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

Call Meeting To Order

Approval Of Current Agenda

Approval Of Previous Month's Meeting Minutes

1. October 21, 2019 Meeting Minutes

Documents:

MINUTES_OCTOBER2019_PAC.PDF

Conflict/Disclosure Of Interests

Public Hearings:

PUBLIC HEARING: Request For Map Amendment (Rezone) - Thomforde
Request for map amendment, submitted by Larry Thomforde (Buyer) and the Goodhue County
Agricultural Society (Owner), to rezone 1.10 acres from A3 (Urban Fringe District) to R1 (Suburban
Residence District). Parcel 38.025.0200. 44279 CTY 6 BLVD, Zumbrota, MN 55992. Part of the NE ¼ of
section 25 Twp 110 Range 16 in Minneola Township.

Documents:

PACPACKET_REZONE_THOMFORDE.PDF

2. PUBLIC HEARING: "Sugarloaf Estates First Addition" Preliminary/Final Plat Review Request, submitted by Larry Thomforde (Buyer/Owner), for Preliminary and Final Plat review of the proposed Sugarloaf Estates First Addition to expand an existing parcel by approximately 1.10 acres. Parcels 38.105.0030 and 38.025.0200. 17468 Sugarloaf Parkway, Zumbrota, MN 55992. Lot 3 Block 1 of the Sugar Loaf Estates plat located in the NW ¼ and NE ¼ of section 25 Twp 110 Range 16 in Minneola Township.

Documents:

PACPACKET PLAT THOMFORDE REDACTED.PDF

3. PUBLIC HEARING: Request For Map Amendment (Rezone) - Krueger Request for map amendment, submitted by Jason Krueger (buyer) and Mark Braaten (owner), to rezone 5.0 acres from A3 (Urban Fringe District) to R1 (Suburban Residence District). Parcel 40.035.2200. 16632 515th Street, Pine Island, MN 55963. Part of the W ¼ of the E ½ of the NW ¼ of the SE ¼ of Sect 35 Twp 109 Range 16 in Roscoe Township.

Documents:

PACPACKET_KRUEGER.PDF

 PUBLIC HEARING: CUP Request For Feedlot Expansion And Liquid Manure Storage Exceeding 500,000 Gallons (Buck)

Request for CUP amendment, submitted by David & Ann Buck (Owner/Operators), for an estimated 777 Animal Unit expansion of an existing 998 Animal Unit dairy Feedlot and construction of animal waste

storage pit exceeding 500,000 gallons. Parcel 33.019.0400. 37298 180th Ave, Goodhue, MN 55027. NW ¼ of Sect 19 Twp 111 Range 15 in Goodhue Township. A1 Zoned District.

Documents:

PACPACKET_BUCK.PDF

5. PUBLIC HEARING: CUP Request To Elevate A Structure Within A Floodplain By Means Other Than Fill Request submitted by James Plehal (Owner) to elevate a proposed storage building above the base flood elevation of a Floodplain area by means of foundational walls. Parcel 43.210.0840. 27882 Greens Point RD, Red Wing, MN 55066. Lot 14, Block 6 of Wacouta Beach Plat located in Sect 32 Twp 113, Range 13 in Wacouta Township. R1 Zoned District.

Documents:

PACPACKET_PLEHAL.PDF

6. PUBLIC HEARING: Request For Map Amendment (Rezone)

Request for map amendment, submitted by Goodhue County Land Use Management Department, to rezone approximately 87.69 acres from A1 (Agricultural Protection District) to PT (Parks and Trails District). Parcels 36.180.0010, 36.150.0090 and 36.130.0010. TBD Goodhue Avenue, Kenyon, MN 55946. Part of W ½ of section 7 Twp 110 Range 18 in Kenyon Township.

Documents:

PACPACKET_KENYON_PARK.PDF

Other-Discussion

Adjourn

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

Goodhue County Land Use Management

Goodhue County Government Center * 509 West Fifth Street * Red Wing * Minnesota * 55066 *
 Building * Planning * Zoning * Telephone: 651/385-3104 * Fax: 651/385-3106 *

The meeting of the Goodhue County Planning Advisory Commission was called to order at 7:00 PM by Vice-Chair Tom Gale at the Goodhue County Government Center 3rd Floor Board Room in Red Wing, Minnesota.

Roll Call

Commissioners Present: Darwin Fox, Richard (Dick) Nystuen, Tom Gale, Barney Nesseth, Richard Miller, Howard Stenerson and Marc Huneke (Arrived at 7:07 PM)

Commissioners Absent: Sarah Pettit and Tom Drazkowski

Staff Present: Land Use Director Lisa Hanni, Zoning Assistant Ryan Bechel, Zoning Assistant Samantha Pierret

1. Approval of Agenda

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

Motion carried 6:0.

2. Approval of Minutes

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

Motion carried 6:0.

3. Conflict/Disclosure of Interest

There were no conflicts or disclosures of interest reported.

4. Public Hearings

TABLED: Request for Map Amendment (Rezone)

Request for a map amendment, submitted by Colleen and Douglas Hill (Owners), to rezone 15.23 acres from A3 (Urban Fringe District) to R1 (Suburban Residence District). Parcel 31.001.4300. 1790 Bluebird Lane, Red Wing, MN 55066. Part of the NW ¼ of the NE ¼ of Sect 01 Twp 112 R15 in Featherstone Township.

Bechel presented the staff report and attachments.

Commissioner Stenerson questioned what the plan for annexation into the City of Red Wing is for this property.

Amy Anderson (Attorney for the Applicants) stated that the Applicant has not approached the City of Red Wing regarding formal annexation at this time. She added that the Applicant is focused on rezoning the property on the agenda but the letter included in the packet was to address any concerns the City may have. She noted that the parcel on the agenda is not proposed to be annexed.

Commissioner Stenerson asked for clarification that the two parcels on Pioneer Road are not proposed to be rezoned.

Staff confirmed that the only parcel proposed for rezoning is the larger parcel.

Commissioner Stenerson questioned why the two parcels are proposed to be annexed but not

the larger parcel.

Ms. Anderson commented that there may be a waterway running through the parcels on Pioneer Road which may be part of the City's watershed. She added it would be hard to develop that area without negatively impacting the watershed.

Bechel gave a history on the project proposal, detailing conversations between the Applicant, the City of Red Wing and Goodhue County officials regarding access to the property and the proposed number of lots.

Commissioner Stenerson commented on the Township's struggles with small residential developments and their sewer systems. He added that the Township would not want to be responsible for utilities to these areas and noted that he would prefer to see this property be annexed into the City of Red Wing.

³It was moved by Commissioner Stenerson and seconded by Commissioner Nystuen for the Planning Advisory Commission to:

- Adopt the staff report into the record;
- Accept the application, testimony, exhibits and other evidence presented into the record; and

Recommend that the County Board of Commissioners **APPROVE** the map amendment request from Colleen Hill (Property Owner) to rezone parcel 31.001.4300 from A3 (Urban Fringe District) to R1 (Suburban Residence District).

Motion carried 7:0.

<u>PUBLIC HEARING: CUP Request for Feedlot Expansion and Liquid Manure Storage Exceeding 500,000 Gallons (Circle K Family Farms)</u>

Request for CUP amendment, submitted by Circle K Family Farms (owner/operators), for an estimated 815 Animal Unit expansion of an existing 2059 Animal Unit swine Feedlot and construction of animal waste storage pits exceeding 500,000 gallons. Parcel 26.011.0501. 35559 CTY 45 BLVD, Lake City, MN 55041. Part of the S ½ of the NW ¼ and the N ½ of the SW ¼ of Sect 11 Twp 111 R14 in Belvidere Township. A2 Zoned District.

Bechel presented the staff report and attachments.

Commissioner Nesseth questioned whether there would be more truck traffic on the road.

Yon Kohlnhofer (Applicant) stated that they would not be adding additional grain storage at the site therefore they will not make more tonnage that leaves the farm as more tonnage will be needed on the farm. He added that the majority of the manure that leaves the site leaves in a drag line system and they hope to continue that process to limit traffic. He noted they are weaning only two times per week instead of three times per week which takes away one truck. He noted that they understand there is truck traffic created by the farm.

Commissioner Stenerson commented on the proposed manure storage capacity and questioned at what point the local land capacity would no longer be able to handle that capacity.

Yon stated that the capacity of the storage facility is over-exaggerated because it is measured from bottom to top however the manure has to stay below the slats and beams so the animals are not standing in manure. He added there is a point that a farm could create more manure than it can handle with a hose, however they are not near that point.

Vice Chair Gale opened the Public Hearing.

Kristi Rosenquist (42883 220th Ave Mazeppa, MN) stated she would ask for two additional conditions for the permit. The first would be that the Applicants be responsible for dust control on the road noting that in the fall there can be up to 100 semis per day on the road creating a lot of dust. She stated that 90-95% of the truck traffic on the road is from the Applicants' farming operation. The second condition would be to require that the Applicants notify neighbors when they will agitate and pump out the system. She spoke about MPCA permitting requirements and notification requirements.

Kandi Duffing (35785 CTY 45 BLVD, Lake City, MN) agreed with Ms. Rosenquist's statements and added that over the past weekend a semi drove past her property every four minutes. She added that they have paid for half of the chloriding of the road in the past and she would like to see the road chlorided to 385th Street. She stated that many other people are opposed to this operation. She stated her concerns regarding the amount of water the farm uses and she would like to be notified when they pump out and spread the manure.

Commissioner Gale questioned the distance the Applicants should notify people and who should be notified, those around the farm when it is agitated or property owners in the areas where the manure will be spread.

Ms. Duffing stated she would like to be notified when they will be agitating and spreading.

Commissioner Gale questioned the distance the Applicants should notify neighbors at.

Ms. Rosenquist stated the notification area for a CUP hearing may suffice, 5,000 feet.

Staff noted that CUP public hearings "neighbor notices" are provided to all neighbors within a ¼ mile distance of the proposal provided there is a minimum of 10 unique landowners notified. Bechel explained the notification procedures.

Ms. Duffing added that the traffic will increase due to this project and the semis drive fast down the road.

Marie Tipcke (1928 Gadient Place, Red Wing, MN) stated her land abuts the Applicants' and she wanted to know the location of the new structures however she has no objections to the project.

Bechel reviewed a map provided depicting the proposed structure locations.

⁴ After Vice Chair Gale asked three times for additional comments it was moved by Commissioner Fox and seconded by Commissioner Miller to close the Public Hearing.

Motion carried 7:0.

Commissioner Stenerson questioned whether the manure was knifed in.

The Applicants confirmed that it is knife injected.

Commissioner Stenerson noted that the odor would mostly come when the pits are stirred on site. He questioned what the odor offset was for this project.

Bechel stated the minimum odor offset was 1379 feet based on the addition.

Mike Kohlnhofer (Applicant) stated that Marty Kehren is the only neighbor within the 95% odor offset distance. Noone is within the 91% odor offset distance.

Bechel detailed the surrounding properties and distances to the nearest dwellings.

Commissioner Stenerson commented on the industrial nature of the zone and the odor offset modeling.

It was moved by Commissioner Stenerson and seconded by Commissioner Fox to:

- 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

Recommend the County Board of Commissioners **APPROVE** the request for CUP amendment, submitted by Circle K Family Farms (owner/operators), to expand the existing 2059 Animal Unit swine Feedlot operation to 2874 Animal Units and construct two new animal waste storage pits creating a total on-site manure storage capacity of 11,389,406 gallons. Subject to the following conditions:

- 1. The Feedlot shall be constructed according to submitted plans, specifications and narrative unless modified by a condition of this CUP;
- 2. Applicants shall obtain Building Permit approvals from the Goodhue County Land Use Management Department prior to establishing the use;
- 3. Compliance with the Goodhue County Zoning Ordinance including, but not limited to, Article 22 (Agriculture District) and Article 13 (Confined Feedlot Regulations);
- 4. Compliance with all necessary State and Federal registrations, permits, licensing and regulations.

Commissioner Nystuen questioned how much chloride would be needed to satisfy the neighbors' request.

Hanni referenced a map provided regarding the distance.

Bechel commented that the Applicants have been doing some voluntary chloriding.

Mike Kohlnhofer stated that they have been doing some voluntary chloriding and he would be willing to work with the neighbors and pay for the work.

Discussion continued regarding where the chloriding should be done.

Commissioner Stenerson explained the reason he did not add the chloriding to his motion to approve was to not set a precedent for future applicants. He noted that he understands the neighbors' concerns, but the issue should be worked out between the neighbors, not set as a condition of a CUP.

Commissioner Gale stated he does not want to see one individual chloriding several miles of road to their farm.

Commissioner Fox questioned where the requirements would stop if the Commission began requiring chloriding for farmers.

Commissioner Nesseth stated the Applicants and neighbors seem to have an agreement in place and they can work on the details of that on their own. He noted that the issue could be brought back to the Commission if there were complaints.

Motion carried 7:0

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

Request for a CUP submitted by SolarClub 8 LLC (applicant) and Lome Properties LLC (owner) for a Utility-Scale Photovoltaic Ground 1-Megawatt Solar Energy System (SES) occupying approximately 6.0 acres. Parcel 38.026.0700. TBD CTY 168 BLVD, Zumbrota, MN 55992. Part of the E $\frac{1}{2}$ of the SE $\frac{1}{4}$ of Sect 26 Twp 110 R16 in Minneola Township. A3 Zoned District.

Pierret presented the staff report and attachments.

Commissioner Nesseth commented on the decommissioning language and that it seemed "lighter" than other decommissioning agreements the Commission has seen in the past. He questioned the statement regarding hazardous materials and waste not being required when solar panels are considered hazardous waste by the MPCA. He also questioned the statement material could be stored on site and removal of material "where practical".

Chuck Beisner (SolarClub 8 LLC) stated that the goal is to have no material left on site permanently but some storage of materials may occur during the decommissioning process as it is moved off site. Mr. Beisner stated that he was not aware panels were considered "hazardous". He noted they plan to recycle the panels by selling them to another user as they will be generating 80% of their capacity at the time of decommissioning. He stated that the panels would not be considered garbage as they plan to sell them.

Commissioner Nesseth commented on the bonding statement in the provided packet.

Mr. Beisner stated the statement has not been provided to the County yet as one of the conditions states it must be presented prior to issuance of the building permit.

Commissioner Nesseth questioned whether the Lomens had been provided the decommissioning agreement.

Mr. Beisner stated the Lomens had seen the agreement and a copy will be provided to the County.

Commissioner Nesseth commented on the amount of solar projects in the County and 30 years from now he doesn't want to see several abandoned projects sitting in the fields.

Commissioner Stenerson questioned whether the decommissioning agreement was just a statement or if it was an agreement with funds and specifics.

Mr. Beisner stated that the decommissioning agreement has a financial assurance specifically for this project and the owners will know the agreement is in place. He added that this is a part of the lease agreement so even if the project is sold, the decommissioning agreement is still valid.

Hanni stated that the County's position has been that decommissioning agreements are between the land owners and the contractors.

Mr. Beisner confirmed that the decommissioning agreements are in the lease agreements.

Commissioner Huneke questioned whether the two neighboring solar projects have been constructed.

Staff confirmed they have been constructed.

Commissioner Nesseth commented on the location of the arrays and that they are barely visible from the roads.

Commissioner Fox spoke on a site visit he took to the sites and the new site will be less visible than the existing two sites from the road.

Vice Chair Gale opened the Public Hearing.

Lauri Mona (17135 452nd Street Way, Zumbrota, MN) questioned whether there is a plan to continue expanding the solar sites closer to residential areas.

Commissioner Gale stated that expansion of sites is determined by the market, legislature and the capacity of the actual Xcel line in the area.

Discussion continued on the possibility of another site in this area.

Commissioner Huneke noted that any application for a solar field would come through the Planning Advisory Commission and they would look at the surrounding area and the number of solar arrays in the area before approving more.

Ms. Mona stated she was concerned with the pace of the projects because two were approved two years ago and now another is up for approval this year.

Commissioner Gale stated the pace and amount of projects is also determined by the legislature and their focus on renewable energy projects.

Commissioner Huneke stated that just because a project is approved at the Planning Commission level does not mean it will be constructed as there have been projects fall through in Goodhue County after PAC approval.

⁶After Vice Chair Gale asked three times for additional comments it was moved by Commissioner Huneke and seconded by Commissioner Miller to close the Public Hearing.

Motion carried 7:0.

It was moved by Commissioner Fox and seconded by Commissioner Huneke to:

- 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

Recommend the County Board of Commissioners **APPROVE** the request for a CUP submitted by SolarClub 8 LLC (applicant) and Lomen Properties LLC (owners) for a Utility-Scale Photovoltaic Ground 1 Megawatt Solar Energy System (SES) occupying approximately 6.0 acres. Subject to the following conditions:

- 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 SolarClub 8 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. Applicants shall communicate with Beau Kennedy, Wetlands Coordinator with the Goodhue SWCD to ensure compliance with applicable Wetlands Rules prior to

completion of any site grading/construction and/or submittal of the Building Permit Application;

- 6. A stormwater management and erosion control plan shall be submitted for administrative review as part of the Building Permit Application for the project;
- 7. Applicants shall work with the Goodhue County Soil and Water Conservation District to determine an appropriate seed mix to establish on disturbed areas of the site;
- 8. Applicants shall obtain Building Permit approvals from the Goodhue County Land Use Management Department prior to establishing the use;
- 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; and
- 11. This CUP shall expire 30 years from the date of approval unless terminated prior to that date.

Motion carried 7:0

5. Other discussion

Hanni noted that the last Public Hearing on the agenda had been withdrawn prior to the meeting.

Commissioner Gale questioned whether that project will come back in the future.

Staff noted that they would have to re-apply and Stanton Township would have to amend its ordinance for the solar project to be permitted.

Hanni mentioned that staff has been working on amending the Subdivision Ordinance and that a draft will be given to the Commissioners in November for possible action in January.

Hanni noted there is a joint meeting next month with the Board of Adjustment with an earlier start time. She added there will be some statistics presented on Planning Commission and Board of Adjustment actions this year.

Commissioner Stenerson commented on using the Conditional Use Permit process instead of Interim Use Permits for solar projects due to financing reasons. He noted that in the Ordinance Solar projects in the Shoreland area are considered an Interim Use.

⁸ADJOURN: Motion by Commissioner Huneke and seconded by Commissioner Miller to close the public hearing.

Motion carried 7:0

Respectfully Submitted,

Samantha Pierret; Zoning Assistant

¹ APPROVE the PAC meeting agenda.

Motion carried 6:0.

² APPROVE the previous month's meeting minutes.

Motion carried 6:0.

3 Recommend the County Board of Commissioners APPROVE the request to Rezone 15.23 acres

Motion carried 7:0

4 Motion to close the Public Hearing.

Motion carried 7:0

5 Recommend the County Board of Commissioners Recommend APPROVE the request for an Animal Unit expansion and construction of associated manure storage pits

6 Motion to close the Public Hearing.

Motion carried 7:0

7 Recommend the County Board of Commissioners APPROVE the request for a SES on 6.0 acres Motion carried 7:0

8 ADJOURN. Motion to adjourn the meeting at 7:58PM.



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

Z | Zoning GOODHUE COUNTY

County Surveyor / Recorder

Environmental Health | Land Surveying | GIS
Telephone: 651.385.3223

Fax: 651.385.3098

To: Planning Advisory Commission

From: Land Use Management **Meeting Date:** November 18, 2019 **Report date:** November 8, 2019

PUBLIC HEARING: Request for Map Amendment (Rezone) - Thomforde

Request for map amendment, submitted by Larry Thomforde (Buyer) and the Goodhue County Agricultural Society (Owner), to rezone 1.10 acres from A3 (Urban Fringe District) to R1 (Suburban Residence District).

Application Information:

Applicant: Larry Thomforde (Buyer) and the Goodhue County Agricultural Society (Owner)

Address of zoning request: 44279 CTY 6 BLVD, Zumbrota, MN 55992

Parcel(s): 38.025.0200

Abbreviated Legal Description: Part of the NE 1/4 of section 25 Twp 110 Range 16 in Minneola

Township

Zoning District: A3 (Urban Fringe District)

Attachments and links:

Application and submitted project summary
Site Map(s)
Project Review (Rezone)
Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Summary:

Mr. Thomforde's primary residence is located within the Sugar Loaf Estates residential plat adjacent to the subject property which is currently owned by the Goodhue County Agricultural Society. Mr. Thomforde would like to construct an accessory shed on his property to provide personal storage space. Due to the location of existing improvements as well as the physical limitations of his parcel Mr. Thomforde has negotiated a purchase agreement with the Agricultural Society to buy 1.10 acres along the eastern boundary of his parcel that would provide a flat, accessible area to construct the shed.

The property to be acquired is zoned A3 (Urban Fringe District) which requires a minimum parcel size of 35 acres. To avoid creating a new non-conforming parcel, Mr. Thomforde would be required to combine the 1.10 acres with his existing parcel. Given Mr. Thomforde's property is R1 (Suburban Residence District), he is requesting the rezone to R1 to match his property's zone to improve compatibility and prevent the creation of a split-zoned parcel. As an additional benefit, the rezone would allow him to take advantage of the reduced structure setback distances within the R1 District.

Mr. Thomforde's property is within an existing platted area and the 1.10 acres proposed to be acquired is unplatted. The only way to combine platted property with unplatted property is through the platting process. Because a rezone is needed, the Goodhue County Subdivisions Controls Ordinance requires the plat request be reviewed through the "formal" platting process. Mr. Thomforde has submitted a request for preliminary and final plat approval in conjunction with this request.

Project Summary:

Property Information:

- The subject property is currently 40.14-acres. The Applicants have a purchase agreement to split off the western 100 feet of the parcel comprising 1.10 acres.
- The property is currently accessed via CTY 6 BLVD on the east side of the property.
 Mr.Thomforde intends to utilize his existing driveway off of Sugarloaf Parkway to access the property in the future.
- The subject parcel is currently zoned A3. Adjacent zoning districts are A3 to the east, south, and west; R1 to the north (Sugarloaf Estates subdivision). The Zumbrota city limits abut the parcel's southern border. The Goodhue Pioneer State Trail also crosses along the southern border.
 - The area is characterized by primarily low-density residential uses mixed with medium-to-low intensity recreational and agricultural uses. Rezoning the 1.10 acres to R1 would not appear to have any substantial cumulative impacts to existing or potential future uses of the surrounding zoning districts.
- The property is not located within a Historic Preservation District. It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.
- The southerly portion of the property is within the Floodplain of the North Fork of the Zumbro River. Floodplain development is regulated by the Goodhue County's Zoning Ordinance and any development proposals would be required to conform to the standards in place. Mr. Thomforde's proposed future use of the property is outside of the Floodplain designated areas.
- The property is not designated shoreland and there are no mapped Bluffland areas.

Existing/Proposed Uses:

• The eastern half of the property is the site of the Goodhue County Fairgrounds which hosts a variety of community events/functions. The remainder of the property, including the portion Mr. Thomforde proposes to buy, is agricultural land. The proposed future use of the property is to construct an accessory storage shed.

Planning Information:

- The R1 District is intended to provide a district that defines and protects areas suitable for low to medium density residential development as the principal use of the land and to allow related facilities desirable for a residential environment. It is also intended that the district allows varying densities of development in accordance with the ability to provide water and sewer facilities.
- A portion of the property is currently used for row-crop agricultural purposes. There are no registered feedlots on the property or within 1,000 feet of the parcel. The new R1 District would be greater than 1,000 feet from all existing registered Feedlots (including the Goodhue County Fair barns).
 - Mr. Thomforde explored acquiring only the minimum area necessary to construct his proposed building, however, the sellers preferred to maintain a "straight" boundary line along the west line which led to the agreement to acquire the western 100 feet of the property.
- The Prime Farmland Rating for Agriculture is as follows:

Soil Name	Slope	Amount (acres)	% of Total	Prime Farmland Rating
Chelsea Loamy Sand	2-6%	0.5	45%	Not Prime Farmland
Richwood Silt Loam	1-6%	0.6	55%	Prime Farmland

• The proposed rezone appears compatible with the goals and objectives of the Goodhue County Comprehensive Plan:

"Support the establishment of rural residences to provide rural living opportunities in the unincorporated areas of Goodhue County"

Goodhue County does not have an official future land use map.

