



GOODHUE COUNTY MINNESOTA

TO EFFECTIVELY PROMOTE THE SAFETY, HEALTH, AND WELL-BEING OF OUR RESIDENTS

Goodhue County Planning Commission
Government Center - Board Room
509 West 5th St, Red Wing MN 55066

6:00 PM Call Meeting To Order

Approval Of Current Agenda

Approval Of Previous Month's Meeting Minutes

1. June 21, 2021 PAC Meeting Minutes

Documents:

[MINUTES_JUNE2021_PAC_DRAFT.PDF](#)

Conflict/Disclosure Of Interests

Public Hearings:

1. PUBLIC HEARING: Request For CUP For Non-Metallic Mineral Extraction Facility (Herrick Properties LLP)
Request for CUP, submitted by Herrick Properties, LLP (Doug Herrick, Applicant/Owner) for a Non-Metallic Mineral Extraction Facility. Proposed activities include a limestone quarry and associated processing/transport equipment and facilities. Parcels 30.034.0400 and 30.027.0800. TBD 94th AVE West Concord, MN 55985. The N ½ of the NW ¼ of Section 34 and the S ½ of the SW ¼ of Section 27 TWP 109 Range 17 in Cherry Grove Township. A1 Zoned District.

Documents:

[PACPACKET_HERRICK_REDACTED.PDF](#)

Other-Discussion

Adjourn

Anyone interested is invited to attend. Agenda items may be subject to change.

Goodhue County Land Use Management

**PLANNING COMMISSION
GOODHUE COUNTY, MN
June 21, 2021 MEETING MINUTES
DRAFT**

The meeting of the Goodhue County Planning Advisory Commission was called to order at 6:00 PM by Chair Huneke in the Basement IT Conference Room at the Government Center in Red Wing.

Roll Call

Commissioners Present Virtually via GoToMeeting: Mark Huneke, Tom Gale, Richard Miller, Darwin Fox, Chris Buck, Howard Stenerson, Todd Greseth, Carli Stark and Richard Nystuen

Staff Present: Land Use Director Lisa Hanni (Virtual), Zoning Administrator Samantha Pierret, Zoning Assistant Alexandra Koberoski, and Zoning Administrative Assistant Kathy Bauer

1. Approval of Agenda

¹Motion by Commissioner Miller; seconded by Commissioner Fox to approve the meeting agenda.

Motion carried 9:0

2. Approval of Minutes

²Motion by Commissioner Fox; seconded by Commissioner Miller to approve the previous month's meeting minutes.

Motion carried 9:0

3. Conflict/Disclosure of Interest

There were no reported conflicts/disclosures of interest.

4. PUBLIC HEARING: CUP Request for a Utility-Scale Solar Energy System (SES)

Request submitted by ReneSola Power (MN Zumbrota 6-2 LLC, Applicant) and Swenson Family (Owner) for a Utility-Scale Photovoltaic Ground 1-Megawatt Solar Energy System (SES) occupying approximately 8.0 acres. Parcel 47.019.1000. 43701 County 6 BLVD Zumbrota, MN 55992. Part of the W 1/2 of the SW 1/4 Section 19 TWP 110 Range 15 in Zumbrota Township. A-3 Zoned District.

Pierret presented the staff report and attachments.

Cindy Larson O'Neil (Rensola Power representative) stated the "new driveway" as noted, would be built on an existing farm driveway that comes off of County 6 and the landowner is currently using it. Also noted the owner has completed a Level II Wetland delineation and that has been approved. The access road was realigned to minimize wetland impact. Lastly, the environmental partner suggested doing a wildlife fence instead of a chain link fence in the area, stating it would be better for the wildlife; further investigation will be conducted.

Commissioner Nystuen questioned if the approval of the wildlife fencing would need to happen at this meeting or if proper research could be conducted and revisited.

Chair Huneke stated there would need to be some investigating and research of the wildlife fencing proposal.

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Hanni said she looked up what a wildlife fence is, the USDA has drawings on it and noted the fences are shorter to allow the wildlife to get through easier. The PAC can approve what we currently have and the County Board may make the final decision on the fencing.

Commissioner Nystuen questioned if the fencing would keep people out.

Hanni added the different options with wildlife fencing. Also stated Staff would look into this further.

Larson O'Neil commented in the past they typically do chain link fencing, but would like to look into wildlife fencing for this project. Noted security for nearby residents and the facility itself is most important.

Commissioner Miller questioned why we would want wildlife living within a solar garden, stating more chance for damage to the system.

Hanni stated it would be more of a wildlife pass through.

Chair Huneke Opened the Public Hearing

Pierret presented a public comment that was received via email on Monday, June 21st from Tami Erdmann, 238 Highlands Avenue, Zumbrota, MN 55992. Erdman stated concern the solar garden will be in line of site of existing and new homes, and potential issues for future resale of properties nearby in the Highlands Subdivision. Further stated with approval of this solar garden there would be 3 total solar gardens along County Road 6 Blvd.

Anne Dilley, 43701 County 6 Blvd, requested verification on the map where the solar panels would be installed.

Pierret verified the locations on the map sent with the public hearing notice. Also confirmed the location of the panels from the Dilley Property is 774 ft.

3After Chair Huneke called three times for comments it was moved by Commissioner Fox and seconded by Commissioner Miller to close the Public Hearing.

Motion carried 9.0

Larson O'Neil added in response to the Tami Erdmann email, the system location was redesigned upon request of the Township, making it now more buffered from the road and neighboring dwellings.

Commissioner Nystuen questioned if there was a further plan of vegetative buffer, shrubbery, trees, etc.

Larson O'Neil answered there was no current plan of additional buffer, but if requested, then would do so.

Commissioner Nystuen questioned if there was public comment or requests for this.

Pierret stated the staff viewed as much of the site as they could with the current road construction along County Road 6, noted this parcel had more of a buffer than the two existing solar gardens in the area.

4It was moved by Commissioner Nystuen and seconded by Commissioner Stark to:

LUM Staff recommends the Planning Advisory Commission

- adopt the staff report into the record;
- adopt the findings of fact;
- accept the application, testimony, exhibits, and other evidence presented into the record; and

**PLANNING COMMISSION
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Recommend that the County Board of Commissioners **APPROVE** the request for a CUP, submitted by ReneSola Power (MN Zumbrota 6-2 LLC, Applicant) and Julie Swenson ET AL (Owner) for a Utility-Scale Photovoltaic Ground 1-Megawatt Solar Energy System (SES) occupying approximately 8.0 acres.

Subject to the following conditions:

1. Activities shall be conducted according to submitted plans, specifications, and narrative unless modified by a condition of this CUP;
2. The project shall be decommissioned according to Article 19 Section 6 of the Goodhue County Zoning Ordinance and submitted plans;
3. A decommissioning agreement between the landowner and MN Zumbrota 6-2 LLC shall be maintained to ensure reclamation of the area;
4. LUM staff shall be notified by the landowner or solar company 30 days prior to ownership transfer or operator changes;
5. A stormwater management and erosion control plan shall be submitted for administrative review as part of the Building Permit Application for the project;
6. Applicant shall work with the Goodhue County Soil and Water Conservation District to determine an appropriate seed mix for disturbed areas of the site and should submit "seed tags" to the Land Use Management Department prior to final inspection;
7. Applicant shall obtain Building Permit approvals from the Goodhue County Land Use Management Department prior to establishing the use;
8. Applicant shall obtain a driveway access permit from Goodhue County Public Works prior to approval of a Goodhue County Building Permit;
9. Compliance with Goodhue County Zoning Ordinance including, but not limited to, Article 19 Solar Energy Systems (SES) and Article 23 (Urban Fringe District). The Applicant shall request a final inspection of the project for compliance with applicable zoning requirements upon completion of the project;
10. Compliance with all necessary State and Federal registrations, permits, licensing, and regulations;
11. This CUP shall expire 30 years from the date of approval unless terminated prior to that date.

Hanni questioned if Commissioner Nystuen would like to add the wildlife fencing issue to the recommendation for the County Board to make final decision.

Pierret questioned if Larson O'Neil could have a wildlife fencing proposal ready to present to County Board by July 1st.

Larson O'Neil stated they could have an answer on the fencing for staff by that date.

Pierret suggested Commissioner Nystuen amend the motion that Rensola Power provide clarification on the fencing prior to the July 1st County Board meeting, and questioned whether Commissioner Stark would be open to that amendment as well.

Commissioner Nystuen agreed to the suggested amendment, Commissioner Stark seconded it.

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Motion Carried 9:0

Other Discussion

Hanni added if there was a July PAC Meeting, that it would be in person. County Offices will be officially open to the public on Monday, June 28, 2021. It was confirmed that the meeting time will remain at 6:00 p.m.

Commissioner Buck invited Commissioners and staff on behalf of the Goodhue County American Dairy Association, to the Breakfast on the Farm Event on Friday, June 25, 2021 in Goodhue.

⁵ADJOURN: Motion by Commissioner Buck and seconded by Commissioner Greseth to adjourn the Planning Commission Meeting at 6:43 p.m.

Motion carried 9:0

Respectfully Submitted,

Kathy Bauer, Zoning Administrative Assistant

¹APPROVE the PAC meeting agenda.

Motion carried 9:0

²APPROVE the previous month's meeting minutes.

Motion carried 9:0

³Motion to close the Public Hearing

Motion carried 9:0

⁴APPROVE the CUP request for Utility-Scale Solar Energy System

Motion carried 9:0

⁵ADJOURN. Motion to adjourn the meeting.

Motion carried 9:0

UNOFFICIAL UNTIL APPROVED BY THE PAC

Goodhue County Land Use Management

Goodhue County Government Center | 509 West Fifth Street | Red Wing, Minnesota 55066

Lisa M. Hanni, L.S. Director

Building | Planning | Zoning
Telephone: 651.385.3104
Fax: 651.385.3106



County Surveyor / Recorder

Environmental Health | Land Surveying | GIS
Telephone: 651.385.3223
Fax: 651.385.3098

To: Planning Commission
From: Land Use Management
Meeting Date: July 19, 2021
Report date: July 13, 2021

PUBLIC HEARING: Request for CUP for Non-Metallic Mineral Extraction Facility (Herrick Properties, LLP)

Request for CUP, submitted by Herrick Properties, LLP (Doug Herrick, Applicant/Owner) for a Non-Metallic Mineral Extraction Facility. Proposed activities include a limestone quarry and associated processing/transport equipment and facilities.

Application Information:

Applicant(s): Herrick Properties, LLP (Doug Herrick, Applicant/Owner)
Address of zoning request: TBD 94th AVE West Concord, MN 55985
PID(s): 30.034.0400 and 30.027.0800
Abbreviated Legal: The N ½ of the NW ¼ of Section 34 and the S ½ of the SW ¼ of Section 27 TWP 109 Range 17 in Cherry Grove Township.
Zoning District: A-1 (Agriculture Protection District)

Attachments and Links:

Applications and submitted project summary/maps
Site Map(s)
Goodhue County Zoning Ordinance:
<http://www.co.goodhue.mn.us/DocumentCenter/View/2428>

Background:

Herrick Properties, LLP (Doug Herrick, Representative), owner of the subject property has submitted a Conditional Use Permit (CUP) Application proposing to establish a mining site to extract non-metallic mineral aggregates. The site is proposed to include 37.69 acres of mining located on two commonly-owned 80-acre parcels. The proposed mining operation is a limestone rock quarry. Mining that includes extraction of more than 400 cubic yards per year in the A-1 District is subject to the approval of a Conditional Use Permit by the County Board.

A limestone quarry operated on the southern parcel (30.034.0400), on the east side of what is now 94th AVE through the 1950s and 1960s. Because the mining operation ceased prior to current mining registration standards, a conditional use permit must be approved for the project.

Project Summary:

Staff has met several times with Bruening Rock Products and engineers from WSB during the past year to guide the Applicants' preparation of a proposal to conform to County application submittal requirements and pertinent performance standards to operate a Non-Metallic Mineral Extraction Facility in Cherry Grove Township.

