DOUGLAS COUNTY ZONING COMMITTEE
PUBLIC HEARING
Wednesday, July 8, 2020 | 9:00 a.m. | Teleconference

Please call the Chair or Zoning Office (715-395-1380) if you are unable to attend.

MEMBERS:  Mary Lou Bergman, Chair      Patricia Ryan, Vice Chair      Jim Borgeson
Charlie Glazman Nick Baker

Due to the COVID-19 pandemic, this meeting is being held via teleconference only. Members of the media and the public may attend by calling 1-347-352-9811. The PIN is 129 170 688#

A G E N D A
(Committee to maintain a two-hour meeting limit or take action to continue meeting beyond that time.)

1. Roll call.
2. Public Hearing (applications attached):
   a) Amendments to Douglas County Zoning Ordinance 8.0:
      1. Petition No. 19-07: DL Skiing, LLC; and
      2. Petition No. 20-01: Mark and Julie Dahlberg.
   b) Appeal to the Subdivision Ordinance: Cloverland Mission Covenant Church.
   c) Conditional-use permits:
      1. DL Skiing, LLC;
      2. Roger Castle Revocable Family Trust; and
      3. Town of Gordon.
   d) Conditional-use permit renewal: City of Superior.
   e) Reclamation plan approvals:
      1. Arlyn Hunter-Jensen (owner) / Thunderhill Aggregate, LLC (operator);
      2. Joanne Garcia, et al (owner) / Alliance Steel Construction (operator); and
   f) Recap of zone change recommendations to County Board.
3. Adjournment.

cc:  County Board Supervisors Other interested parties

NOTE: Attachments to agenda are available in County Clerk’s Office for review or copying. Action may be taken on any item listed on the agenda. The County of Douglas complies with the Americans with Disabilities Act of 1990. If you are in need of an accommodation to participate in the public meeting process, please contact the Douglas County Clerk’s Office at (715) 395-1341 by 4:00 p.m. on the day prior to the scheduled meeting. Douglas County will attempt to accommodate any request, depending on the amount of notice we receive.

Posted: Courthouse, Government Center, Superior Telegram

Name  Date

June 24, 2020
A Public Hearing will be held by the Douglas County Planning & Zoning Committee at 9:00 a.m. on Wednesday, July 8, 2020.  **Due to the COVID-19 pandemic, this meeting is being held via teleconference only.**  Members of the media and public may attend by calling 1-347-352-9811.  The PIN is 129 170 688#

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**a) Amendments to Douglas County Zoning Ordinance 8.0:**

Petition No. 19-07: DL Skiing LLC, Superior, WI - from the March 11, 2020 hearing - Lots 1 & 2, CSM #527, Vol 4, Pgs 28-29, Pt NW1/4-SW1/4, Section 8, T48N-R15W; (3041S Whitetail Ridge Rd; TS-030-01913-00; 01913-01), Town of Superior – from the R-2: Residential zoning district to the RR-1: Residential-Recreation zoning district, (proposed use: lodging for the resort), filed 11-13-2019 (revised 2-6-2020) in the County Clerk’s Office.

Petition No. 20-01: Mark & Julie Dahlberg, Solon Springs, WI – SW1/4-NE1/4, Section 28, T45N-R12W; (Stewart Rd & County Rd A; SO-026-01085-00), Town of Solon Springs – from R-2: Residential zoning district to the A-1: Agricultural zoning district, (proposed use: pasture), filed 6-2-2020 in the County Clerk’s Office.

**b) Appeal to the Subdivision Ordinance:**

Cloverland Mission Covenant Church, Maple, WI – create (2) two lots less than the minimum 5 acre requirement in the A-1: Agricultural Zoning district – E1/2-SE1/4-SW1/4-SE1/4, Ex Pcl to Hwy (.43a), Section 36, T49N-R11W; (11889E State Highway 13; CL-008-00698-00), Town of Cloverland.

**c) Conditional-Use Permit:**

1) DL Skiing LLC, Superior, WI – lodging for the resort (existing building) – Lots 1 & 2, CSM #527, Vol 4, Pgs 28-29, Pt NW1/4-SW1/4, Section 8, T48N-R15W; (3041S Whitetail Ridge Rd; TS-030-01913-00; 01913-01), Town of Superior.

2) Roger Castle Revocable Family Trust, Black River Falls, WI – private campground (2 campers) – SW1/4-SW1/4, Section 14, T44N-R11W; (13117S Flamang Rd; GO-012-00885-00), Town of Gordon.

3) Town of Gordon, Gordon, WI – storage of machinery for trail maintenance (recreation service-oriented use) – SW1/4-SE1/4 (Ex Ptc to Hwy), Section 31, T44N-R11W; (County Rd Y & St. Croix Rd; GO-012-01277-00), Town of Gordon.

**d) Conditional-Use Permit Renewals:**

City of Superior, c/o Public Works, Superior, WI - non-metallic mine permit #23106 renewal and approval of reclamation plan – Pt E1/2-SW1/4-SE1/4; Pt SE1/4-SE1/4; SE1/4-SE1/4/SW1/4, Section 27, T48N-R12W; (Spaulding Rd; AM-002-00619-00; 00622-00; 00622-01), Town of Amnicon.

**e) Reclamation Plan Approvals:**

1) Arlyn Hunter-Jensen (owner), Superior, WI / Thunderhill Aggregate LLC, (operator), Superior, WI – reclamation plan approval for non-metallic mine permit #14022 - NE1/4-NE1/4; NW1/4-NE1/4; SW1/4-NE1/4 & SE1/4-NE1/4, Section 13, T47N-R14W; (5600S County Road A; TS-030-00284-00; 00285-00; 00286-00; 00287-00), Town of Superior.
2) Joanne Garcia, et al (owner), Superior, WI / Alliance Steel Construction (operator), Superior, WI – reclamation plan approval for non-metallic mine permit #9064 - NE1/4-SE1/4, Section 9, T47N-R13W; (5996E Mable Nelson Rd; OA-022-00428-00), Town of Oakland.

3) Nancy Paine (owner), Superior, WI / Alliance Steel Construction (operator), Superior, WI – reclamation plan approval for non-metallic mine permit #18223 - NE1/4-NE1/4 & NW1/4-NE1/4, Section 17, T47N-R13W; (5607S Old Lyman Lake Rd; OA-022-00553-00; 00554-00), Town of Oakland

Tessah Behlings, Zoning Coordinator
Mary Lou Bergman, Chair

If you have any comments on these items, let the Planning & Zoning Office know in writing prior to the meeting, or appear at the Public Hearing. Planning & Zoning Office, 1313 Belknap St., Rm. 206, Superior, WI 54880 (715-395-1380). Action may be taken on any item listed on the public hearing. In accordance with WI Statutes 59.69 (5)(a), attachments to public hearing notice and maps of subject properties are available for review in the Planning & Zoning Office, or at www.douglascountywi.org. The County of Douglas complies with the Americans with Disabilities Act of 1990. If you are in need of accommodation to participate in the public meeting process, please contact the Douglas County Clerk’s Office at (715) 395-1341 by 4:00 p.m. on the day prior to the scheduled meeting. Douglas County will attempt to accommodate any request depending on the amount of notice we receive. TDD (715) 395-7521.

ST June 19 & 26, 2020
TO THE DOUGLAS COUNTY BOARD OF SUPERVISORS AND ZONING COMMITTEE:
The Petitioner hereby petitions you pursuant to Wis Stat. § 59.69(5)(e), to amend the Zoning District Map of the Douglas County Zoning Ordinance by reclassifying the property as shown and stated below:

1. Requested Zone Change:
   From (Zone District): R-2 Residential
   To (Zone District): C-1 Commercial R-R-1 Residential - Recreation

2. Property Description: Information must be complete and accurate.
   Tax Parcel #: TS-030-01913-00
   Town of: Superior
   Property Address: 3041 S Whitetail Dr.
   Legal Description:
   (1) Lot 1 CSM #527, Vol 14 pgs 28-29, pt NW SW
   (2) Lot 2 CSM #527, Vol 14 pgs 28-29, pt NW SW

3. Portion of Lot / Parcel Affected by Zone Change Request:
   Lot / Parcel Size: Length: __________ Width: __________ Acres: 10.01 (2 parcels)
   Area to be Re-Zoned: Length: __________ Width: __________ Acres: 10.01 (2 parcels)

4. Property Owner:
   Property Owner's Name: DL Skiing LLC (Larry Pulkrabek)
   Mailing Address: 3225 S Mont du Lac Rd City, State, Zip Superior, WI 54880
   Telephone: 218-426-3797 E-mail Address: Mike O @ montlcrresort.com

5. Petitioner requests this amendment for a proposed property use of:

   Lodging for the Resort

6. In making this petition, Petitioner gives permission for an inspection of the above-stated site by the Douglas County Office of Zoning Administration and/or Zoning Committee, and will allow photographs to be taken of the same if necessary.

7. Contact the Town Clerk to place this application on the Town Board agenda prior to scheduled Zoning Committee hearing as required by Sec. 59.69(5)(e) 3 Wis Stats.

(Continued on reverse)
8. A dimensional diagram of the property is as shown below:

<table>
<thead>
<tr>
<th>Type</th>
<th>Amount</th>
<th>Vendor #</th>
<th>Date Paid</th>
<th>Receipt #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zone Change</td>
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<td>1480319</td>
<td>11-13-2019</td>
<td>146122</td>
</tr>
</tbody>
</table>

**Zoning Committee Decision:**

Date: **12-11-2019**

☐ Approved  ☐ Denied

**County Board Decision:**

Date: **12-19-2019**

☐ Approved  ☐ Denied
Date: June 2, 2020
To: Town of Solon Springs
From: Douglas County Planning & Zoning Office
Subject: Town Board action requested
Re: Mark & Julie Dahlberg – Zone Change Request from R-2: Residential to A-1: Agricultural

1. We have received the attached application related to a proposed land use change in your town.

2. This proposed land use change is in the form of one or more of the following:

   Petition to Rezone   ___X___
   Conditional Use Permit _______
   Conditional Use Permit and Reclamation Plan for Non-metallic mine _______
   Variance / appeal _______
   Subdivision plat review _______

3. Please place this item on the next Town Board agenda for action by the board.

4. We would appreciate a response prior to our public hearing scheduled for **July 8, 2020**

5. Objection: ______________ No Objection: ___X___

6. Comments__________________________________________________________

7. Signature: [Signature]  Date: 6/8/20

Thank You!