• Mr.Thomforde is proposing to combine the rezoned property with his existing parcel which contains his primary residence so no additional dwelling density would be created. If the Applicant were to propose to split the property in the future, a formal platting process would be required which would necessitate additional public review/approval.

Rezoning the parcel to R1 would not affect the existing dwelling development eligibility of surrounding A3 parcels.

City of Zumbrota:

• LUM Staff contacted the city of Zumbrota regarding the request and will update the Planning Commission with any comments received.

Staff Recommendation:

LUM Staff recommends the Planning Advisory Commission

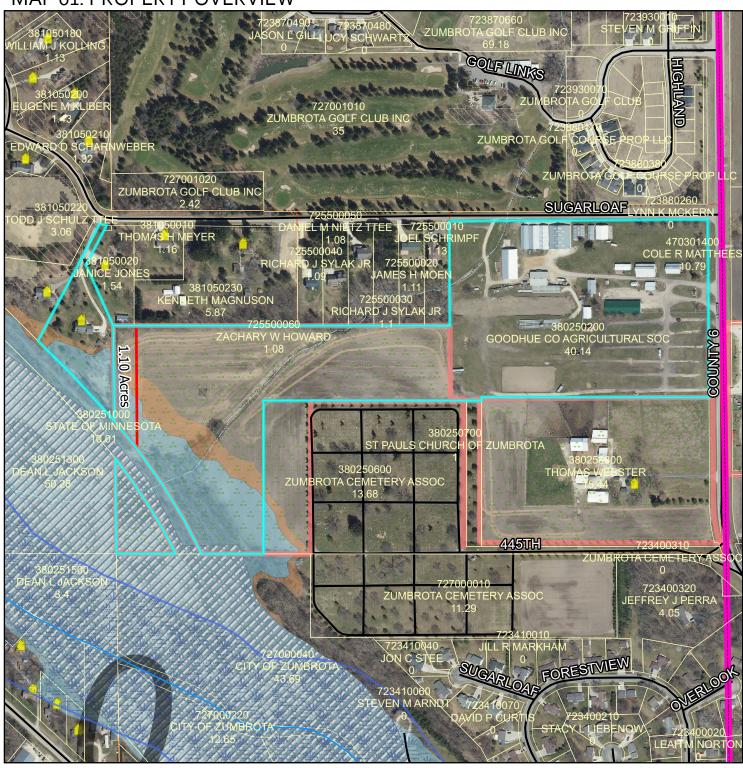
- adopt the staff report into the record;
- accept the application, testimony, exhibits, and other evidence presented into the record; and

recommend that the County Board of Commissioners **APPROVE** the map amendment request from Larry Thomforde (Buyer) and the Goodhue County Agricultural Society (Owner) to rezone 1.10 acres from A3 (Urban Fringe District) to R1 (Suburban Residence District).

Subject to the following condition:

1. The 1.10 acres to be rezoned shall be platted and combined with PID 38.105.0030

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

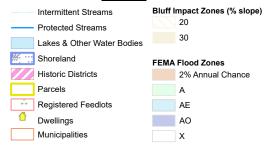
Public Hearing November 18, 2019

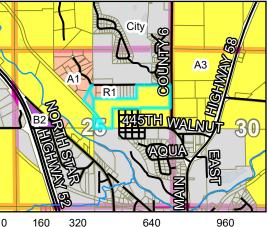
Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW ¼ and NE ¼ of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

Legend



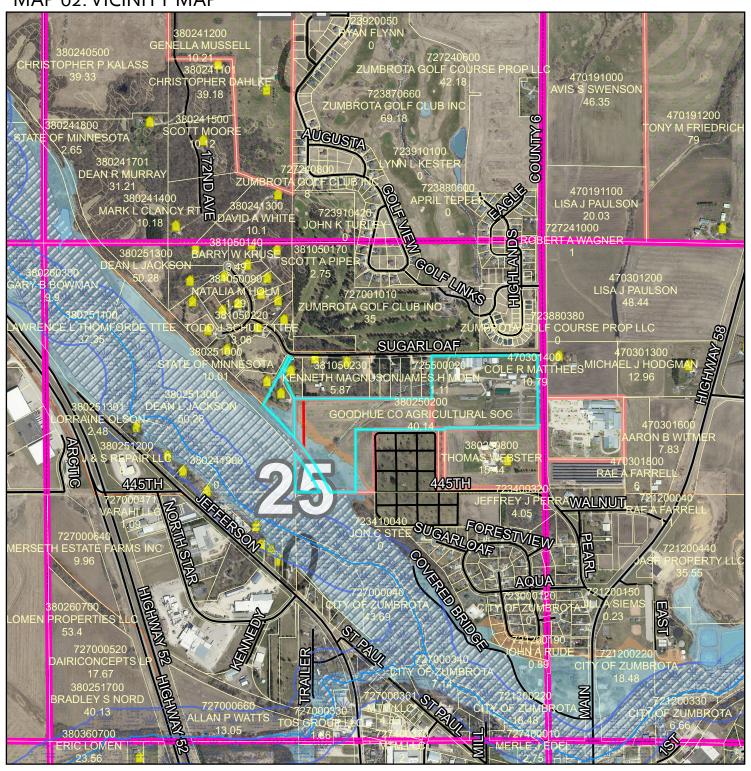


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2018 Aerial Imagery Map Created November, 2019 by LUM



MAP 02: VICINITY MAP



PLANNING COMMISSION

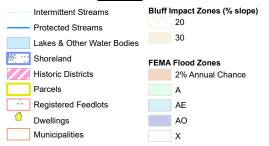
Public Hearing November 18, 2019

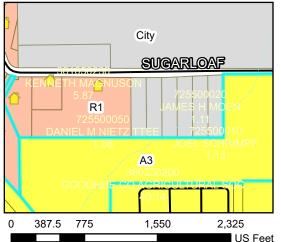
Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW ¼ and NE ¼ of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

Legend

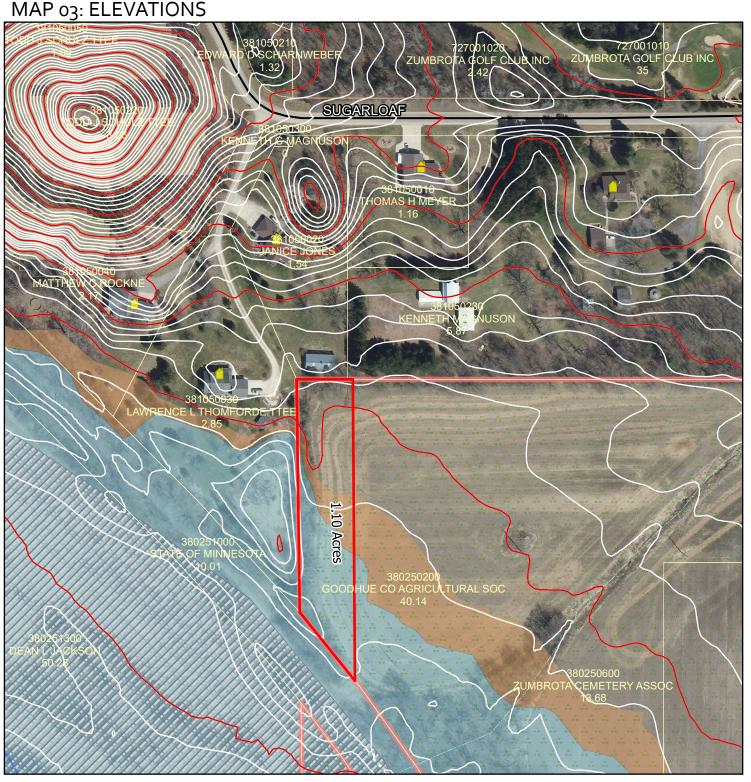




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PLANNING COMMISSION

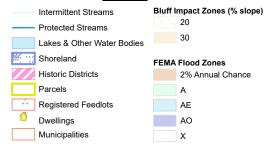
Public Hearing November 18, 2019

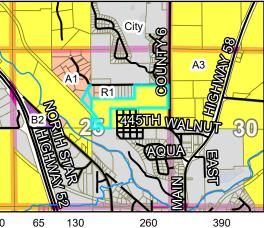
Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW 1/4 and NE 1/4 of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

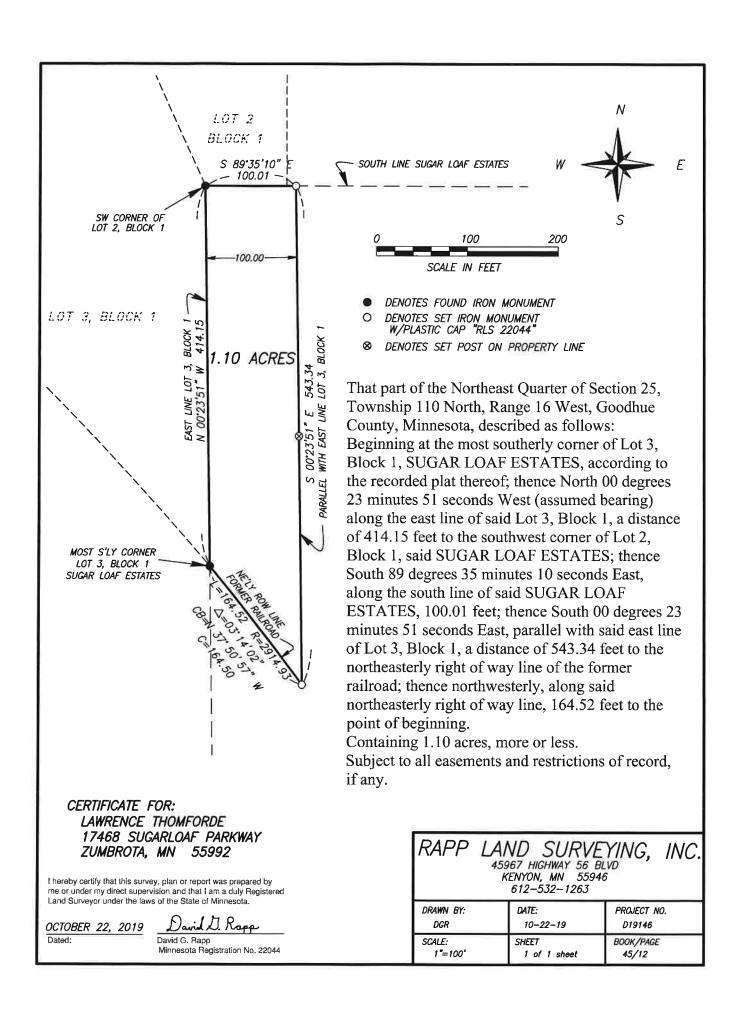
Legend





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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

Project Review per Article 3, Section 2, Subd. 5-10:

- Subd. 5 A. The names and addresses of the petitioner or petitioners and their signatures to the petition. See application
 - B. Survey information: See application
 - C. The current and proposed district: **A3 to R1**
 - D. The current use and the proposed use of the land.

The property has 2 primary existing uses including the site of the Goodhue County Fairgrounds which hosts a variety of community events/functions. The remainder of the site is agricultural land. The proposed future use of the property is to construct an accessory storage shed. Mr. Thomforde explored acquiring only the minimum area necessary to construct his proposed building, however, the sellers preferred to maintain a "straight" boundary line along the west line which led to the agreement to acquire the western 100 feet of the property.

- E. The reason for the requested change of zoning district. The applicant is requesting the zone change to allow to combine it with his existing parcel to provide a space to construct an accessory storage building.
- F. A copy of the soil map showing the soils types within the proposed boundary and the surrounding area. A soils map for the site has been prepared.
- G. Prime Farmland Rating of the soil types in F.
- The Prime Farmland Rating for Agriculture is as follows:

Soil Name	Slope	Amount (acres)	% of Total	Prime Farmland Rating
Chelsea Loamy Sand	2-6%	0.5	45%	Not Prime Farmland
Richwood Silt Loam	1-6%	0.6	55%	Prime Farmland

- H. A statement of how the requested change is compatible with the Goodhue County Comprehensive Plan including but not limited to the following:
 - 1. The environmental impacts of the proposed use of land on the:
 - a. Groundwater
 - b. natural plant and animal communities
 - c. existing trees and vegetation
 - d. Bluffland stability
 - e. shoreland stability
 - 1. The property is not designated shoreland and there are no mapped Bluffland areas. The southerly portion of the property is within the Floodplain of the North Fork of the Zumbro River. Floodplain development is regulated by the Goodhue County's Zoning Ordinance and any development proposals would be required to conform to the standards in place. Mr. Thomforde's proposed future use of the property is outside of the Floodplain designated areas.
 - 2. The compatibility with surrounding land uses
 - The area is characterized by primarily low-density residential corridor mixed with medium-to-low intensity recreational and agricultural uses. Rezoning the 1.10 acres to R1 would not appear to have any substantial negative impacts to the existing or potential future uses of the surrounding zoning districts.

3. The physical and visual impacts on any scenic or historic amenities within or surrounding the proposed parcel.

It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.

Subd. 6 The housing density of the affected Section

Mr.Thomforde is proposing to combine the rezoned property with his existing parcel which contains his primary residence so no additional dwelling density would be created. If the Applicant were to propose to split the property in the future, a formal platting process would be required which would necessitate additional public review/approval. Rezoning the parcel to R1 would not affect the existing dwelling development eligibility of surrounding A3 parcels.

Subd. 7 The impact on any surrounding agricultural uses

The property is currently used for row-crop agricultural purposes. There are no registered feedlots on the property or within 1,000 feet of the parcel. The new R1 District would be greater than 1,000 feet from all existing registered Feedlots.

Mr. Thomforde explored acquiring only the minimum area necessary to construct his proposed building, however, the sellers preferred to maintain a "straight" boundary line along the west line which led to the agreement to acquire the western 100 feet of the property.

Subd. 8 The impact on the existing transportation infrastructure

The property is currently accessed via CTY 6 BLVD on the east side of the property. Mr.Thomforde intends to utilize his existing driveway off of Sugarloaf Parkway to access the property in the future. The change of zone is not anticipated to negatively impact traffic or existing transportation infrastructure.

Subd. 9 The impact on surrounding zoning districts

The property is currently zoned A3. Adjacent zoning districts are A3 to the east, south, and west; R1 to the north (Sugarloaf Estates subdivision). The Zumbrota city limits abut the southern border of the subject parcel.

Subd. 10 A statement concerning the cumulative effect and compatibility of the requested zoning change on the affected Township and any cities located within 2 miles of the proposed parcel.

Rezoning the subject parcel to R1 does not appear to have negative cumulative effects on the immediate surrounding area or the City of Zumbrota. The area is characterized by primarily low-density residential uses mixed with medium-to-low intensity recreational and agricultural uses. Rezoning the 1.10 acres to R1 would not appear to have any substantial negative impacts to the existing or potential future uses of the surrounding zoning districts.

Subd. 11. Additional information as may be requested by the Planning Commission or zoning staff.

MAP Amendment

APPLICATION FOR

Map Amendment Applicant Information

Applicant Information	
APPLICANT OR AUTHORIZED AGENT'S NAME:	The first of the f
LAWRENCE L. Thomforde	
APPLICANT'S ADDRESS:	TELEPHONE:
17468 Sugarloaf PRWY	(507) 273 5668
Zumbrota, MN 55992	EMAIL:
	11 thomforder smail con
CONTACT FOR PROJECT INFORMATION:	
LAWRENCE Thomforbe	Same as Above
ADDRESS:	TELEPHONE:
	()
	EMAIL:
- Parcel:; Curre	ent District: Requested District: Requested District: Requested District: Requested District:
	ent District: Requested District:
Parcel: Curre	ant District: Degreeted District:
	Requested District: Requested District: Requested District: Requested District: To Combine
Stated reason for map amendment(s) requested: From the County Agricul tural Existing homesterd Proposed future use(s) of the property to be rezoned: July Ling Compatibility of the proposed zoning district with exist	Purchase land from Society - to combine Residential garage/stora
I. Stated reason for map amendment(s) requested: Front Agricultural Existing homesterd Proposed future use(s) of the property to be rezoned:	Planning Advisory Commission and the County



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
N594B	Chelsea loamy sand, 2 to 6 percent slopes	0.5	41.6%
N606B	Richwood silt loam, 1 to 6 percent slopes	0.7	58.4%
Totals for Area of Interest		1.2	100.0%

Goodhue County Land Use Management

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Lisa M. Hanni, L.S. Director

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County Surveyor / Recorder

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

To: Planning Advisory Commission

From: Land Use Management **Meeting Date:** November 18, 2019 **Report date:** November 8, 2019

PUBLIC HEARING: "Sugarloaf Estates First Addition" Preliminary/Final Plat Review

Request, submitted by Larry Thomforde (Buyer/Owner), for Preliminary and Final Plat review of the proposed Sugarloaf Estates First Addition to expand an existing parcel by approximately 1.10 acres.

Application Information:

Applicant: Larry Thomforde (Buyer/Owner)

Address of zoning request: 17468 Sugarloaf Parkway, Zumbrota, MN 55992

Parcel(s): 38.105.0030 and 38.025.0200

Abbreviated Legal Description: Lot 3 Block 1 of the Sugarloaf Estates plat located in the NW 1/4 and

NE ¼ of section 25 Twp 110 Range 16 in Minneola Township

Zoning District: R1 (Suburban Residence District)

Attachments and links:

Application and submitted project summary (excerpt of materials, full submittal available upon request)

Site Map(s)

Survey

Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Summary:

Larry Thomforde (Applicant) owns a 2.85-acre parcel within the Sugarloaf Estates subdivision in Minneola Township. He would like to construct an accessory shed on his property to provide personal storage space. Due to the location of existing improvements as well as the physical limitations of his parcel Mr. Thomforde has negotiated a purchase agreement with the Agricultural Society to buy 1.10 acres along the eastern boundary of his parcel that would provide a flat, accessible area to construct the shed.

The property to be acquired is unplatted and zoned A3 (Urban Fringe District) which requires a minimum parcel size of 35 acres. To avoid creating a new non-conforming parcel, Mr. Thomforde would be required to combine the 1.10 acres with his existing parcel. The only way to combine platted property with unplatted property is through the platting process.

Because Mr. Thomforde is also requesting to rezone the 1.10 acres from A3 to R1 in conjunction with this request, the Goodhue County Subdivisions Controls Ordinance mandates the plat request be reviewed through the "formal" platting process.

Project Summary:

Property Information:

- The 2.85-acre property consists of an existing homestead and some undeveloped woodlands/prairie. The existing dwelling is the applicant's primary residence.
- The property is zoned R1. The 1.10 acres to be acquired is currently zoned A3 but the Applicant has applied to rezone the property to R1. Adjacent zoning districts are A3 to the east, south, and west; R1 to the north (Sugarloaf Estates subdivision). The Zumbrota city limits abut the parcel's

southern border. The Goodhue Pioneer State Trail also crosses along the southern border.

- The southerly portion of the property is within the Floodplain of the North Fork of the Zumbro River. Floodplain development is regulated by the Goodhue County's Zoning Ordinance and any development proposals would be required to conform to the standards in place. Mr. Thomforde's proposed future use of the property is outside of the Floodplain designated areas.
- The property is not designated shoreland and there are no mapped Bluffland areas.
- The property is not a Registered Feedlot and the nearest Registered Feedlot is located greater than 1000 feet from the proposed plat.
- Mr.Thomforde is proposing to combine the rezoned property with his existing parcel which contains his primary residence so no additional dwelling density would be created. If the Applicant were to propose to split the property in the future, a formal platting process would be required which would necessitate additional public review/approval.

Rezoning the parcel to R1 would not affect the existing dwelling development eligibility of surrounding A3 parcels.

Access/Traffic:

 The existing dwelling is accessed off Sugarloaf Parkway to the north. No new access drives are proposed.

Water/Wastewater:

• The property currently has a single-family dwelling served by a private well and septic system. No additional sanitary facilities are needed for the plat as proposed.

Minneola Township/City of Zumbrota:

- The Minneola Township chair endorsed the application plat application on 10/17/19. No specific comments/conditions were offered.
- LUM Staff contacted the city of Zumbrota regarding the request and will update the Planning Commission with any comments received.

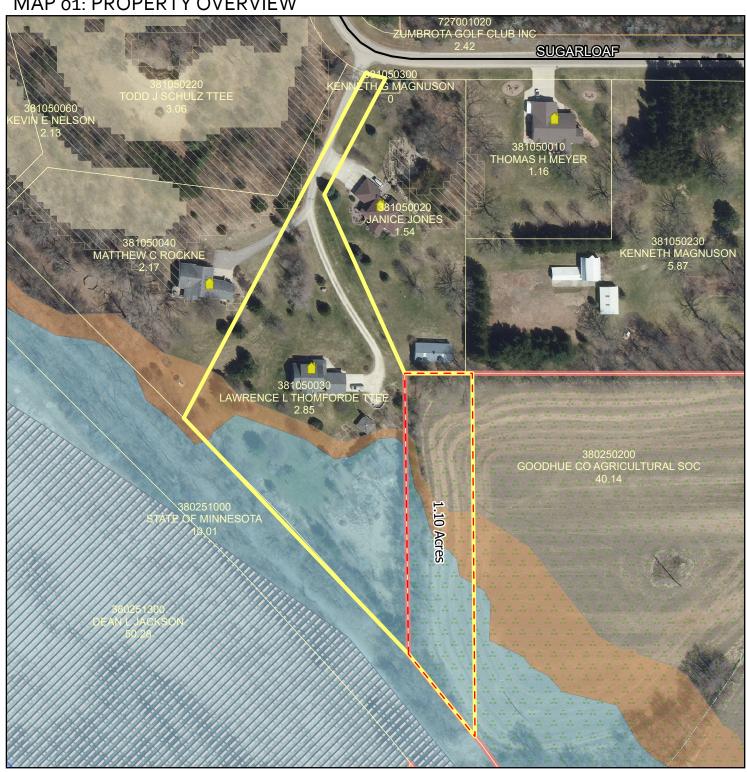
Staff Recommendation:

LUM Staff recommends the Planning Advisory Commission

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

Recommend that the County Board of Commissioners **APPROVE** the request submitted by Larry Thomforde (Buyer/Owner) for Preliminary and Final Plat approval of the proposed Sugarloaf Estates First Addition.