Land Use Management Department Staff have conducted a thorough review of the CUP Application submittals. Three maps required in Article 14 of the County Zoning Ordinance depicting existing site conditions, proposed operations, and reclamation plans were submitted for review along with a narrative describing additional details.

Existing Conditions:

The Applicants prepared required Figure A depicting existing site conditions. Two 80-acre parcels, both owned by the Applicant, will be affected by the proposed mining operation. The parcels are in two sections of Cherry Grove Township (Section 27 and Section 34) both zoned A-1, Agriculture Preservation District. The southern parcel (30.034.0400) consists mostly of woodlands and grasslands surrounding an existing creek classified as Shoreland. The northern parcel (30.027.0800) consists of land used for row crop agriculture and areas of accumulated flow running north and south.

The nearest residence (owned by David Nelson) is approximately 650-feet from the nearest area to be mined on parcel 30.034.0400. Article 14 specifies that mining operations should be at least 1000-feet from existing dwellings. Setbacks may be reduced to 300-feet if written consent is obtained from the affected property owner. The Applicant has obtained written consent from Mr. Nelson to operate the quarry 650-feet from the Nelson residence.

Three soil boring logs were provided with the application. The boring locations are shown in Figure A. Existing soil conditions were not provided in the application. The parcels are surrounded by A-1 zoned properties on all sides, used mainly for row crop agriculture. Both sections the mining operation would be located in are considered “full” for dwelling development.

Proposed Operations:

The Applicants prepared required Figure B depicting proposed quarry operations. Approximately 37.69 acres of the existing 160 total acres will be impacted by the mining operation. A stabilized slope is proposed to be established around the perimeter of the area to be mined serving as a screening, noise, and dust barrier. The berm is sited to comply with Shoreland requirements. A cross-section is depicted in Figure B Quarry Proposed Operations.

The proposed area to be mined complies with all required setbacks in the Zoning Ordinance. A scale and scale house are the only structures proposed to be constructed on-site on the east side of the project area along 94th AVE. Employee vehicle parking and fuel storage will be in this area. The operation will require a maximum of 12 employees on an intermittent basis. Proposed months of operation are April to November from 7:00 a.m. to 7:00 p.m. Monday through Friday and 7:00 a.m. to 12:00 p.m. Saturday which is within the hours of operation limitations found in the Zoning Ordinance.

- Noise, Dust, Vibration, and Air Quality:

Impacts from the proposed non-metallic mineral extraction facility may include noise, vibration, and dust. Noise may be expected by periodic blasting and the use of heavy equipment from mining, loading, and transport. Noise limitations and mitigation is regulated by the Mine Safety and Health Administration (MSHA).

The Applicants have indicated that blasting will be conducted by a licensed blasting contractor in compliance with federal and state laws and best practices. No explosives will be stored on-site and Article 14 requires seismic blasting records to be submitted to the Zoning Administrator within 10 days of receiving the blast analysis.

The mining operation would be subject to complying with applicable MPCA Noise Standards. Features included in the Proposed Operations Plan such as creating an earthen berm around the perimeter of the mining area that would be seeded to establish vegetative cover would help mitigate dust and noise impacts to neighboring properties.

- Water Resources:

The Applicant noted on the Proposed Operations Map that all site runoff shall remain within the quarry boundary. They also stated that all water retention ponds will be placed within the quarry boundary and the existing drainage pattern will be followed by establishing grading to direct stormwater flow around the quarry.

The Applicants have stated that no monitoring wells will be required as no washing is proposed on-site. Parcel 30.034.0400 is within the shoreland of an unnamed creek. No mining activities are proposed within the shore impact zone (50 feet from the Ordinary High Water Mark) as a 300-foot buffer from the existing stream is proposed. The proposed Stabilized Slope is proposed to be located within the Shoreland area. The Applicants have proposed to stabilize the slope according to Shoreland Ordinance standards.

- Aesthetics:

Aggregate mining is a high-impact land use that results in significant long-term alterations to the landscape in addition to visual impacts for the duration of the mining activity. These may include seeing open pits, major equipment, and gravel hauling trucks.

The quarry as proposed will be visible only from limited vantage points from 94th AVE to the north, generally, it should not be highly visible from nearby dwelling sites as there is tree coverage to the south and southeast. The scale and scale house will be visible from 94th AVE.

Vehicles accessing and leaving the site will utilize 94th AVE (aggregate surface) to access County 11 BLVD to the north (asphalt surface). There are two dwellings located at the intersection of County 11 BLVD and 94th AVE approximately ½ mile north of the proposed mine (Georgia Haugen and Jeff Schultz).

Most of the mining will be occurring below grade and will be partially screened with the stabilized slope as illustrated in Figure B Quarry Proposed Operations.

- Traffic Safety:

The Applicants have indicated that they expect a maximum of 40 truck trips per day during peak production. The number of trips would increase and decrease with demand and time of year. The access road to the quarry site is 94th Avenue, a Cherry Grove Township road. The driveway access from the Herrick property onto 94th Avenue is located approximately ½ mile south of the intersection with County 11 BLVD. Goodhue County Engineer Greg Isakson reviewed the proposal and noted:

As long as the trucks are legally loaded and stopping at the stop sign at CSAH 11 I don't have a concern. The County retains the right to reduce the weight limits on CSAH 11 as needed.

- Site Security:

The Applicant noted that berms to be established above the quarry face will act as site security and entry will be secured by gates off 94th AVE. A sign will be erected on 94th AVE indicating operator information and complaints will be addressed proactively. The Planning Commission

should consider whether fencing should be required in accordance with Article 14 Section 6 Subd. 4(B) *“Fencing, signs, and barriers are required around ponding areas and steep-sloped excavation areas unless, because of their location they are not deemed to create a safety hazard.”*

Reclamation Plan:

The Applicants prepared a Reclamation Plan which states that the quarry floor will be revegetated with a minimum of 4 inches of topsoil. Vegetation must comprise 70% of the quarry floor before reclamation will be considered complete.

A buttress berm constructed of rubble will be installed at the intersection of the quarry floor and wall to prevent access directly under the rock wall. The existing berm will remain vegetated upon closure of the operation.

The Applicant is proposing to use the reclaimed quarry for low-intensity agriculture.

SWCD Comments:

Goodhue Soil and Water Conservation District Director Beau Kennedy and Water Planner Chad Hildebrand reviewed the proposal and had the following comments:

- *More detail is needed regarding how the “Grading will be established and extended throughout the life of the quarry to direct storm water flow around the quarry to continue existing drainage patterns.” How will the grading be completed, is there a structure being installed to handle the contributing watershed coming from the agricultural field to the edge of the quarry? Designs should be provided to demonstrate the proposed grading plans to ensure it can handle the incoming watershed. Plans should show what would happen if the water enters the quarry and how it will be treated.*
- *What is the plan to control the growth of noxious weeds on the quarry site?*
- *Recommend “Water Quality Monitoring” be performed on the quarry project site.*
- *The plan does not show the revision to convert the rehabilitated area to a 3:1 slope as stated in the ordinance. Applicants only stated plans would be revised to a 3:1 slope.*
- *Additional information is needed on the Soil Restoration of the proposed project site. Is the quarry floor being restored within the original undisturbed depth? Are there soil profiles to determine the original undisturbed depths?*
- *What is the contingency plan in case the earth embankment or quarry wall fails or water from the quarry enters the public water?*

Staff discussed these requirements with SWCD staff and determined that the Planning Commission should not recommend approval of the Mineral Extraction Facility permit until all SWCD questions are addressed.

Cherry Grove Township:

Cherry Grove Township considered the mining operation at their November 2020 meeting. The Township considered roadway, noise, and dust impacts of the quarry. The Township approved the permit request with four conditions:

1. A berm will be constructed on the perimeters of the quarry. They will seed it with grass and maintain (mow) along with the planting of bushes and trees. This will reduce the noise and dust from the operation.
2. Bruening Rock Products will maintain 94th Ave. from driveway to the stop sign on hwy. #11. This includes adding rock to the township road.
3. Bruening Rock Products will also apply dust control to said stretch of township road.
4. If the culvert under 94th Ave sustains damage or collapse during operation of the quarry, Bruening Rock Products will replace said culvert.

Security:

Article 14 Section 6 Subd. 1 requires the Applicant to post a letter of credit, bond, or cash escrow for a mineral extraction facility CUP. The security should account for costs of bringing the operation into compliance with the mineral extraction permit requirements including site monitoring and enforcement costs, extraordinary costs of repairing roads due to the special burden resulting from the hauling of materials and traffic associated with the operation, site restoration, and costs the County may incur in enforcing the terms of the Conditional Use Permit including attorney’s fees. The bond shall be for a minimum of one year and shall include a provision for notification to the County at least 30 days prior to cancellation or non-renewal. The Applicant has proposed reclamation costs to be \$103,647.50, staff will calculate the required security prior to County Board consideration.

Proposed Future Findings of Fact:

- The proposed limestone quarry operation does not appear injurious to the use and enjoyment of properties in the immediate vicinity for uses already permitted, nor would it substantially diminish and impair property values within the immediate vicinity. The quarry would be located within a primarily agricultural area in the vicinity of an abandoned mining operation. There is one dwelling within 1,000 feet of the proposed quarry which has submitted written consent for a reduced setback.
- That the establishment of the proposed mining operation is not anticipated to impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area. The use is proposed to meet all standards of the Goodhue County Zoning Ordinance and it does not appear incompatible with adjacent land uses. The quarry would be located in two A-1 Zoned sections of Cherry Grove Township that are considered “full” for dwelling establishment.
- A review of the Applicant’s submitted project summary indicates adequate utilities, access roads, drainage, and other necessary facilities are available or will be provided to accommodate the proposed use.
- The submitted plans identify means to provide sufficient off-street parking and loading space to serve the proposed use and meet the Goodhue County Zoning Ordinance’s parking requirements.
- The submitted plans detail adequate measures will be taken to prevent or control offensive odor, fumes, dust, noise, and vibration so that none of these will constitute a nuisance including berming, seeding, hours of operation, and MPCA Noise Standards.

Staff Recommendation:

LUM Staff recommends the Planning Commission **TABLE** the request from Herrick Properties, LLP (Doug Herrick Applicant/Owner) for a Conditional Use Permit to operate a Non-Metallic Mineral Extraction Facility.

The Planning Commission should consider the following conditions and whether any conditions should be added for final consideration:

1. Activities shall be conducted according to submitted plans, specifications, and narrative unless modified by a condition of this CUP;
2. Hours of Operation shall be limited to 7:00 a.m. to 7:00 p.m., Monday through Friday and 7:00 a.m. to 12:00 p.m. Saturday. Any exceptions must comply with Article 14, Section 6, Subd. 4;
3. Seismic blasting records shall be submitted to the Zoning Administrator within 10 days of receiving the blast analysis;

4. Compliance with all necessary State and Federal registrations, permits, licensing, and regulations. Evidence shall be provided to the County of all required permits prior to the start of Mining Operations;
5. Compliance with Goodhue County Zoning Ordinance including, but not limited to, Article 14 Mineral Extraction and Article 21 Agricultural Protection District;
6. Site Reclamation after completion of mineral extraction shall be performed according to submitted plans, specifications, and narrative in accordance with Article 14 Section 6 Subd. 4S;
7. The operation shall be annually registered with Goodhue County in accordance with Article 14 Section 6 Subd. 2;
8. Security. The applicant/owner (Doug Herrick) of the property on which the mineral extraction is occurring, shall post a letter of credit, bond, or cash escrow to be determined by staff prior to consideration by the County Board. If the required Security is provided in the form of a “Letter of Credit” or a “Performance Bond”, it shall be subject to review and approval by the County Attorney prior to start of Mining Operations. Goodhue County shall be listed as the eligible party to access the Security to reimburse the following costs upon failure of the Applicant/Owner to comply with requirements of this Conditional Use Permit;
9. Mineral Extraction and related activities are limited to the 37.69 acres as legally described on the Certificate of Survey for Herrick CUP Bruening Rock Products, Inc. WSB Project No. 017322.
10. Applicant shall obtain Building Permit approvals from the Goodhue County Land Use Management Department prior to constructing any structures on the property;

GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

Parcel # _____

Permit# _____

PROPERTY OWNER INFORMATION

Last Name: Herrick Properties, LLP

First

Email:

Street Address: 51955 94th Avenue

City: West Concord

State: MN

Zip: 55985

Attach Legal Description as Exhibit "A"

Authorized Agent: Doug Herrick

Phor

Mailing Address of Landowner: 51955 94th Avenue, West Concord, MN 55985

Mailing Address of Agent: same

PROJECT INFORMATION

Site Address (if different than above): address to be assigned

Lot Size: TBD by survey

Structure Dimensions (if applicable): N/A

What is the conditional/interim use permit request for? Mineral Extraction

Written justification for request including discussion of how any potential conflicts with existing nearby land uses will be minimized:
This property has been previously used as a limestone quarry. It is situated in an ideal location to provide crushed limestone for local requirements. It will be operated in conformity with all applicable requirements and best practices.