(715) 395-1380 Planning / Zoning – Permits
(715) 395-7643 FAX
(715) 395-1340 Surveyor

(715) 395-1570 Land Information / GIS
Web Page: www.DouglasCountyWI.org

TOTAL P.001
PETITION FOR AMENDMENT TO DOUGLAS COUNTY ZONING ORDINANCE

Date of application: May 28, 2020  ZC Hearing Date: July 8, 2020

TO THE DOUGLAS COUNTY BOARD OF SUPERVISORS AND ZONING COMMITTEE:
The Petitioner hereby petitions you pursuant to Wis. Stat. § 59.69(5)(e)1, to amend the Zoning District Map of the Douglas County Zoning Ordinance by reclassifying the property as shown and stated below:

1. Requested Zone Change:
   From (Zone District): R-2 Residential District
   To (Zone District): A-1 Agricultural District

2. Property Description: Information must be complete and accurate.
   Tax Parcel #: 50-026-01085-00  Section 28  Town 45N  Range 12 W
   Town of: Solon Springs  Property Address: None  Solon Springs 54873
   Legal Description: SW NE 28-45-12

3. Portion of Lot / Parcel Affected by Zone Change Request:
   Lot / Parcel Size: Length: Width: Acres: 40
   Area to be Re-Zoned: Length: 5,280 Width: 5,280 Acres: 40

4. Property Owner:
   Property Owner’s Name: Mark O + Julie A Dahlberg
   Mailing Address: 8144 E city Rd A  City, State, Zip Solon Springs wi 54873
   Telephone: 715 558 3713  E-mail Address: headcrackers@live.com

5. Petitioner requests this amendment for a proposed property use of: Pasture

6. In making this petition, Petitioner gives permission for an inspection of the above-stated site by the Douglas County Office of Zoning Administration and/or Zoning Committee, and will allow photographs to be taken of the same if necessary.

7. Contact the Town Clerk to place this application on the Town Board agenda prior to scheduled Zoning Committee hearing as required by Sec. 59.69(5)(e) 3 Wis Stats.

(Continued on reverse)
8. A dimensional diagram of the property is as shown below:

```
40. Acres
```

*Property Owner or Agent Signature*  
*Date Signed*

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<th>Type</th>
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<td>1158299</td>
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**Zoning Committee Decision:**

- **Date:**
- [ ] Approved  
- [ ] Denied

**County Board Decision:**

- **Date:**
- [ ] Approved  
- [ ] Denied

Petition for Amendment to Douglas County Zoning Ordinance

Rev 02-2017
NOTICE OF APPEAL OF SUBDIVISION ORDINANCE

PLEASE NOTE: You should contact your Town Board Clerk. Be prepared to present your proposal to the Planning Commission and / or Town Board prior to the Zoning Committee public hearing.

Date of application: ________________  ZC Hearing Date: July 8, 2020

Property Owner's Name: CLOVERLAND MISSION COVENANT CHURCH

Mailing Address: 11889 Hwy 13  City, State, Zip MAPLE, WI 54854

Telephone: Rd 1, Box 198  E-mail Address: 

Tax Parcel #: CL-008-00698-00  Section 36  Town 41  N  Range 11  W

Town of: CLOVERLAND  Zone District: A-1: Agricultural

Property Address: 11889 E Hwy 13

Legal Description: E1/2 SE-SW-SE Ex Pel to Hwy (.43a)

(E-SE-SW-SE)

Name of Registered Licensed Surveyor Creating Certified Survey Map (CSM) for Subdivision: Bill Anderson

ATTACH COPY OF PROPOSED SURVEY OR PLAT SHOWING REQUESTED VARIANCE AND ANY ADDITIONAL INFORMATION.

Variance Requested: (Refer to 8.1 Subdivision Ordinance and appropriate Zoning Ordinance):

DEFINE CEMETARY LOT LINES

create 2 lots less than the minimum lot area of 5 acres required in the A-1: Agricultural district.

Justification for Variance: (Describe Unnecessary Hardship): (if more room is required, use the back of this form)

See reverse side

The undersigned hereby appeals to the Zoning and Planning Committee for a variance from the 8.1 Subdivision Ordinance, Section IX:

Property Owner (or Agent) Signature: Jan W. Arneson

Date Signed: 6-7-2020

Agent mailing address / phone: Jan W. Arneson 1745 County Hwy "B" Brod, WI 54820

Zoning Committee Decision:

Date: [ ] Approved  [ ] Denied

Notes: [ ]

Douglas County Subdivision Ordinance Variance Appeal  Rev 02-2017
If this variance is approved:

- Submit the Certified Survey Map (CSM) for review / approval by the Douglas County Zoning Administrator and Douglas County Surveyor.
- Following review and approval the Certified Survey Map should be recorded in the Douglas County Register of Deeds Office.
- After the Certified Survey Map is recorded the Douglas County Property Lister will assign new parcel identification numbers.

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Proposed Certified Survey Map

Part of the Southwest Quarter of the Southwest Quarter
Section 36, Township 49 North, Range 11 West
Town of Cloverland, Douglas County, Wisconsin

Lot 1
151855 Sq. Ft.
3.49 Ac.

Lot 2
38742 Sq. Ft.
0.89 Ac.

Legend
- Brass capped iron pipe found.
- 3/4" rebar found.
- 5/8" iron rod found.
- 3/4" diameter x 24" long rebar set, weighing 1.5 lbs./ft.

State Highway 13

Sheet 1 of 2 Sheets
APPLICATION FOR PERMIT:  ☑ CONDITIONAL-USE
X LAND-USE

APPLICATION WILL NOT BE PROCESSED WITHOUT SIGNATURE & DATE ON THIS PAGE.

TO WHOM IT MAY CONCERN: The undersigned hereby applies for a permit to do work herein described in this application. The undersigned agrees that all work will be done in accordance with the Douglas County Zoning, Shoreland Zoning, Subdivision Control, Floodplain Ordinances and with all laws of the State of Wisconsin applicable to said premises. Do not start any construction until this office has issued a permit. Failure to obtain the necessary permits will result in a double permit fee and/or citation.

CONDITIONAL-USE PERMIT APPLICATIONS: PLEASE CONTACT TOWN CLERK - APPLICATIONS REQUIRE REVIEW BY YOUR TOWN BOARD PRIOR TO SCHEDULED ZONING COMMITTEE PUBLIC HEARING

Property Owner's Name: DL SKINN LLC
Mailing Address: 3125 Mont De Lail Avenue, Superior, WI 54880
Telephone: 218-626-3797  E-mail Address: mweo@mooreresort.com

PROPERTY DESCRIPTION: Information must be complete and accurate. If applicable state lot number, block number, subdivision name, government lot number, quarter sections, etc. (Note: This may be copied from your tax notice or deed.)

Tax Parcel #: TS-030-01913-00, Section 48, Town 48, N Range 15 W
Town of: Superior
Parcel Acreage or Size: 10.01

Property Address: 3041 S. Whitetail Drive
Legal Description: Lot 1 CSM #527 Vol 4 PG 28-9 PT N-3/4 OF E-1/4 NW SW
Name of Adjacent Lake or Stream: Wetlands: ☐ Yes ☑ No Zone District: RA

Type of construction: ☒ LODGING FOR RESORT

Proposed Use: LODGING FOR THE RESORT (EXISTING BUILDING)

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<th>Width</th>
<th>Length</th>
<th>Area (sq ft)</th>
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<th>Stories</th>
<th># Bedrooms</th>
<th># Occupants</th>
<th>Est Cost - $</th>
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Please stake building site prior to submitting this application.

Has any portion of the project been started? Yes ☑ No ☐ Sanitary Permit #: 44754 8/15/1972

By signing this application, I give my/our permission to allow a site inspection to be made of the site by Zoning staff and allow photographs to be taken if necessary. I hereby agree to terms and conditions on following site sketch page.

Applicant’s Signature: __________________________ Date: 2-6-20

Printed Name (if different than property owner above):

Address & phone (if different than property owner above):

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<td>Site Staked?</td>
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Permit No: __________________________

Date Issued: __________________________
Zone Chg No: __________________________
Variance No: __________________________
ZC 2019-7, DL Skiing LLC (L. Pulkrabek)
R-2 Residential > C-1 Commercial

Map Printed: 11/13/2019
1 in = 100 ft
APPLICATION FOR PERMIT:  □ LAND-USE  □ CONDITIONAL-USE  

APPLICATION WILL NOT BE PROCESSED WITHOUT SIGNATURE & DATE ON THIS PAGE.

TO WHOM IT MAY CONCERN: The undersigned hereby applies for a permit to do work herein described in this application. The undersigned agrees that all work will be done in accordance with the Douglas County Zoning, Shoreland Zoning, Subdivision Control, Floodplain Ordinances and with all laws of the State of Wisconsin applicable to said premises. Do not start any construction until this office has issued a permit. Failure to obtain the necessary permits will result in a double permit fee and/or citation.

CONDITIONAL-USE PERMIT APPLICATIONS: PLEASE CONTACT TOWN CLERK - APPLICATIONS REQUIRE REVIEW BY YOUR TOWN BOARD PRIOR TO SCHEDULED ZONING COMMITTEE PUBLIC HEARING

PROPERTY OWNER’S NAME: Roger L Castle revocable family trust

MAILING ADDRESS: P.O. Box 937
City, State, Zip: Black River Falls 54615

TELEPHONE: 715-896-0413  E-mail Address: willisrizz@gmail.com

PROPERTY DESCRIPTION: Information must be complete and accurate. If applicable state lot number, block number, subdivision name, government lot number, quarter sections, etc. (Note: This may be copied from your tax notice or deed.)