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

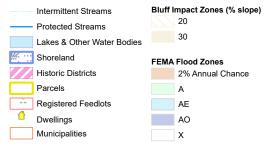
Public Hearing November 18, 2019

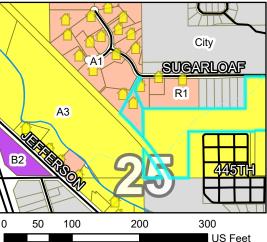
Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW 1/4 and NE 1/4 of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

Legend

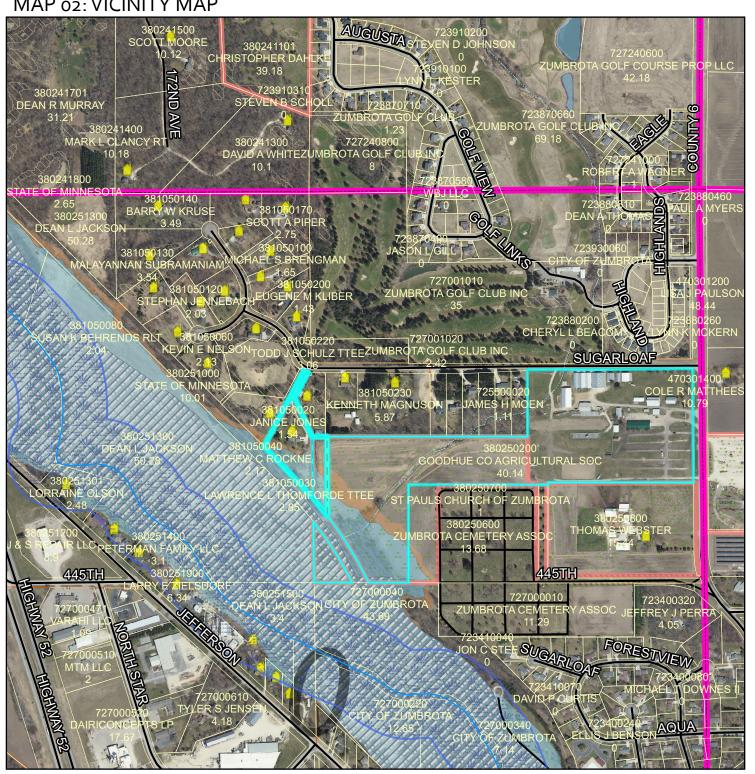




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MAP 02: VICINITY MAP



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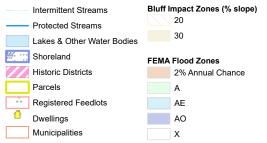
Public Hearing November 18, 2019

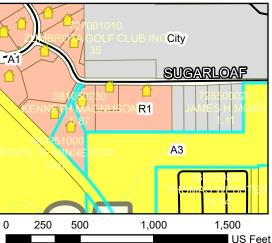
Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW 1/4 and NE 1/4 of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

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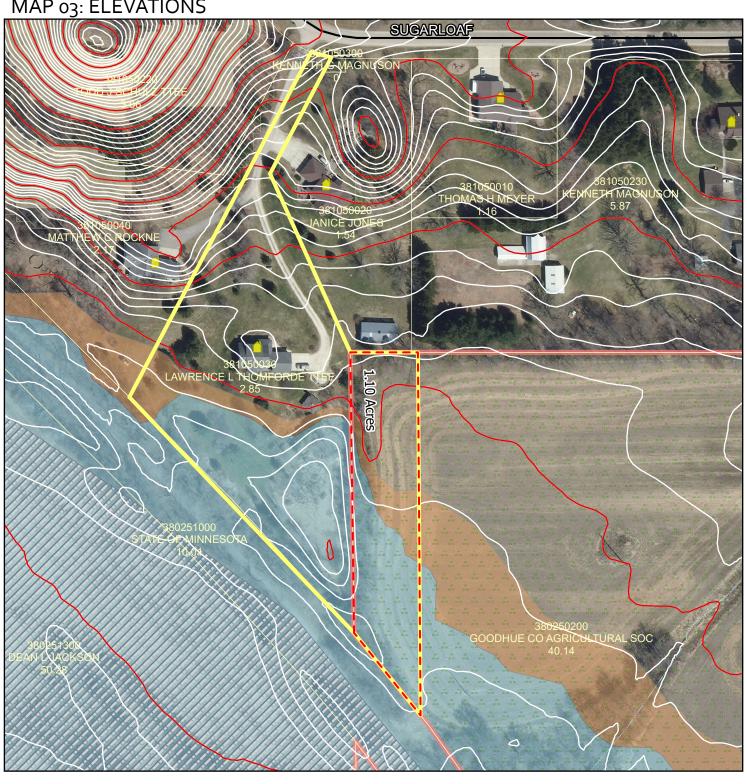


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MAP 03: ELEVATIONS



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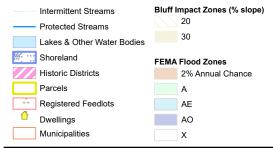
Public Hearing November 18, 2019

Larry Thomforde R1 & A3 Zoned District

Lot 3 Block 1 of the Sugar Loaf Estates plat located in NW 1/4 and NE 1/4 of S25 T110 R16 in Minneola Township.

Request to rezone 1.10 acres from A3 to R1 and Preliminary and Final Plat review to combine with existing platted property

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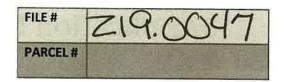




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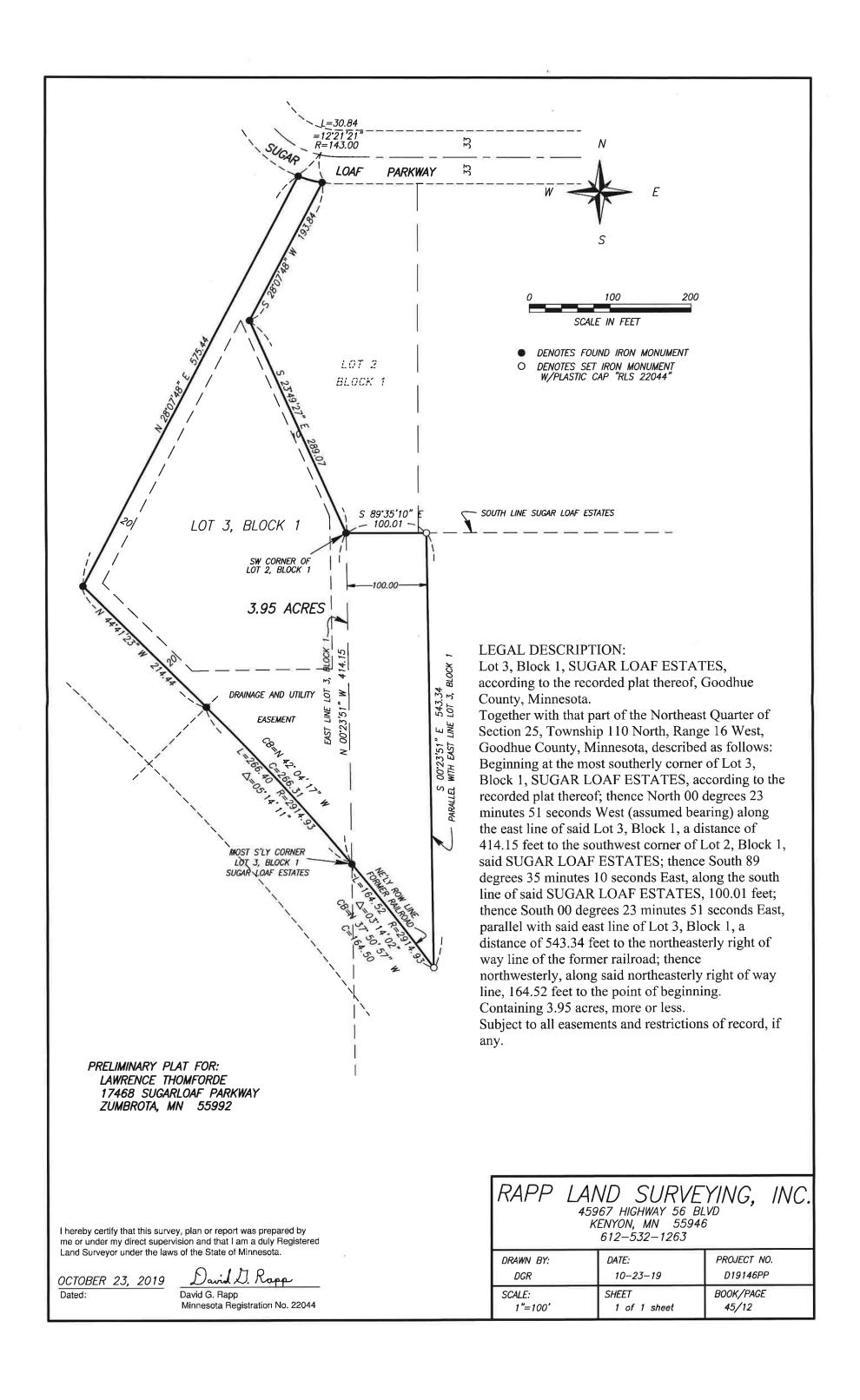


505 Plat Application

A. A Minnesota Statue Chapter 505 plat* is required under the following circumstances:

- 1) The creation of three or more tax parcels from one tax parcel, except when the tax parcels created can be described by an aliquot part of the Public Land Survey. The minimum division shall be a Quarter Quarter of the Section (i.e. SE ¼ of the NW ¼). Non-contiguous land must be separate tax parcels. The parcels shown on the plat provide for road access for each new division or reconfiguration of land;
- 2) If a subdivision of a platted lot or outlot can result in one or more potential dwelling sites, the subdivision must be platted.
- *Requires approval and public hearings from the Planning Commission and County Board

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Daytime Phone	11100	0442	L (OH)	1249		MB1014, 11110 55773
	Applicant	Inform	ation (i	f differen	t than a	above)
Applicant Name					Email	
Mailing Address					-	
Daytime Phone						
		Town	ship Inf	ormatio	n	
Township position	Chai				Date	10/17/2019
Signature	Bil	4 1	She 1			,
			County	Use		
Application Fee	\$350	Receipt Number	170	ILX		eceived ID 25-19
Initial Reviewed by						100011
Plat Name						
Request complies with Go	odhue Cour	nty Zonin	g and Sul	odivision r	equirem	eņts as attested by me
			the Good	lhue Coun	ty Plann	er/Zoning Administrator on
this day			92			



Goodhue County Land Use Management

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County Surveyor / Recorder

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

To: Planning Advisory Commission

From: Land Use Management Meeting Date: November 18, 2019 Report date: November 8, 2019

PUBLIC HEARING: Request for Map Amendment (Rezone) - Brunner

Request for map amendment, submitted by Jason Krueger (Buyer) and Mark Braaten (Owner), to rezone 5.0 acres from A3 (Urban Fringe District) to R1 (Suburban Residence District).

Application Information:

Applicant: Jason Krueger (Buyer) and Mark Braaten (Owner)

Address of zoning request: 16632 515th Street, Pine Island, MN 55963

Parcel(s): 40.035.2200

Abbreviated Legal Description: Part of the W ¼ of the E ½ of the NW ¼ of the SE ¼ of Sect 35 Twp

109 Range 16 in Roscoe Township.

Township Information: Roscoe Township signed the application November 5, 2019 with the note

that "The Supervisors reviewed the application. Approval is up to the County,"

Zoning District: A3 (Urban Fringe District)

Attachments and links:

Application and submitted project summary Site Map(s) and Survey Project Review

Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Summary:

The Applicant intends to purchase a single parcel comprising 5.0 acres in section 35 of Pine Island Township. The Applicant is requesting to rezone the parcel from A3 (Urban Fringe District) to R1 (Suburban Residence District) to allow a dwelling to be constructed on the parcel.

The parcel is currently not eligible as a dwelling site as the minimum parcel size for property in the A3 district is 35 acres.

New R1 districts are required to be a minimum of 1,000 feet from registered Feedlots. There is an existing registered Feedlot owned by Lee Schaefer located approximately 750 feet northwest of the subject parcel. Mr. Krueger has applied for a variance to the Feedlot setback requirement and his request is scheduled to be considered by the Goodhue County Board of Adjustment on November 18, 2019. A variance would need to be approved before an R1 zone change could be approved by the County Board.

Project Summary:

Property Information:

- The subject property consists of a single parcel comprising 5.0 acres. A .10 acre portion of the parcel is located across 515th Street from the larger portion of the property.
- Driveway access is located off of 515th Street on the north side of the property.
- The property is currently zoned A3. Adjacent zoning districts are all A3. The property is located approximately 1.3 miles from the City limits of Pine Island.

- Surrounding land uses include a mix of undeveloped agricultural lands and medium density dwellings on parcels less than 35-acres. There are 8 dwellings within ¼ mile of the proposed dwelling site. Six of the dwelling sites are located on parcels less than 35-acres in area. As previously stated, a variance would need to be approved before an R1 zone change could be approved by the County Board to address Feedlot setback standards to new R1 districts.
- The property is not located within a Historic Preservation District. It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.
- The parcel is not designated Shoreland or Floodplain. There are some steeper slopes (approximately 25%) along the southern portion of the property. This area is considered a minor Bluffland area. Care should be taken during any future development of the site to prevent erosion and contain runoff during any construction. The Applicant has stated he does not plan to construct the dwelling in the Bluffland area.

Existing/Proposed Uses:

The property currently has a dilapidated mobile home on the property, however this parcel has never been used as a permanent dwelling site. The Applicant intends to construct a single family dwelling on this parcel and remove the mobile home from the property. An associated well and septic system would be installed in correlation with the project.

Planning Information:

- The R1 District is intended to provide a district that defines and protects areas suitable for low to medium density residential development as the principal use of the land and to allow related facilities desirable for a residential environment. It is also intended that the district allows varying densities of development in accordance with the ability to provide water and sewer facilities.
- The property is not currently used for agricultural purposes. The Prime Farmland Rating for Agriculture is as follows:

Soil Name	Slope	Amount (acres)	% of Total	Prime Farmland Rating
Fayette-Hersey, Bedrock	18-25%	1	22.30%	Not prime farmland
Downs-Hersey, Bedrock	6-12%	1.4	29.30%	Farmland of statewide importance
Downs-Hersey, Bedrock	12-18%	0.5	11.40%	Not prime farmland
Barremills Silt Loam	1-5%	0.7	15.50%	Prime Farmland
Schapville Silt Loam	18-35%	1	21.30%	Not Prime Farmland

• The proposed rezone appears compatible with the goals and objectives of the Goodhue County Comprehensive Plan:

"Support the establishment of rural residences to provide rural living opportunities in the unincorporated areas of Goodhue County"

Goodhue County does not have a future land use map.

Section 35 is all zoned A3. A3 Districts allow a maximum of one dwelling per 35 acres. There are currently 13 dwellings within the Section. Of the 13 dwellings, 11 are on parcels less than 35 acres in area. Rezoning the parcel to R1 would not affect the existing dwelling development eligibility of surrounding A3 parcels as they are not based on section density.

Roscoe Township:

 Roscoe Township discussed the proposal with LUM staff and signed the rezoning application noting that the Supervisors reviewed the application and final approval is up to the County.

The Planning Commission and County Board will need to determine whether the proposed rezone will be detrimental to future annexation efforts of the City of Pine Island. It should be noted that this is the second section zoned A3 west of the City of Pine Island. LUM staff are not aware of any immediate plans to annex land in this area.

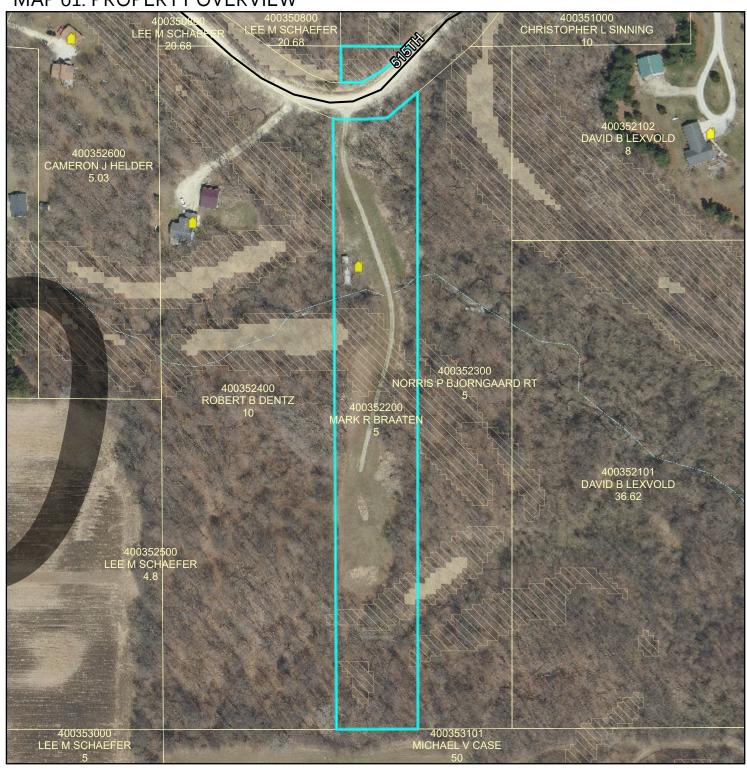
Staff Recommendation:

LUM Staff recommends the Planning Advisory Commission

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

recommend that the County Board of Commissioners **APPROVE** the map amendment request from Jason Krueger (Buyer) and Mark Braaten (Owner) to rezone parcel 40.035.2200 from A3 (Urban Fringe District) to R1 (Suburban Residence District).

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

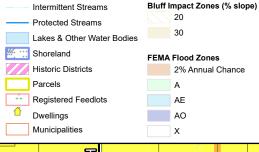
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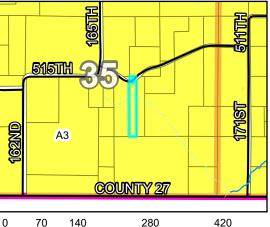
Jason Krueger (Buyer) & Mark Braaten (Owner) A3 Zoned District

Parcel 40.035.2200
Part of W 1/4 of E 1/2 of NW 1/4 of SE 1/4 of Sect 35 TWP 109 R16 in Roscoe Township

Request to rezone 5.0 acres from A3 to R1

Legend treams



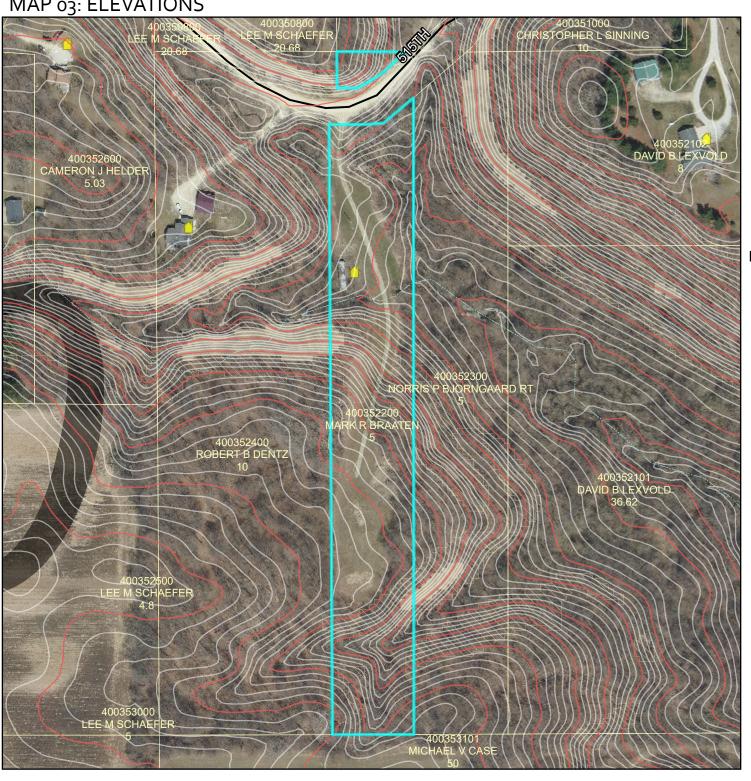


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MAP 03: ELEVATIONS



PLANNING COMMISSION

Public Hearing November 18, 2019

Jason Krueger (Buyer) & Mark Braaten (Owner) A3 Zoned District

Parcel 40.035.2200 Part of W 1/4 of E 1/2 of NW 1/4 of SE 1/4 of Sect 35 TWP 109 R16 in Roscoe Township

Request to rezone 5.0 acres from A3 to R1

Legend Bluff Impact Zones (% slope) Intermittent Streams Protected Streams Lakes & Other Water Bodies Shoreland **FEMA Flood Zones** Historic Districts 2% Annual Chance Parcels Registered Feedlots ΑE Dwellings AO Municipalities Χ 515TH **9 171ST** 162ND

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COUNTY 27

280

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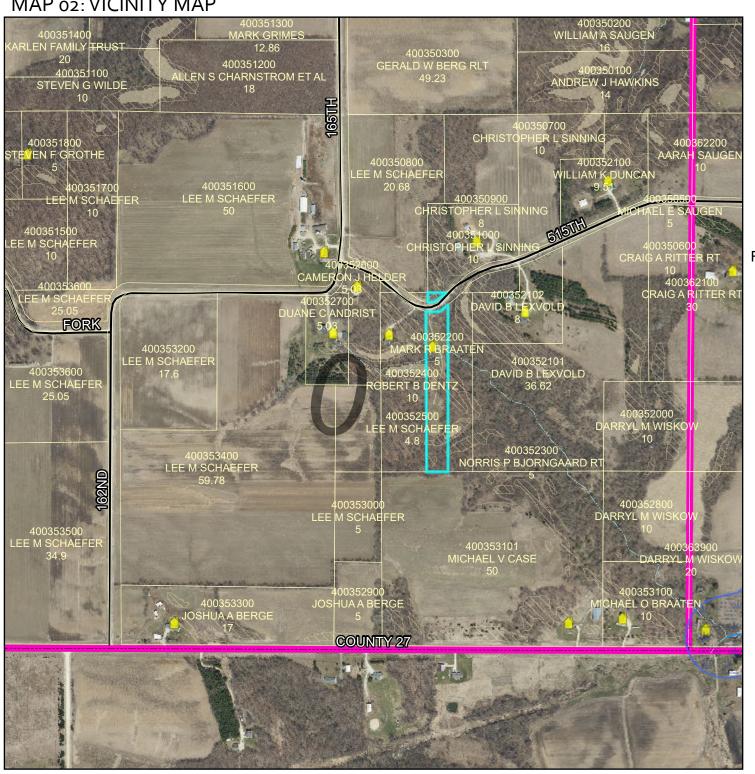
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A3

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MAP 02: VICINITY MAP



PLANNING COMMISSION

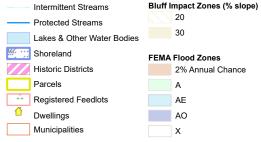
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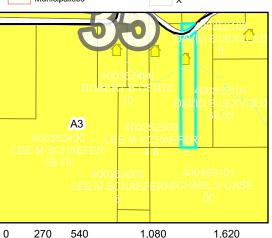
Jason Krueger (Buyer) & Mark Braaten (Owner) A3 Zoned District

Parcel 40.035.2200 Part of W 1/4 of E 1/2 of NW 1/4 of SE 1/4 of Sect 35 TWP 109 R16 in Roscoe Township

Request to rezone 5.0 acres from A3 to R1

Legend





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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
N537E2	Fayette-Hersey, bedrock substratum, complex, 18 to 25 percent slopes, moderately eroded	1.0	22.3%		
N538C2	Waubeek and Massbach soils, 6 to 12 percent slopes, moderately eroded	0.0	0.0%		
N572C2	Downs-Hersey, bedrock substratum, complex, 6 to 12 percent slopes, moderately eroded	1.4	29.3%		
N572D2	Downs-Hersey, bedrock substratum, complex, 12 to 18 percent slopes, moderately eroded		11.4%		
N578B	Barremills silt loam, drainageway, 1 to 5 percent slopes, occasionally flooded	0.7	15.5%		
N597C2	Waucoma-Winneshiek complex, 6 to 12 percent slopes, moderately eroded	0.0	0.0%		
N631E	Schapville silt loam, 18 to 35 percent slopes	1.0	21.3%		
Totals for Area of Interest		4.6	100.0%		

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

1 011 00110001

Project Review per Article 3, Section 2, Subd. 5-10:

- Subd. 5 A. The names and addresses of the petitioner or petitioners and their signatures to the petition. **See application**
 - B. Survey information: See application
 - C. The current and proposed district: A3 to R1
 - D. The current use and the proposed use of the land.

The property currently has a dilapidated mobile home which the County has never classified as a permanent residence. The Applicant proposes to remove this unit and construct a single family dwelling on the parcel.