DISCLAIMER AND PROPERTY OWNER SIGNATURE

I hereby swear and affirm that the information supplied to Goodhue County Land Use Management Department is accurate and true. I acknowledge that this application is rendered invalid and void should the County determine that information supplied by me, the applicant in applying for this variance is inaccurate or untrue. I hereby give authorization for the above mentioned agent to represent me and my property in the above mentioned matter.

Signature of Landowner:

Date

6-23-21

Signature of Agent Authorized by Agent:

TOWNSHIP INFORMATION

Township Zoning Permit Attached?

If no please have township complete below:

By signing this form, the Township acknowledges being made aware of the request stated above. In no way does signing this application indicate the Township's official approval or denial of the request.

Signature

Title

Date

Comments:

COUNTY SECTION

COUNTY FEE \$350

RECEIPT #

DATE PAID

Applicant requests a CUP/IUP pursuant to Article _____ Section _____ Subdivision _____ of the Goodhue County Zoning Ordinance

What is the formal wording of the request?

Shoreland _____ Lake/Stream Name _____ Zoning District _____

Date Received _____ Date of Public Hearing _____ DNR Notice _____ City Notice _____

Action Taken: _____ Approve _____ Deny _____ Conditions:

GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

PROJECT SUMMARY

Please provide answers to the following questions in the spaces below. If additional space is needed, you may provide an attached document.

1. Description of purpose and planned scope of operations (including retail/wholesale activities).

The purpose of the project is to quarry limestone for processing and sale of various rock products to
local public entities and private customers.

2. Planned use of existing buildings and proposed new structures associated with the proposal.

The only structure will be a truck scale and scale house.

3. Proposed number of non-resident employees.

The quarry will require between 0 and 12 employees on an intermittent basis.

4. Proposed hours of operation (time of day, days of the week, time of year) including special events not within the normal operating schedule.

7:00 AM to 7:00 PM Monday through Friday and 7:00 AM to 12:00 Noon on Saturday.

5. Planned maximum capacity/occupancy.

N/A

6. Traffic generation and congestion, loading and unloading areas, and site access.

Access to the site will be by one access point chosen for maximum visibility, and all operations will
be carried out within the bounds of the quarry.

7. Off-street parking provisions (number of spaces, location, and surface materials).

N/A

8. Proposed solid waste disposal provisions.

The quarry will produce minimal waste, which shall be removed from the property for disposal
elsewhere.

9. Proposed sanitary sewage disposal systems, potable water systems, and utility services.

Portable toilets will be utilized, and no water service will be required.



10. Existing and proposed exterior lighting.

None

11. Existing and proposed exterior signage.

A sign will be erected at the end of the driveway.

12. Existing and proposed exterior storage.

None

13. Proposed safety and security measures.

The quarry operation will comply with all applicable safety and security requirements of the Mine Safety and Health Administration of the United States Department of Labor.

14. Adequacy of accessibility for emergency services to the site.

The site will be clearly marked and easily accessible for emergency services.

15. Potential for generation of noise, odor, or dust and proposed mitigation measures.

The quarry will generate noise and dust. MSHA requirements govern the limits and mitigation of

both noise and dust, and mitigation will limit the effect of the operation on areas outside the quarry.

16. Anticipated landscaping, grading, excavation, filling, and vegetation removal activities.

See attachments.

17. Existing and proposed surface-water drainage provisions.

See attachments.

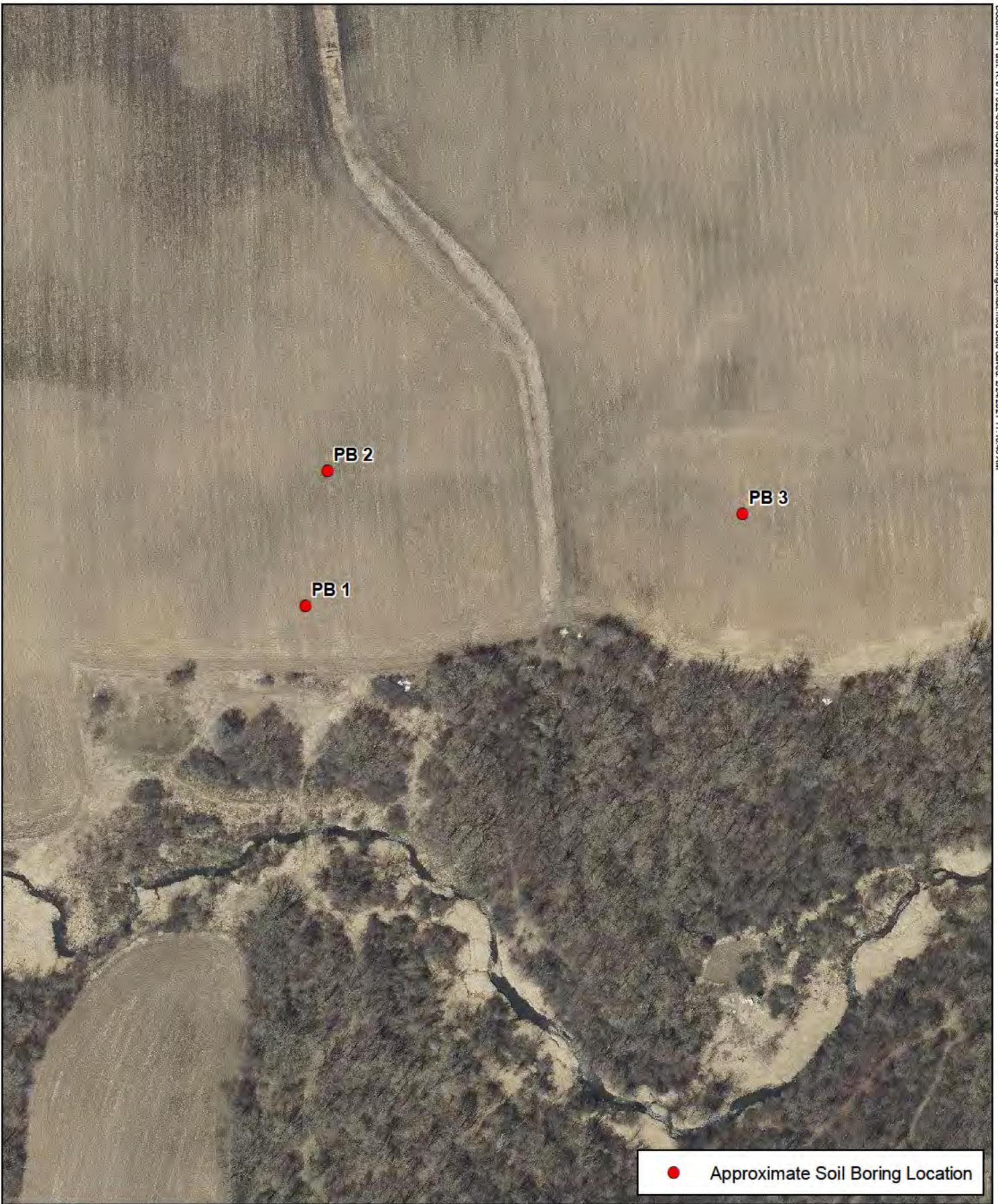
18. Description of food and liquor preparation, serving, and handling provisions.

None.

19. Provide any other such information you feel is essential to the review of your proposal.

This operation will be similar to others in the county, and provide substantial economic benefits to

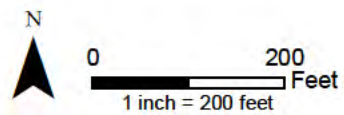
the area it will serve.



● Approximate Soil Boring Location



Soil Boring Exhibit
Bruening Rock Quarry
Cherry Grove Township
Goodhue County
WSB#: 017322-000



LOG OF TEST BORING



PROJECT NAME: Bruening Rock - Cherry Grove
 CLIENT/WSB #: 017322-000

PROJECT LOCATION: Kenyon, MN
 SURFACE ELEVATION: 1168 ft

BORING NUMBER B-1

PAGE 1 OF 1

DEPTH (ft)	ELEV. (ft)	DESCRIPTION OF MATERIAL	USCS	GEOLOGIC ORIGIN	WL	SAMPLE		MC %	%Fines	OTHER TESTS AND NOTES		
						Drilling Operation	TYPE No.					
1	1167	ORGANIC CLAY, black	OL	Topsoil	▽							
2	1166											
3	1165	SILT, brown	ML	Glacial Till								
4	1164											
5	1163											
6	1162	SILTY SAND, brown, pieces of Limestone from 13 - 18 feet	SM									
7	1161											
8	1160											
9	1159								FA	1		
10	1158											
11	1157											
12	1156											
13	1155											
14	1154											
15	1153											
16	1152											
17	1151											
18	1150											
19	1149	LIMESTONE, brownish gray, slightly weathered, hard, thin bedded, highly fractured		Prosser Formation								
20	1148											
21	1147											
22	1146											
23	1145	LIMESTONE, gray and brownish gray, slightly weathered, hard, thin bedded, highly fractured										
24	1144											
25	1143	from 22 to 25 feet, slightly fractured from 25 - 28 feet										
26	1142											
27	1141											
28	1140											
29	1139	LIMESTONE, gray with brown alterations, slightly weathered, thin bedded, highly fractured										
30	1138											
31	1137											
32	1136											
33	1135											
34	1134											
35	1133											
36	1132											
37	1131											
38	1130											
39	1129	LIMESTONE, gray with brown alterations, slightly weathered, medium hard, thin bedded, moderately fractured		Cummingsville Formation								
40	1128											
41	1127											
42	1126	LIMESTONE, slightly interbedded with SHALE, gray, slightly weathered, medium hard, thin bedded, moderately fractured										
43	1125											
44	1124											
45	1123											
46	1122											
47	1121	LIMESTONE, moderately interbedded with SHALE, gray, slightly weathered, medium hard, thin bedded, moderately fractured										
48	1120											
49	1119											
50	1118											
51	1117											
52	1116											
53	1115											
54	1114											
55	1113											
56	1112											
57	1111	LIMESTONE, heavily interbedded with SHALE, gray, slightly weathered, medium hard, thin bedded, moderately fractured										
58	1110											
59	1109											
60	1108											
61	1107	LIMESTONE, heavily interbedded with SHALE, gray to buff, unweathered, moderately hard, thin bedded, moderately fractured										
62	1106											
63	1105											
64	1104											
65	1103											
66	1102											
67	1101											
68	1100											
69	1099	LIMESTONE, heavily interbedded with SHALE, gray to buff, slightly weathered, moderately hard, thin bedded, moderately fractured										
70	1098											
71	1097											
72	1096											
73	1095											
74	1094											
75	1093											
76	1092											
77	1091											
78	1090	End of Boring 78.0 ft.										