Tax Parcel #: G0 01a-00 885-00  Section 41  Town 44  N  Range 11  W
Town of: Gordon  Parcel Acreage or Size: 50 Acres / 80 total

Property Address: 1317 Slamang Rd

Legal Description: SW SW 1/4 44-11

Name of Adjacent Lake or Stream: None  Wetlands: □ Yes  □ No  Zone District: E1

Type of construction: Private Campground  ☑ Campers

(accessory building, dwelling, addition to seasonal dwelling, alteration to accessory building, relocate structure)

Proposed Use:

(type-year-round or seasonal dwelling, storage, commercial use, change of use of structure)

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<th>Length</th>
<th>Area (sq ft)</th>
<th>Height</th>
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<th># Occupants</th>
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<td>0</td>
<td>0</td>
<td>0</td>
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Has any portion of the project been started? Yes □ No ☑ Sanitary Permit #: 

By signing this application, I give my/our permission to allow a site inspection to be made of the site by Zoning staff and allow photographs to be taken if necessary. I hereby agree to terms and conditions on following site sketch page.

Applicant’s Signature:  
Date: 6-3-20

Printed Name (if different than property owner above):

Address & phone (if different than property owner above):

Permit No: 

Date Issued: 
Zone Chg No: 
Variance No: 

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<th>Receipt #</th>
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<tr>
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At the time this application is submitted for review, the proposed structure should be staked. Stakes, flags or some other method of identifying the footprint of the proposed structure must be placed before the site inspection can take place.

You are responsible for complying with State and Federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification page or contact a Department of Natural Resources Service Center.

Additional responsibilities for owners of projects disturbing one or more acre(s) of soil
I understand that this project is subject to regulations regarding erosion control and storm water management and I will comply with those standards. For more information, visit the Department of Natural Resources or contact a Department of Natural Resources Service Center.

It is the property owner’s responsibility to know the location of their lot lines to ensure setback requirements are met.
APPLICATION FOR PERMIT:  □ LAND-USE  ☑ CONDITIONAL-USE

APPLICATION WILL NOT BE PROCESSED WITHOUT SIGNATURE & DATE ON THIS PAGE.

TO WHOM IT MAY CONCERN: The undersigned hereby applies for a permit to do work herein described in this application. The undersigned agrees that all work will be done in accordance with the Douglas County Zoning, Shoreland Zoning, Subdivision Control, Floodplain Ordinances and with all laws of the State of Wisconsin applicable to said premises. Do not start any construction until this office has issued a permit. Failure to obtain the necessary permits will result in a double permit fee and/or citation.

CONDITIONAL-USE PERMIT APPLICATIONS: PLEASE CONTACT TOWN CLERK - APPLICATIONS REQUIRE REVIEW BY YOUR TOWN BOARD PRIOR TO SCHEDULED ZONING COMMITTEE PUBLIC HEARING

Property Owner's Name: Town of Gordon
Mailing Address: PO Box 68  City, State, Zip  Gordon WI 54838
Telephone: 7153262093  E-mail Address: gordontown.douglas@wi.gov

PROPERTY DESCRIPTION: Information must be complete and accurate. If applicable state lot number, block number, subdivision name, government lot number, quarter sections, etc. (Note: This may be copied from your tax notice or deed.)
Tax Parcel #:GO-012-01277-00  Section 31  Town 44  N Range 11 W
Town of: Gordon  Parcel Acreage or Size:40.00
Property Address: 14358 S St Croix Rd (This is the main address Address to proposed site is 9856 E
Legal Description: SW SE 31-44-11, EX PT TO HWY
Name of Adjacent Lake or Stream: N/A  Wetlands:  ☐ Yes  ☑ No  Zone District: RR-2 _

Type of construction: Recreation Service-Oriented Use
(accessory building, dwelling, addition to seasonal dwelling, alteration to accessory building, relocate structure)
Proposed Use: Storage of Machinery for trail maintenance.
(year-round or seasonal dwelling, storage, commercial use, change use of structure)

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<th>Length</th>
<th>Area (sq ft)</th>
<th>Height</th>
<th>Stories</th>
<th># Bedrooms</th>
<th># Occupants</th>
<th>Est Cost - $</th>
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<td>60'</td>
<td>2,400 sq ft</td>
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<td>0</td>
<td>0</td>
<td>$55,000</td>
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Has any portion of the project been started? Yes ☐ No ☑ Sanitary Permit #: 

By signing this application, I give my/our permission to allow a site inspection to be made of the site by Zoning staff and allow photographs to be taken if necessary. I hereby agree to terms and conditions on following site sketch page.

Applicant's Signature:  Date: 6/20/20

Printed Name (if different than property owner above):  Address & phone (if different than property owner above):

<table>
<thead>
<tr>
<th>Type</th>
<th>Amount</th>
<th>Date Paid</th>
<th>Receipt #</th>
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<tbody>
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<td>1817389</td>
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<td>Site Staked?</td>
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</tbody>
</table>

Permit No:  Date Issued:  Zone Chg No:  Variance No:  

Revised 03-2019
You are responsible for complying with State and Federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification page or contact a Department of Natural Resources Service Center.

**Additional responsibilities for owners of projects disturbing one or more acre(s) of soil**

I understand that this project is subject to regulations regarding erosion control and storm water management and I will comply with those standards. For more information, visit the Department of Natural Resources or contact a Department of Natural Resources Service Center.

_It is the property owner’s responsibility to know the location of their lot lines._
At the time this application is submitted for review, the proposed structure should be staked. Stakes, flags or some other method of identifying the footprint of the proposed structure must be placed before the site inspection can take place.

You are responsible for complying with State and Federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification page or contact a Department of Natural Resources Service Center.

Additional responsibilities for owners of projects disturbing one or more acre(s) of soil
I understand that this project is subject to regulations regarding erosion control and storm water management and I will comply with those standards. For more information, visit the Department of Natural Resources or contact a Department of Natural Resources Service Center.

It is the property owner's responsibility to know the location of their lot lines to ensure setback requirements are met.
APPLICATION FOR PERMIT:  

☐ LAND-USE  ☑ CONDITIONAL-USE

APPLICATION WILL NOT BE PROCESSED WITHOUT SIGNATURE & DATE ON THIS PAGE.

TO WHOM IT MAY CONCERN: The undersigned hereby applies for a permit to do work herein described in this application. The undersigned agrees that all work will be done in accordance with the Douglas County Zoning, Shoreland Zoning, Subdivision Control, Floodplain Ordinances and with all laws of the State of Wisconsin applicable to said premises. Do not start any construction until this office has issued a permit. Failure to obtain the necessary permits will result in a double permit fee and/or citation.

CONDITIONAL-USE PERMIT APPLICATIONS: PLEASE CONTACT TOWN CLERK - APPLICATIONS REQUIRE REVIEW BY YOUR TOWN BOARD PRIOR TO SCHEDULED ZONING COMMITTEE PUBLIC HEARING

<table>
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<th>Applicant / Operator</th>
<th>Property Owners / Lessors (if different from Applicant)</th>
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<td>City of Superior Public Works (T. Janigo)</td>
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</tr>
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<td>Address</td>
<td>Address</td>
</tr>
<tr>
<td>1316 N 14th St</td>
<td>1316 N 14th St</td>
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<tr>
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<td>City, State, Zip Code</td>
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<tr>
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<td>Superior, WI 54880</td>
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<td>Phone Number</td>
</tr>
<tr>
<td>715-395-7334</td>
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</table>

PROPERTY DESCRIPTION: Information must be complete and accurate. If applicable state lot number, block number, subdivision name, government lot number, quarter sections, etc. (Note: This may be copied from your tax notice or deed.)

Tax Parcel #: AM-002-00619-00; AM-002-00622-00; AM-002-00622-01
Section 27  Town 48  N Range 12  W

Town of: Amnicon  Parcel Acreage or Size: 60 Acres

Property Address: Spaulding Rd

Legal Description: E-1/2 SW SE, SE SE 27-48-12

Name of Adjacent Lake or Stream: N/A  Wetlands: ☑ Yes  ☐ No  Zone District: A-1

Nonmetallic Mine (Renewal) - Nonmetallic Mining Permit Number: YR-0078

5-Year Renewal  CU Permit #: 23106

By signing this application, I give my/our permission to allow a site inspection to be made of the site by Zoning staff and allow photographs to be taken if necessary. I hereby agree to terms and conditions on following site sketch page.

Signature of Operator: ___________________________  Date: 6/16/20

<table>
<thead>
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Revised 10-12-2016
You are responsible for complying with State and Federal laws concerning construction near or on wetlands, lakes, and streams. Wetlands that are not associated with open water can be difficult to identify. Failure to comply may result in removal or modification of construction that violates the law or other penalties or costs. For more information, visit the Department of Natural Resources wetlands identification page or contact a Department of Natural Resources Service Center.

Additional responsibilities for owners of projects disturbing one or more acre(s) of soil
I understand that this project is subject to regulations regarding erosion control and storm water management and I will comply with those standards. For more information, visit the Department of Natural Resources or contact a Department of Natural Resources Service Center.

It is the property owner's responsibility to know the location of their lot lines to ensure setback requirements are met.
June 8, 2020

Non-Metallic Mine Condition Use Permit
RECLAMATION PLAN

SITE DESCRIPTION

Access to the site is from USH 2, north onto 22 Rd. and then right onto an unmarked driveway. Proceed east on driveway 1000 feet then driveway turns south/southeast. The property includes parcels AM0020061900, AM0020062200, and AM0020062201. See permit application for full legal description. Total site acreage is 58.5 acres. Approximately 35 acres are proposed for clay mining.