- E. The reason for the requested change of zoning district. The applicant is requesting the zone change to allow a single family dwelling to be constructed on a lot less than 35-acres in area.
- F. A copy of the soil map showing the soils types within the proposed boundary and the surrounding area. **A soils map for the site has been prepared.**
- G. Prime Farmland Rating of the soil types in F.
- The Prime Farmland Rating for Agriculture is as follows:

		Amount	% of	
Soil Name	Slope	(acres)	Total	Prime Farmland Rating
Fayette-Hersey, Bedrock	18-25%	1	22.30%	Not prime farmland
Downs-Hersey, Bedrock	6-12%	1.4	29.30%	Farmland of statewide importance
Downs-Hersey, Bedrock	12-18%	0.5	11.40%	Not prime farmland
Barremills Silt Loam	1-5%	0.7	15.50%	Prime Farmland
Schapville Silt Loam	18-35%	1	21.30%	Not Prime Farmland

- H. A statement of how the requested change is compatible with the Goodhue County Comprehensive Plan including but not limited to the following:
 - 1. The environmental impacts of the proposed use of land on the:
 - a. Groundwater
 - b. natural plant and animal communities
 - c. existing trees and vegetation
 - d. Bluffland stability
 - e.shoreland stability
 - 1. The property is not designated Shoreland or Floodplain. There are some steeper slopes (approximately 25%) along the southern portion of the property. This area is considered a minor Bluffland area. Care should be taken during any future development of the site to prevent erosion and contain runoff during any construction. The Applicant has stated he does not plan to construct the dwelling in the Bluffland area. There will be minimal impacts to existing trees and vegetation.
 - 2. The compatibility with surrounding land uses
 - The area is characterized by primarily low-density residential with agricultural uses. Rezoning the 5.0 acres to R1 would not appear to have any substantial negative impacts to the existing or potential future uses of the surrounding zoning districts. There is an existing Feedlot within 1000 feet of the property. A variance has been applied for to allow the rezoning and construction of a dwelling within 1000 feet of a Feedlot.

3. The physical and visual impacts on any scenic or historic amenities within or surrounding the proposed parcel.

It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.

Subd. 6 The housing density of the affected Section

The Applicant is proposing to construct one dwelling on the parcel. The A3 Zoning District allows new dwellings on parcels 35 acres or larger. If the Applicant were to propose to split the property in the future, a formal platting process would be required which would necessitate additional public review/approval. Rezoning the parcel to R1 would not affect the existing dwelling development eligibility of surrounding A3 parcels.

Subd. 7 The impact on any surrounding agricultural uses

The property is not currently used for agricultural purposes. There is one registered Feedlot within 1000 feet of the parcel. A variance has been applied for to allow the rezone and a new dwelling within 1000 feet of a registered Feedlot.

Subd. 8 The impact on the existing transportation infrastructure

The property is currently accessed via 515th Street on the north side of the property. The Applicant intends to utilize this existing driveway to access the property. The change of zone is not anticipated to negatively impact traffic or existing transportation infrastructure.

Subd. 9 The impact on surrounding zoning districts

The property is currently zoned A3. Adjacent zoning districts are all A3. The City of Pine Island is located approximately 1.3 miles from the property.

Subd. 10 A statement concerning the cumulative effect and compatibility of the requested zoning change on the affected Township and any cities located within 2 miles of the proposed parcel.

Rezoning the subject parcel to R1 does not appear to have negative cumulative effects on the immediate surrounding area or the City of Pine Island. The area is characterized by primarily low-density residential uses mixed with agricultural uses. Rezoning the 5.0 acres to R1 would not appear to have any substantial negative impacts to the existing or potential future uses of the surrounding zoning districts. The City of Pine Island is located 1.3 miles from the parcel. LUM Staff is not aware of any immediate plans for annexation of this area into the City. It should be noted this is the second section zoned A3 west of the City limits.

Subd. 11. Additional information as may be requested by the Planning Commission or zoning staff.

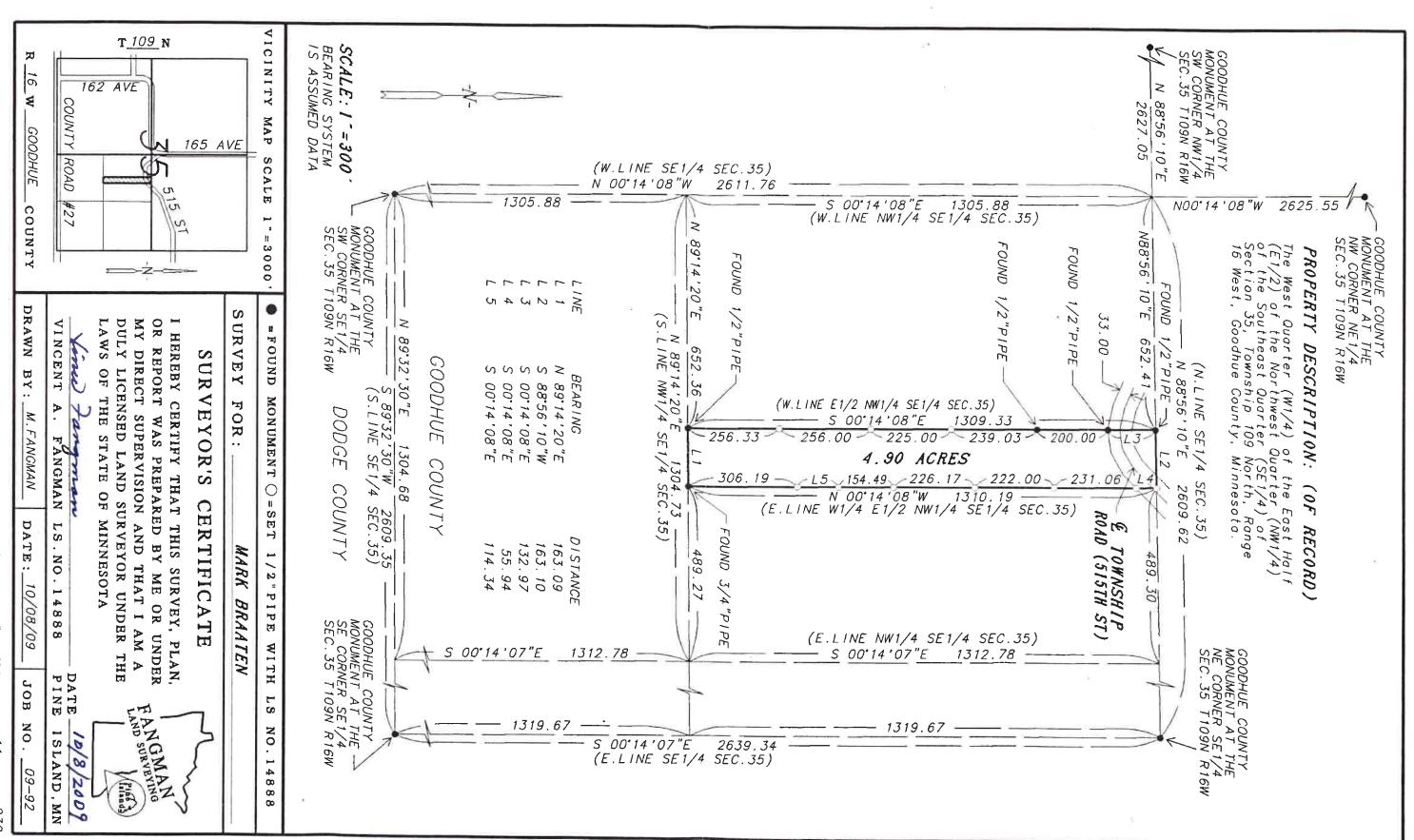
GOODHUE COUNTY ZONING DISTRICT CHANGE APPLICATION

Parcel # <u>L 40.085, 27</u> 0	0		Permit #
PROPERTY OWNER INFOR	MATION		
Last Name Bracker	First	Mark	M.I. R Date of Birth 7/12/66
Street Address 51499 City Pine Island	State N Zi	Attach Leg	Phone al Description as Exhibit "A"
Mailing Address of Landowner: Mailing Address of Agent	51499 176 h A.	Phone - f	1
PROJECT INFORMATION	1040 7" Ave	Sw. Pm Islan	V MN
Site Address (if different than about Lot Size Sacves Existing Zone A 3	Structure Dimensions (if ap	plicable) A 1 / A	and
Existing Loric Annual Control	Proposed Zone		
Existing Use			
Proposed Use: Resider	nce - Builda	ble site	
DISCLAIMER AND PROPER	TY OWNER SIGNATURE		
acknowledge that this application is	is rendered invalid and void sh curate or untrue. I hereby give	ould the County determine H	ement Department is accurate and true. I nat information supplied by me, the applicant mentioned agent to represent me and my
Signature of Landowner Signature of Agent Authorized by A	man RAC) <u>-</u>	Date 10/25/19
TOWNSHIP INFORMATION	The second secon	Permit Attached?	no please have township complete below:
By signing this form, the Towns this application indicate the Tow	ship acknowledges being m	ade aware of the request	stated above. In no way does signing
Signature Suran Rei	~, ^T	itle Clerk	Date [1 5 2019
county.			roval is up to the
COUNTY SECTION COU!	NTY FEE \$500 I	RECEIPT # DA	TE PAID
Applicant requests a variance from a What is the formal wording of the re		division of the Goodhue	County Zoning Ordinance
Shoreland Lake/Stream N	ame	Zonin	a District
	ate of Public Hearing		
Action Taken:Approve	_ Deny Conditions:		

GOODHUE COUNTY ZONING DISTRICT CHANGE APPLICATION

APPLICANT FINDINGS OF FACT AND SUPPORTING INFORMATION REGARDING ZONING DISTRICT CHANGE APPLICATION

1.	How does the requested change compatible with the Goodhue County Comprehensive Plan?
	The Goodhue County Comprehensive Plan allowed rural
_	duellings where appropriate
2.	What is the cumulative effect of the requested zoning change on the affected Township and any cities located within 2 miles of the proposed parcel?
_	No effect on the Township. The Township is
_	considering the request
3.	Is the zoning change compatible with the affected Township and any cities located within 2 miles of the proposed parcel?
_	It & compatible



FANGMAN FILE NO. BK. 11 PG. 23

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:** November 18, 2019 **Report date:** November 8, 2019

<u>PUBLIC HEARING: CUP Request for Feedlot Expansion and Liquid Manure Storage Exceeding 500,000 Gallons (Buck)</u>

Request for CUP amendment, submitted by David & Ann Buck (Owner/Operators), for an estimated 777 Animal Unit expansion of an existing 998 Animal Unit dairy Feedlot and construction of animal waste storage pit exceeding 500,000 gallons.

Application Information:

Applicant: David & Ann Buck (Owner/Operators)

Address of zoning request: 37298 180th Ave, Goodhue, MN 55027

Parcel(s): 33.019.0400

Abbreviated Legal: NW 1/4 of Sect 19 Twp 111 Range 15 in Goodhue Township

Zoning District: A1 (Agriculture Protection District)

Attachments and links:

Application and project summary (excerpt of submitted materials; full submittal upon request)

Site Map(s)

Existing CUP: 02-C007

Feedlot Officer Review and Odor OFFSET calculations (Kelsey Petit)

Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Background:

The Applicants have an existing Feedlot registration and Conditional Use Permit (CUP) to raise dairy cattle on their multigenerational family farm. They are requesting to amend their existing CUP (02-C007) to improve operational efficiency by increasing their overall number of cattle and expanding manure storage capacity. The proposal is to construct a 240ft x 310ft dairy barn to provide space for an additional 540 head of cattle that, if approved, would expand the operation to an aggregate total of 1,775 Animal Units.

The Applicants are also proposing to construct a 480ft x 412ft above-grade liquid manure storage basin that would add an additional 23 million gallons of manure storage capacity to the operation.

The Goodhue County Zoning Ordinance (GCZO) requires CUP approval for all Feedlots exceeding 500 Animal Units in the A1 District and any animal waste storage pits exceeding 500,000 gallons.

The Applicants are concurrently pursuing variance approval from the Goodhue County Board of Adjustment to allow the proposed expansion to be constructed within the 91% odor OFFSET setback area. The variance is scheduled for consideration on 11/18/19.

Goodhue County Zoning Ordinance: Article 4 Conditional/Interim Uses

No CUP/IUP shall be recommended by the County Planning Commission unless said Commission specifies facts in their findings for each case which establish the proposed CUP/IUP will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, will not substantially diminish and impair property values within the immediate vicinity, will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area, that adequate measures have been, or will be, taken to provide utilities, access roads, drainage and

other necessary facilities, to provide sufficient off-street parking and loading space, to control offensive odor, fumes, dust, noise and vibration so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

Project Summary:

Property Information:

- The 146-acre (approximate) property includes a dwelling, a registered feedlot, and tilled cropland.
- The parcel and all adjacent properties are zoned A1. Surrounding land uses are primarily agricultural (feedlots and row-crop agriculture). The immediate area has very-low density residential uses.
- Site access is via a "U-shaped" crushed aggregate driveway located off 180th Ave (crushed aggregate road) on the west side of the property. Emergency vehicle access appears adequate to service the property.

Feedlot Facilities:

• The Applicants are proposing to construct a 240ft x 310ft dairy barn. There are 7 existing cattle barns that were permitted with the previous CUP approvals. Additional facilities include feed and grain storage silos, bunkers, and bins, and multiple machinery storage/repair buildings.

Animal Units/Setbacks:

• The Applicants are proposing to add 540 head of dairy cattle producing a total of 1,775 Animal Units as shown below (new Animal Units shown in red).

Animal Type	A.U. Factor	# of Animals	Animal Units
One mature cow (whether milked or dry)			
over 1,000 lbs.	1.4	675 1230	945 1722
under 1,000 lbs.	1.0		
one Heifer	0.7	30	21
one Calf	0.2	160	32

Total Animal Units 998 1775

 New construction on existing Feedlots is required to meet a 91% Odor Annoyance-Free Rating distance (as determined by the Odor OFFSET Evaluation Model) to existing dwellings. A 1,825foot minimum setback was calculated for the expansion.

There are two dwellings located within the 1,825-foot setback area for the proposed expansion, both of which are occupied by family members of the dairy operation. David J. Buck's dwelling is located approximately 1,550 feet west of the proposed feedlot expansion. Ann Buck's dwelling is located approximately 1,450 feet southwest of the proposed feedlot expansion.

The nearest dwellings not owned by family members related to the operation are more than 3,000 feet from the expansion.

The Applicants have requested a variance to the 91% Odor Annoyance-Free Rating distance requirement which is scheduled for consideration on 11/18/19.

- The Feedlot expansion is 1.25 miles northwest of the City of Goodhue. The city of Goodhue does not require a 99% Odor Annoyance-Free Rating distance for new construction on existing feedlots as other municipalities in the County do.
- There are currently 4 dwellings located in section 19. As an A1 zone, a maximum of 4 dwellings are allowed in the section so there is no more dwelling density available in the section. The sections to the north, east, and south are also "full" A1 zoned sections. New dwellings cannot be located within 1,000-feet or 94% Odor Annoyance-Free Rating distance (as determined by the Odor OFFSET Evaluation Model) to existing Feedlots operations.
- The proposed Feedlot expansion is sited to comply with all other setback standards of the GCZO
 including property lines, wells, septic systems, Shoreland, Floodplains, sinkholes, and Blufflands.

The site is not located within an abandoned quarry.

Drainage/Landscaping:

- The site has relatively limited topographic relief with slopes ranging from 2-6% in the project areas. The landscape drains generally towards the northeast following field drainage ways.
- An NPDES Stormwater Pollution Prevention Plan (SWPPP) will be required for the project. Under the NPDES permit, the facility will be required to comply with the federal effluent limitations, which includes providing containment of all manure, litter, and process wastewater for up to a 25-year, 24-hour rainfall event.
- Goodhue County Soil and Water Conservation District Technician/Water Planner Beau Kennedy reviewed the Applicant's submittal and the following is a summary of his comments:

The NWI map shows that a wetland may be present on the north end of the Buck farmyard. I do not think the boundary is accurate, but the bottom of the waterway may have wetland characteristics present. The Wetland Conservation Act of MN regulates the filling/draining/excavating of wetlands in the state. I do not see the proposed new manure pit impacting wetlands as presented. Goodhue County does not impose any wetland setback for buildings/fill etc. However, if plans change and the waterway areas will be impacted with fill, we should determine this ahead of time so we can take care of any necessary wetland permits if needed.

Stormwater runoff from the building roofs, and open lot areas should be retained in an effort to reduce the peak flows from leaving the site. I have not done any calculations on the volumes required to hold back the regulated amount of stormwater from a rain event, their engineers will have to run the numbers to see if there is enough storage that could be captured here and size the drainage pipe accordingly. Like all sites with a lot of grading, typical erosion BMPs would be needed (a SWPPP plan, silt fence locations, temp/perm erosion and sediment control measures, etc).

Nutrient/Waste Management:

The applicants have an existing 3 million gallon above-grade manure liquid manure storage basin. They are proposing to construct a second above grade manure pit with a storage capacity of up to 23 million gallons creating 26 million gallons of total manure storage capacity. The Applicants currently have approximately 90 days of storage capacity. The manure storage expansion will allow them to have more than 1 year of manure storage capacity for the operation improving the ability of the operation to have more flexibility in determining when to land apply manure.

The new storage pit will be subject to MPCA inspection throughout the construction process to ensure structural integrity and conformance with approved engineered plans. The manure storage areas and barn are being designed by MSA Professional Services, a licensed engineering firm.

- The Applicants have an existing manure management plan that will be updated to address the expansion. As a state-level Feedlot permit, the Nutrient Management Plan review will be conducted by the MPCA.
- An Emergency Response Plan is required as part of an NPDES permit submittal.
- An Animal Mortality Plan will be completed with the Applicants NPDES permit. Additional information will be available at the Public Hearing from MSA.

MPCA (Minnesota Pollution Control Agency) Review:

- The MPCA has determined the adjacent registered Feedlot (Ann Buck; PID 25.024.0401) is under common ownership meeting the state definition for "multiple sites." When combined, the two sites exceed the 1,000 Animal Unit threshold and therefore are an MPCA NPDES permit is required.
- The MPCA NPDES permit review process is not currently complete.

County Feedlot Officer Comments:

Goodhue County Feedlot Office Kelsey Petit reviewed the Application. She noted the registration,

permitting, and inspections will be primarily handled by the MPCA but the county will maintain a Feedlot registration for the facility until the individual parcel exceeds the county permit threshold as required by County Ordinance.

Township Information:

 Goodhue Township endorsed acknowledgement of the request. No specific comments or conditions were noted on the application.

Draft Findings of Fact:

The following staff findings shall be amended to reflect concerns conveyed during the PAC meeting and public hearing.

- 1. The proposed Feedlot and manure storage expansion 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 in the immediate vicinity. The use is located in an A1 (Agriculture Protection District) zone which was intended to allow for large-scale farming operations. There is also very low residential density in the surrounding area which limits the potential for future land-use conflicts. The proposal appears harmonious with the established uses in the vicinity which include primarily cropland and animal agriculture operations.
- 2. The Feedlot expansion and liquid manure storage pits are not anticipated to impede the normal and orderly development or improvement of surrounding vacant property for uses predominant to the area. The proposal meets or exceeds all setback and development standards of the Goodhue County Zoning Ordinance and appears compatible with adjacent land uses.
- 3. A review of the applicants submitted project summary indicates adequate utilities, access roads, drainage, and other necessary facilities are available to accommodate the proposed use.
- 4. 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.
- 5. The submitted plans detail adequate measures to prevent or control offensive odor, fumes, dust, noise, and vibration so that none of these will constitute a nuisance. The applicant's plans also appear capable of controlling lights in such a manner that no disturbance to neighboring properties will result.

Staff recommendation is based on the review of the submitted application and project area prior to the public hearing.

Staff Recommendation:

LUM Staff recommends the Planning Advisory Commission

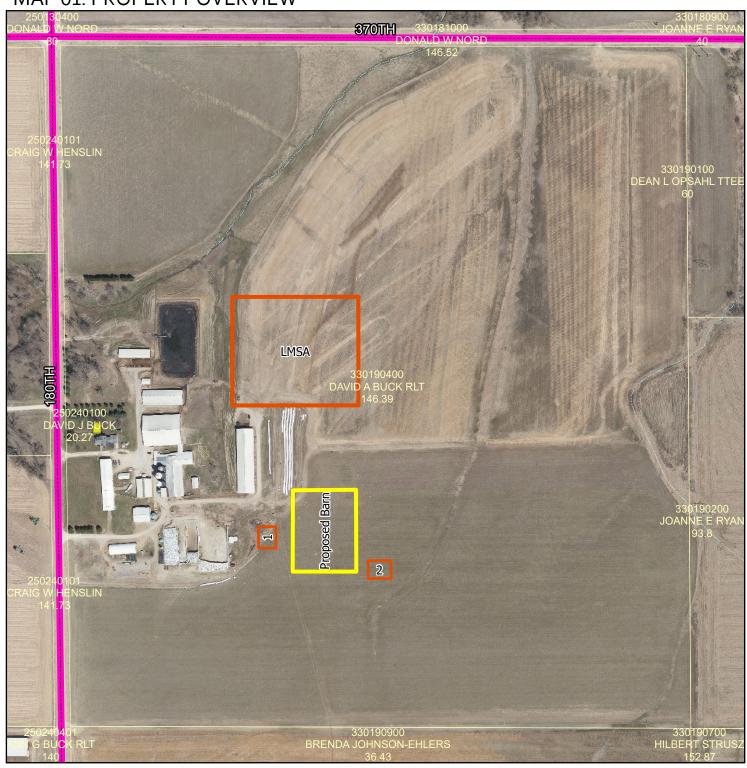
- adopt the staff report into the record;
- adopt the findings of fact;
- accept the application, testimony, exhibits, and other evidence presented into the record; and

Recommend the County Board of Commissioners **APPROVE** the request for CUP amendment, submitted by David & Ann Buck (Owner/Operators), to expand an existing dairy Feedlot to an aggregate 1,775 Animal Units and allow on-site liquid manure storage capacity of up to 26 million gallons.

Subject to the following conditions:

- 1. The Feedlot shall be constructed according to submitted plans, specifications, and narrative unless modified by a condition of this CUP;
- 2. Applicants shall obtain Building Permit approvals from the Goodhue County Land Use Management Department prior to establishing the use;
- 3. Compliance with Goodhue County Zoning Ordinance including, but not limited to, Article 22 (Agriculture District) and Article 13 (Confined Feedlot Regulations);
- 4. Compliance with all necessary State and Federal registrations, permits, licensing, and regulations.