GEO TECHNICAL NOTES - WSB GDT - 2/25/21 08:32 - K:\017322-000\GEO TECH-CMT\GEO TECH-ROCK LOGS 017322-000.GPJ

WATER LEVEL MEASUREMENTS

START: 1/19/2021							END: 1/21/2021		
DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER DEPTH	WATER ELEVATION	METHOD	Crew Chief: R. Kurth	Logged By: MWO
1/21/2021	4:00 pm	78	73		28.0	1140	6" FA 0' - 18' NQ WIRE 18' - 78'	Notes: Subsurface water may represent perched conditions	

LOG OF TEST BORING



PROJECT NAME: Bruening Rock - Cherry Grove
 CLIENT/WSB #: 017322-000

PROJECT LOCATION: Kenyon, MN
 SURFACE ELEVATION: 1169 ft

BORING NUMBER B-2

PAGE 1 OF 1

DEPTH (ft)	ELEV. (ft)	DESCRIPTION OF MATERIAL	USCS	GEOLOGIC ORIGIN	WL	Drilling Operation	SAMPLE		MC %	%Fines	OTHER TESTS AND NOTES
							TYPE	No.			
1	1168	Silty Clay	CL	Glacial Till	▽		FA	1			
2	1167										
3	1166										
4	1165										
5	1164										
6	1163										
7	1162										
8	1161										
9	1160										
10	1159										
11	1158										
12	1157										
13	1156										
14	1155										
15	1154										
16	1153										
17	1152										
18	1151										
19	1150										
20	1149										
21	1148										
22	1147										
23	1146										
24	1145										
25	1144										
26	1143										
27	1142										
28	1141										
29	1140										
30	1139										
31	1138	LIMESTONE, brown, moderately to highly weathered, hard, thin bedded, highly fractured, some pitting		Prosser Formation							
32	1137	Limestone		Cummingsville Formation							
33	1136										
34	1135										
35	1134										
36	1133										
37	1132										
38	1131										
39	1130										
40	1129										
41	1128										
42	1127	LIMESTONE, slightly interbedded with SHALE, gray, moderately weathered, hard, thin bedded, moderately fractured									
43	1126	Limestone									
44	1125										
45	1124										
46	1123										
47	1122										
48	1121										
49	1120										
50	1119										
51	1118	LIMESTONE, heavily interbedded with SHALE, gray to buff, slightly weathered, moderately hard, thin bedded, moderately fractured									
52	1117	Limestone									
53	1116										
54	1115										
55	1114										
56	1113										
57	1112										
58	1111										
59	1110										
60	1109										
61	1108										
62	1107	LIMESTONE, heavily interbedded with SHALE, gray to buff, slightly weathered, moderately hard, thin bedded, moderately fractured									
63	1106	Limestone									
64	1105										
65	1104										
66	1103										
67	1102										
68	1101										
69	1100										
70	1099										
71	1098										
72	1097										
73	1096	LIMESTONE, heavily interbedded with SHALE, greensih gray to buff, slightly weathered, soft, thin bedded, moderately fractured									
74	1095	Limestone									
75	1094										
76	1093										
77	1092										
78	1091										
79	1090										
80	1089										
81	1088										
82	1087										
83	1086										
84	1085	LIMESTONE, heavily interbedded with SHALE, light gray to buff, slightly weathered, soft, thin bedded, moderately fractured									
85	1084	Shale									
86	1083										
87	1082										
88	1081										
89	1080	LIMESTONE, heavily interbedded with SHALE, light gray to buff, slightly weathered, soft, thin bedded, moderately fractured									
90	1079	End of Boring 90.0 ft.									

GEO-TECHNICAL-NOTES - WSB GDT - 2/25/21 08:32 - K:\017322-000\GEO-TECH-CMT\GEO-TECH-ROCK LOGS 017322-000.GPJ

WATER LEVEL MEASUREMENTS

START: 1/26/2021

END: 1/28/2021

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER DEPTH	WATER ELEVATION	METHOD	Crew Chief:	Logged By:
								R. Kurth	MWO
1/28/2021	3:00 pm	90	85		25.0	1144	6" FA 0' - 30' NQ WIRE 30' - 90'	Notes: Subsurface water may represent perched conditions	

LOG OF TEST BORING



PROJECT NAME: Bruening Rock - Cherry Grove
 CLIENT/WSB #: 017322-000

PROJECT LOCATION: Kenyon, MN
 SURFACE ELEVATION: 1169 ft

BORING NUMBER B-3

PAGE 1 OF 1

DEPTH (ft)	ELEV. (ft)	DESCRIPTION OF MATERIAL	USCS	GEOLOGIC ORIGIN	WL	Drilling Operation	SAMPLE		MC %	%Fines	OTHER TESTS AND NOTES	
							TYPE	No.				
1	1168	SILTY CLAY, brown	CL	Glacial Till								
2	1167											
3	1166											
4	1165											
5	1164											
6	1163											
7	1162											
8	1161											
9	1160											
10	1159											FA 1
11	1158											
12	1157											
13	1156											
14	1155											
15	1154											
16	1153											
17	1152											
18	1151											WEATHERED LIMESTONE, brown to tan
19	1150											
20	1149											
21	1148											
22	1147											
23	1146											
24	1145											
25	1144											
26	1143											
27	1142											
28	1141											
29	1140											
30	1139											
31	1138											
32	1137											
33	1136											
34	1135											
35	1134											
36	1133											
37	1132											
38	1131	LIMESTONE, slightly interbedded with SHALE, grayish brown to light gray, slightly weathered, moderately hard, thin bedded, moderately fractured		Cummingsville Formation								
39	1130											
40	1129											
41	1128											
42	1127											
43	1126											
44	1125											
45	1124											
46	1123											
47	1122											
48	1121											
49	1120											
50	1119	LIMESTONE, moderately interbedded with SHALE, light gray to gray, slightly weathered, moderately hard, thin bedded, moderately fractured										
51	1118											
52	1117											
53	1116											
54	1115											
55	1114											
56	1113											
57	1112											
58	1111											
59	1110											
60	1109	LIMESTONE, heavily interbedded with SHALE, light gray to gray, slightly weathered, moderately hard to soft, thin bedded, moderately fractured										
61	1108											
62	1107											
63	1106											
64	1105											
65	1104											
66	1103											
67	1102											
68	1101											
69	1100											
70	1099											
71	1098											
72	1097											
73	1096											
74	1095											
75	1094											
76	1093											
77	1092											
78	1091											
79	1090											
80	1089											

End of Boring 80.0 ft.

WATER LEVEL MEASUREMENTS

START: 2/02/2021

END: 2/17/2021

DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	WATER DEPTH	WATER ELEVATION	METHOD	Crew Chief:	Logged By:
2/17/2021	5:00 pm	80	75		None		6" FA 0' - 20'	R. Kurth	MWO
							NQ WIRE 20' - 80'	Notes:	

GEO-TECHNICAL-NOTES - WSB.GDT - 2/25/21 08:32 - K:\017322-000\GEO-TECH-CMT\GEO-TECH-CHIROCK LOGS 017322-000.GPJ

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

Public Hearing
July 19, 2021

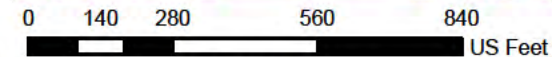
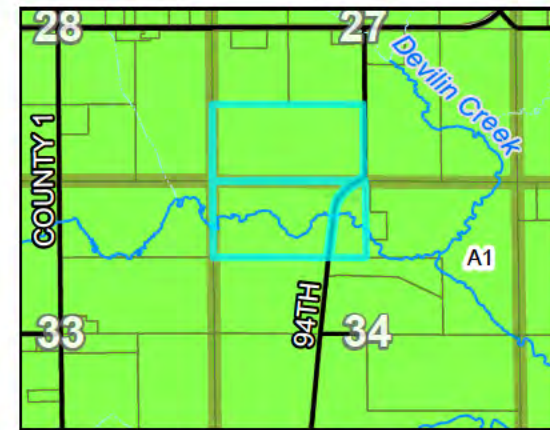
Herrick Properties, LLP (Doug Herrick, Applicant/Owner) A1 Zoned District

N 1/2 of the NW 1/4 of Section 34 and the S 1/2 of the SW 1/4 of Section 27 TWP 109 Range 17 in Cherry Grove Township.

Request for a Non-Metallic Mineral Extraction Facility.

Legend

Intermittent Streams	Bluff Impact Zones (% slope) 20
Protected Streams	Bluff Impact Zones (% slope) 30
Lakes & Other Water Bodies	FEMA Flood Zones 2% Annual Chance A
Shoreland	FEMA Flood Zones AE
Historic Districts	FEMA Flood Zones AO
Parcels	FEMA Flood Zones X
Registered Feedlots	
Dwellings	
Municipalities	

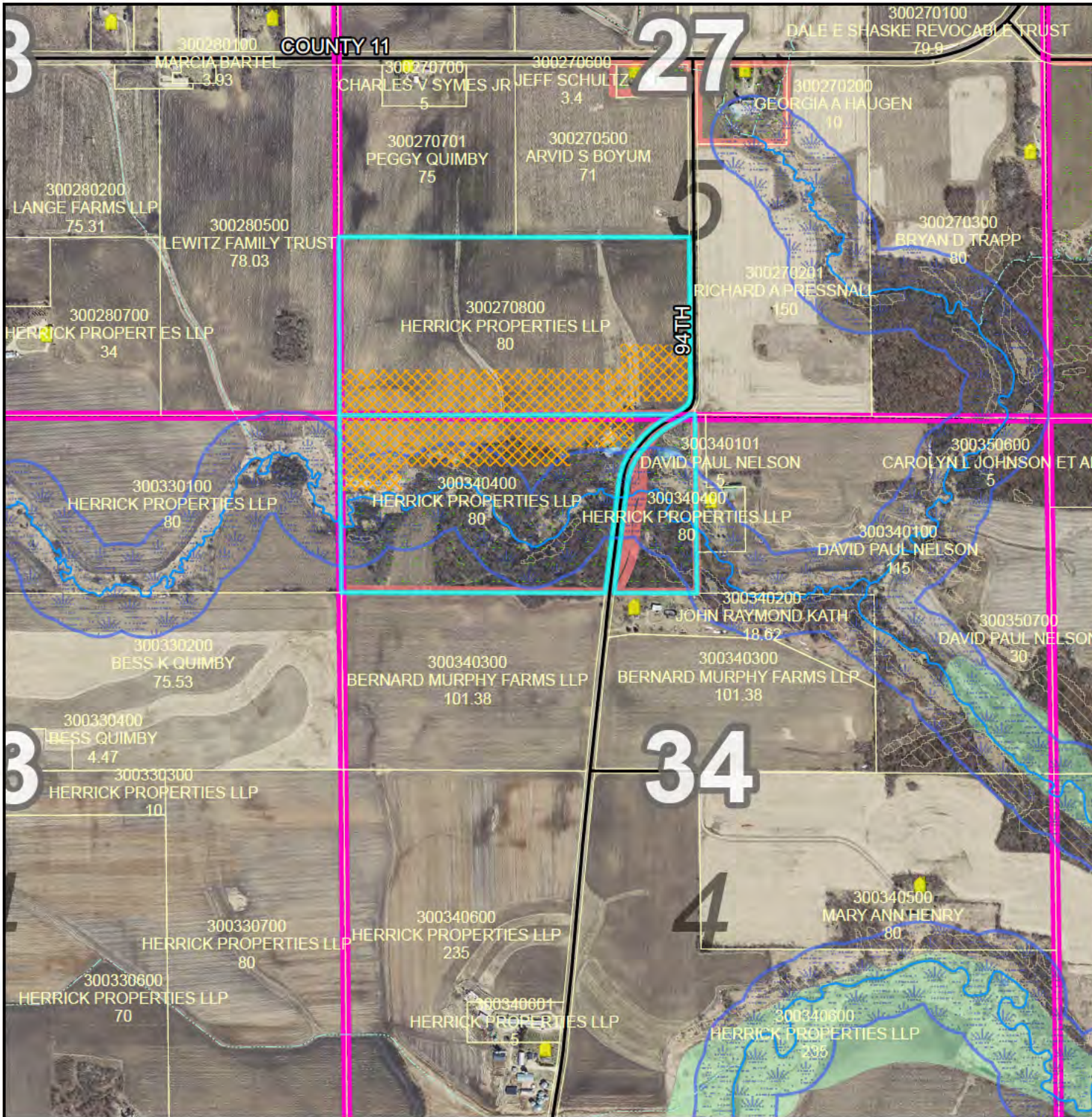


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2020 Aerial Imagery
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MAP 02: VICINITY MAP