SITE INFORMATION

Topography
Property generally slopes from southeast to northwest and north. It is rolling, topographically. Some wetland swales exist on the property, as shown on the topographic survey map. The proposed project area has an elevation range between 902 and 930 feet.

Historic and Current Land Use
Historically, these lands have been used for haying and farming. Other uses include logging, as has been conducted in the aspen stands immediately north of this property. In the early 2000s, this property was considered for a residential housing development. A road was installed along the northern property boundary and into the site, but lots were never sold and the developer eventually put the acreage up for sale. The City of Superior purchased the property from the developer in 2002. The site is currently used for farming hay. The site is hayed annually. The last haying event occurred in 2019. There is a highway right-of-way on the southern edge of the proposed project area and an easement for the maintenance of a billboard. The billboard easement will not be revoked and will not be included in the project area.

Historic and Cultural Resources
The City of Superior consulted with the Wisconsin State Historical Preservation Office in August 2009. Case file No. 09-0788DG was reviewed by SHPO, who requested an archaeological survey be conducted at the project area. The Duluth Archaeology Center L.L.C. performed a survey of both the Wisconsin Archaeological Sites Inventory and a survey in the field at the project location in September 2009. No historic, cultural, or archaeological resources were discovered on the site. SHPO concurred that no historic properties would be affected by implementation of the project in November 2009. A report is on file with the city and can be provided upon request.
Geological & Soils Assessment
Site is predominantly Amnicon-Cuttre clay soils (soil map unit 262B). Soils along the tributary to Miller Creek are Miskoaki Clay Loam (soil map unit 274D). Existing soils are generally 3-8 inches of tilled clay with moderate organics developed from the cropping activities. Below this homogenous till layer lies red clay parent material, consistent to more than 18 inches below the soil surface. In drainage ways, where remnant wetlands exist, the soils have minimal variation in the soil profile except that the darkened plow horizon is thicker (five to eight inches) and shows gleyed mottles and oxidized root channels, only in the lowest areas. Most drainage patterned areas, particularly visible on the aerial photographs are, lacking in hydric soil characteristics and hydric vegetation. It is unclear if this is temporary due to the long drought period (currently in Year 5) or if enlargement of the natural drainage ways and installation of culverts to accelerate drainage to Miller Creek has effectively permanently drained the historic wetlands.

Hydrology/Drainage Patterns
There are wetlands present on the site, primarily as drainage ways, headwaters and shallow depressions in the field where culverts have been placed and in a mixed hardwood forest where a mosaic system of wetlands and uplands lies. A wetland delineation was conducted in August 2009 (report on file, available upon request). Wetlands observed on the site were concentrated in swales and low areas generally comprised of ditches dug for drainage of the farmed area, and forested wetlands in the northeast corner of the project area.

Approximately 200 acres of land drain toward the project site. At least two mapped drainages flow through the site, as shown on the USGS Topographic map. Both Miller Creek and Wagner Creek have intermittent tributaries beginning within the project area. Both of these creeks are tributaries to the Amnicon River, which discharges into Lake Superior.

Because US Highway 2 (now Spaulding Road) runs the length of the southern boundary to the property, culverts under the road hydrologically connect the watershed to the south with the project area. One culvert is located in the southeast corner and one in the southwest corner of the project area. While both of these hydrologic connections direct water through the site, the culvert on the west side drains to lands significantly lower in topographic elevation than the surrounding lands within the project area.

Flora
The dominant vegetation on the hayed portion of the site consisted of crop species including brome grass, Kentucky bluegrass, oxeye daisy, timothy, bird-foot trefoil, red and white clover, buttercup, field strawberry, reed canary grass, yellow hawkweed, Canada goldenrod, and graceful sedge. Reed canary grass is occasional and interspersed in small clumps in low lying areas in the field and more concentrated in the ditches.

Along the southern edge of the project area is a wooded buffer between the field and the highway. This wetland mosaic is dominated by quaking aspen, Kentucky bluegrass, prickly rose, raspberry, Canada bluejoint grass, marsh marigold, fox sedge, red osier dogwood, bracken fern, ostrich fern, fireweed, and yarrow.

No state or federally listed plant species were observed within the project boundaries at the time of the vegetation survey.

Fauna
Fauna observed on the site are typical of hayfields in northern Wisconsin. Deer activity is high. Various rodents have been observed during field surveys. Many avian species have been observed onsite, though not distinctively identified. Other animals expected in this type of habitat include red fox, raccoon, red squirrel, skunk, black bear, fisher, martin, and coyote.
Wetland Delineation

A wetland delineation was conducted by Charlene Johnson, M.S., P.W.S on August 17, 2009 in accordance with the U.S. Army Corps of Engineers 1987 Wetland Delineation Manual, with techniques and considerations made from the draft supplement for the North Central Region. This delineation was reviewed by the U.S. Army Corps of Engineers in September 2009 and concurred with, verbally, on site. The wetland delineation report, data sheets, and maps are available upon request. Existing wetlands were identified in the relatively undisturbed areas north of the hayfield, in the northwestern corner of the site, and along the western boundary, where the tributary of Miller Creek runs. Other drainage areas running through the site (particularly on the east side) failed to meet wetland hydrology, soils, and vegetation parameters.

Wetland Functional Assessment

Wetland Functional Assessments were completed during the vegetative survey in July 2009 by Charlene Johnson, P.W.S. and are available upon request. The project, as proposed, will result in minimal change in the overall landscape and thus, once stabilized, will have no impact on the wetlands nearby. The following summarizes the assessments.

Three wetland areas were assessed:

1) MWC-1 included the fallow field and aspen swamp mixed matrix generally located north and east of the access road on the north end of the project area. This area has been historically farmed and logged, but has gone fallow over the last 10-20 years. This area receives stormwater from the agricultural field which comprises the majority of the mitigation bank project area via sheet flow on the east side and culverts on the under the access road. A few major drainage ways exist in the forested swamp, which are relatively unaltered. These drainage ways comprise the headwaters to Wagner Creek. Because of their dominance by quaking aspen and prevalence of reed canary grass and other field weeds, the plant habitat integrity is medium. Wildlife, hydrologic, and flood integrity is also medium due to the placement of this area amongst heavy agriculture. Water quality protection is high since the wetlands are associated immediately with Wagner Creek, and within a half mile of Amnicon River and 2 miles of Lake Superior. The public value of this wetland complex is high due to public ownership, access from US Highway 2 and the access road off of 22 Road, and the site’s potential for education, recreation, hunting, and research.

2) MWC-2 includes the hay field which comprises the bulk of the compensatory wetland mitigation project area. Three small wetland areas were assessed here including remnant low lying areas in the northwest corner of the project area and a remnant low spot dominated by a handful of shrubs near the terminus of the access road, next to a culvert. These wetland areas were of low functional quality in all assessed functions except water quality protection and public value. Low functional quality was assessed for the majority of the values, since the area is heavily degraded by agricultural land use, ditches, and culverts to drain the site. Water quality protection is medium since the area is located in close vicinity to Miller and Wagner Creeks, Amnicon River, and Lake Superior. The public value of this wetland complex is high due to public ownership, access from US Highway 2 and the access road off of 22 Road, and the sites potential for education, recreation, hunting, and research.

3) MWC-3 includes the riparian wetlands through which a tributary of Miller Creek runs, along the west side of the project area. This wetland area is of medium to high quality in all functional values due to minimal disturbance, though invasive plant species are prevalent in the meadow areas. The drainage way feeds under USH 2 by a culvert and then out of the project site via a culvert under the access road off of 22 Road. Water quality protection is medium since the area is located in close vicinity to Miller and Wagner Creeks, Amnicon River, and Lake Superior. The public value of this wetland complex is high due to public ownership, access from US Highway 2 and the access road off of 22 Road, and the sites potential for education, recreation, hunting, and research.
POST-MINING LAND USE

The project area will be reclaimed as suitable in elevation and grade for the purpose of maintaining an agricultural function or for use as a future building site, as would be consistent with the Amnicon Comprehensive Plan. Clay soils similar in nature, but currently slightly higher in moisture content, may be hauled into the site to partially replace the loss of drier material being mined out of the site.

Since the overall elevation of the site is higher than that from which the material came, the moisture content in the clay will dry over time (along with the hydric characteristics which make it unsuitable for use in clay liner construction at the City’s landfill) resulting in a non-hydric condition.

The final topography will be smooth and graded to facilitate drainage, as is the current state. The site will be seeded and stabilized with a Wisconsin DOT seed mixture such as No. 10 (2020):

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<tr>
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<td>85</td>
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<tr>
<td>Red Fescue</td>
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<tr>
<td>Redtop</td>
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<td>5</td>
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<td>Perennial rye grass</td>
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<tr>
<td>White Clover</td>
<td>95</td>
<td>90</td>
<td>10</td>
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RECLAMATION MEASURES

After mining operations are complete, the site will be graded smooth and with a slope no flatter than 1%, maintaining sufficient slope to prevent water from stagnating on the property.

To reduce the total change in elevation on the site, project specific suitable clay material removed may be replaced, as practicable, with clay materials currently in the City’s clay stockpile (on Wisconsin Point Road) which are not suitable for the specific needs of the landfill’s final capping project (expected 2025). Any replacement of material will be applied as practicable, and will reduce the overall elevation change. Where replacement of soils may be limited or in areas where matching the current elevation is not practicable, mining operations will be focused on cutting in areas where excess topography (knolls) are present, specifically in the north and northeastern portions of the property, where the current elevation of the property is well above that of the wetland elevations to the north.

Drainageways along the eastern and northern portions of the property will also be maintained or enhanced to direct water away from the site.

Topsoil from the mining area will be stripped and stockpiled and secured on site to be replaced during final reclamation efforts, maintaining the integrity of the site’s agricultural seed bank. Stockpiles will be seeded with an upland temporary seed mix during all mining operations.

