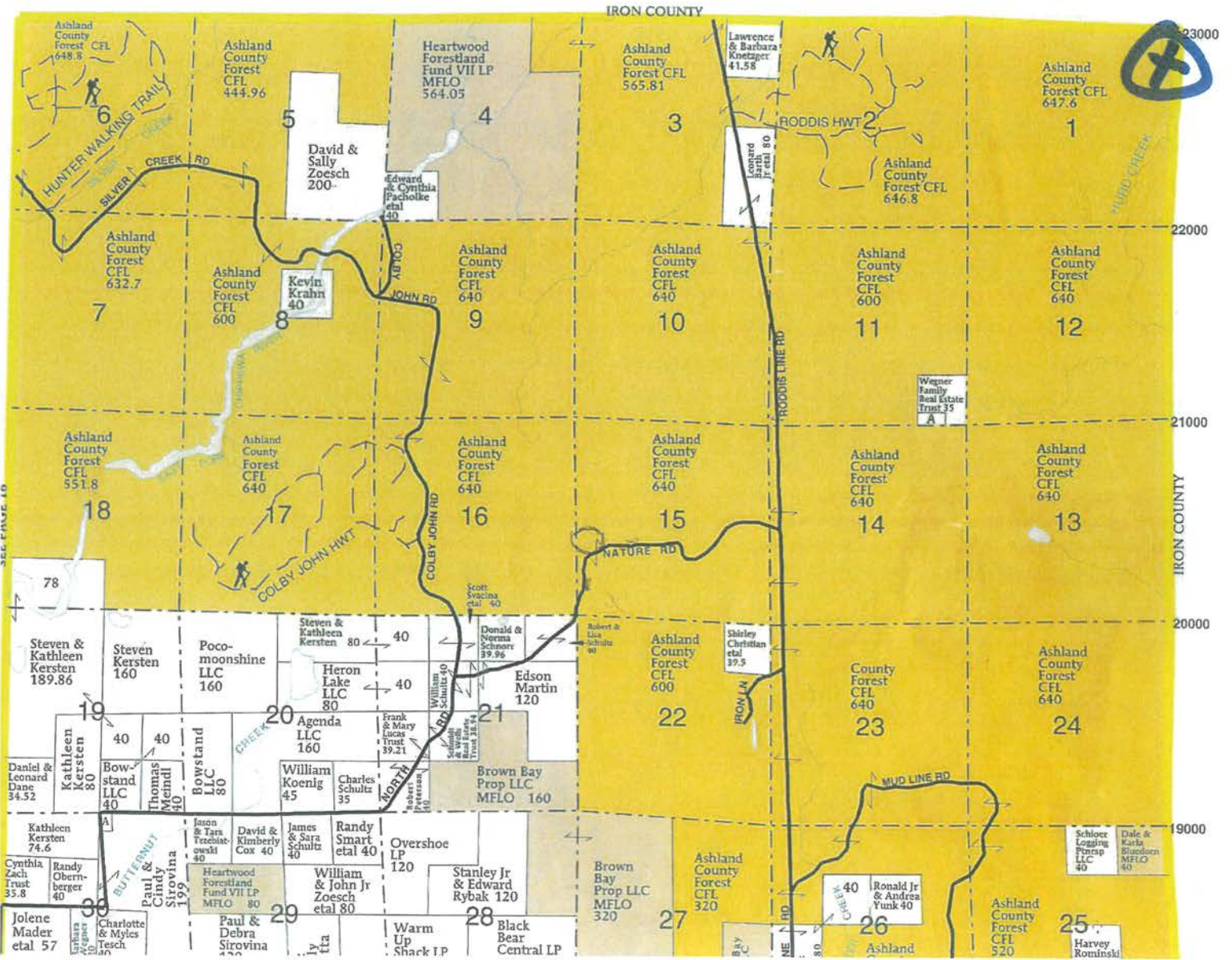
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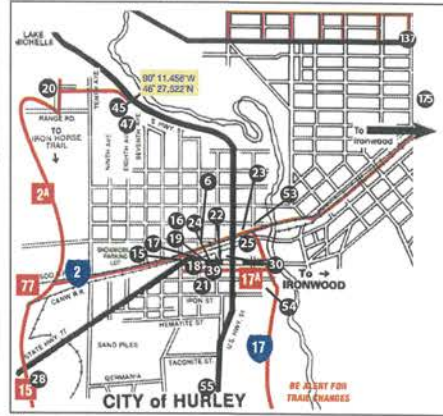
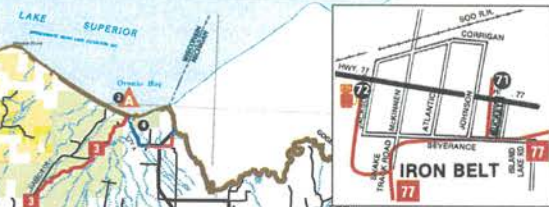
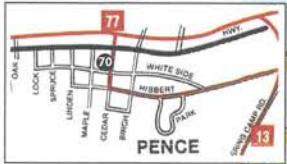
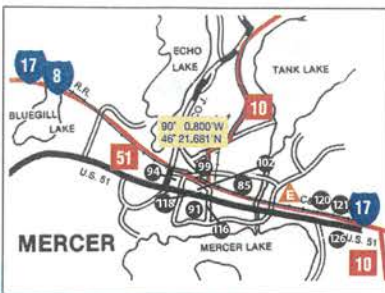
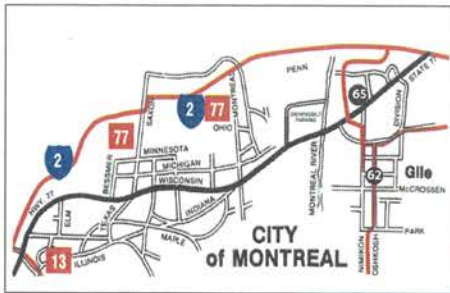
Trail 9 Hurd Creek Bridge