PLANNING COMMISSION

Public Hearing
July 19, 2021

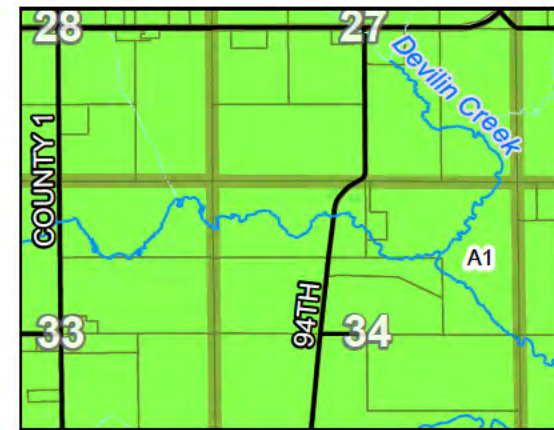
Herrick Properties, LLP (Doug Herrick,
Applicant/Owner) A1 Zoned District

N 1/2 of the NW 1/4 of Section 34
and the S 1/2 of the SW 1/4 of
Section 27 TWP 109 Range 17 in
Cherry Grove Township.

Request for a Non-Metallic
Mineral Extraction Facility.

Legend

	Intermittent Streams		Bluff Impact Zones (% slope)
	Protected Streams		30
	Lakes & Other Water Bodies		2% Annual Chance
	Shoreland		A
	Historic Districts		AE
	Parcels		AO
	Registered Feedlots		X
	Dwellings		
	Municipalities		



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MAP 03: ELEVATIONS



PLANNING COMMISSION

Public Hearing
July 19, 2021

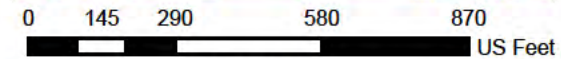
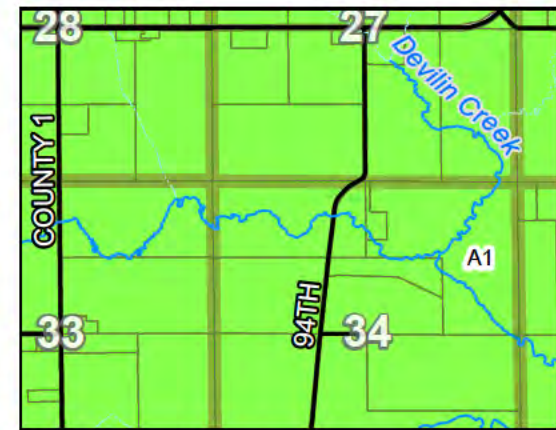
Herrick Properties, LLP (Doug Herrick,
Applicant/Owner) A1 Zoned District

N 1/2 of the NW 1/4 of Section 34
and the S 1/2 of the SW 1/4 of
Section 27 TWP 109 Range 17 in
Cherry Grove Township.

Request for a Non-Metallic
Mineral Extraction Facility.

Legend

- | | |
|----------------------------|-------------------------------------|
| Intermittent Streams | Bluff Impact Zones (% slope) 20 |
| Protected Streams | Bluff Impact Zones (% slope) 30 |
| Lakes & Other Water Bodies | FEMA Flood Zones 2% Annual Chance A |
| Shoreland | FEMA Flood Zones AE |
| Historic Districts | FEMA Flood Zones AO |
| Parcels | FEMA Flood Zones X |
| Registered Feedlots | |
| Dwellings | |
| Municipalities | |



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2020 Aerial Imagery
Map Created July, 2021 by LUM



Memorandum

To: Pierret, Samantha

From: Ron Fadness (Bruening Rock Products), Luke Lunde (WSB)

Date: July 12, 2021

Re: Herrick Quarry CUP Request for Additional Information
WSB Project No. 017322-000

Goodhue County Comments and Response

- j. No monitoring wells
- q. The primary haul route will be via 94th Avenue to County 11.
- k. Two species were identified which includes the Redside Dace within the stream. No impacts are proposed within the 300 ft shoreland setback.
- B. Jerome Halweg, 900 Montgomery Street, Decorah, IA 52101, (563) 380-1030
- E. Limestone will be produced by stripping the overburden, blasting and crushing the rock into various sized products. Blasting will be conducted by licensed blasting contractors, in compliance with federal and state laws and best practices. Production will vary depending on local demand.
- F. Hours of operation will be from 7:00 AM to 6:00 PM Monday through Friday, and 7:00 AM to 12:00 Noon on Saturdays. Product will be available for sale year-round, with production activity typically occurring between April and November. The lifespan of the site will depend on production demands.
- G. Operations will utilize crushing equipment, loaders and dump trucks to process and haul products.
- H. Activity will depend on demand for product. During production, approximately 10 vehicles will be present on the site. At other times, track traffic will range from nothing to possibly 40 trips per day.
- F. Operations on the site will be covered by air and stormwater permits issued by the Minnesota Pollution Control Agency as well as safety regulations promulgated by the Mine Safety and Health Administration of the United States Department of Labor. Air permits run with the crushing equipment, and stormwater permit MNG490115 will be amended to include this site when we are ready to begin work at this location. MSHA does not issue permits.
- J. Berms will be established above the quarry face, and the entry to the site will be secured by gates to provide safety and limit unwanted entry.
- K. A sign identifying the operator of the site with contact information will be posted at the entry from 94th Avenue. Any complaints will be addressed proactively to maintain good relationships with neighboring property owners.
- N. A truck scale will be placed on the site prior to the commencement of operations. Vehicles leaving the site will be weighed to assure compliance with weight restrictions.
- O. The travelled portions of the site will be maintained with gravel to ensure that no mud is tracked on or about the site. Site managers will use loaders to clean up anything that may accumulate on public roadways.
- Q. The operator has established Spill Prevention and Containment plans covering each site it operates, and a Stormwater Pollution and Prevention Plan will be drafted for this site specifically.

- S. Berms will be established above the quarry face, and the entry to the site will be secured by gates to limit unwanted entry.

Goodhue County SWCD Comments and Response

1. *Proposed end use is low intensity agriculture production following mining activity. with a proposed quarry floor elevation of 1127' the entire quarry floor will likely be under water due to the elevation of the nearby stream and as evident in the soil boring data. Is water quality/quantity modeling required per our mining ordinance if this is the case?*

The mining limits have been revised to include a 300ft buffer from the stream south of the project limits. See revised attached figures.

2. *Reclaimed pit contours not provided.*

Typical cross sections were provided in the reclamation plan. If requested Bruening Rock Products can provide general proposed reclamation contours of the site.

3. *The detail provided in the rehab plan does not meet the mining ordinance spec for Land Reclamation on new facilities. Slopes must be 3:1 or gentler. Same goes with the Soil restoration standards section.*

Reclamation plans will be revised to meet the 3:1 slope requirement for the reclamation and restoration standards.

4. *Special attention should be made/clarified on how the two drainages from the north (~40 ac and ~20ac) will be accounted for during and after mining activity. How will existing drainage patterns be followed if there is a berm constructed around the entire facility?*

Grading will be established and extended throughout the life of the quarry to direct storm water flow around the quarry to continue existing drainage patterns.

5. *The SW portion of the proposed mine will be located within the Shoreland (~115' from the stream edge).*

Mining Limits have been revised to ensure the project meets the required 300 ft buffer requirements of the shoreland ordinance.

6. *Is dewatering necessary? Appears proposed pit floor is 1127' and the stream elevation is around 1140'. Will the pit be dewatered to access the bottom most pit material? Will dewatering cause nearby stream quantity concerns?*

Mining limits have been revised to meet the 300ft shoreland setback requirements. Dewatering will not be necessary as Bruening Rock Products will mine to elevations above water table. Geotechnical borings identify a perched water table above the first encountered bedrock due to an ash layer. Water table was not encountered within the remaining boring depths as identified in the soil boring logs.

7. *We also talked with the DNR Fisheries and they completed sampling there and caught Redside Dace in July 2017.*

Noted, disturbance of the stream corridor or the 300' shoreland buffer is not proposed for this project.

8. *Would also like to mention that in the Southeast corner of the proposed mining area may potentially be a “Shallow Open Water” wetland present.*

The indicated potential shallow open water wetland in the southeast corner of the site is a remnant from previous mining operations that occurred within the limits of the proposed project. This location is a manmade open water feature because of previous mining activities.

Cherry Grove Conditional Use Permit Hearing

November 10, 2020

Present: (Cherry Grove Zoning Committee) John Cordes, Claire Boyum, Becky Friese, Bev Jacobsen

Representatives from Bruening Rock Products, Ron Fadness, Floyd Hackman, and Luke Lunde

Cherry Grove Township Supervisor, Keith Allen

The proposed quarry will be on the Herrick Farm, involving less than 40 acres of land. It has a history of being a quarry, but abandoned for many years. The driveway into the quarry will be on 94th Ave. This driveway is about 600 feet from its closest neighbor, David and Lynn Nelson. They have agreed to this arrangement in writing. Of note, the quarry's boundary will be 450 – 500 feet from a creek that is on its southern boundary. Bruening Rock Products also operate the quarry outside of Pine Island. They have a goal of expanding their business and reducing trucking expenses.