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

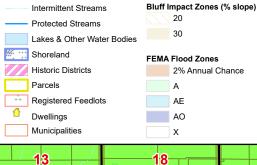
Public Hearing November 18, 2019

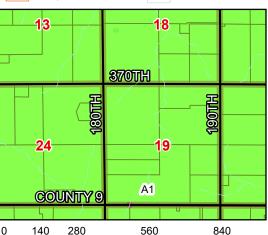
David & Ann Buck A1 Zoned District

Parcel 33.019.0400 NW 1/4 S19 T111 R15 in Goodhue Township

CUP amendment for 777 A.U. expansion of an existing Feedlot and waste storage pits exceeding 500,000 gal

Lege<u>nd</u>





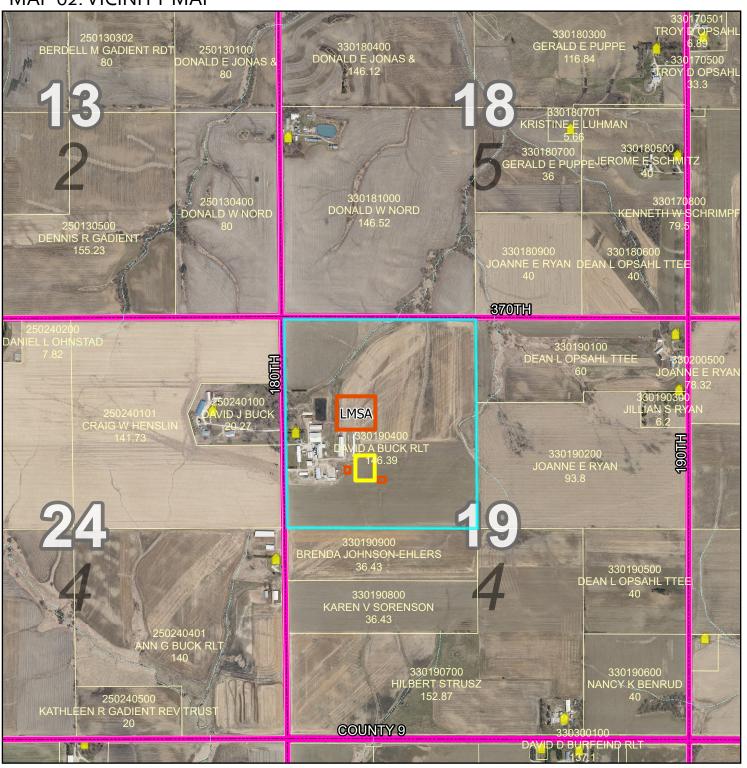
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2018 Aerial Imagery Map Created November, 2019 by LUM



US Feet

MAP 02: VICINITY MAP



PLANNING COMMISSION

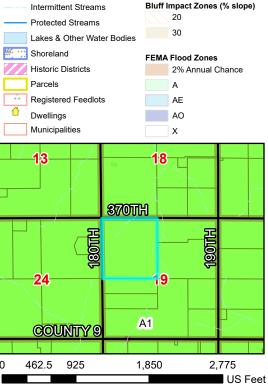
Public Hearing November 18, 2019

David & Ann Buck A1 Zoned District

Parcel 33.019.0400 NW 1/4 S19 T111 R15 in Goodhue Township

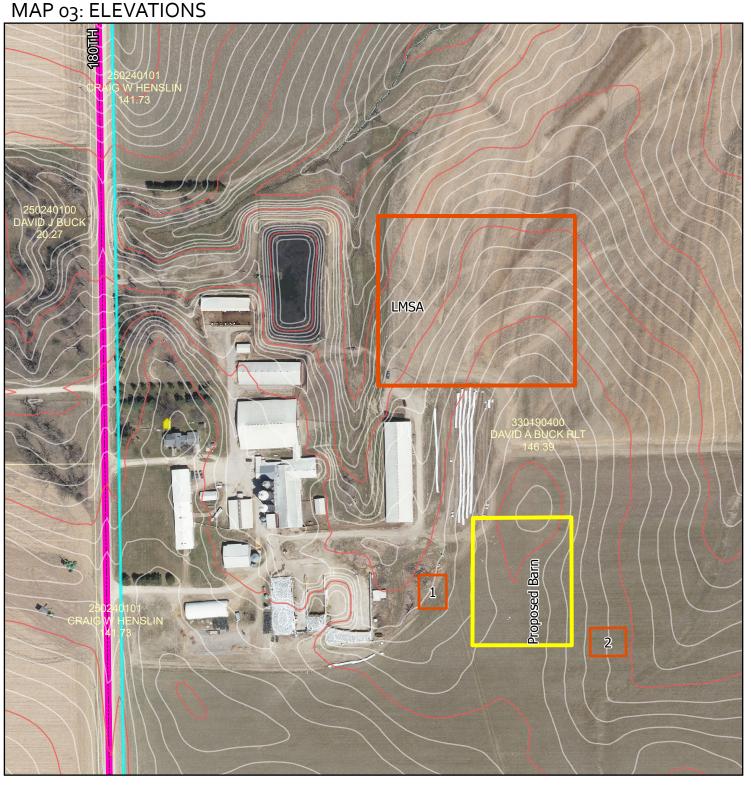
CUP amendment for 777 A.U. expansion of an existing Feedlot and waste storage pits exceeding 500,000 gal

Legend



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PLANNING COMMISSION

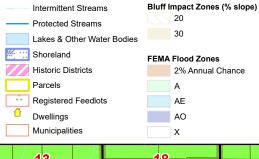
Public Hearing November 18, 2019

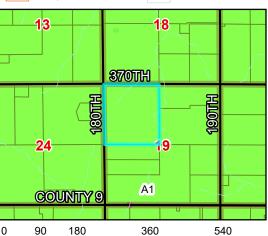
David & Ann Buck A1 Zoned District

Parcel 33.019.0400 NW 1/4 S19 T111 R15 in Goodhue Township

CUP amendment for 777 A.U. expansion of an existing Feedlot and waste storage pits exceeding 500,000 gal

Legend





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US Feet

2018 Aerial Imagery Map Created November, 2019 by LUM

GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

	710
Parcel # 33.019,0400	Permit#
PROPERTY OWNER INFORMATION	
Last Name BUCK First DAVID & ANN	Email
Street Address 37 298 1801 AVE	Phone
City GOODHUE State MW Zip 55027 Atta	ch Legal Description as Exhibit "A"
Authorized Agent MSA PROPESIONAL SORMS	ne
Mailing Address of Landowner: SAME	•
Mailing Address of Agent: PROJECT INFORMATION	
Site Address (if different than above):	
What is the conditional/interim use permit request for Add: Hon to a Written justification for request including discussion of how any potential conflicts with SEE ATTACHMENT	n existing feedlot CUP
DISCLAIMER AND PROPERTY OWNER SIGNATURE	
I hereby swear and affirm that the information supplied to Goodhue County Land Use acknowledge that this application is rendered invalid and void should the County dete in applying for this variance is inaccurate or untrue. I hereby give authorization for th	rmine that information supplied by me, the applicant
property in the above meritioned matter.	
property in the above mentioned matter. Signature of Landowner: A Bull	Date 10-21-19
Signature of Agent Authorized by Agent:	Date /0-21-19
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached?	Date /0-21-1 (If no please have fownship complete below:
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Fournship's official approval or denial of the requirements.	Date /0-21-1 (If no please have fownship complete below: request stated above. In no way does signing jest.
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the	Date /0-Z1-1 9 If no please have township complete below: request stated above. In no way does signing jest.
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Fournship's official approval or denial of the requirements.	Date /0-21-1 (If no please have fownship complete below: request stated above. In no way does signing jest.
Signature of Landowner: Signature of Agent Authorized by Agent: Township Information Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Township's difficial approval or denial of the requisional signature Comments:	Date /0-21-19 If no please have fownship complete below: request stated above. In no way does signing jest. Date OCT 2119
Signature of Landowner: Signature of Agent Authorized by Agent: Township Information Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Township's difficial approval or denial of the requisional signature Comments:	Date /0-21-19 If no please have fownship complete below: request stated above. In no way does signing jest. Date OCT 2119
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Township's difficial approval or denial of the requisional comments: COUNTY SECTION COUNTY FEE \$350 RECEIPT Applicant requests a CUP/JUP pursuant to Article Section Subdivision	Date /0-21-19 If no please have fownship complete below: request stated above. In no way does signing jest. May be paid 0072119
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Founship's difficial approval or denial of the requisional comments: COUNTY SECTION COUNTY FEE \$350 RECEIPT	Date /0-21-19 If no please have fownship complete below: request stated above. In no way does signing jest. May be paid 0072119
Signature of Landowner: Signature of Agent Authorized by Agent: TOWNSHIP INFORMATION Township Zoning Permit Attached? By signing this form, the Township acknowledges being made aware of the this application indicate the Township's difficial approval or denial of the requisional comments: COUNTY SECTION COUNTY FEE \$350 RECEIPT Applicant requests a CUP/JUP pursuant to Article Section Subdivision	Date /0-Z1-19 If no please have township complete below: request stated above. In no way does signing lest. Date OCTZ119 DATE PAID 10 28 2009 of the Goodhue County Zoning Ordinance

Action Taken: ____ Approve ____ Deny Conditions:



To:

Goodhue County

From:

MSA Professional Services

Subject:

Application for CUP and Variance: Buck Farms

Date:

October 18, 2019

Parcel Number: 33.019.0400 Deed Holder: DAVID A BUCK RLT Deed Holder 2: ANN G BUCK RLT

Property Address: 37298 180TH AVE GOODHUE, MN 55027-5123 Mailing Address: 37269 180TH AVE GOODHUE, MN 55027 USA

Class: AG DWELLING

Tax District: GOODHUE TWP 253

Zoning: A1

Sec-Twp-Rng: 19-111-015

Brief Legal Description: DOC#608476 NW1/4 SEC 19-111-15ID# 33-0000-14900 1

Conditional Use Permit- David A. Buck – 146.39 acres of the NW ¼ of Section 19, T111N R15W, Goodhue Township. The request is for an amendment to an existing conditional use permit for a feedlot over 500 animal units in the A-1 Agricultural Protection District.

Attachments and links:

Application and project summary

Site Map(s)

Existing CUP

Feedlot Officer Review and Odor OFFSET calculations (Kelsey Petit)

Background:

The Applicants have an existing Feedlot registration and Conditional Use Permit (CUP) in their multigenerational family dairy farm. They are requesting to amend their CUP (02-C007) to improve operational efficiency.

The proposed facility is to be located on a 146 acre parcel (NW ¼ Section 19, Goodhue Township) which currently includes a Dairy Farm operation exceeding 500 animal units and 500,000 gallons of manure storage that received CUP approval in April 2002 and amendment in 2007. A conditional use permit is required for "any new or expanding feedlot that meets or exceeds 500 animal units" in an A-1 zoning.

- 1. CUP approved in 2002 included a Manure Management Basin with a 3 million gallon capacity.
- 2. CUP approved in 2007 includes the addition of a Dairy Barn (56' x 248') to accommodate an additional 108 Dairy Cows
- 3. Feed lot registration 2012 for 754 Total Animal Units
- 4. Feed lot registration 2017 for 860 Total Animal Units
- 5. Current Animal Units on site for 2019, 998 Total Animal Units
- 6. Feedlot registration # 049-72909

David Buck (owner/operators), is requesting an amendment to the CUP approved in 2007. The proposal includes the addition of a Dairy Barn (240' \times 310') to accommodate an additional 540 Dairy Cows at the Farm (see site plan) which, if approved, would expand the site to an aggregate total of 1,775 Animal Units. The manure storage pit (480' \times 412') would approximately add an additional 23,000,000 gallons of liquid manure storage capacity to the site.

Goodhue Township has signed the Zoning Application Summary Form, indicating their approval of the request. The field nutrient management plan and manure management plan will be submitted as part of the Farm's NPDES permit application.

Beau Kennedy, Water Planner, Wetland Administrator has supplied the following review comments and will be visiting the site on Monday October 28, 2019:

- The NWI map shows that a wetland may be present on the north end of the buck farmyard. I do not think the boundary is accurate, but the bottom of the waterway to may have wetland characteristics present. See [map] below. The Wetland Conservation Act of MN regulates the filling/draining/excavating of wetlands in the state. That being said, from the conceptual plans you sent over, I do not see the proposed new manure pit impacting wetlands as presented. Goodhue County does not impose any wetland setback for buildings/fill etc. However, if plans change and the waterway areas will be impacted with fill, we should determine this ahead of time so we can take care of any necessary wetland permits if needed.
- The other item we comment on these proposals are erosion and sediment control measures. Stormwater runoff from the building roofs, and open lot areas should be retained in an effort to reduce the peak flows from leaving the site. I have not done any calculations on the volumes required to hold back the regulated amount of stormwater from a rain event, but the two brownish lines I placed across the two waterways may provide an opportunity for runoff retention and treatment. You/their engineers will have to run the numbers to see if there is enough storage that could be captured here and size the drainage pipe accordingly. And like all sites with a lot of grading, typical erosion BMPs would be needed (a SWPPP plan, silt fence locations, temp/perm erosion and sediment control measures, etc)



Kelsey Petit, the county feedlot officer, has supplied an 91% OFFSET distance of 1825 ft. for the expansion. The map provided shows this expansion has no problem meeting this setback to surrounding dwellings not owned by family members.

David J. Buck PID 25.024.0100 Dwelling estimated distance to proposed feedlot 1,500ft. Ann G. Buck PID 25.024.0401 Dwelling estimated distance to proposed feedlot 1,500ft.

North Donald W Nord PID 33.018.1000 Dwelling estimated distance to proposed feedlot 3,300ft.

Northwest Daniel Ohnstad PID 25.024.0200 Dwelling estimated distance to proposed feedlot 4,500ft.

Southwest William Gadient PID 25.025.0100 Dwelling estimated distance to proposed feedlot 4,900ft.

South Hilbert Strusz PID 33.019.0700 Dwelling estimated distance to proposed feedlot 4,500ft.

East Jillian Ryan PID 33.190.0300 Dwelling estimated distance to proposed feedlot 4,000ft.

East Dean Opsahl PID 33.019.0100 Dwelling estimated distance to proposed feedlot 4,100ft.

MPCA permitting, MPCA Environmental Specialist Mark Gernes: The registration, permitting, and inspections will be primarily handled by the MPCA. Under the NPDES permit, the Farm will be required to comply with the federal effluent limitations, which include the requirement that the feedlot be designed and operated to contain all manure, litter, and process wastewater including the runoff and direct precipitation from a 25-year, 24-hour rainfall event. The permit will contain requirements, conditions, or schedules for achieving compliance with discharge standards and requirements, management of animal manure, and construction and operation of animal holding areas and manure storage areas. An Emergency Response Plan and a manure management plan are required as part of an NPDES permit submittal.

The MPCA considers two or more animal feedlots under common ownership to be a "multiple site" operation when:

- 1. The combined capacity is 1,000 or more animal units, or the combined number and type of animals that meet the definition of a Large CAFO; and
- 2. One of the following conditions apply
 - a. The animal feedlots are adjacent to each other; or
 - b. The animal feedlots use a common area or system for manure management.

When these criteria are met, the MPCA will require either a NPDES or SDS permit coverage for the multiple site operation in accordance with Minn. R. 7020.0405, subp. 1, and will provide a single permit coverage that includes all of the combined feedlots.

For Goodhue County permit and clarification we are including information on the Ann Buck existing feedlot located at 37609 180 Ave PID 25.024.0401 (Feedlot Registration 049-100634). This property and facility will be included in the MPCA Multiple Site Individual NPDES permit.

Feed lot registration 2012 for 140 Total Animal Units

Feed lot registration 2017 for 280 Total Animal Units

2020 proposed 403 total animal units (375 heifers, 100 cows).

Dwelling estimated distance to feedlot expansion 1,500ft.

Regarding David J Buck existing feedlot located at 37269 180th Ave PID 25.024.0100 (Feedlot Registration 049-72910). Not to be included in the MPCA Multiple Site Individual NPDES permit.

Feed lot registration 2013 for 131Total Animal Units

Feed lot registration 2017 for 131 Total Animal Units

Dwelling estimated distance to feedlot expansion 1,500ft.

Conditional use permit:

PROJECT SUMMARY

- 1. Description of purpose and planned scope of operations (including retail/wholesale activities). Continue to be a successful Family run Dairy Operation
- 2. Planned use of existing buildings and proposed new structures associated with the proposal. New Barn for dry and milking cows and manure storage
- 3. Proposed number of non-resident employees.

Estimated 15-20 non-family employees from the community

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

The operation with continue operating as it has for the past 19 years; estimated hours of operation are predominantly to be 4:00AM-6:30 PM daily.

5. Planned maximum capacity/occupancy.

See site plan

6. Traffic generation and congestion, loading and unloading areas, and site access. Traffic generally exits the site on 180th Ave south to County Blvd 9, see site plan

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

8. Proposed solid waste disposal provisions.

See site plan

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

10. Existing and proposed exterior lighting.

See site plan

11. Existing and proposed exterior signage.

Any future signs will be in conformance with Goodhue County Sign Ordinance standards, see site plan.

12. Existing and proposed exterior storage.

See site plan

13. Proposed safety and security measures.

Emergency Management Plans are regularly updated

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

Any emergency service vehicles has full and easy access to all structures on the site

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

The farm will follow all MPCA rules and guidelines and will have completed a NPDES permit.

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

The farm will follow all MPCA rules and guidelines and will have completed a NPDES permit.

Site will be excavated per engineering plans included in the Storm Water Pollution Prevention Plan as a part of the NPDES permitting by the MPCA.

17. Existing and proposed surface-water drainage provisions.

See map and will be addressed through the construction plans.

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:
 - The proposed Feedlot and manure storage expansion 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 in the immediate vicinity. The use is located in an A1 (Agriculture Protection) zone which was intended to allow for large-scale farming operations. There is also very low residential density in the surrounding area which limits the

potential for future land-use conflicts. The proposal appears harmonious with the established uses in the vicinity which include primarily cropland and animal agriculture operations.

- The Feedlot expansion and liquid manure storage pits are not anticipated to impede the normal and orderly development or improvement of surrounding vacant property for uses predominant to the area. The proposal meets or exceeds all setback and development standards of the Goodhue County Zoning Ordinance and appears compatible with adjacent land uses.
- The project utilities, access roads, drainage, and other necessary facilities are available 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 to prevent or control offensive odor, fumes, dust, noise, and vibration so that none of these will constitute a nuisance. The applicant's plans also appear capable of controlling lights in such a manner that no disturbance to neighboring properties will result. The new barns and manure pits exceed the 91% Odor Annoyance-Free Rating distance to minimize odor or fume impacts to non-related surrounding landowners.

Request for Variance, submitted by David A. Buck, to Article 13 (Confined Feedlot Regulations) setback standards to allow an expansion of an existing feedlot to be within 91% odor annoyance-free rating as determined by the OFFSET model of an existing dwelling. Goodhue County Zoning Ordinance ARTICLE 13 CONFINED FEEDLOT REGULATIONS Subd. 7 New construction on existing feedlots shall meet a 91% odor annoyance free rating distance, as determined by the OFFSET odor evaluation model, to a dwelling other than those designated as an accessory to a feedlot or the feedlot operator's dwelling.

Variance Standards: Variances shall only be permitted when they are in harmony with the general purposes and intent of the Goodhue County Zoning Ordinance and when consistent with the adopted comprehensive plan. Variances may be granted when the applicant establishes "practical difficulties" exist in complying with the existing official controls. Practical difficulties mean the applicant proposes to use the property in a reasonable manner not permitted by an official control, the plight of the landowner is due to circumstances unique to the property not created by the landowner, and the variance, if granted, will not alter the essential character of the locality. Economic considerations alone do not constitute practical difficulties.

1) Harmony with the general purposes and intent of the official control:

The purpose of the A1 district is to maintain, conserve and enhance agricultural lands which are historically valuable for crop production, pasture land, and natural habitat for plant and animal life. This district is intended to encourage long-term agricultural uses and preserve prime agricultural farmland by restricting the location and density of nonfarm dwellings and other non-farm land uses.

Reciprocal feedlot setbacks between feedlots and dwellings are intended to decrease conflict between residential and agricultural uses. The nearest dwelling (David J Buck) is located approximately 1,500 feet west of the proposed feedlot location. Mr. David J. Buck has submitted a written statement in support of the Applicant's variance requests.

The next nearest dwelling (Ann Buck) is located approximately 1,500 feet west of the proposed feedlot location. Ann Buck has submitted a written statement in support of the Applicant's variance requests.

The Applicant's variance request appears harmonious with the purpose and intent of the official controls.

- 2) The with variances request consistent the adopted Comprehensive Plan: The Comprehensive Plan prioritizes agricultural land uses over dwellings to protect farmland and decrease conflict between residential and agricultural uses. The proposed variance is not likely to produce conflict among residential and agricultural uses. The occupant of the nearest neighboring dwellings (family members David J Buck and Ann Buck) are in support of the variance request. Any future occupants of the dwelling will have the opportunity to be informed of the presence of a feedlot in the area prior to purchasing the property. The request appears consistent with the adopted comprehensive plan.
- 3) There are "practical difficulties" in complying with the official control (the applicant proposes to use the property in a reasonable manner not permitted by an official control, the plight of the landowner is due to circumstances unique to the property not created by the landowner, and the variance, if granted, will not alter the essential character of the locality):

The property comprises 146.39 acres and is a conforming lot size in the A1 district (2-acre minimum). The new barn and manure storage would be located adjacent to the existing farmyard, allowing the greatest distance to non-related existing dwellings.

The existing and new structures meet all required setbacks from property lines. All livestock buildings are required to be at least 100 feet from property lines in the A1 Zoning District

The Applicant's request to expand an existing registered feedlot is a reasonable use of property in the A1 District.

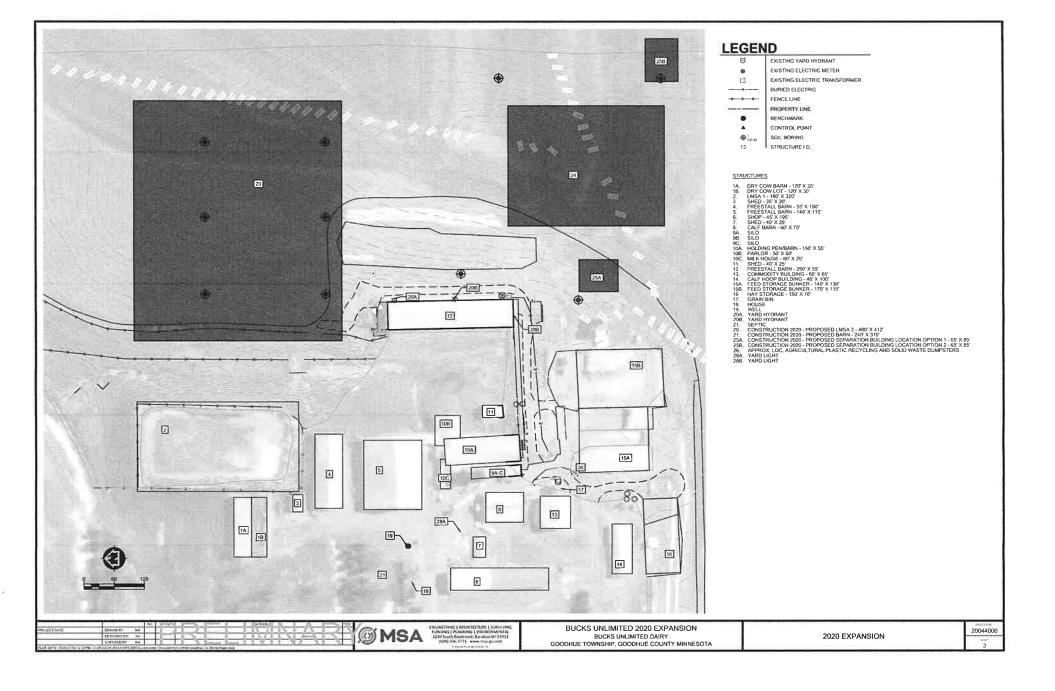
The property has been historically used for animal agriculture and has infrastructure available to raise livestock.