T-42-N • R-1-E NORTH PART AGENDA

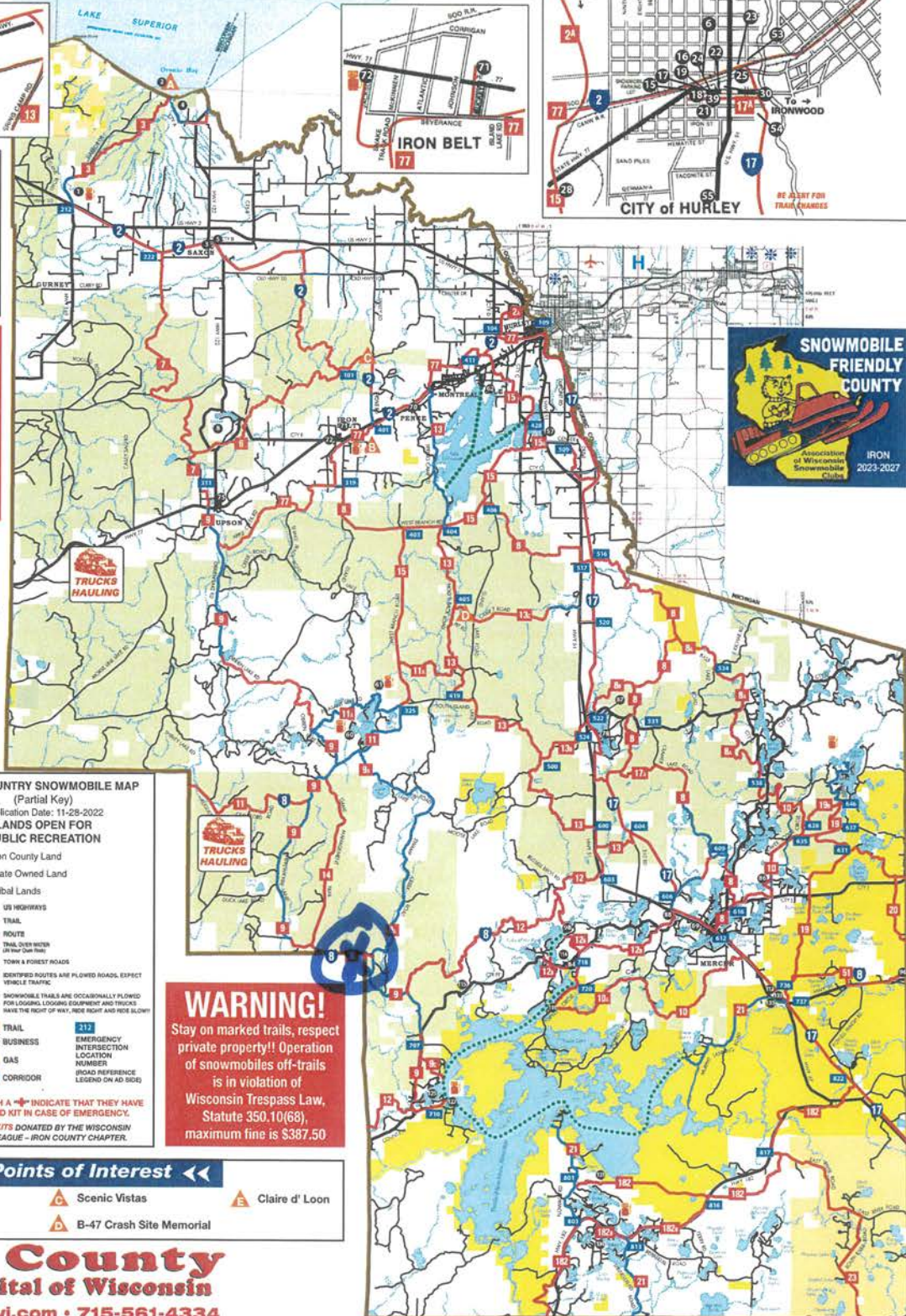
Small Tract Index T-42-N, R-1-E North Part Agenda