Quantifiable standards for revegetation
Vegetation shall be established on no less than 100% of the project area, excluding ditches when maintained, and roads/driveways. Bare patches of soil where vegetation should be present shall be re-seeded until the site achieves total vegetation coverage, where applicable.
Erosion Control Plan
Erosion control efforts will be implemented during all mining and reclamation activities.
- Silt fence will be installed and maintained around the perimeter of the project area.
- Double silt fence will be installed along the western and northern boundary of the reclamation area buffering impacts between the construction and the wetland areas.
- A rock entrance will be installed along the driveway to prevent tracking by hauling trucks.
- All culverts will be buffered with rock dams and/or bale checks

Temporary Reclamation Methods
Appropriate temporary seed mix with cover crop will be used in areas requiring temporary seed cover in accordance with Wisconsin DNR Technical Standard 1059.

Criteria for Successful Reclamation
Successfully achieve 100% vegetative cover over the project site, excluding roads or other structures. Bare spots shall be re-seeded.

Reclamation Evaluation Procedures
Compliance with re-vegetation success standards in the approved reclamation plan will be determined by on-site inspections which will occur until vegetation is well established over no less than 100% of the project site (excluding roads and structures). Re-vegetation success will be measured by observations of bare spots within the project areas. Areas failing to establish target vegetation (common to an agricultural field) will be re-seeded and mulched until vegetation is established.

Estimated Costs for Reclamation

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<th>Description</th>
<th>Unit Cost</th>
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<td>Topsoil Salvage</td>
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<tr>
<td>Seeding</td>
<td>$ 200.00/ac</td>
<td>35</td>
<td>$7,000</td>
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<tr>
<td>Mulching</td>
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<td><strong>TOTAL</strong></td>
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<td><strong>$638,300</strong></td>
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Certification of the Reclamation Plan

Operator Certification

I hereby certify, as a duly authorized representative or agent, that [Todd Janigo] (name of operator) will comply with the provisions of this reclamation plan as well as the statewide nonmetallic mining reclamation standards established in ss. NR 135.05 through NR 135.15, Wis. Adm. Code.

Signature of Applicant or Duly Authorized Agent

Date Signed

4/9/20

Landowner Certification

I/we, as the landowner(s) or lessee(s) of the property described herein, do hereby certify that I/we have reviewed the reclamation plan submitted by [Tod Janigo], concur with its provisions, and agree to permit its implementation.

Signature of Landowner(s) or Lessee(s)

Date Signed

4/9/20
DOUGLAS COUNTY PERMIT

ISSUE DATE
08/11/2017

CONDITIONAL-USE#
23106

MAILING ADDRESS
CITY OF SUPERIOR
1316 N 14TH ST
SUPERIOR WI 54880

TOWN OF AMNICON

PARCEL(S): AM-002-00619-00, AM-002-00622-00, AM-002-00622-01

PROPERTY ADDRESS
NONE

LEGAL DESCRIPTION:
E-1/2 SW SE 27-48-12; SUBJ TO EASE, EX PCL 17 TPP #1180-43-21-4.09 VOL 1 PG

SECTION
27

TOWN
48 N

RANGE
12 W

FOR
NON-METALLIC MINE (RENEWAL)

CONDITIONS: The following minimum requirements must be met for all land uses:

08-09-2017 - Douglas County Zoning Committee conditionally approved 3-year renewal of nonmetallic mining permit. Confirmation of Town approval received 08-11-2017. All conditions associated with this permit are listed on Page 2. This permit should be considered incomplete without Page 2 attached.

This is not a building permit. Check with your Town Chairman for information concerning township building requirements or permits for any structure. The Wisconsin Uniform Dwelling Code requires that all towns issue building permits for new dwellings and additions to existing dwellings. Please contact the appropriate town clerk for obtaining permits.

ZONING AUTHORITY
CONDITONS OF PERMIT: 23106

As approved by Zoning Committee 08-09-2017

Tax Parcel I.D. Number: 1) AM-002-00622-00
                          2) AM-002-00622-01
                          3) AM-002-00619-00

Proposed Use: Non-Metallic Mining Permit (3-Year Renewal)

NMM Permit Number: YR-0078

ISSUED: 08-11-2017
(No Address Assigned)

CONDITIONS:

1. This permit approved for three-year period, expiring 08-09-2020.

2. Must comply with Ordinance 8.0, Section VI, Sub. 6.2. Reclamation plan on file reviewed by Douglas County Land & Water Conservation and determined adequate for permit renewal.

3. Town’s conditional approval received and on file. Operator subject to agreement referred to in a letter from the Town of Amnicon dated 03-11-2012 (copy attached).

4. Must renew as applicable and comply with all conditions of DNR Stormwater Permit.

5. Must comply with Ordinance 8.9 to include NR-135 annual reporting requirements.

6. Financial assurance not required on mines operated by municipality.

7.

This page is intended to be a part of above numbered permit and should be included in any copies or other duplication of this permit.

Permit Continuation of Conditions
Reclamation Plan Revisions – CU #14022

Site Information

Maps

See attached new map. Our current mining area is 23.2 acres. There are no plans to have any ponds on site. The current pond on site is for dust control.

Post Mining Land Use

The water that is currently on site is for dust control only. The post mining land use will be forest property.

Reclamation Measures

Earthwork and Grading

All walls left standing are currently up to mine safety standards with berms safely built around them. Berms are built as we mine.

Topography

No water will be left on site.

Cost

Current mining area is 23.20 acres. To reclaim 18.20 acres is as follows:

$1,110.00 per acre for seed and mulch = $20,202.00 (80% coverage)
$110.00 per acre for native species = $2,002.00 (20% coverage)
Total per acre: $1,220.00 x 18.2 acres = $22,204.00

Balance of the 23.2 acres (approximately 5 acres) will be walls with berms built around them.
March 13, 2020

Re-vegetation Plan

Permanent Seeding Requirements

Native seed mix will consist of WisDOT mix 70 or 70A or 75. Seed and mulch will be completed by Superior Landscape.

Re-vegetative Standards

Reclamation will include 80% vegetative cover with sufficient native species coverage.

900 pine and hardwood seedlings per acres planted 6' apart and 8' between rows. Survival rate 700 per acre. Cost would be $600.00 to plant

Criteria for Successful Reclamation

1. Pine and hardwood seedlings are healthy and growing, survival rate 700 per acre.
2. Erosion measures are no longer necessary.
3. The slopes meet the 3:1 criteria.
4. The site is a sanctuary where native birds and wild life can live and nest.
5. All criteria in this plan have been met.
6. No solid waste or salvage materials remain.

An onsite inspection will verify that the conditions and requirements of the reclamation plan have been met. The county zoning department will have the final authority to determine if the reclamation has been successful.

Financial Assurance

See attached letter form National Bank of Commerce. See cost breakdown under cost listed above.
ICECOR
IC ENVIROMENTAL CORPORATION

Non-Metallic Mining
Reclamation Plan

5996 E. Mabel Nelson Road
Town of Oakland, Wisconsin

ICECOR PROJECT #102004003

Original Plan Date: April 26th, 2004
Revision Date: June 23rd, 2020

CIVIL ENGINEERING
ENVIRONMENTAL ENGINEERING
INDUSTRIAL HYGIENE
SAFETY
HYDROGEOLOGY
GEOLGY

PHONE 715-392-0965 • FAX 715-392-0180 • EMAIL icecor@centurytel.net • P.O. Box 1105, Superior, WI 54880
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## FIGURES

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- **Figure 2** Site Map
- **Figure 2a** Active Area Map
- **Figure 3** Post Mining Map
- **Figure 4** Bedrock Type Map
- **Figure 15** Depth to Groundwater map

Aerial Photograph of Site 
Plat Map
1.0 SITE INFORMATION

The following is information regarding the non-metallic mining operation, Tax Parcel No. #0A-022-00428-00.

1.01 General Location/Property Boundaries

The operation is located at 5996 E. Mabel/Nelson Road in the Town of Oakland, Wisconsin. It is located in the NE 1/4 of the SE 1/4, in Section 9, Range 14W, Township 47N in Douglas County, Wisconsin. The property is owned by Mr. Harold Larson (et. Al.), and the mining pit is operated by Alliance Steel Construction. Figure 1 presents the general location of the site, and the enclosed plat page indicates size and parcel ownership in the local area of the operation. The property is approximately 40 acres in size and the existing facility layout is presented on Figures 2 and 2a.

1.02 Geological Composition

The mineral deposit is a Middle Proterozoic volcanic rock (Pleistocene Geology of the Superior Region, 1985). At the site, the volcanic rock appears to be a fine grained gabbro. Rock is present at the surface in much of the area, but till or stream sediment may be a few meters or more thick in many areas.

1.03 Distribution, Thickness, and Type of Topsoil

The unconsolidated materials atop bedrock are approximately 0-6 feet in thickness and consist of glacial till [sandy silt and clay soils] (Pleistocene Geology of the Superior Region, 1985). Soil above bedrock is very thin along the crest of the ridge running through the site, and gets thicker to the north and south of the ridge.

Where the unconsolidated materials have been enriched by organic matter at the surface, approximately 5-7 inches of topsoil has developed. The topsoil is a sandy silty loam that is hydric along the northern half of the site.

1.04 Approximate Elevation of Groundwater

As per the enclosed Figure 15 from the Northwest Regional Planning Commission, the approximate depth to groundwater in the vicinity of the operation is greater than 50 feet below the ground surface (BGS).

1.05 Location of Surface Water

As per the enclosed Figure 1, a tributary to the Little Amnicon River is located approximately 243 feet south of the southern property boundary and the Little Amnicon River is located approximately 3600 feet southeast of the southern property boundary. The Little Amnicon River discharges to the Amnicon River east of the site,
which eventually discharges to Lake Superior 12 miles northeast of the site. The enclosed aerial photograph depicts a purple shaded polygon along the northern part of the site which indicates the presence of mapped wetlands.