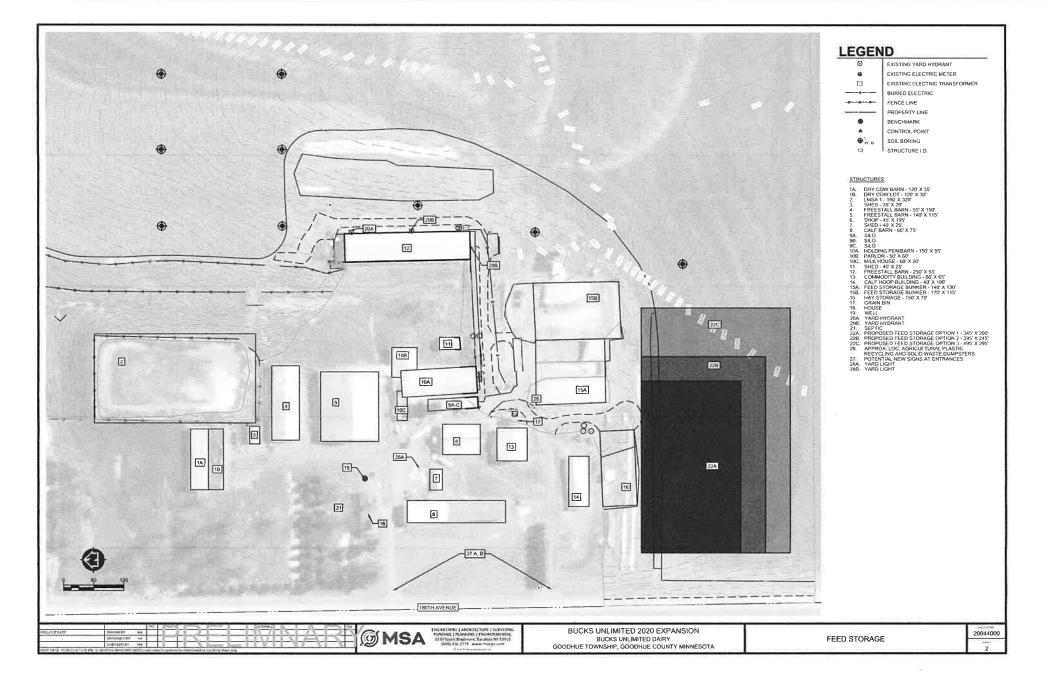
The property and existing feedlot configuration existed prior to the establishment of the current zoning standards for OFFSET Rating

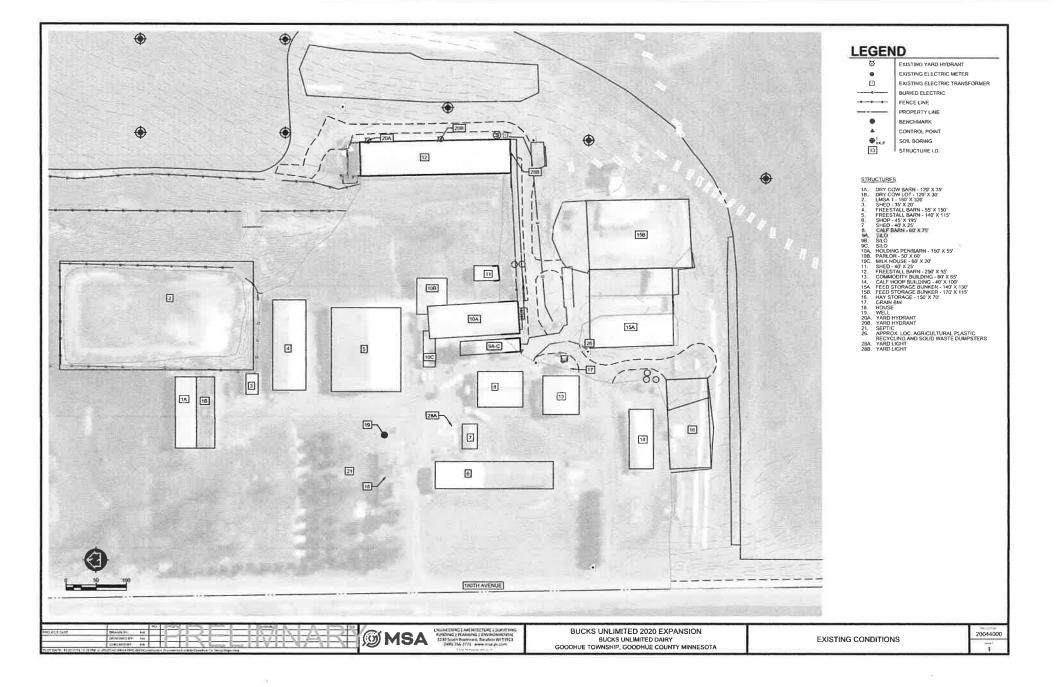
A review of the existing development pattern in the vicinity reveals very low-density residential development among predominantly agricultural uses (feedlots and row-crop agriculture). The request for variance appears unlikely to alter the essential character of the locality.

4) No variance may be granted that would allow any use that is not allowed in the zoning district in which the subject property is located.

Feedlots are a permissible use in the A1 district. The request does not constitute a use variance.







Kate Eiynck

From:

Kennedy, Beau < bkennedy@goodhueswcd.org>

Sent:

Thursday, October 24, 2019 3:54 PM

To:

Kate Eiynck; Petit, Kelsey

Subject:

RE: Buck's Farm Parcel Number: 33.019.0400

Hey Kate

Thanks for the opportunity of the initial review. Here are my thoughts on the information you sent over on Oct. 23rd.

- The NWI map shows that a wetland may be present on the north end of the buck farmyard. I do not think the boundary is accurate, but the bottom of the waterway to may have wetland characteristics present. See below. The Wetland Conservation Act of MN regulates the filling/draining/excavating of wetlands in the state. That being said, from the conceptual plans you sent over, I do not see the proposed new manure pit impacting wetlands as presented. Goodhue County does not impose any wetland setback for buildings/fill etc. However, if plans change and the waterway areas will be impacted with fill, we should determine this ahead of time so we can take care of any necessary wetland permits if needed.
- The other item we comment on these proposals are erosion and sediment control measures. Stormwater runoff from the building roofs, and open lot areas should be retained in an effort to reduce the peak flows from leaving the site. I have not done any calculations on the volumes required to hold back the regulated amount of stormwater from a rain event, but the two brownish lines I placed across the two waterways may provide an opportunity for runoff retention and treatment. You/their engineers will have to run the numbers to see if there is enough storage that could be captured here and size the drainage pipe accordingly. And like all sites with a lot of grading, typical erosion BMPs would be needed (a SWPPP plan, silt fence locations, temp/perm erosion and sediment control measures, etc)

October 25, 2019

To Whom It May Concern:

I am Ann Buck and I own a farm adjacent to Dave Buck; Buck's Unlimited and I support the proposed feedlot expansion on their property adjourning mine.

Buck's Unlimited has caused no problems for me and I completely endorse this expansion.

Ann Buck
Ann Buck

To Whom it may Concern,

I am DJ Buck and I live across the road from Dave Buck and Bucks Unlimited. I fully support their expansion. This farm has caused no problems for me. I understand that I am living near a feedlot that is growing in size. This is not a problem at al. Once again, I fully support their expansion.

David J Buck 37269 180th ave Goodhue MN 55027

Odors From Feedlots Setback Estimation Tool

Farm Name

Address or County

Evaluator
Date

Bucks Unlimited at 91%

Goodhue County

K, Petit

10/25/19

Clear All

OFFSET Ver 2.0 University of Minnesota

> OFFSET Annoyance-free 91%

Source Edge to Nearest Neighbor (ft) 1825
Source Edge to Property Line (ft) 708

Building Sources

Building Type		Width (ft)	Width (ft) Length (ft) # of Similar Sources		Total Area (sqft)	Control Technology		% air treated
Dairy - free stall	~	240	310	1	74400	None		
None	~				0	None	▼	
None	*				0	None	-	
None	-				0	None	_	
None	-		55		0	None	•	
None	•				0	None		
None	_				0	Biofilter	▼	

AREA SOURCES

Source Description		Shape		Width (ft) (or Dia)	Length (ft)	Area (sqft)	Control Technology	
Earthen manure storage	▼	Rectangle	-	480	412	197760	None	
None	-	Rectangle	~			0	None	•
None	~	Rectangle	-			0	None	
None	•	Rectangle	•			0	None	~
None	~	Rectangle	-			0	None	
None		Rectangle	~			0	None	
None	_	Rectangle	-			0	None	-

Building Source	es
Add Source Ty	/pe
Name of Source	
Odor Flux (ou/s/m2)	
H2S Flux (ug/s/m2)	
NH3 Flux (ug/s/m2)	
Documentation	
Add a Control T	echnology
Add a Control T	echnology
Name of technology	echnology
Name of technology Odor reduction (%)	echnology
Name of technology Odor reduction (%) H2S reduction (%)	echnology
Name of technology Odor reduction (%) H2S reduction (%) NH3 Reduction (%)	echnology
Name of technology Odor reduction (%) H2S reduction (%)	echnology

Area Sources	
Add a Source	Туре
Name of Source	
Odor Flux (ou/s/m2)	
H2S Flux (ug/s/m2)	
NH3 Flux (ug/s/m2)	
Documentation	
Add Control Ted	hnology
Name of technology	
Odor reduction (%)	
H2S reduction (%)	
NH3 Reduction (%)	
Documentation	

OFFSET Summary and Results

Farm Name
County
Evaluator
Date

Bucks Unlimited at 91%
Goodhue County
K. Petit
10/25/19

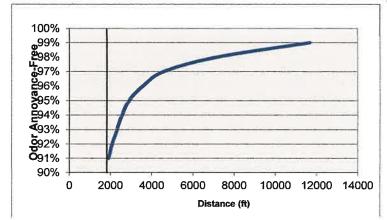
OFFSET Ver 2.0
University of Minnesota
1/21/2017

Source Characteristics Summary						Flux Rates (with control technology)				Source Emission Rates*		
	Similar	Emit Area	Control Technology	Percent	Odor	OFFSET	H2S	Ammonia	Odor	H2S	Ammonia	
	Sources	sq ft	Туре	Treated	ou/s/m2	OER	ug/s/m2	ug/s/m2	ощв	ug/s	ug/s	
Buildings										*	*	
Dairy - free stall	11	74400	None	0%	1.8	6.0	0.7	31.0	12725	4841	214381	
Area Sources												
Earthen manure storage		197760	None		14.0	13	25.3	107.0	257347	465062	1966865	
				4								

inclu*	des	con	trol	tech	no	oa	es

Site Emissions		
Total Site Area (ft2)	272,160	
Total Odor Emission Factor (TOEF)	302	
Total Site H2S Emissions (mg/s)	470	
Total Site H2S Emission AVERAGE (lbs/day)	89	
Total Site H2S Emission MAX (lbs/day)	179	
Total Site H2S Emissions (tons/yr)	16	
Total Site Ammonia Emissions (mg/s)	2181	
Total Site Ammonia Emission AVERAGE (lbs/day)	415	
Total Site Ammonia Emissions MAX (lbs/day)	830	
Total Site Ammonia Emissions (tons/yr)	76	

Source Edge to Nearest Neighbor (ft)	1825
OFFSET Annoyance-free frequency	91%



DOC: 467460

Kecorded

MAY 09,2002 AT 10:45AM

Sinned:

GOODHUF COUNTY RECORDER RED WING, MINNESDIA

02-C007

Fee Amount:

Permit

\$20.00



APPLICATION FOR A CONDITIONAL USE PERMIT GOODHUE COUNTY, MINNESOTA

Parcel # 33-019-0400 Applicant DAVID BUCK Date **2-28-02** Legal Description NW 1/4, Sec 19, T111N, R15W, Goodhue Township. Present Zoning A-1 Agricultural Protection Specify the section of the Ordinance which applies to this project: Article 5, Section 6, Subd. 1A & 1C Proposed use of building & area for an expansion of a feedlot (dairy) that exceeds 500 animal units and an animal manure storage exceeding 500,000 gallons located in an (A-1) Agricultural Protection zoning district. Applicant's Address 37298 - 180th AVENUE Signature /s/ DAVID BUCK Goodhue MN 55027 Hearing Date March 18, 2002 Rec'd Payment Joanne Wood DECISION OF THE GOODHUE COUNTY PLANNING ADVISORY COMMISSION This 18 day of MARCH 2002 the Goodhue County Planning Advisory Commission recommends to the Goodhue County Board that this application be: Approved for the feedlot expansion for over 500 animal units and an animal manure storage exceeding 500,000 gallons based on the staff's findings of fact. Signed Is/ RICK SAMUELSON /s/ JOANNE A. WOOD Chairman Zoning Administrator

DECISION OF THE GOODHUE COUNTY BOARD OF COMMISSIONERS

This <u>2</u> day of <u>APRIL</u> 20<u>02</u> the Goodhue County Board of Commissioners <u>Approved the expansion of the</u> feedlot (dairy) that exceeds 500 animal units and an animal manure storage exceeding 500,000 gallons located in an (A-1) Agricultural Protection zoning district as recommended by the Zoning Administrator and the Planning Advisory Commission.

Signed __Is/ JIM BRYANT

/s/ DAVID HAMILTON

Chairman

County Administrator

COPY SENT TO APPLICANT

Gd hue County Feedlot Registration Form

All blanks in bold print are required information. Your form will not be complete without this information .Please sign the form. If there are no changes from the original registration please re-copy the information from the original to provide a new registration for the next four years.

PI	bythe to new registration for the next four years.
I.	Name of Applicant Davil A. Buck Rht Title: Owner) Operator (Circle one or both) Phone: 651-380-5865 Address: 3728 180 Ave City: 600 She Zip: 55027 Email: bucks & Sleepy eye tell, not
	Phone: 651-380-5865 Address: 3728 / Su Ave City: 600 LL. Zip: 55027
	Email: bucks & sleepy ere tell, no t
	Name of Owner (if different from above)
	Name and Address of others that should be listed with this feedlot (specify Owner or Operator)
	JUN 2 9 2017
	Farm Name: Bucks Unlimites Active (10 or more animal units in the last five years)
	Location of Feedlot facility: Inactive (less than 10 animal units throughout the last five years)
	Township: 600 dlue Section: 19 Qtr Section: NW Qtr of Qtr Section: NW
	Township T/// N Range R/5 W
	Feedlot Permit #: Existing NPDES permit or Registration number: 049-72909
	Parcel I.D. #33-019-0400 (Same as your county tax ID number)
	Unique Well Number: Are there any other wells on the property used or unused: (Y or N)
	Shortest Distance from any Well to Feedlot or Manure Storage is: & feet.
П.	Listed below are common components of livestock operations, please check all that apply: 1. Feedlot is total confinement. 2. Feedlot has open lots (dirt, concrete, other) that are designed as animal holding areas. 3. Feedlot has buildings that are designed for animal confinement or as animal holding areas. 4. Animals are on pasture for at least part of the year. 5. Feedlot has a liquid manure storage basin or pit. 6. Part or all of the manure storage basin or pit is underground. 7. Feedlot has a manure (solids) stockpile. 8. Feedlot is within 1000 feet of the following surface waters: Internal Distance 3.0 (Includes lakes, rivers, streams, drainage ditches, tile intakes, floodplains, and wetlands) 9. Sinkholes are located on or near your property. (Location: Qtr/Qtr) 10. Is the facility located within a drinking water supply management area (DWSMA)? If you checked yes, list the name of the DWSMA:
III.	Animal Units 860 (Transferred from worksheet on back of this form) Worksheet must be completed.
Вус	completing, signing, and submitting this form to the entity listed below you have completed the Minnesota feedlot stration requirements.
To t	he best of my knowledge, the information submitted on this Registration form is complete and accurate.
	FOR OFFICE USE ONLY
	Signature Date RECEIVED ON #330

Return to: Goodhue SWCD, 104 E. 3rd Ave., P O Box 335, Goodhue, MN 55027 Phone: (651) 923-5286 ext.4

Example:

For each animal type, Enter the maximum number of animals that you have maintained (standing herd or flock size) at the facility at any given time in the past five years. Fill that number in column #3. Multiply Animal Unit Factor (column #2) by # of Animals (column #3) to get Animal Units (column #4)

1. Animal Type	2. Animal	3. # of	4. Animal
	Unit Factor	Animals	Units
Heifer	0.7	70	49

1. Animal Type	2. Animal Unit Factor	3. # of Animals	4. Animal Units
Dairy Cattle	suffering to the	points little for	on in School
Mature Cow over 1,000 Pounds	1.4	600	840
Mature Cow under 1,000 Pounds	1.0		
Heifer	0.7		
Calf	0.2	100	20
Beef Cattle		All I Law Inches	
Slaughter Steer or stock cow	1.0		-
Feeder Cattle (stocker or backgrounding) or heifer	0.7		
Cow and calf pair	1.2		
Calf	0.2		
Swine		ala was 1 tes pass	niced and make
Over 300 pounds	0.4		
Between 55 and 300 pounds	0.3		
Under 55 pounds (and separate from sow)	0.05		
Horses			
Horse	1.0		
Sheep		and the many day	manada di
Sheep or lamb	0.1		
Chickens	INCHES AND THE AND	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	
Laying hen or broiler, if the facility has a liquid manure system	0.033		1 1 7
Chicken over 5 pounds, if using a dry manure system	0.005		
Chicken under 5 pounds, if using a dry manure system	0.003		
Turkeys	27.07 数2多元为	ST INCK THE	OF THE ST.
Over five pounds	0.018		
Under five pounds	0.005		
Ducks	A STATE OF THE REAL PROPERTY OF THE PARTY OF		9
Duck	0.01		
Animals not listed above			
List:	Average weight of the animal in pounds divided by 1,000 pounds		
TOTAL ANIMAL UNITS			860



Design Phase Geotechnical Evaluation:

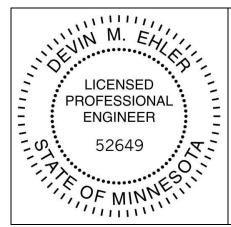
Proposed Manure Storage Structure
Buck's Unlimited Farm
T111N R15W Section 19 NW ¼
Goodhue Township, Goodhue County, Minnesota

Prepared for:

Mr. Andy Skwor MSA Professional Services, Inc.

November 7, 2019 15683.19.MNR

Certification:



I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Dum Ehla

Devin M. Ehler, PE Geotechnical Engineer Registration Number 52649 Date: November 7, 2019

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BORING LOCATION SKETCH LOG OF BORING # 1 – 11 ATTERBERG LIMITS GRADATION CURVES LEGEND TO SOIL DESCRIPTION

Chosen Valley Testing, Inc.

Geotechnical Engineering and Testing, 1470 7th Street NW, Rochester, Minnesota 55901, (507) 281-0968, fax (507) 289-2523

Mr. Andrew Skwor, P.E. MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913 askwor@msa-ps.com November 7, 2019

Re: Design Phase Geotechnical Evaluation Proposed Manure Storage Structure Buck's Unlimited Farm T111N R15W Section 19 NW ¼ Goodhue Township, Goodhue County, Minnesota CVT Project Number: 15683.19.MNR

Dear Mr. Skwor,

As authorized, we performed borings at the site of the proposed manure storage structure at the Buck's Unlimited Farm in Goodhue Township, Goodhue County, Minnesota. This brief report summarizes the results of the borings.

A. Introduction

The intent of this report is to present our findings and describe the means used to collect the data. The data was collected for a specific purpose and may not be suitable for other purposes. We should be consulted before attempting to use the data for other uses. A complete and thorough review of the entire document, including its assumptions and its appendices, should be undertaken immediately upon receipt.

A.1. Scope

To provide data for analysis, a total of 11 penetration test borings were performed. The borings were to be drilled to depths of about 11 to 70 ½ feet. Our engineering scope consisted of providing the results of our exploration and geotechnical recommendations for the basin.

A.2. Boring Locations and Elevation

The desired boring locations were indicated to Chosen Valley Testing by staking on site, provided by MSA. The Boring Location Sketch in the Appendix shows the approximate locations as drilled according to GPS coordinates recorded in the field from a handheld devices, which were then plotted onto aerial imagery using Google Earth Software. These locations should be considered approximate. Ground surface elevations at the borings were also provided by MSA.

A.3. Geologic Background

A geotechnical report is based on subsurface data collected for the specific structure or problem. Available geologic data from the region can help interpretation of the data and is briefly summarized in this section.

Geologic maps and nearby well logs indicate the uppermost soils on site are loessial (wind deposited) clays and silts overlying unsorted glacial till deposits of clay, silt, and sand mixtures. Bedrock is indicated to be on the order of 100 to 200 feet below the surface and with the uppermost formation consisting of St. Peter Sandstone.

B. Subsurface Data

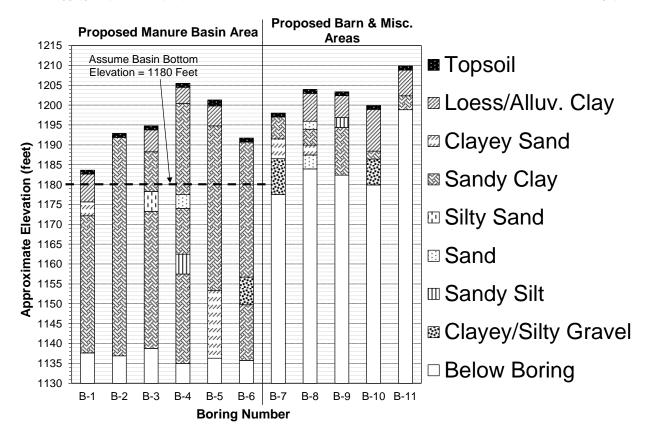
The borings were performed using penetration test procedures (Method of Test D1586 of the American Society for Testing and Materials). This procedure allows for the extraction of intact soil specimen from deep in the ground. With this method, a hollow-stem auger is drilled to the desired sampling depth. A 2-inch OD sampling tube is then screwed onto the end of a sampling rod, inserted through the hole in the auger's tip, and then driven into the soil with a 140-pound hammer dropped repeatedly from a height of 30 inches above the sampling rod. The sampler is driven 18 inches into the soil, unless the material is too hard. The samples are generally taken at $2\frac{1}{2}$ to 5-foot intervals. The core of soil obtained was classified and logged by our drilling personnel at the site and a representative portion was then sealed and delivered to our laboratory for further review.

B.1. Strata

At the surface, the borings encountered about 1 to 1 ½ feet of topsoil. The topsoil primarily consisted of slightly organic clay.

Beneath the topsoil, the majority of the borings met loessial/alluvial clays to depths of approximately 5 to $11 \frac{1}{2}$ feet. Glacial sandy clays dominantly followed along with some sands, silts, and gravels to planned termination depths around 11 to $70 \frac{1}{2}$ feet below the surface.

The boring data has been summarized in the following cross-section on the next page. Please refer to the individual Log of Boring sheets in the Appendix for more detailed information.



B.2. Penetration and Laboratory Test Results

Penetration Test Results: The number of blows needed for the hammer to advance the penetration test sampler is an indicator of soil characteristics. The results tend to be more meaningful for natural mineral soils, than for fill soils. In fill soils, density tests are more meaningful. Laboratory testing was performed on the samples recovered from the borings. The results of the tests are briefly summarized below and are presented in greater detail in the Appendix. All tests were performed in general accordance with ASTM standards.

Penetration resistance values ("N" Values) ranging from 2 to 8 blows per foot (BPF) were recorded in the loessial/alluvial clays, indicating they were soft to medium.

The glacial sandy clays, sands, and gravels returned values of 4 BPF to 50 hammer blows for 1 inch of sampler advancement, indicating the clays were rather soft to hard, while the sands and gravels were very loose to very dense.

A key to the descriptors used to qualify the relative density of soil (such as *soft, stiff, loose,* and *dense*) can be found on the Legend to Soil Description in the Appendix.

A pocket penetrometer was used to help estimate the compressive strength of cohesive soils on site. The glacio-fluvial clays returned values of less than ½ to 1 ton per square foot (tsf), while the glacial sandy clays returned values of ¾ to greater than 4 ½ tsf.

B.3. Groundwater Data

During drilling, the drillers may note the presence of moisture on the sampler, in the cuttings, or in the borehole itself. These findings are reported on the Logs of Boring. Because water levels vary with weather, time of year, and other factors, the presence or lack of water during exploration is subject to interpretation and is not always conclusive.

Water was observed in the majority of the borings around 8 to 29 feet below the surface during our exploration. The depths correspond near elevations 1176 to 1187 feet. This water appears to be perched within seams and layers sands above and within less permeable clay deposits. Groundwater levels are expected to fluctuate seasonally with local weather patterns and similar to water levels in nearby creeks and rivers.