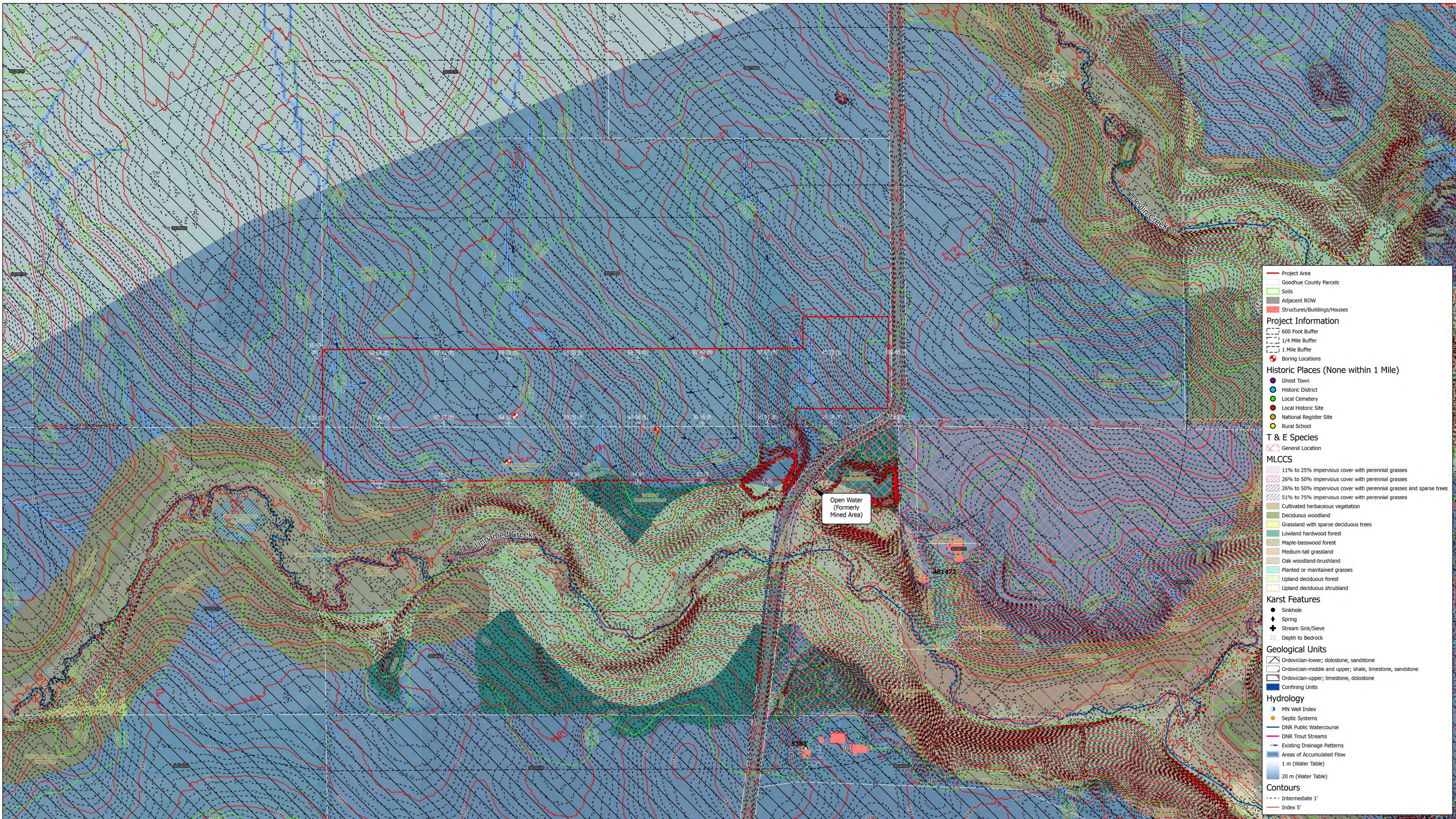
The goal to begin operation would be next summer, depending on the permitting process. The quarry will produce mostly white rock. This would be primarily road rock for township roads with 1 inch to 3 inch clean rock. Blasting will be performed 7 a.m. to 6 p.m. Monday through Friday, and 7 a.m. to 12 p.m. on Saturdays, which is also hours of operation.

Conditions for granting this permit:

1. A berm will be constructed on the perimeters of the quarry. They will seed it with grass and maintain (mow) along with the planting of bushes and trees. This will reduce the noise and the dust from the operation.
2. Bruening Rock Products will maintain 94th Ave. from driveway to the stop sign on hwy. #11. This includes adding rock to the township road.
3. Bruening Rock Products will also apply dust control to said stretch of township road.
4. If the culvert under 94th Ave sustains damage or collapse during operation of the quarry, Bruening Rock Products will replace said culvert.

A note of concern for Goodhue County Highway Department.

Several voiced concern over the obstruction of tree growth on the corner of 94th Ave. and Hwy #11, and county attention to this would be appreciated as it would increase safety and visibility for those entering Hwy #11.



Project Area

- Project Area
- Goodhue County Parcels
- Soils
- Adjacent ROW
- Structures/Buildings/Houses

Project Information

- 600 Foot Buffer
- 1/4 Mile Buffer
- 1 Mile Buffer
- Boring Locations

Historic Places (None within 1 Mile)

- Ghost Town
- Historic District
- Local Cemetery
- Local Historic Site
- National Register Site
- Rural School

T & E Species

- General Location

MLCCS

- 11% to 25% impervious cover with perennial grasses
- 26% to 50% impervious cover with perennial grasses
- 26% to 50% impervious cover with perennial grasses and sparse trees
- 51% to 75% impervious cover with perennial grasses
- Cultivated herbaceous vegetation
- Deciduous woodland
- Grassland with sparse deciduous trees
- Lowland hardwood forest
- Maple-basswood forest
- Medium-tall grassland
- Oak woodland-brushland
- Planted or maintained grasses
- Upland deciduous forest
- Upland deciduous shrubland

Karst Features

- Sinkhole
- Spring
- Stream Sink/Sieve
- Depth to Bedrock

Geological Units

- Ordovician-lower; dolostone, sandstone
- Ordovician-middle and upper; shale, limestone, sandstone
- Ordovician-upper; limestone, dolostone
- Confining Units

Hydrology

- MN Well Index
- Septic Systems
- DNR Public Watercourse
- DNR Trout Streams
- Existing Drainage Patterns
- Areas of Accumulated Flow
- 1 m (Water Table)
- 20 m (Water Table)

Contours

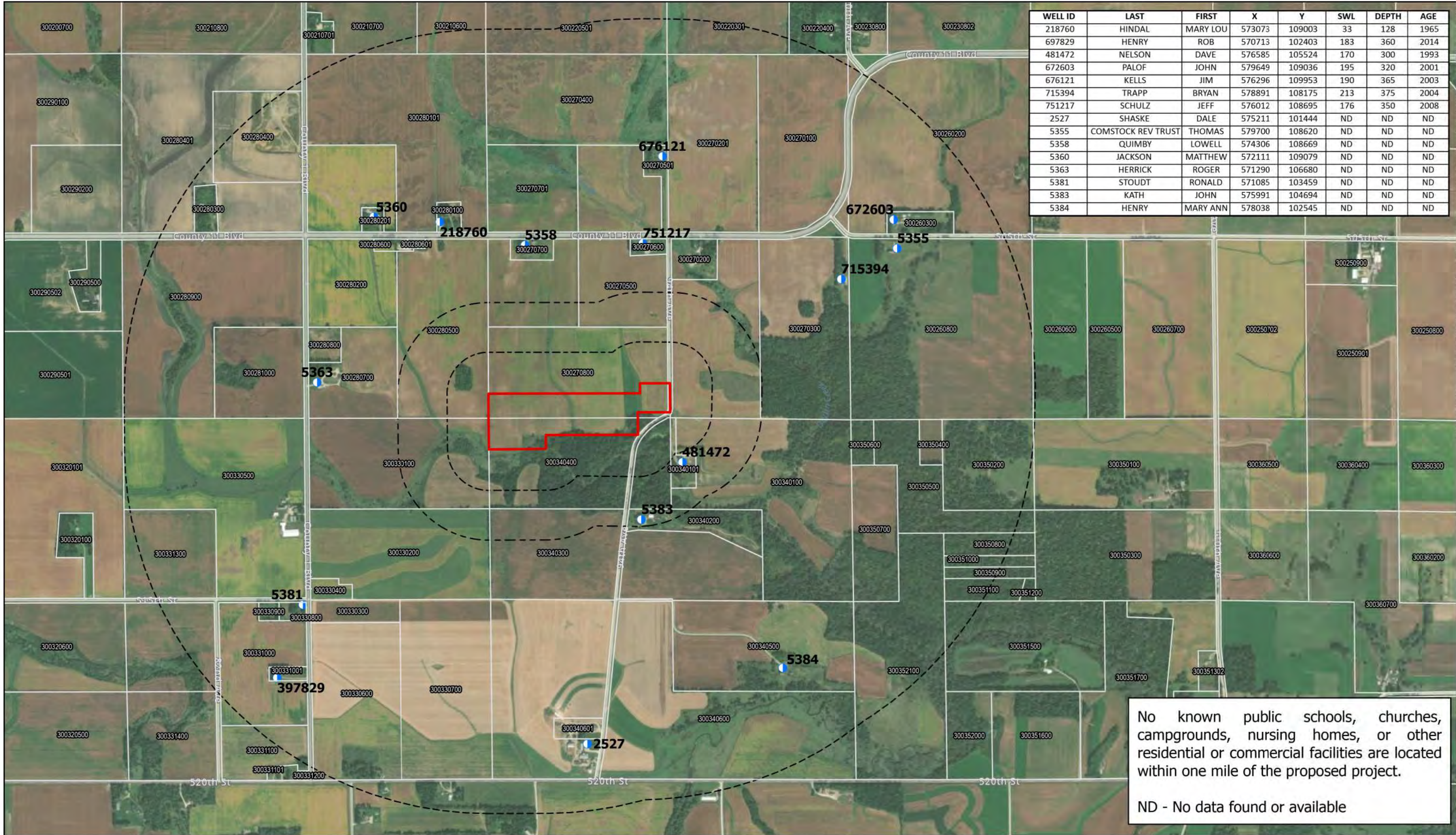
- Intermediate 1'
- Index 5'

Figure A(1) Existing Site Conditions

N

0 200 400 600 Feet

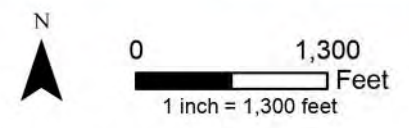
1 inch = 200 feet

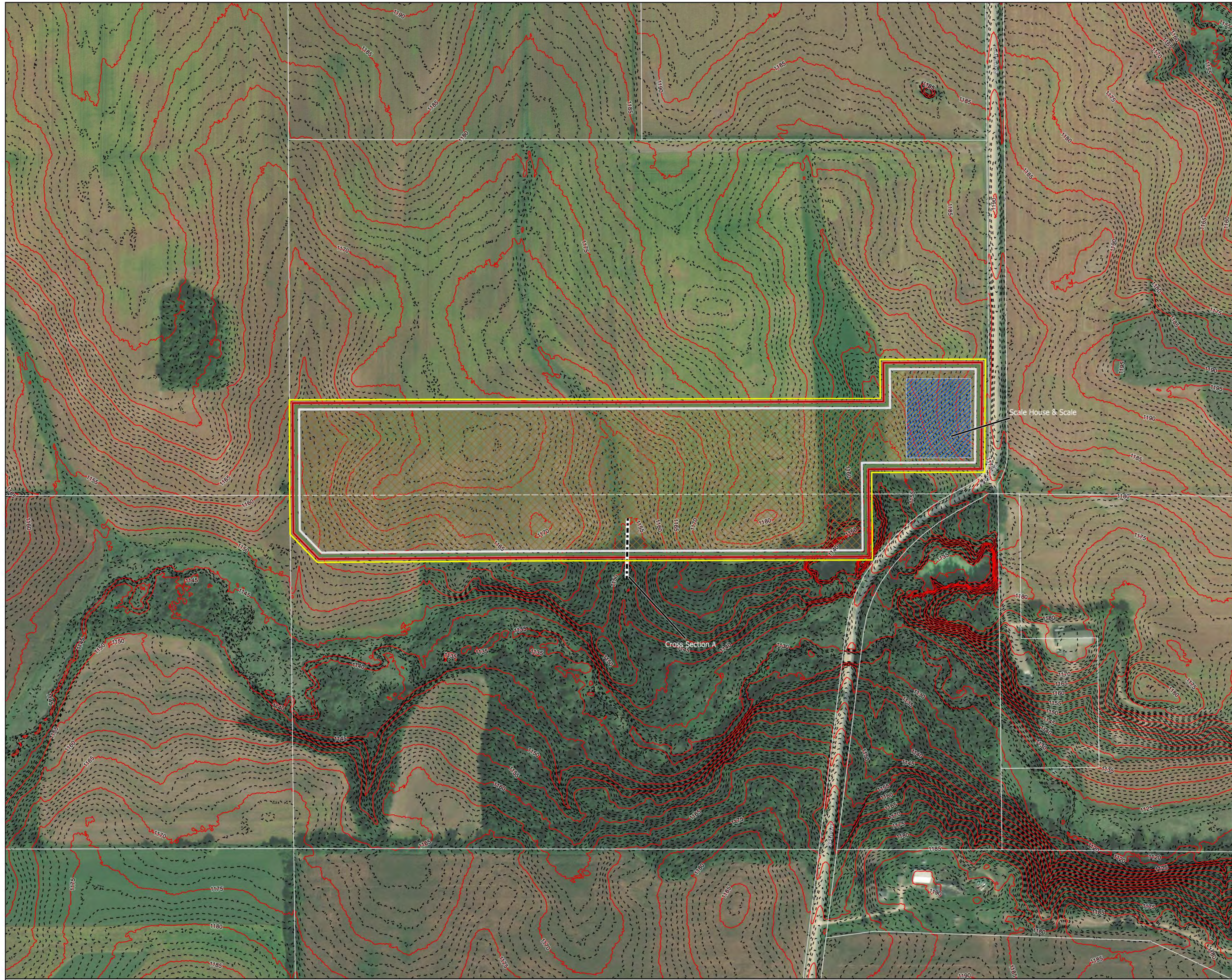


No known public schools, churches, campgrounds, nursing homes, or other residential or commercial facilities are located within one mile of the proposed project.