1.06 Existing Topography and Drainage Patterns

The site is located along a ridge feature trending southwest-northeast which is a drainage divide (Figure 1). The major drainage direction from the active pit area is to the southeast. Runoff from the active pit area will migrate to the southeast and enter a small tributary that flows to the east and discharges to the Little Amnicon River. Runoff north of the active pit area migrates to the north-northwest and enters tributaries which discharge to Bluff Creek, which eventually discharges to Allouez Bay and Lake Superior north of the site. The surface south of the active pit area slopes moderately to steeply to the southeast, and to the north it slopes gently to the north-northeast.

1.07 Location of Man Made Features

Manmade features are depicted on Figure 1, Figure 2, Figure 2a, and on the enclosed aerial photograph with super-imposed property boundaries. The features present on the subject site are the driveway into the site, the weigh scale and small scale building, and the active pit area at the southeast corner of the site. An separate active non-metallic mining operation is visible west of the site on Figure 1 and the aerial photograph.

1.08 Previously Mined Areas

Figures 2 and 2a present the limits of the previously mined areas at the site, which are also visible on the enclosed aerial photograph. The current area of previously mined area at the site is approximately 2.3 acres. Figure 1 and the aerial photograph present the location of the existing mine area west of the site which is owned and operated by a different owner.

1.09 Biological Information

The north, west, and south sides of the mining site are forested and the vegetation is composed of trees, shrubs, and herbs. Trees present include quaking aspen, maples, and conifers. Shrubs include beaked hazel brush and tag alder is present along the northern and southern sides of the property. Herbs are mostly grasses present in the forest under story. The area to the east of the active pit area is composed mostly of shrubs and grasses which slope downwards into the forested area south of the site.

The area is inhabited by animal species including whitetail deer, rabbit, fox, and grouse.
1.10 Post-Mining Land Use

Post mining land use will be Forestry (F-1), which is consistent with the current land use in this zoning district. The property will be held privately and not used as a recreation area open to the public.

2.0 RECLAMATION MEASURES

The following reclamation measures are proposed to reclaim and stabilize the mined areas of the property when active operations are discontinued. The measures will occur within six (6) months of the area’s depletion. Planning will be performed so seeding operations will occur within the accepted growing season as specified in the re-vegetation plan. If conditions other than those anticipated or addressed in this document occur in the intervening years, an amended reclamation plan will be prepared and submitted for approval as necessary to address and incorporate the changes.

2.01 Earthwork and Grading

Earthwork and grading operations will conform to the proposed final contours on Figure 3. Adjustments in the final contours will be made as necessary depending on the final extents of mining operations. Areas outside the disturbance limit of the pit will remain in their original vegetative condition.

2.011 Rock Walls

Because the property will be privately held at the completion of mining activities, the sheer rock walls will be left standing. Loose rock material will be removed, leaving competent walls that are not expected to collapse. Since a potential risk to safety exists, warning signs will be posted along the top of the rock walls. Grading of unconsolidated materials will be performed to direct drainage away from the lip of the rock walls. Loose rock (riprap) will be placed at the foot of the rock walls to reduce erosion from any runoff cascading over the top of the walls.

2.012 Final Slope Angles

All vegetated slopes shall be graded to provide a maximum 3:1 side slope. Side slopes shall be terraced to provide flat areas that will blend into existing topography, which will help minimize erosion by slowing the velocity of runoff.

2.013 High Wall Reduction

In areas where high walls of unconsolidated materials are present, all loose material shall be removed. Where a potential risk to safety exists, warning signs will be posted. It is expected that high walls will be composed of a stable rock
and not unconsolidated materials, in which case follow Section 2.011. If practicable, high walls of unconsolidated materials should be benched at 3 foot vertical to 3 foot horizontal intervals to minimize safety and erosion hazards.

2.02 Topsoil

As the existing pit area is expanded, topsoil will be removed and stockpiled away from mining operations. Stumps, roots, large rocks, and other non-earthen materials will be removed/screened from the soil prior to stockpiling. Once the soil is stockpiled, silt fence will be placed around the base of the pile and then the stockpile will be seeded using the mixture for temporary seeding. A traffic access opening in the silt fence is allowed as long as it is located on ground at a higher elevation than the stockpile area, and runoff from the silt fenced area will not exit this opening and allow sediment to escape with runoff.

Once the reclamation process begins, the topsoil will be placed evenly over the entire pit area and then seeded as described in the permanent seeding recommendations. The topsoil will be spread thick enough to support vegetative growth, and additional topsoil will be imported in necessary to accomplish this goal.

2.03 Topography

The final topography will be determined upon completion of the non-metallic mining operations. The final contours will reflect the maximum 3:1 slope requirements, and should reflect the general intent of the proposed final contours on Figure 3. It is anticipated that rock walls will surround most of the pit area as indicated on Figure 3. Soils should be sloped from the base of the rock walls at the 3:1 ratio, creating a flat area within the bordering rock walls that slopes gently to the east. Runoff will exit the southeast corner of the reclaimed area as sheetflow and enter the wooded area south of the site. If runoff is channelized by manmade or natural processes, a small depression (pond) area should be located at the southeast corner to remove sediment from storm water runoff. The entrance and exit of the pond should have riprap inhibit erosion.

2.04 Structures

The existing road into the site will remain after reclamation, for access purposes. Roadways into the pit bottom will be sloped (maximum of 3:1) and vegetated. The weigh scale, scale building, and any other structures will be removed.
2.05 Re-Vegetation Plan

Upon completion of construction, all disturbed areas within the site boundaries will be seeded and mulched within 24 hours. If construction is completed after September 15th, a temporary seeding of winter wheat or rye (or a dormant seeding) shall be made following seeding rates and recommendations listed in following sections. All required tests and materials such as seed, lime, fertilizer, and mulch shall be obtained and present on-site prior to the completion of construction.

1. In lieu of a soil test, fertilizer shall be applied at a rate of 300 lbs of 20-20-20 and 2 tons of 80-85 lime or equivalent per acre.
2. Seed mixtures will be applied at pure live seed rates.
3. Mulch materials shall be applied and secured within 48 hours of the completion of construction. Mulch materials shall be spread at the recommended rate so as not to hamper the establishment of the planned vegetation.

All topsoil and seed bed preparation shall be completed prior to the start of the seeding operation. All components involved with the establishment of vegetation and stabilization of the project shall be performed in accordance with specified sections of the reclamation plan.

2.051 Dormant Seeding Recommendations

Dormant seeding is seeding performed after November 1st, and is not recommended as part of this plan.

2.052 Temporary Seeding Recommendations

Temporary seeding is performed from September 16th to October 1st, and shall consist of winter wheat or rye applied at a rate of 2 bushels/acre. It is anticipated that approximately 11.1 acres of disturbed/graded area could need to be seeded.

Winter Wheat or Rye 2.0 bushels/acre 22.2 bushels needed
2.053 Permanent Seeding Recommendations

Optimum permanent seeding dates are:
  May 1st to June 15th for spring seeding
  July 15th to August 15th for fall seeding

It is anticipated that approximately 11.1 acres of disturbed/graded area could need to be seeded. Seeding recommendations are as follows:

<table>
<thead>
<tr>
<th>Material</th>
<th>Rate</th>
<th>Need</th>
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</thead>
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<tr>
<td>WisDOT Mix 70</td>
<td>Rate: 17.42 lbs/acre</td>
<td><strong>Need: 193.36 lbs</strong></td>
</tr>
<tr>
<td>Fertilizer</td>
<td>Rate: 300 lb/acre</td>
<td><strong>Need: 3330 lbs</strong></td>
</tr>
<tr>
<td>Lime</td>
<td>Rate: 2 ton/acre</td>
<td><strong>Need: 22.2 tons</strong></td>
</tr>
<tr>
<td>Mulch</td>
<td>Rate: 2 ton/acre</td>
<td><strong>Need: 22.2 tons</strong></td>
</tr>
<tr>
<td>or</td>
<td>Rate: 60 bales/acre</td>
<td><strong>Need: 666 bales</strong></td>
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</tbody>
</table>

2.054 Re-Forestation Recommendations

Upon completion of mining and permanent seeding tasks, the disturbed areas of the site will be planted with tree seedlings at a rate of 400 seedlings per acre. The seedlings will consist of equal numbers of Red Pine, White Spruce, and Sugar Maple species.

Tree Seedlings Rate: 400 trees/acre **Need: 4440 seedlings**

2.055 Re-Vegetation Standards

The standards for the re-vegetation of the pit area are as follows:

1. Seeding, fertilizing, and mulching shall be performed as per the re-vegetation plan.
2. Vegetation shall be considered complete seeded areas support 70% vegetative cover with sufficient native species coverage, and 60% of planted tree seedlings survive 3 growing seasons.
3. All erosion control measures shall be maintained until vegetation is fully established.
4. If it is determined that the seeding has failed, the area shall be re-seeded as soon as feasible.

2.06 Erosion Control

Erosion control measures during reclamation are recommended to follow NRCS or DOT standards and specifications and shall include, but are not limited to, silt fence, erosion mat, riprap, and seeding.

Silt fence should be installed at the southern end of the property along the active mining areas to prevent sediment from entering the tributary to the Little Amnicon.
River. If the runoff is channelized by mechanical or natural processes, a small depression (pond) area should be located at the southeast corner to remove sediment from storm water runoff. The entrance and exit of the pond should have riprap inhibit erosion.

2.07 Interim Reclamation

Active mining has started in the southeast corner of the property and will proceed to the west. Depending on need and market for materials, an estimated 1-3 acres will be mined each year. The surrounding rock walls of the pit and limited access locations to the pit floor make significant interim reclamation operations unlikely. The pit floor will be used for mining traffic, crushing, and stockpiling operations throughout the active mining life of the pit. If un-used portions of the mining site are present that will not be disturbed by machinery, these areas should be stabilized and vegetated as feasible.

2.08 Cost

The following cost estimate has been provided for implementing and completing the reclamation of the estimated final mining area of 11.1 acres.