The Soil Survey of Goodhue County indicates that the dominant soil type of the area is the Mt. Carroll-Hersey complex, 2 to 6 percent slopes. The seasonal high water table for this soil is indicated as greater than $6\frac{1}{2}$ feet below the surface.

C. Design Data

Because each structure has a different loading configuration and intensity, different grades, and different structural or performance tolerances, the results of a geotechnical exploration will mean different things for different facilities. If the design of the facility changes, we should be contacted to discuss the possible implications of the changes. Without a chance to review such changes, the recommendations of the soils engineer may no longer be valid or appropriate.

The proposed project consists of the construction of a manure storage structure. Design information was very preliminary at the time of this report. It is understood that an earthen structure is planned to have on the order of 9 to 10 million gallons of storage with possible dimensions of approximately 250-foot by 400-foot. For analysis purposes, we have assumed the storage basin will have a bottom elevation near 1180 feet. It is understood that a clay liner will be constructed to control seepage.

D. Analysis

D.1. Bedrock Considerations

According to the Minnesota Rules Chapter 7020, manure in an earthen-lined pit must be kept at least 20 feet above soluble bedrock, with this rule further dependent on pit size/animal units, the use of additional liners, and other karst factors. Bedrock was not encountered during our exploration and is mapped on the order of 100 to 200 feet below the surface on site.

The County Feedlot officer or the Minnesota Pollution Control Agency (MPCA) should be contacted to determine the type of preparations needed for this facility in consideration of the several factors involved.

D.2. Groundwater/Dewatering

Basin bottoms must be maintained above the water table or a drain tile should be installed to maintain water levels below the basin. Water was observed in the borings around 8 to 29 feet below the surface during our exploration or near elevations 1176 to 1187 feet. Therefore, drain tile is recommended to prevent water issues.

D.3. Subgrade

Prior to grading and excavating, we recommend stripping and removing the topsoil from the site. The topsoil was about 1 to 1 ½ feet thick at the locations explored on site.

Depending upon the pit bottom elevation, the soils at the bottom of the basin could consist of a variety of materials ranging from loessial/alluvial clay, glacial sandy clay, clayey/silty sand, and possibly some clean sand.

The loessial/alluvial clays found in the upper 5 to 11 ½ feet at the majority of locations on site were commonly very wet and soft. Under these conditions, the clays will needed to be scarified and compacted in order to stabilize bottoms. Perched water was also observed around 8 to 29 feet below the surface. Any seepage or precipitation that ponds in the basin area should be directed to a low spot and them pumped out. Multiple sumps and pumps will likely be required during wet periods in order to prevent water from ponding.

The glacial clays and sands on site appear to be generally suitable for direct support of compaction equipment in their present condition.

All fill placed below the liner or in the embankment areas should be compacted to at least 95% of its maximum standard Proctor density.

D.4. Clay Liner

The clays encountered on site are considered generally suitable for use as clay liner material, provided they have proper moisture and compaction levels.

The loessial/alluvial clays found in the upper 5 to 11 ½ feet has different characteristics than the deeper glacial sandy clays. Therefore, the materials should be stockpiled in separate areas and mixing or blending should only be considered on an as need basis. The average optimum moisture for clays typically range between 17 to 20%. The upper loessial/alluvial clays appear to be above optimum moisture levels for compaction, while the deeper glacial sandy clays appear to be at or below optimum. Based on these conditions and for ease of construction, we recommend using the loessial/alluvial clays as liner material and the glacial sandy clays as bulk fill material. Otherwise, the deeper glacial sandy clays will likely require watering and mixing in order to properly moisture condition for compaction. Clays that are dry may come out in large chunks or blocks during excavation which will need to be broken down into particle sizes that are suitable for uniform moisturizing and compaction.

To function as a liner, all clays within the liner zone will have to be excavated and compacted back into place in order to ensure that the full liner thickness is intact and to disrupt any high-permeability discontinuities that may naturally exist in the stratum. Any sand layers found will need to be removed from within the liner zone and replaced with clay. The clay fill should be compacted to about an average of 95% of the soils' standard Proctor density, and at a moisture content at least 1% to 5% over its standard Proctor optimum moisture content. Compaction tests should be performed on the liner soils to evaluate the moisture and compactive efforts. Moisture levels are far more critical than compaction, provided proper compactive effort is actually applied. We recommend obtaining thin wall tube samples after grading to confirm or evaluate the suitability of the completed liner.

D.5. Construction Phase Testing

The MPCA requires construction testing and inspection on all manure storage structures. Typical requirements would include:

- Evaluation of the natural soils after topsoil stripping and before placement of any fill
- Compaction testing on fills used for embankments, liners, subgrades, etc.
- Permeability testing on liner samples after completion.

Although our firm provides such services, the necessity and extent of such services will need to be determined by consultation between the designer and the appropriate regulatory agencies.

E. Level of Care

The services provided for this project have been conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in this area, under similar budget and time constraints. This is our professional responsibility. No other warranty, expressed or implied, is made.

Appendix

Boring Location Sketch Log of Boring # 1-11 Atterberg Limits Gradation Curves Legend to Soil Description



Legend

Boring Location

Boring Location Sketch

Proposed Manure Storage Structure T111N R15W Section 19 NW 1/4 Goodhue Twp., Goodhue Co., Minnesota 15683.19.MNR



CHOSEN VALLEY TESTING



B-01 PROJECT: BORING: 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Tests and Notes Elev. Depth Symbol (ASTM D 2487/2488) 1183.6 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1.0 -1182.6 OL(Topsoil) provided by MSA. **LEAN CLAY** grey with iron staining, very wet, CL medium. 6 PP = 0.25 tsf, MC = 27.1%(Loess) 2 PP = 0.25 tsf8.0 7 ⁻1175.6 ∇ MC = 19.9%**CLAYEY SAND** fine grained, trace gravel, SC brown, water bearing, loose to medium dense. (Glacial Till) 11 PP = 0.75 tsf1172.1 11.5 SANDY LEAN CLAY trace gravel, dark grey, CL moist, stiff to hard. 8 PP = 1.75 tsf, MC = 14.0%(Glacial Till) 14 PP = 4.5 tsf25 PP = 4.5 tsf23 PP = 4.5 tsf, MC = 11.5%56 PP > 4.5 tsf75 PP > 4.5 tsf, MC = 8.7%

CHOSEN VALLEY TESTING



PROJECT: 15683.19.MNR

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 BORING: B-01 (cont.)

LOCATION:

See attached sketch

Elev. Depth USCS Symbol Description of Materials (ASTM D 2487/2488) CL (continued) Cobble encountered around 40 feet. Cobble encountered around 40 feet. Cobble encountered around 8 feet during drilling. Boring sealed upon completion.	Elev. Depth USCS Symbol Description of Materials (ASTM D 2487/2488) CL (continued) Cobble encountered around 40 feet. Cobble encountered around 40 feet. Tests and Notes * 50 = 5" (set) PP > 4.5 tsf End of boring. Water observed around 8 feet during drilling.
Company Comp	Continue Symbol (ASTM D 2487/2488)
Cobble encountered around 40 feet. * 50 = 5" (set) * 50 = 5" (set) End of boring. Water observed around 8 feet during drilling.	Cobble encountered around 40 feet. * 50 = 5" (set) Cobble encountered around 8 feet during drilling.

CHOSEN VALLEY TESTING



B-02 PROJECT: 15683.19.MNR BORING: Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol 1192.9 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL _1191.9 1.0 OL (Topsoil) provided by MSA. LEAN CLAY with SAND brown, moist, stiff. CL(Glacio-Fluvium) 13 PP = 1.0 tsf, MC = 16.0%4.0 _1188.9 SANDY LEAN CLAY trace gravel, brown, wet, CL medium to very stiff. 7 PP = 1.25 tsf(Glacial Till) Very wet around 7.5 feet. 16 PP = 1.0 tsf, MC = 17.8%27 1181.4 11.5 **SILTY SAND to CLAYEY SAND** fine grained, SM trace gravel, brown, moist, medium dense to dense. SC 15 (Glacial Till) 36 MC = 8.4% ∇ Seam of water bearing sand around 16.5 feet. 42 PP = 0.5 tsf, MC = 16.0%19.0 1173.9 SANDY LEAN CLAY trace gravel, brown and CL gray mottling, moist to wet, hard. 36 PP = 4.5 tsf(Glacial Till) 1171.4 21.5 SANDY LEAN CLAY fine grained, trace gravel, CL dark grey, moist, dense to very dense. 40 PP > 4.5 tsf(Glacial Till) 45 MC = 10.5%Seam of sand encountered around 30 feet. * 9 / 50 = 6"

CHOSEN VALLEY TESTING



BORING: PROJECT: 15683.19.MNR

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4

B-02 (cont.)

LOCATION:

See attached sketch

			ow, Section 19, NW 1/4				
		ooanue 1 v	vp., Goodhue Co., Minnesota	DATE:	10/8/2	019	SCALE: 1" = 4'
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)		BPF	WL	Tests and Notes
- - -	(c : - -	CL ontinue	Cobble encountered around 35 feet.		*		* 14 / 33 / 50 = 2" MC = 5.7%
- -	- - -				*		* 10 / 14 / 50 = 4" PP > 4.5 tsf
	- - -				56		PP > 4.5 tsf MC = 10.3%
	- - -				*		* 16 / 15 / 50 = 4"
- - - .1136.9	56.0		End of boring. Water observed around 16.5 feet during dril	ling	52		
 - -	- - -		Boring sealed upon completion.	illig.			
- -	- - -						
- - - 5683 19 N	-						R-02 page 2.0

CHOSEN VALLEY TESTING



B-03 PROJECT: BORING: 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: See attached sketch Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes Symbol (ASTM D 2487/2488) 1194.8 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1.0 -1193.8 OL(Topsoil) provided by MSA. SANDY LEAN CLAY brown, wet, rather soft to CL medium. 5 PP = 0.75 tsf, MC = 19.0%(Alluvium) 8 Seams of sand around 5 feet. PP = 0.75 tsf1188.3 6.5 **SANDY LEAN CLAY to CLAYEY SAND fine** CL grained, brown, moist to wet, rather stiff to hard or SC 12 MC = 10.2%medium dense to dense. (Glacial Till) 31 PP > 4.5 tsf26 MC = 9.3%25 MC = 10.3%1178.3 16.5 ∇ **SILTY SAND** very fine grained, brown, water SM bearing, dense. 30 (Glacial Till) 38 21.5 1173.3 **SANDY LEAN CLAY** fine grained, trace gravel, CL dark grey, moist, very stiff to hard. 30 PP > 4.5 tsf(Glacial Till) 34 MC = 10.1%35 PP > 4.5 tsf

CHOSEN VALLEY TESTING



PROJECT: 15683.19.MNR

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4

B-03 (cont.) BORING:

LOCATION:

See attached sketch

		1	vp., Goodhue Co., Minnesota	DATE:	10/8/2	019	SCALE: 1" = 4'
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)		BPF	WL	Tests and Notes
	-	CL					
	(00	ontinued			34		$ PP > 4.5 \text{ tsf, MC} = 10.4^{\circ}$
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_					31		PP > 4.5 tsf, MC = 8.8%
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- - - - - - -1138.8	56.0				∑ 52		
1150.0	30.0	7///	End of boring.				
_	_		Water observed around 16.5 feet during dril	ling.			
_	_		Boring sealed upon completion.				
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CHOSEN VALLEY TESTING



B-04 PROJECT: 15683.19.MNR BORING: Design Phase Geotechnical Evaluation LOCATION: See attached sketch Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol 1205.5 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1.0 1204.5 OL(Topsoil) provided by MSA. **LEAN CLAY** brown, very wet, soft. CL (Loess) 2 MC = 28.8%5.0 1200.5 4 LEAN CLAY with SAND trace gravel, brown, CL wet, rather soft. 1199.0 6.5 (Glacio-Fluvium) CL **LEAN CLAY with SAND** brown, wet, rather stiff 12 PP = 1.25 tsf, MC = 17.9%to stiff. (Glacial Till) 15 PP = 4.25 tsf1194.0 11.5 SANDY LEAN CLAY trace gravel, brown, moist CL to wet, very stiff to hard. 21 MC = 9.5%(Glacial Till) * PP > 4.5 tsf* 10 / 19 / 50 = 5" Cobble encountered around 16 feet. 21 PP = 4.5 tsf30 PP > 4.5 tsf, MC = 12.5%Dark grey below 22 feet. 27 PP = 4.5 tsf35 PP > 4.5 tsf, MC = 10.8%28.0 1177.5 58 POORLY GRADED SAND fine grained, brown, SP ∇ water bearing, very dense. (Glacial Outwash) * * 26 / 50 / 50 = 6" 1174.0 31.5 SANDY LEAN CLAY trace gravel, dark grey, CL moist to wet, hard. 32 PP > 4.5 tsf(Glacial Till)

CHOSEN VALLEY TESTING



PROJECT: 15683.19.MNR BORING: **B-04** (cont.)

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4

LOCATION:
See attached sketch

Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol CL (continue) 33 PP > 4.5 tsf, MC = 10.3%36 PP > 4.5 tsf43.0 1162.5 **SANDY SILT** very fine grained, trace cobbles, ML dark grey, wet, hard. (Glacial Till) 41 / 50 = 3" MC = 17.9%48.0 $^{-}1157.5$ **SANDY LEAN CLAY** with seam of silt at 50 feet, CL trace gravel, dark grey, moist to wet, hard. (Glacial Till) 14 / 18 / 50 = 3" 44 PP > 4.5 tsfMC = 9.7%* 18 / 24 / 50 = 4" 55 Trace seams of sand around 65 feet. MC = 11.2%

CHOSEN VALLEY TESTING



PROJECT: 15683.19.MNR

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 BORING: B-04 (cont.)

LOCATION:

See attached sketch

	T	111N, R15	5W, Section 19, NW 1/4	See alla	acrieu	skeu	CII
	G	oodhue Ty	wp., Goodhue Co., Minnesota	DATE:	10/8/2	019	SCALE: 1" = 4'
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)		BPF	WL	Tests and Notes
	(ce	CL ontinued)					
1135.0	70.5		End of having		*		* 16 / 50 = 4"
_	_		End of boring. Water observed around 29 feet during drillin	ıg.			
_	_		Boring sealed upon completion.				
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CHOSEN VALLEY TESTING



B-05 PROJECT: BORING: 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Tests and Notes Elev. Depth Symbol (ASTM D 2487/2488) 0.0 1201.3 Slightly Organic LEAN CLAY black. Ground surface elevation CL OL(Topsoil) provided by MSA. 1199.8 1.5 LEAN CLAY greyish brown, wet, rather soft. CL (Loess / Alluvium) 5 PP = 1.0 tsf, MC = 17.7%4.0 1197.3 LEAN CLAY with SAND brown, very wet, soft. CL (Alluvium) 3 PP < 0.25 tsf, MC = 19.8%1194.8 6.5 SANDY LEAN CLAY trace gravel, brown, wet, CL stiff to hard. 14 PP = 2.25 tsf, MC = 17.0%(Glacial Till) 29 PP > 4.5 tsf23 PP > 4.5 tsf30 PP > 4.5 tsf, MC = 11.6%25 PP = 4.5 tsf28 PP = 3.5 tsf $\underline{\nabla}$ Trace seams of sand around 22.5 to 25 feet. 31 PP = 3.5 tsf40 PP > 4.5 tsf, MC = 10.4%Dark grey below 27 feet. 31 PP > 4.5 tsf28 PP > 4.5 tsf27 PP > 4.5 tsf



PROJECT: 15683.19.MNR

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 BORING: B-05 (cont.)

LOCATION:

See attached sketch

			W, Section 19, NW 1/4				
	G	ioodhue I v	vp., Goodhue Co., Minnesota	DATE:	10/8/2	019	SCALE: 1" = 4'
Elev.	Depth	USCS Symbol	Description of Materials (ASTM D 2487/2488)		BPF	WL	Tests and Notes
-	(c c	CL ontinued)			29		PP > 4.5 tsf, MC = 10.1%
- - -	- - -						
-					67		PP > 4.5 tsf
- - -	_ _ 				61		PP > 4.5 tsf, MC = 9.7%
1153.3	48.0	SC	<u>CLAYEY SAND</u> fine grained, trace gravel,	, dark			
6.GDT 11/7/19			grey, moist, very dense. (Glacial Till)		66		
ICTURE).GPJ LOG A GNNNOB.GDT	- - -						
					58		
15683.19.MNR (GOODHUE MANUE STORAGE STR.	- - -		Cobble encountered around 60 feet.		*		* 50 = 3" (Set) MC = 12.1%
MNR (GOODHUE	- - -						IVIC = 12.1%
CVT STANDARD 15683.19	65.0		End of boring. Water observed around 21.5 feet during drill Boring sealed upon completion.	ling.	*		* 50 = 5" (Set) MC = 8.4%
15683 19 1	-		. 1				B-05 page 2 of

CHOSEN VALLEY TESTING



B-06 PROJECT: **BORING:** 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: See attached sketch Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Tests and Notes Elev. Depth (ASTM D 2487/2488) Symbol 1191.7 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL -1190.7 1.0 OL (Topsoil) provided by MSA. LEAN CLAY with SAND trace gravel, brown, CL wet, rather soft to hard. 9 PP = 1.25 tsf, MC = 18.0%(Glacial Till) 5 PP = 1.0 tsf16 PP = 3.75 tsf, MC = 12.6%17 PP = 2.0 tsf37 With seams of sand around 12 to 19 feet. PP = 1.75 tsf, MC = 13.3%24 PP = 4.0 tsf34 26 PP > 4.5 tsf, MC = 10.1%21.5 1170.2 SANDY LEAN CLAY trace gravel, dark grey, CL moist, very stiff to hard. 25 PP = 3.25 tsf(Glacial Till) 34 PP > 4.5 tsf, MC = 11.0%63

CHOSEN VALLEY TESTING



(cont.)

PROJECT: 15683.19.MNR BORING: **B-06**

Design Phase Geotechnical Evaluation Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4

LOCATION:
See attached sketch

Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials Depth BPF WL Tests and Notes Elev. Symbol (ASTM D 2487/2488) CL -1156.7 ontinu 🚓 **CLAYEY GRAVEL with SAND** fine to coarse * 22 / 50 = 2" GCgrained, trace cobbles, dark grey, moist to wet, very dense. (Glacial Till) *50 = 5" (set)-1149.7 42.0 SANDY LEAN CLAY trace gravel, dark grey, CL moist, hard. (Glacial Till) 58 52 PP > 4.5 tsf, MC = 10.2%44 -1135.7 56.0 End of boring. Water observed around 12.5 feet during drilling. Boring sealed upon completion.

CHOSEN VALLEY TESTING



B-07 PROJECT: 15683.19.MNR BORING: Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol 1198.0 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1.0 1197.0 OL (Topsoil) provided by MSA. LEAN CLAY with SAND brown, wet, medium. CL(Glacial Till) 6 PP = 1.75 tsf, MC = 17.7%4.0 1194.0 SANDY LEAN CLAY trace gravel, brown, wet, CL rather stiff. 11 PP = 4.0 tsf, MC = 12.8%(Glacial Till) ⁻1191.5 6.5 CLAYEY SAND fine grained, trace gravel, SC brown, moist, medium dense. 19 MC = 9.9%(Glacial Till) 29 $^{-}1186.5$ 11.5 SANDY LEAN CLAY trace gravel, brown, wet, CL very stiff to hard. 34 PP = 1.0 tsf, MC = 16.6%(Glacial Till) Cobble encountered around 12.5 feet. 22 PP = 3.75 tsfDark grey below 16.5 feet. 36 PP > 4.5 tsf, MC = 12.2%1177.5 20.5 * 38 / 50 = 3" End of boring. Water not observed during drilling. Boring sealed upon completion.

STRUCTURE)

CHOSEN VALLEY TESTING



B-08 PROJECT: 15683.19.MNR **BORING:** Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol 1203.9 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1202.9 1.0 OL (Topsoil) provided by MSA. LEAN CLAY brown with slight grey mottling, CL trace sand, wet, rather soft to medium. 4 PP = 0.75 tsf(Loess / Alluvium) 6 PP = 0.75 tsf, MC = 25.9%1195.9 8.0 4 **POORLY GRADED SAND with SILT** fine SP grained, brown, moist, very loose. SM (Alluvium) 10.0 _1193.9 7 LEAN CLAY with SAND trace gravel, brown, CL MC = 20.1%wet, medium. 1192.4 11.5 (Glacial Till) CLSANDY LEAN CLAY trace gravel, brown, wet, 44 PP = 3.5 tsf, MC = 12.8%hard. (Glacial Till) 1189.9 14.0 SILTY SAND to CLAYEY SAND fine grained, SC SM trace gravel, brown, moist, very dense. 58 MC = 10.6%(Glacial Till) 1187.4 16.5 **POORLY GRADED SAND with SILT** fine to SP ∇ medium grained, trace gravel, brown, water bearing, SM * very dense. * 7 / 23 / 50 = 5" (Glacial Outwash) 1183.9 20.0 * *50 = 4" (Set) End of boring. Water observed around 17 feet during drilling. Boring sealed upon completion.

CHOSEN VALLEY TESTING



B-09 PROJECT: **BORING:** 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Tests and Notes Elev. Depth (ASTM D 2487/2488) Symbol 1203.4 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1202.4 1.0 OL (Topsoil) provided by MSA. **LEAN CLAY** greyish brown, wet to very wet, CL rather soft. 4 PP = 0.25 tsf, MC = 27.7%(Loess / Alluvium) 4 PP = 0.25 tsf_1196.9 6.5 SANDY SILT very fine grained, brown, moist, ML loose. 10 MC = 19.7%(Alluvium) 9.0 1194.4 **LEAN CLAY** brown, wet, medium to rather stiff. CL (Glacio-Fluvium) 8 PP = 1.25 tsf, MC = 20.4%13 Dark brown around 12.5 feet. PP = 1.0 tsf, MC = 22.0%14.0 1189.4 SANDY LEAN CLAY trace gravel, brown, wet, CL very stiff to hard. 26 PP = 2.5 tsf, MC = 13.9%(Glacial Till) Trace seams of sand below 16 feet. ∇ 23 PP = 4.5 tsf44 1182.4 21.0 End of boring. Water observed around 16.5 feet during drilling. Boring sealed upon completion.