ND - No data found or available

Figure A(2) Adjacent Site Conditions
 Herrick Quarry
 Bruening Rock Products





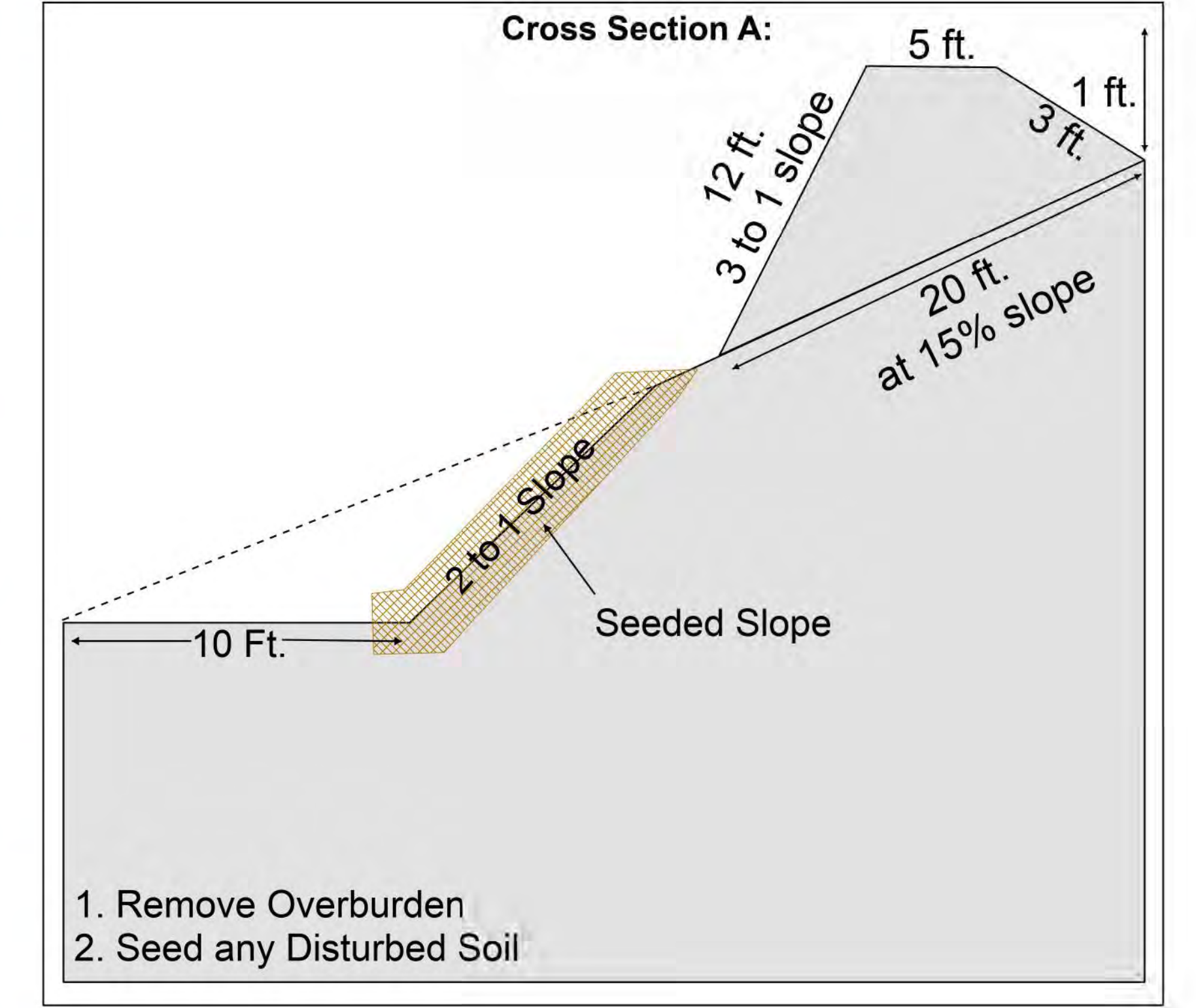
Cherry Grove Quarry Proposed Operations

PID. 300270800, 300280500, 300330100, 300340400

- Cross Section Line
- ▭ GIS Parcel Boundaries
- ▭ Butress Berm
- ▨ Building Location
- ▨ Disturbed Areas
- ▨ Contours
- ▨ Top Soil Berm
- Intermediate 1'
- ▨ Stabilized Slope
- Index 5'
- ▨ Project Area

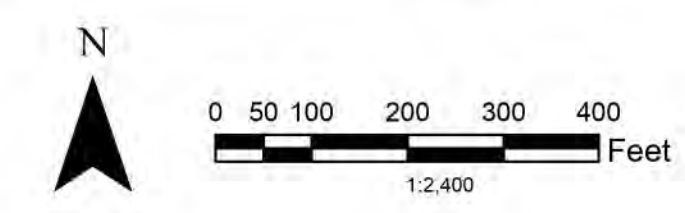
Reclamation Notes

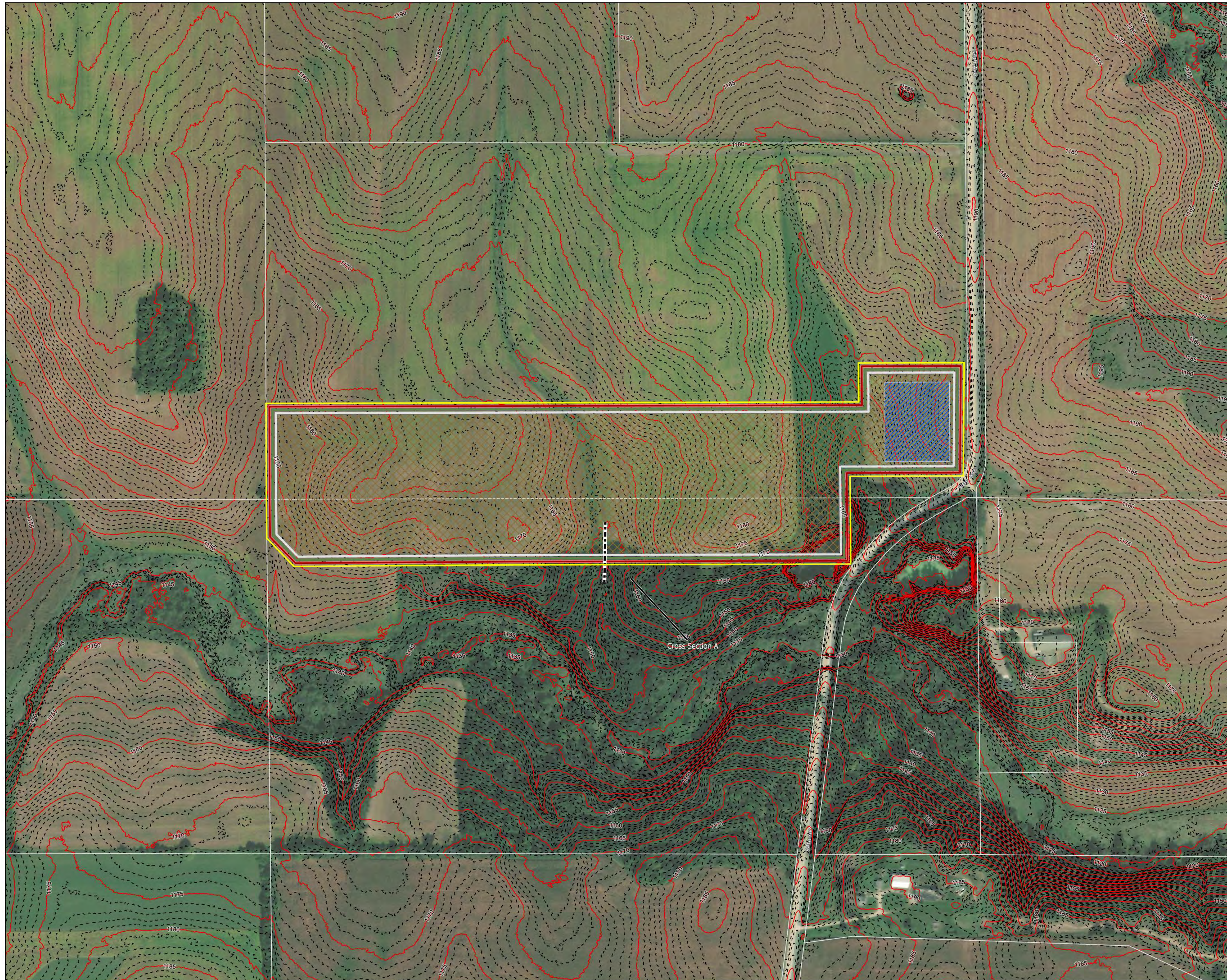
All existing vegetation shall remain until disturbance is required for the mining operation.
 All non-disturbed area shall remain stable from erosion until the mining operation is present at that location. At which point all runoff shall remain within the Quarry boundary.
 The only Structure that will be constructed is the scale and scale house.
 The entire area within the boundary will be mined with the exception of the berm area at the top and the setback. The bottom proposed elevation will be 1127. This is the elevation of the bottom of the Prosser formation. The formation below that is poor quality and will not be mined.
 The scale will be installed near the road entrance and the processing machinery (crusher, conveyors and loaders) will be moved to the west as the quarry face moves west.
 The mined stock piles will be placed on the quarry floor and have a maximum height of 35'.
 All vehicles shall be parked within the quarry boundary near the scale house.
 No explosives shall be stored on the site.
 Fuel storage shall be near the scale house in approved storage containers.
 All site runoff shall remain within the quarry boundary
 All water retention pond will be placed within the quarry boundary.
 The existing drainage pattern will be followed and the existing drainage ways will enter the quarry.
 The quarry entrance to the public road will be on the East end of the property with the exact location to be approved by the LGU road authority. The quarry floor will be the internal road system
 Trucks hauling from the site shall follow weight limits on roads leaving the site.



I HERBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: _____
 SIGNATURE: _____
 DATE: _____ REG. NO. _____





Reclamation Notes

- All Structures shall be removed when quarry operations are complete.
- The Quarry Floor will be vegetated as shown with a minimum of 3" of topsoil
- The Quarry Floor is proposed to be flat so seeding and mulch will be required. If the quarry floor has slope additional erosion control measures will need to be implemented to control erosion.
- The quarry floor must have a 70% coverage before the quarry can be considered reclaimed.