<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Prep. Prior to Grading</td>
<td>Small Dozer for 4 hrs</td>
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</tr>
<tr>
<td>Rock Stabilization</td>
<td>Excavator for 3 hrs</td>
<td>$450.00</td>
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<tr>
<td>Topsoil Spread, Finish Grading,</td>
<td>Small Dozer for 24 hrs</td>
<td>$2,880.00</td>
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<tr>
<td>Compacting</td>
<td>Backhoe for 24 hrs</td>
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<tr>
<td>Seed</td>
<td>193.36 lbs @ $12.86/lb</td>
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<tr>
<td>Tree Seedlings</td>
<td>4440 Seedlings @ $1.00/ea</td>
<td>$4,440.00</td>
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<tr>
<td>Fertilizer</td>
<td>3330 lbs @ $0.30/lb</td>
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</tr>
<tr>
<td>Lime</td>
<td>22.2 tons @ $16/ton</td>
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<tr>
<td>Mulch</td>
<td>666 bales @ $3.25/bale</td>
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<tr>
<td>Cost to Spread Seed, Plant Trees,</td>
<td>22 hrs @ $50/hr</td>
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<td>Lime, Mulch by Landscaper (Inc.</td>
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<td>Watering)</td>
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<tr>
<td>Site Maint. Until Approval</td>
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<td>Bond Amount</td>
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** Bond Amount Per Acre of Active Mining Area, Not Reclaimed = $1,712.22 **

3.0 CRITERIA FOR SUCCESSFUL REMEDIATION

Reclamation will be complete when the following have been met:

1. Seeded areas support 70% vegetative cover with sufficient native species coverage, and 60% of planted tree seedlings survive 3 growing seasons.
2. Erosion control measures are no longer necessary and are removed.
3. Un-natural erosion is not present on the site.
4. The slopes meet the requirements of the plan.
5. All criteria listed in the reclamation plan have been met. Seeded areas support vegetative cover.

On-site inspection will verify that the conditions and requirements of the reclamation plan have been met, The County Zoning Department will have final authority to determine if the reclamation has been successful.

4.0 CERTIFICATION OF THE RECLAMATION PLAN

I hereby certify, as duly authorized representative or agent that Alliance Steel Construction will comply with the provisions of this reclamation plan, the applicable County non-metallic mining reclamation ordinance, as well as the statewide non-metallic mining reclamation standards established in ss.NR135.05 through NR135.15 Wisconsin Administrative Code. And that best management practices are installed and maintained.

_________________________  ______________________
Signature of Applicant or Duly Authorized Agent  Date Signed

5.0 FINANCIAL ASSURANCE

A bond has been provided to Douglas County, by Alliance Steel Construction, for the amount detailed in Section 2.08 "Costs", as guarantee against the cost of reclamation should the pit be abandoned and the County have to perform the reclamation.
6.0 PLAN SUBMISSION

I/we, as landowner(s) or lessee(s) of the property described herein, do hereby certify that I/we have reviewed the reclamation plan submitted by Alliance Steel Construction, concur with it's provisions, and agree to permit its implementation.

Signature of Landowner or Lessee  

Date Signed

Signature of Landowner or Lessee  

Date Signed

Signature of Landowner or Lessee  

Date Signed

Signature of Landowner or Lessee  

Date Signed
Figure 4

Bedrock Type

Source: All data extracted from the Wisconsin Department of Natural Resources' GIS data library
Original source scale values

The project was funded by Douglas County, Wisconsin Department of Natural Resources, and the Wisconsin Coastal Management Program.
Figure 15
Depth to Groundwater

Depth to Water Table

0 - 20 Feet
20 - 50 Feet
> 50 Feet

Source: All data extracted from the Wisconsin Department of Natural Resources' GIS data library.
Original source scale varies.

This project was funded by Douglas County, Wisconsin Department of Natural Resources, and the Wisconsin Coastal Management Program.
ICECOR
IC ENVIRONMENTAL CORPORATION

Non-Metallic Mining
Reclamation Plan

Proposed Site, Old Lyman Lake Road
Town of Oakland, Wisconsin

ICECOR PROJECT #102004007

Original Plan Date: April 24th, 2004
Revision Date: June 23rd, 2020

CIVIL ENGINEERING
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### FIGURES

- **Figure 1**  Site Location Map
- **Figure 2**  Site Map
- **Figure 3**  Post Mining Map
- **Figure 4**  Bedrock Type Map
- **Figure 15**  Depth to Groundwater map

Aerial Photograph of Site
1.0 SITE INFORMATION

The following is information regarding the proposed non-metallic mining operation, Tax Parcel No.'s #OA-022-00553-00 and #OA-022-00554-00.

1.01 General Location/Property Boundaries

The operation is being proposed in two parcels located at on the Old Lyman Lake Road in the Town of Oakland, Wisconsin. The parcels (#OA0220055300 and #OA0220055400) are located in the NW 1/4 of the NE 1/4, and the NE 1/4 of the NE 1/4, in Section 17, Range 13W, Township 47N in Douglas County, Wisconsin. The property is owned by Mr. Fred and Mrs. Nancy Paine, and the mining pit will be operated by their company D&N General Construction. Figure 1 presents the general location of the site. The property is approximately 80 acres (two parcels) in size and the proposed facility (approx. 14.7 acres) is presented on Figure 2. The only manmade features currently present at the site are old trails and an grass road accessing the parcels from the Old Lyman Lake Road.

1.02 Description of Operations

The operation will remove sand, gravel, and rock to approximately 15 feet BGS. The facility will be seasonal (non-winter months) and be operated Monday - Friday from 8am to 5pm. A small Storage Building will be erected at the facility, which will be removed when operations at the facility cease. Excavators and loaders will mine and stockpile the materials, which will be hauled out as needed by the facility owner. A screening plant (not use wash water) may be used to sort different size materials into separate stockpiles. The proposed initial size of the mining operation is approximately 800' x 800', which may change depending on the types of materials encountered.

1.03 Geological Composition

The unconsolidated materials atop bedrock are approximately 15-25+ feet in thickness and consist of glacial till [sands, silts, and clay soils] (Pleistocene Geology of the Superior Region, 1985). Test pits have been constructed throughout the proposed mining area which confirm the presence and thickness of these materials.

The bedrock beneath the unconsolidated materials is a Middle Proterozoic volcanic rock (Pleistocene Geology of the Superior Region, 1985). At the site, the volcanic rock appears to be a fine grained gabbro. Rock is present below the surface in much of the area, and the unconsolidated materials appear to be 15-25 feet or more thick in many areas.
1.04 Distribution, Thickness, and Type of Topsoil

Where the unconsolidated materials have been enriched by organic matter at the surface, approximately 5-7 inches of topsoil has developed. The topsoil is a sandy silty loam that is hydric in wetlands northwest, west and south of the proposed mining area.

1.05 Approximate Elevation of Groundwater

As per the enclosed Figure 15 from the Northwest Regional Planning Commission, the approximate depth to groundwater in the vicinity of the operation is greater than 50 feet below the ground surface (BGS).

1.06 Location of Surface Water

As per the enclosed Figure 1, a tributary to the Little Amnicon River is located approximately 1800 feet south of the southern property boundary which discharges into the Little Amnicon River downslope of the site. The Little Amnicon River discharges to the Amnicon River east of the site, which eventually discharges to Lake Superior 14 miles northeast of the site. The enclosed aerial photograph depicts a purple shaded polygon along the northeastern corner of the western parcel and south of the eastern parcel, which indicates the presence of mapped wetlands.

1.07 Existing Topography and Drainage Patterns

The site is located along a ridge feature trending southwest-northeast which is a drainage divide (Figures 1 and 2). The major drainage directions from the proposed active mining area is to the north, south, and west. Runoff migrated downslope as sheet flow until discharge enters wetlands northwest, west, and south of the site. The wetlands eventually discharge to a small tributary that flows to the east and discharges to the Little Amnicon River. Slopes on the ridge are steeper to the east and shallower to the west within the proposed mining area. Topography flattens out west and south of the site into wetland areas.

1.08 Location of Man Made Features

Manmade features are depicted on Figures 1 and 2, and on the enclosed aerial photograph with super-imposed property boundaries. The feature present at the proposed mining site is the trails and grass access road into the site off the Old Lyman Lake Road. Farm buildings are visible on the aerial photograph north of the subject site.
1.09 Previously Mined Areas

Mining has not been performed previously at the subject site, and the only manmade existing manmade feature is the trails and access road into the site. Figure 1 presents the locations of active mining operations on Nelson/E. Mable Road east-northeast of the site. Reuben Johnson and Alliance Construction operate non-metallic mining operations at these locations.

1.10 Biological Information

The proposed mining area is forested and the vegetation is composed of trees, shrubs, and herbs. Trees present include maples, quaking aspen, birches, and conifers. Shrubs include beaked hazel brush and tag alder. Herbs are mostly grasses and ferns present in the forest under story. The area along the ridge and side slopes is mostly large tree wooded forests, grading downwards to grassy and shrub area with more conifers at the base of the slopes. The bases of the slopes eventually turn into wetland areas near the property boundaries to the west and south.

The area is inhabited by animal species including whitetail deer, rabbit, fox, and grouse.

1.11 Post-Mining Land Use

Post mining land use will be Forestry (F-1), which is consistent with the current land use in this zoning district. The property will be held privately and not used as a recreation area open to the public.

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The following reclamation measures are proposed to reclaim and stabilize the mined areas of the property when active operations are discontinued. The measures will occur within six (6) months of the area’s depletion. Planning will be performed so seeding operations will occur within the accepted growing season as specified in the re-vegetation plan. If conditions other than those anticipated or addressed in this document occur in the intervening years, an amended reclamation plan will be prepared and submitted for approval as necessary to address and incorporate the changes.