| Name | Sec | Letter | Acres |
|-----------------------|-----|--------|-------|
| Neal & Barbara Wegner | 11 | A | 5 |
| Todd & Sally Koetzer | 30 | A | 1 |





EXPECT VEHICLE TRAFFIC ON ALL ROUTES.
 Designated trails are occasionally plowed for logging activities, logging equipment and trucks have the Right-of-Way!!
 Ride right and ride safe on ALL plowed roadways!



IRON COUNTY SNOWMOBILE MAP (Partial Key)
 Publication Dates: 11-28-2022
LANDS OPEN FOR PUBLIC RECREATION
 Iron County Land
 State Owned Land
 Tribal Lands
 US HIGHWAYS
 TRAIL
 ROUTE
 TRAIL (SEE MAP)
 (In Year Open Trail)
 TOWN & FOREST ROADS
 IDENTIFIED ROUTES ARE PLOWED ROADS, EXPECT VEHICLE TRAFFIC
 SNOWMOBILE TRAILS ARE OCCASIONALLY PLOWED FOR LOGGING, LOGGING EQUIPMENT AND TRUCKS HAVE THE RIGHT OF WAY, RIDE RIGHT AND RIDE SLOW!
 TRAIL
 BUSINESS
 GAS
 CORRIDOR
 THE ADS WITH A INDICATE THAT THEY HAVE A FIRST AID KIT IN CASE OF EMERGENCY.
 FIRST AID KITS DONATED BY THE WISCONSIN TAVERN LEAGUE - IRON COUNTY CHAPTER.

WARNING!
 Stay on marked trails, respect private property!! Operation of snowmobiles off-trails is in violation of Wisconsin Trespass Law, Statute 350.10(68), maximum fine is \$387.50

Scenic Points of Interest

- Saxon Harbor and Lake Superior
- Scenic Vistas
- Claire d' Loon
- Plummer Mine
- B-47 Crash Site Memorial

Iron County
Snow Capital of Wisconsin
www.hurleywi.com • 715-561-4334
www.mercercc.com • 715-476-2389

WARNING
 SNOWMOBILE SPEED LIMIT ON PLOWED TOWN ROADS
25MPH

1. Please respect private property.
2. Use extreme caution on lakes and streams.
3. Obey all state laws and local ordinances.
4. Do not operate snowmobiles on state highways or county roads.
5. Snowmobile routes are roads so designated by local ordinance. Do not use unless posted as a route.
6. Iron County Iron County Snowmobile Council, White Thunder Riders Snowmobile Club, Mercer Sno-Goers Snowmobile Club, and members and affiliates thereof assume no liability as to trails, machines or individuals.
7. This map is intended as a guide only. The Snowmobile Council assumes no liability relative to accuracy of trail locations and routes.

Non-Resident Snowmobile Stickers Required



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 IRON COUNTY RECREATIONAL COUNCIL
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Map courtesy of Iron County Forestry Department
 Printed by Hahn Printing, Eagle River, WI