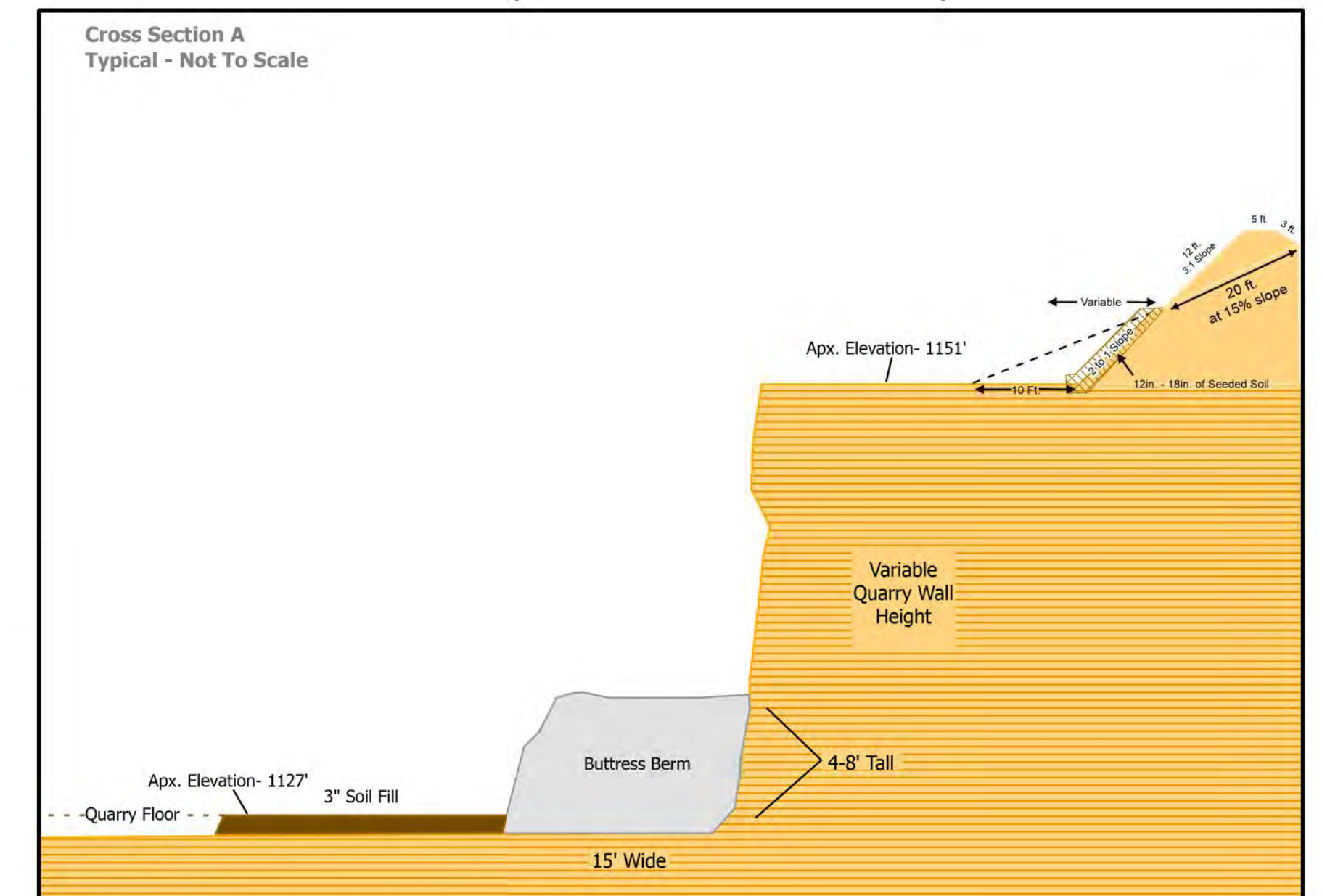
Reclamation

All work on the quarry will be subject to the requirements of the State and Federal non-metallic mining permit requiring erosion control and site stabilization. After mining operations have ceased, at least 3 inches of the stripped soil fill will be placed upon the bedrock floor. A buttress berm made of rubble will be placed at the intersection of the quarry floor and the wall to prevent access directly under the rock wall. A contour berm made of previously stripped soil will be placed around the upper perimeter of the quarry to prevent access to the upper edge (see attached below). Usage of the land will be converted to low intensity agricultural purposes. The quarry floor and soil berms will be seeded for vegetation. Seeding will be carried out using MNDOT mixture 22-112 for the purpose of 2-5 year temporary stabilization. The final stabilization mix will be MNDOT mixture 25-142.

Final Stabilization

The Permittee(s) will complete the following to achieve final stabilization:

- The drainage ways that leave the site will be stabilized to prevent erosion with riprap or other protective material.
- All soils will be stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions.
- Temporary BMPs for erosion prevention, such as synthetic liners and silt fences, will be removed.
- Other BMPs as necessary will be implemented so as to prevent erosion from the site excavation areas and stockpiles that have been used by the Permittee.



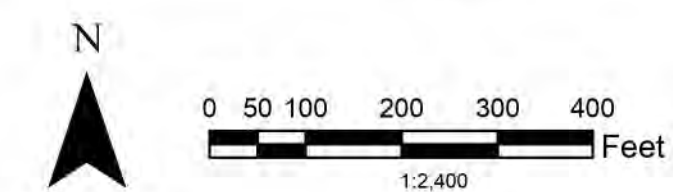
Cherry Grove Quarry Reclamation Plan

PID. 300270800, 300280500, 300330100, 300340400

- Cross Section Line
- GIS Parcel Boundaries
- ▭ Butters Berm
- ▨ Building Location
- ▨ Disturbed Areas
- ▨ Contours
- ▨ Top Soil Berm
- Intermediate 1'
- ▨ Stabilized Slope
- Index 5'
- ▨ Project Area

I HERBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

PRINT NAME: _____
SIGNATURE: _____
DATE: _____ REG. NO. _____



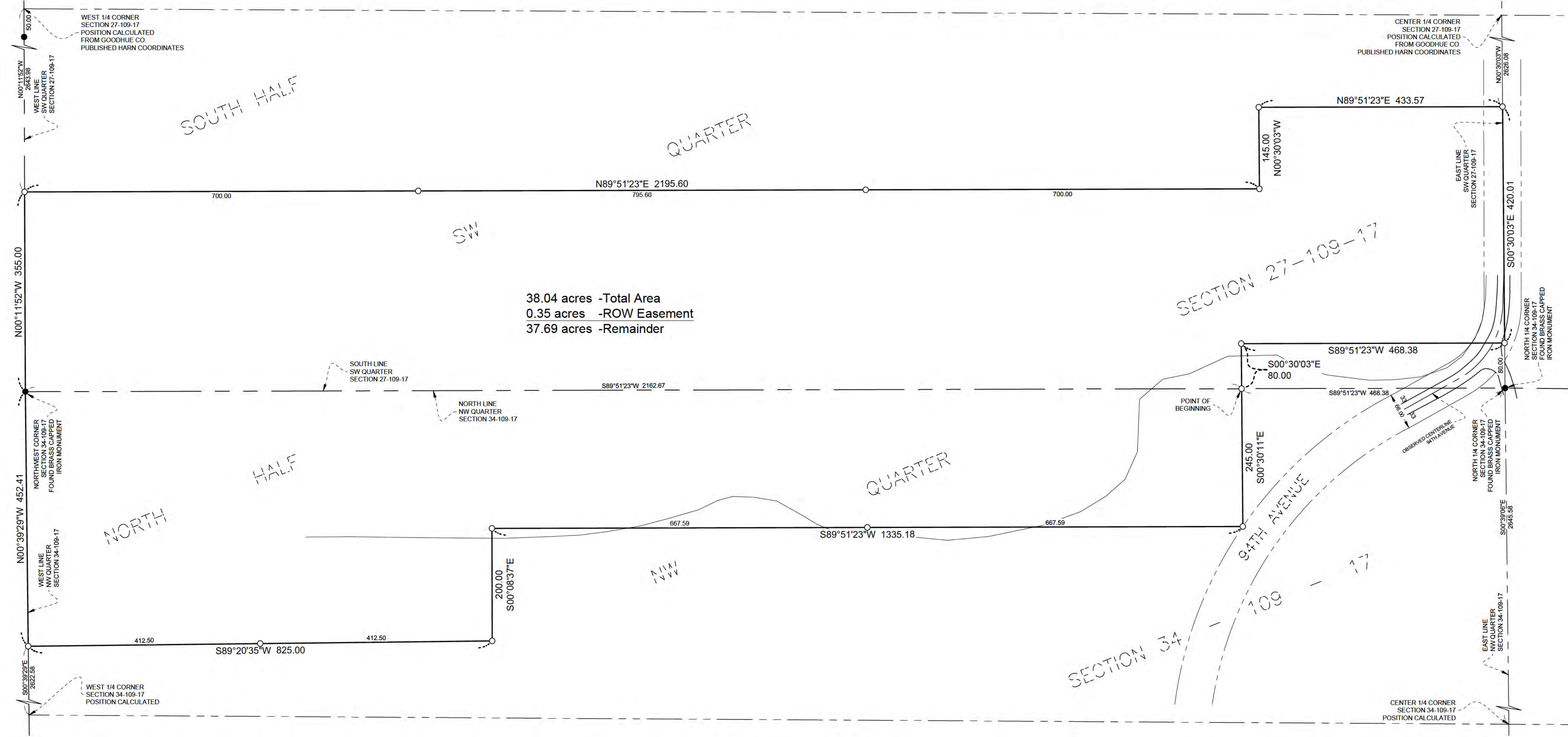
REVISIONS	
NO.	DESCRIPTION

I HEREBY CERTIFY THAT THIS SURVEY, PLAN, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

ANDREW S. LOBE
 DATE: XX/XX/XXXX LIC. NO.: 50772

CERTIFICATE OF SURVEY

HERRICK CUP
 BRUENING ROCK PRODUCTS, INC.
 PARTS OF SECTIONS 27 & 34, TWP. 109N, RGE. 17W

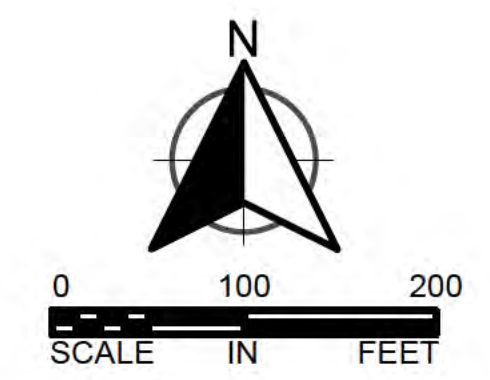


PROPOSED DESCRIPTION

That part of the South Half of the Southwest Quarter of Section 27 and the North Half of the Northwest Quarter, all in Township 109 North, Range 17 West, Goodhue County, Minnesota, described as follows:

Commencing at the north quarter corner of said Section 34; thence South 89 degrees 51 minutes 23 seconds West, along the north line of said Northwest Quarter of Section 34, a distance of 468.38 feet to the Point of Beginning; thence South 00 degrees 30 minutes 11 seconds East, a distance of 245.00 feet; thence South 89 degrees 51 minutes 23 seconds West, parallel with said north line, a distance of 1335.18 feet; thence South 00 degrees 08 minutes 37 seconds East, a distance of 200.00 feet; thence South 89 degrees 20 minutes 35 seconds West, a distance of 825.00 feet to the west line of said Northwest Quarter; thence North 00 degrees 39 minutes 29 seconds West, along said west line, a distance of 452.41 feet to the northwest corner of said Northwest Quarter; thence North 00 degrees 11 minutes 52 seconds West, along the west line of Said Southwest Quarter of Section 27, a distance of 355.00 feet; thence North 89 degrees 51 minutes 23 seconds East, parallel with the south line of said Southwest Quarter, a distance of 2195.60 feet; thence North 00 degrees 30 minutes 03 seconds West, parallel with the east line of said Southwest Quarter, a distance of 145.00 feet; thence North 89 degrees 51 minutes 23 seconds West, parallel with said south line, a distance of 433.57 feet to said east line of the Southwest Quarter; thence South 00 degrees 30 minutes 03 seconds East, along said east line, a distance of 420.01 feet to a point in said east line which lies 80.00 north of said north quarter corner; thence South 89 degrees 51 minutes 23 seconds West, parallel with said south line of the Southwest Quarter, a distance of 468.38 feet; thence South 00 degrees 30 minutes 03 seconds East, parallel with said east line, a distance of 80.00 feet to the Point of Beginning. Subject to right-of-way easement over, under, and across 94th Avenue.

Contains 38.04 acres of land, more or less.



ALL MONUMENTS SHOWN THUS: ○
 ARE 5/8" I.D. CAPPED PIPES SET WITH LICENSE NO. 50772

ALL MONUMENTS SHOWN THUS: ●
 ARE FOUND IRON MONUMENTS UNLESS OTHERWISE NOTED.