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Earthwork and grading operations will conform to the proposed final contours on Figure 3. Adjustments in the final contours will be made as necessary depending on the final extents of mining operations. Areas outside the disturbance limit of the pit will remain in their original vegetative condition.
2.011 Rock Walls

Because the property will be privately held at the completion of mining activities, any sheer rock walls will be left standing. Loose rock material will be removed, leaving competent walls that are not expected to collapse. Since a potential risk to safety exists, warning signs will be posted along the top of the rock walls. Grading of unconsolidated materials will be performed to direct drainage away from the lip of the rock walls. Loose rock (riprap) will be placed at the foot of the rock walls to reduce erosion from any runoff cascading over the top of the walls.

2.012 Final Slope Angles

All vegetated slopes shall be graded to provide a maximum 3:1 side slope. Side slopes shall be terraced to provide flat areas that will blend into existing topography, which will help minimize erosion by slowing the velocity of runoff.

2.013 High Wall Reduction

In areas where high walls of unconsolidated materials are present, all loose material shall be removed. Where a potential risk to safety exists, warning signs will be posted. If practicable, high walls of unconsolidated materials should be benched at 3 foot vertical to 3 foot horizontal intervals to minimize safety and erosion hazards. If high walls are composed of a stable rock and not unconsolidated materials, follow Section 2.011. In addition, fencing will be installed to restrict access to potentially unsafe areas.

2.02 Topsoil

As the existing pit area is expanded, topsoil will be removed and stockpiled away from mining operations. Stumps, roots, large rocks, and other non-earth materials will be removed/screened from the soil prior to stockpiling. Once the soil is stockpiled, silt fence will be placed around the base of the pile and then the stockpile will be seeded using the mixture for temporary seeding. A traffic access opening in the silt fence is allowed as long as it is located on ground at a higher elevation than the stockpile area, and runoff from the silt fenced area will not exit this opening and allow sediment to escape with runoff.

Once the reclamation process begins, the topsoil will be placed evenly over the entire pit area and then seeded as described in the permanent seeding recommendations. The topsoil will be spread thick enough to support vegetative growth, and additional topsoil will be imported if necessary to accomplish this goal.
2.03 Topography

The final topography will be determined upon completion of the non-metallic mining operations. The final contours will reflect the maximum 3:1 slope requirements, and should reflect the general intent of the proposed final contours on Figure 3. It is anticipated that unconsolidated vegetated slopes will surround most of the pit area as indicated on Figure 3. Soils should be sloped at the 3:1 ratio, creating a flat area within the proposed pit area that slopes gently to the northwest and southwest corners of the proposed pit area. Runoff migrate to these low areas as sheet flow and ponding of water in these areas is expected. It is expected that the ponded corners of the pit area will develop into wetland areas. If runoff is channelized by manmade or natural processes, the runoff will be directed to the ponded corners to remove sediment from storm water runoff. Any channelized entrances to the ponded areas should have riprap to inhibit erosion.

2.04 Structures

The existing road into the site will remain after reclamation, for access purposes. Roadways into the pit bottom will be sloped (maximum of 3:1) and vegetated. The on-site storage building will be removed at the end of active mining operations.

2.05 Re-Vegetation Plan

Upon completion of construction, all disturbed areas within the site boundaries will be seeded and mulched within 24 hours. If construction is completed after September 15th, a temporary seeding of winter wheat or rye (or a dormant seeding) shall be made following seeding rates and recommendations listed in following sections. All required tests and materials such as seed, lime, fertilizer, and mulch shall be obtained and present on-site prior to the completion of construction.

1. In lieu of a soil test, fertilizer shall be applied at a rate of 300 lbs of 20-20-20 and 2 tons of 80-85 lime or equivalent per acre.
2. Seed mixtures will be applied at pure live seed rates.
3. Mulch materials shall be applied and secured within 48 hours of the completion of construction. Mulch materials shall be spread at the recommended rate so as not to hamper the establishment of the planned vegetation.

All topsoil and seed bed preparation shall be completed prior to the start of the seeding operation. All components involved with the establishment of vegetation and stabilization of the project shall be performed in accordance with specified sections of the reclamation plan.
2.051 Dormant Seeding Recommendations

Dormant seeding is seeding performed after November 1st, and is not recommended as part of this plan.

2.052 Temporary Seeding Recommendations

Temporary seeding is performed from September 16th to October 1st, and shall consist of winter wheat or rye applied at a rate of 2 bushels/acre. It is anticipated that approximately 14.7 acres of disturbed/graded area could need to be seeded.

Winter Wheat or Rye 2.0 bushels/acre 29.4 bushels needed

2.053 Permanent Seeding Recommendations

Optimum permanent seeding dates are:
- May 1st to June 15th for spring seeding
- July 15th to August 15th for fall seeding

It is anticipated that approximately 14.7 acres of disturbed/graded area could need to be seeded. Seeding recommendations are as follows:

- WisDOT Mix 70 Rate: 17.42 lbs/acre Seed Needed: 256.08 lbs
- Fertilizer Rate: 300 lb/acre Need: 4410 lbs
- Lime Rate: 2 ton/acre Need: 29.4 tons
- Mulch or Rate: 60 bales/acre Need: 882 bales

2.054 Re-forestation Recommendations

Upon completion of mining and permanent seeding tasks, the disturbed areas of the site will be planted with tree seedlings at a rate of 400 seedlings per acre. The seedlings will consist of equal numbers of Red Pine, White Spruce, and Sugar Maple species.

Tree Seedlings Rate: 400 trees/acre Need: 5880 seedlings

2.055 Re-vegetation Standards

The standards for the re-vegetation of the pit area are as follows:

1. Seeding, fertilizing, and mulching shall be performed as per the re-vegetation plan.
2. Vegetation shall be considered complete seeded areas support 70% vegetative cover with sufficient native species coverage, and
60% of planted tree seedlings survive 3 growing seasons.

3. All erosion control measures shall be maintained until vegetation is fully established.

4. If it is determined that the seeding has failed, the area shall be re-seeded as soon as feasible.

2.06 Erosion Control

Erosion control measures during reclamation are recommended to follow NRCS or DOT standards and specifications and shall include, but are not limited to, silt fence, erosion mat, riprap, and seeding.

Silt fence should be installed at the north, west, and south sides of the property along the active mining areas to prevent sediment from entering the wetlands and tributary to the Little Amnicon River. If the runoff is channelized by mechanical or natural processes, a small depression (pond) area should be located immediately downgradient to remove sediment from storm water runoff. The entrance and exit of the pond should have riprap inhibit erosion.

2.07 Interim Reclamation

Active mining has not been started at the subject property. Depending on need and market for materials, an estimated 1-3 acres will be mined each year. The surrounding highwalls surrounding the pit at the final mining extents will need to be sloped at a 3:1 ratio and vegetated as an interim measure when mining is completed in those areas. Limited access locations to the pit floor make significant interim reclamation operations in this area unlikely. The pit floor will be used for mining traffic, sorting, and stockpiling operations throughout the active mining life of the pit. If un-used portions of the mining site are present that will not be disturbed by machinery, these areas should be stabilized and vegetated as feasible.

2.08 Cost

The following cost estimate has been provided for implementing and completing the reclamation of the estimated final mining area of 14.7 acres.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Prep. Prior to Grading</td>
<td>Small Dozer for 5 hrs</td>
<td>$600.00</td>
</tr>
<tr>
<td>Rock Stabilization</td>
<td>Excavator for 4 hrs</td>
<td>$600.00</td>
</tr>
<tr>
<td>Topsoil Spread, Finish Grading,</td>
<td>Small Dozer for 30 hrs</td>
<td>$3,600.00</td>
</tr>
<tr>
<td>Compacting</td>
<td>Backhoe for 30 hrs</td>
<td>$4,500.00</td>
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<tr>
<td>Seed</td>
<td>256.08 lbs @ $12.86/lb</td>
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<tr>
<td>Tree Seedlings</td>
<td>5880 Seedlings @ $1.00/ea</td>
<td>$5,580.00</td>
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<tr>
<td>Fertilizer</td>
<td>4410 lbs @ $0.30/lb</td>
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<tr>
<td>Lime</td>
<td>29.4 tons @ $16/ton</td>
<td>$470.40</td>
</tr>
</tbody>
</table>
3.0 CRITERIA FOR SUCCESSFUL REMEDIATION

Reclamation will be complete when the following have been met:
1. Seeded areas support 70% vegetative cover with sufficient native species coverage, and 60% of planted tree seedlings survive 3 growing seasons.
2. Erosion control measures are no longer necessary and are removed.
3. Un-natural erosion is not present on the site.
4. The slopes meet the requirements of the plan.
5. All criteria listed in the reclamation plan have been met.

On-site inspection will verify that the conditions and requirements of the reclamation plan have been met, The County Zoning Department will have final authority to determine if the reclamation has been successful.

4.0 CERTIFICATION OF THE RECLAMATION PLAN

I hereby certify, as duly authorized representative or agent that D&N General Construction (Fred and Nancy Paine) will comply with the provisions of this reclamation plan, the applicable County non-metallic mining reclamation ordinance, as well as the statewide non-metallic mining reclamation standards established in ss.NR135.05 through NR135.15 Wisconsin Administrative Code. And that best management practices are installed and maintained.

Signature of Applicant or Duly Authorized Agent

Date Signed
5.0 FINANCIAL ASSURANCE

A bond has been provided to Douglas County, by D&N General Construction (Fred and Nancy Paine), for the amount detailed in Section 2.08 “Costs”, as guarantee against the cost of reclamation should the pit be abandoned and the County have to perform the reclamation.
6.0 PLAN SUBMISSION

I/we, as landowner(s) or lessee(s) of the property described herein, do hereby certify that I/we have reviewed the reclamation plan submitted by D&N General Construction (Fred and Nancy Paine), concur with its provisions, and agree to permit its implementation.

____________________________________          ______________
Signature of Landowner or Lessee                 Date Signed

____________________________________          ______________
Signature of Landowner or Lessee                 Date Signed

____________________________________          ______________
Signature of Landowner or Lessee                 Date Signed

____________________________________          ______________
Signature of Landowner or Lessee                 Date Signed