STRUCTURE)

CHOSEN VALLEY TESTING

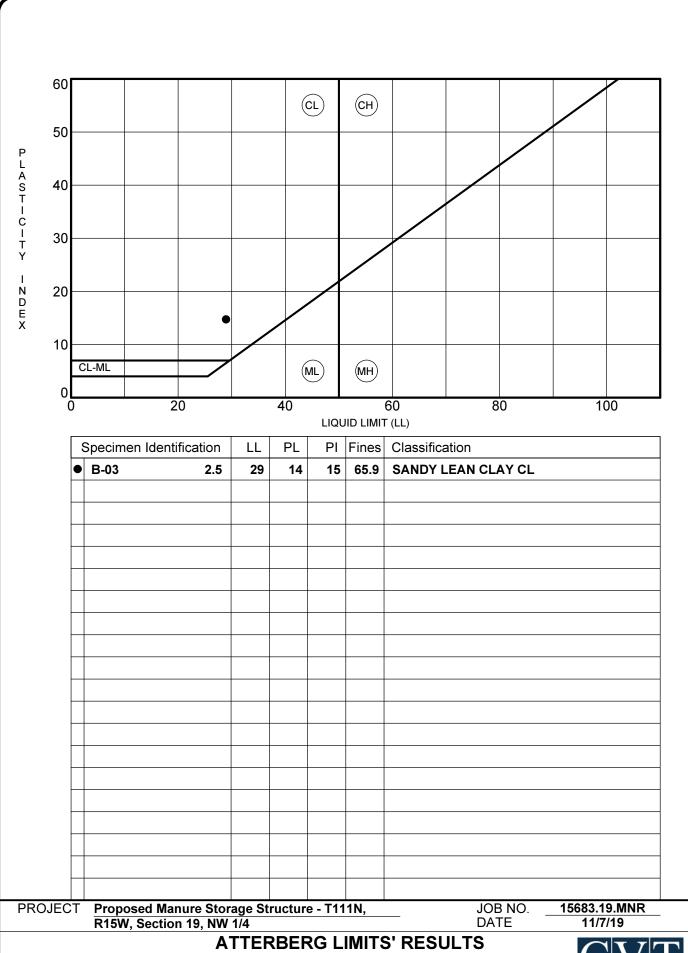


B-10 PROJECT: 15683.19.MNR **BORING:** Design Phase Geotechnical Evaluation LOCATION: Proposed Manure Storage Structure See attached sketch T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials **BPF** WL Elev. Depth Tests and Notes (ASTM D 2487/2488) Symbol 1199.9 0.0 Slightly Organic LEAN CLAY black. Ground surface elevation CL 1198.9 1.0 OL (Topsoil) provided by MSA. **LEAN CLAY** grey to brown, trace pin roots, very CL wet, soft to rather soft. 3 PP = 0.25 tsf(Loess / Alluvium) 4 PP = 0.5 tsfMC = 26.6%1193.4 6.5 LEAN CLAY with SAND brown, wet, medium. CL (Alluvium) 7 PP = 1.0 tsfMC = 18.5%7 PP = 0.5 tsf1188.4 11.5 SANDY LEAN CLAY trace gravel, brown, wet, CL *6/50 = 5"hard. PP = 3.5 tsf(Glacial Till) 1186.4 13.5 ∇ MC = 14.3%SILTY GRAVEL with SAND fine to coarse GM grained, trace cobbles, grey, water bearing, very *50 = 3" (Set)dense. (Glacial Till) * *50 = 2" (Set)1179.9 20.0 *50 = 1" (Set)End of boring. Water observed around 13.5 feet during drilling. Boring sealed upon completion.

CHOSEN VALLEY TESTING

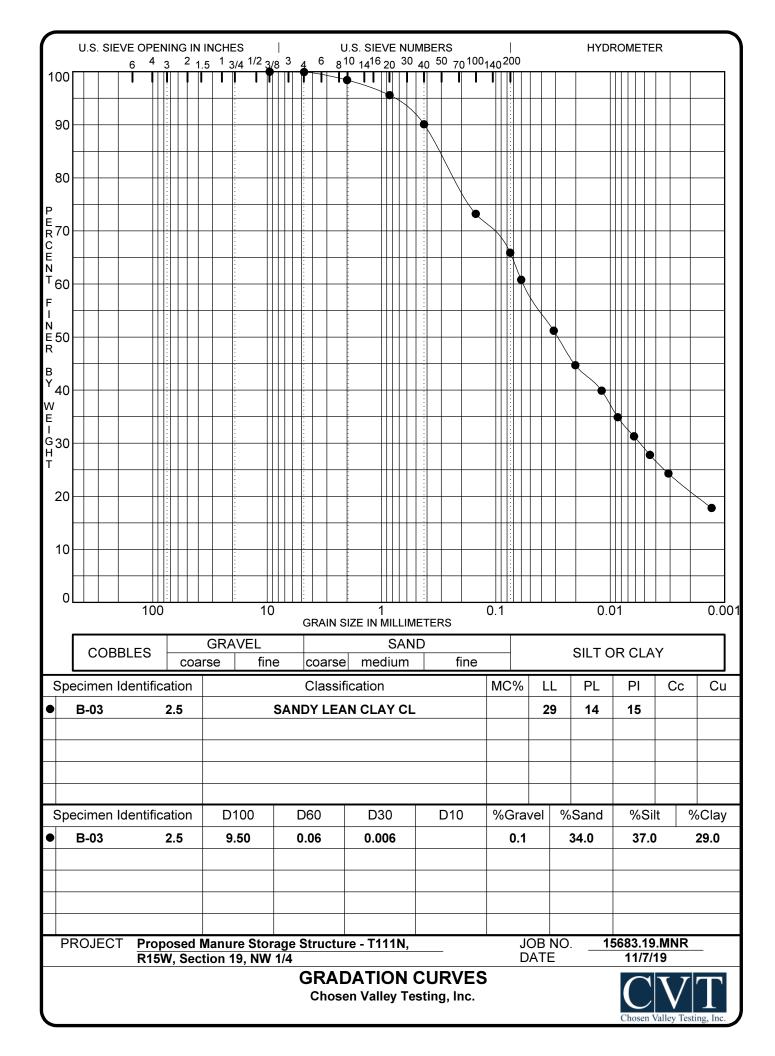


B-11 PROJECT: **BORING:** 15683.19.MNR Design Phase Geotechnical Evaluation LOCATION: See attached sketch Proposed Manure Storage Structure T111N, R15W, Section 19, NW 1/4 Goodhue Twp., Goodhue Co., Minnesota SCALE: 1'' = 4'DATE: 10/8/2019 **USCS** Description of Materials BPF WL Tests and Notes Elev. Depth Symbol (ASTM D 2487/2488) 1209.8 0.0 Slightly Organic LEAN CLAY black. CL Ground surface elevation _1208.8 1.0 OL (Topsoil) provided by MSA. **LEAN CLAY** brown, very wet, rather soft to CL medium. 5 PP = 0.25 tsf(Loess / Alluvium) MC = 27.2%6 PP = 0.75 tsf1202.3 7.5 7 CL LEAN CLAY with SAND trace gravel, brown, MC = 17.2%wet, medium. (Alluvium / Glacio-Fluvium) 8 PP = 1.25 tsf-1198.8 11.0 End of boring. Water not observed during drilling. Boring sealed upon completion.



Chosen Valley Testing, Inc.





UNIFIED SOIL CLASSIFICATION (ASTM D-2487/2488) **MATERIAL GROUP** CRITERIA FOR ASSIGNING SOIL GROUP NAMES SOIL GROUP NAMES & LEGEND SYMBOL **TYPFS** Cu>4 AND 1<Cc<3 GW WELL-GRADED GRAVEL **GRAVELS CLEAN GRAVELS** <5% FINES Cu>4 AND 1>Cc>3 GP POORLY-GRADED GRAVEL COARSE-GRAINED SOILS >50% RETAINED ON NO. 200 SIEVE >50% OF COARSE FRACTION RETAINED ON NO 4. SIEVE FINES CLASSIFY AS ML OR CL GM SILTY GRAVEL **GRAVELS WITH FINES** >12% FINES FINES CLASSIEY AS CLOR CH GC **CLAYEY GRAVEL** SW WELL-GRADED SAND SANDS Cu>6 AND 1<Cc<3 **CLEAN SANDS** <5% FINES Cu>6 AND 1>Cc>3 SP POORLY-GRADED SAND >50% OF COARSE FRACTION PASSES SILTY SAND FINES CLASSIFY AS ML OR CL SM SANDS AND FINES ON NO 4. SIEVE >12% FINES FINES CLASSIFY AS CL OR CH SC **CLAYEY SAND** PI>7 AND PLOTS>"A" LINE CL LEAN CLAY SILTS AND CLAYS **INORGANIC** FINE-GRAINED SOILS >50% PASSES NO. 200 SIEVE SILT LIQUID LIMIT<50 PI>4 AND PLOTS<"A" LINE MI **ORGANIC** ORGANIC CLAY OR SILT OI LL (oven dried)/LL (not dried)<0.75 PI PLOTS >"A" LINE CH **FAT CLAY** SILTS AND CLAYS **INORGANIC**

PI PLOTS <"A" LINE

PRIMARILY ORGANIC MATTER, DARK IN COLOR, AND ORGANIC ODOR

Relative Proportion	Relative Proportions of Sand and Gravel						
TERM	PERCENT						
Trace With Modifier	< 15 15 - 29 > 30						
Relative Proportions of Fines							
TERM	PERCENT						
Trace With Modifier	< 5 5 - 12 > 12						
Grain Size Terminology							
TERM	SIZE						
Boulder Cobble Gravel Sand Silt or Clay	> 12 in. 3 in 12 in. #4 sieve to 3 in. #200 sieve to #4 sieve Passing #200 sieve						

ORGANIC

LIQUID LIMIT>50

HIGHLY ORGANIC SOILS

PLASTICITY CHART 80 70 60 СН 40 30 CL 20 TITITI CL-ML TITIL ML 30 20 70 80 50 60 90 100 110 120 LIQUID LIMIT (%)

SAMPLE TYPES

Hollow Stem

LL (oven dried)/LL (not dried)<0.75

Standard Penetration Test

TEST SYMBOLS

MOISTURE CONTENT MC 11 LIQUID LIMIT ОС ORGANIC CONTENT ы PLASTISITY INDEX CONSOLIDATION CN sw SWELL TEST DD

MH

ОН

РΤ

ELASTIC SILT

PEAT

ORGANIC CLAY OR SILT

DRY DENSITY Unconsolidated Undrained triaxial

PP POCKET PENETROMETER

RV R-VALUE SIEVE ANALYSIS P200 -% PASSING #200 SIEVE

WATER LEVEL (WITH TIME OF) MEASUREMENT

PENETRATION RESISTANCE (RECORDED AS BLOWS / 0.5 FT)							
SAND & 0	GRAVEL		SILT & CLAY				
RELATIVE DENSITY	BLOWS/FOOT*	CONSISTENCY	BLOWS/FOOT*	COMPRESSIVE STRENGTH (TSF)			
VERY LOOSE	0 - 4 4 - 10	VERY SOFT SOFT	0 - 1 2 - 3	0 - 0.25 0.25 - 0.50			
MEDIUM DENSE	10 - 30	RATHER SOFT MEDIUM	4 - 5 6 - 8	0.50 - 1.0			
DENSE	30 - 50	RATHER STIFF STIFF	9 - 12 13 - 16	1.0 - 2.0			
VERY DENSE	OVER 50	VERY STIFF HARD	17 - 30 OVER 30	2.0 - 4.0 OVER 4.0			

NUMBER OF BLOWS OF 140 LB HAMMER FALLING 30 INCHES TO DRIVE A 2 INCH O.D. (1-3/8 INCH I.D.) SPLIT-BARREL SAMPLER THE LAST 12 INCHES OF AN 18-INCH DRIVE (ASTM-1586 STANDARD PENETRATION TEST).

Chosen Valley Testing, Inc.

Job No. 15683.19.MNR

LEGEND TO SOIL DESCRIPTIONS



(GOODHUE MANUE STORAGE STRUCTURE).GPJ

11/7/19



Karst Evaluation:

Proposed Manure Storage Structure
Buck's Unlimited Farm
T111N R15W Section 19 NW ¼
Goodhue Township, Goodhue County, Minnesota

Prepared for:

Mr. Andrew Skwor, P.E. MSA Professional Services, Inc.

November 8, 2019 15683.19.MNR

Certification:



I hereby certify that this report was prepared by me or under my direct supervision, and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Devin M. Ehler, PE

Geotechnical Engineer

Registration Number 52649

Date: November 8, 2019

Chosen Valley Testing, Inc.

Geotechnical Engineering and Testing • 1410 7th Street N.W. • Rochester, MN 55904 • Telephone (507) 281-0968 www.chosenvalleytesting.com • rochester@chosenvalleytesting.com

Mr. Andrew Skwor, P.E. MSA Professional Services, Inc. 1230 South Boulevard Baraboo, WI 53913 askwor@msa-ps.com November 8, 2019

Re: Karst Evaluation

Proposed Manure Storage Structure

Buck's Unlimited Farm

T111N R15W Section 19 NW 1/4

Goodhue Township, Goodhue County, Minnesota

CVT Project Number: 14979.19.MNR

Dear Mr. Skwor,

As authorized, a karst survey has been performed for the proposed manure storage structure at the Buck's Unlimited Farm in Goodhue Township, Goodhue County, Minnesota. The karst site walk was performed on October 25, 2019. This brief letter and attachments describe our findings.

Background and Scope

The proposed project consists of the construction of a new earthen manure basin at the Buck's Unlimited Farm site in Goodhue Township, Goodhue County, Minnesota. Our scope consisted of reviewing available geologic data and performing a walk-over survey of the site to investigate for potential karst features.

Chosen Valley Testing performed 11 standard penetration test borings on site on October 8, 2019 to investigate subsurface soil and bedrock conditions. Six of these borings were performed for the proposed manure storage location. The borings generally encountered about 1 to 1 ½ feet of topsoil, followed by loessial/alluvial clays to depths of approximately 5 to 11 ½ feet. Glacial sandy clays dominantly followed along with some sands, silts, and gravels to planned termination depths around 46 to 70 ½ feet below the surface at the proposed manure storage structure location, and to depths around 11 to 21 feet at the other 5 boring locations.

Area of Investigation

The karst investigation was performed around the Buck's Unlimited Farm property located in T111N, R15W, Section 19, NW 1/4. This is located in Goodhue Township in Goodhue County, Minnesota.

Summary of Desktop Findings

Available aerial photography, topographic data, geologic data, and soil survey data were reviewed. Based on the Goodhue County Surficial Geology Map, the dominant soil types within 1,000 feet of the site generally consist of loessial (wind-deposited) clays and silts overly unsorted glacial till deposited clay, silt, and sand mixtures. According to the County Bedrock Geology map the underlying bedrock within 1,000 feet of the site is indicated to be on the order of 100 to 200 feet of the surface, with the uppermost formation consisting of St. Peter Sandstone. This geological information is illustrated in the attachments labelled "Surficial Geology Sketch" and "Bedrock Geology Sketch".

The attachment labeled "Sinkhole Probability Sketch" shows the location of the site, approximate ½ mile radius of the proposed structure location, 1,000-foot radius of the proposed structure location, and the Minnesota DNR published karst features. As shown on that sketch, no published karst features are mapped within a ½ mile radius of the site. The closest published karst features are sinkholes located about 3 ½ miles northeast of the site, springs approximately 4 miles or more northeast of the site, and a stream sink/sieve roughly 3 ¾ miles southeast of the site.

Summary of Site Findings

A karst walk survey was performed on October 25, 2019. The area investigated consisted of approximately a 1,000-foot radius of the proposed manure storage structure location. The site is located on the edge of a farm field on the east side of the existing Buck's Unlimited Farm, which has an existing manure storage structure, several barns, sheds, silos, and a house on the property. The land within 1,000 feet of the site mainly consisted of harvested farm fields with a few grass covered water ways to the north, east, and west, and the Buck farm that was described earlier to the west. The harvested farm fields contained corn stalks 1-foot in height or less and grass in waterways was ½-foot tall or less, allowing for good ground visibility. The topography of the land included rolling hills going from high to low from the southwest to the northeast. Water was observed flowing in the waterways, which was likely from run-off and possibly some seepage due to rain earlier in the week. The weather prior to the survey had consisted of the wettest year on record with seasonal temperature. It was sunny and in the lower 50 degrees Fahrenheit the day of the site walk. General site photos can be seen in the attached Photos #1 through #6.

During our site walk, no sinkholes, depressions, caves, springs, disappearing streams, karst windows, or blind valleys were observed.

A wet grass area in the field to the northeast of the proposed site was observed as can be seen in the attached "Topographic Sketch" and Photos #7 and #8. This wet area is believed to be caused by perching and seepage of water above the very stiff, low permeable glacial clays dominantly found with depth on site.

Some granite cobbles and boulders were also observed in the grass waterway to the northwest of the site and stockpiled on the Buck Farm property. Attached Photos #9 and #10 illustrate this.

MINNESOTA IOWA WISCONSIN

Analysis

Based on the results of our desktop study and our subsequent reconnaissance of the site, no karst features were observed within a 1,000-foot radius of the proposed manure storage structure location.

According to the Minnesota Rules Chapter 7020, manure in an earthen-lined pit must be kept at least 20 feet above soluble bedrock, with this rule further dependent on pit size/animal units, the use of additional liners, and other karst factors. Bedrock was not encountered during our exploration and is mapped on the order of 100 to 200 feet below the surface on site.

The County Feedlot officer or Minnesota Pollution Control Agency (MPCA) should be contacted to determine the type of preparations needed for this facility in consideration of the several factors involved.

Level of Care

The services provided for this project have been conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in this area, under similar budget and time constraints. This is our professional responsibility. No other warranty, expressed or implied, is made.

Remarks

CVT appreciate the opportunity to provide services on this project. If you have any questions about our findings, please feel free to contact us at (507) 281-0968.

Sincerely,

Chosen Valley Testing, Inc.

Devin M. Ehler, PE Geotechnical Engineer

Karst Feature Inventory Reporting Form For a Proposed Liquid Manure Storage Area (LMSA)

The purpose of this form is to provide documentation regarding all karst features identified within ½ mile from the facility. Additional follow-up inspections may be needed by qualified individuals to assess potential karst features. Submit this form and required map(s) along with your plans and specifications for the LMSA.

Propos	ed LMSA Location			
County	Goodhue	Townshin:	Goodhue	

County:	Goodhue		Township:	Goodhue	Sec	t.:	19	¼ Sect.:	NW
Facility C	Owner Name:	Buck's Unlimited I	-arms		Phone:	(65	51) 923	-5418	
Inspec	ctor Inform	nation							
Name:	Devin M. Ehl	er, PE			Date of Field Inspectio	n: _	10/25	/2019	
Compan	y/Organization	: Chosen Valley	Testing, Inc.		Phone	: <u>(</u>	507) 2	81-0968	
				•	consisted of approximate	•			

the proposed manure storage structure location. The site is located on the edge of a farm field on the east side of the existing Buck's Unlimited Farm, which has an existing manure storage structure, several barns, sheds, silos, and a house on the property. The land within 1,000 feet of the site mainly consisted of harvested farm fields with a few grass covered water ways to the north, east, and west, and the Buck farm that was described earlier to the west. The harvested farm fields contained corn stalks 1-foot in height or less and grass in waterways was ½-foot tall or less, allowing for good ground visibility. The topography of the land included rolling hills going from high to low from the southwest to the northeast. Water was observed flowing in the waterways, which was likely from run-off and possibly some seepage due to rain earlier in the week. The weather prior to the survey had consisted of the wettest year on record with seasonal temperature.

Field Conditions (snow cover, vegetation, etc.):

Karst Feature Inventory Documentation

The inspector must review existing map resources for all land within ½ mile of the proposed site and must also conduct a visual on-site inspection of the land within 1,000 feet of the proposed site, traversing the land closely enough to identify small sinkholes or other karst features. The following documentation is required.

- 1. Where sinkhole probability maps exist, attach a copy of the map showing the location of the LMSA and all sinkholes within ½ mile.
- 2. Attach a copy of an aerial photograph showing the location of the LMSA and all karst features within ½ mile.
- 3. Number each Karst feature on the aerial photograph and provide a description in the following table:

	re Sketch ID Description	Source of information	Feature size and description	Distance from LMSA & Other information
Ex.	Depression in the landscape	Walk-over survey	12 feet in diameter and 1-2 feet deep	Located 500 feet from LMSA
N/A			None Observed.	



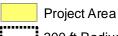


Topographic Sketch

Proposed Manure Storage Structure T111N R15W, Section 19, NW ¼ Goodhue Twp, Goodhue Co, MN 15683.19.MNR

0 500 1,000 2,000 Feet

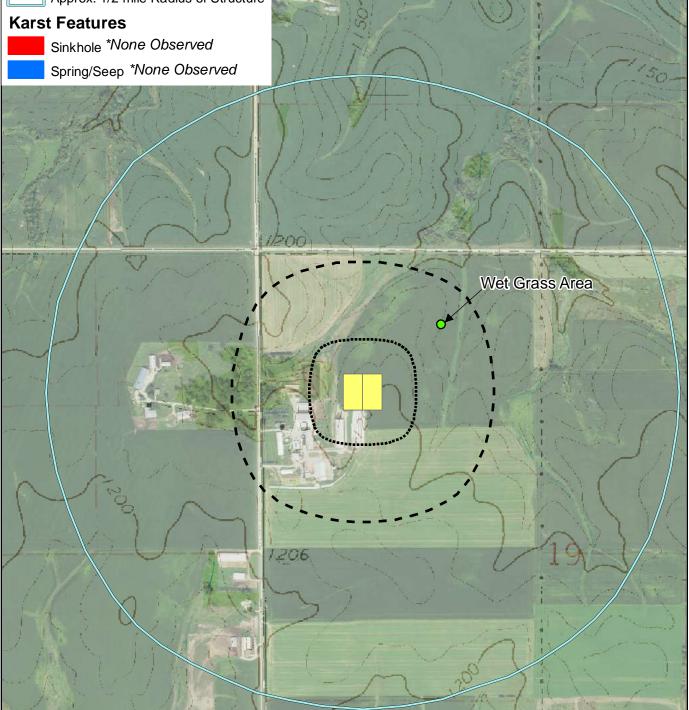
Legend



300 ft Radius of Structure

1,000 ft Radius of Structure

Approx. 1/2 mile Radius of Structure



- 1. MnGeo WMS service (aerial photography), Statewide 2017 color FSA.
- 2. MnGeo WMS service (quad sheet drgs). Scanned 24k DRG.

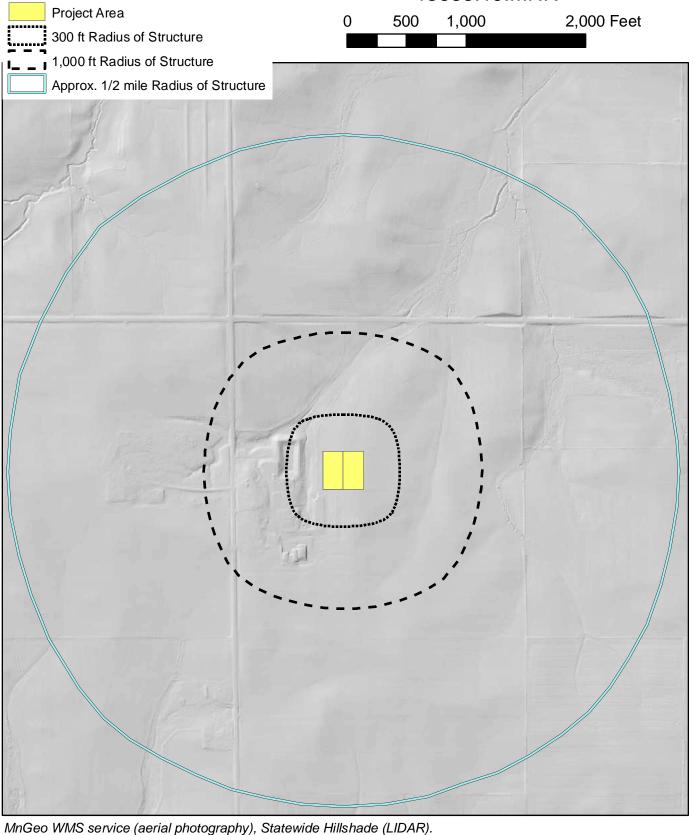




LiDAR Sketch

Proposed Manure Storage Structure T111N R15W, Section 19, NW ¼ Goodhue Twp, Goodhue Co, MN 15683.19.MNR

Legend







Sinkhole Probability Sketch

Proposed Manure Storage Structure T111N R15W, Section 19, NW ¼ Goodhue Twp, Goodhue Co, MN 15683.19.MNR

0 0.5 1 2 Miles

Legend

Project Area

300 ft Radius of Structure

1,000 ft Radius of Structure

Approx. 1/2 mile Radius of Structure

Published Karst Features

Sinkhole

Stream sink/sieve

Spring

Spring - not field checked

Sinkhole Probability

no sinkhole probability

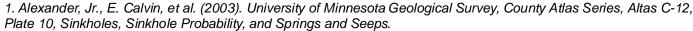
low sinkhole probability

low-mod. sinkhole probability

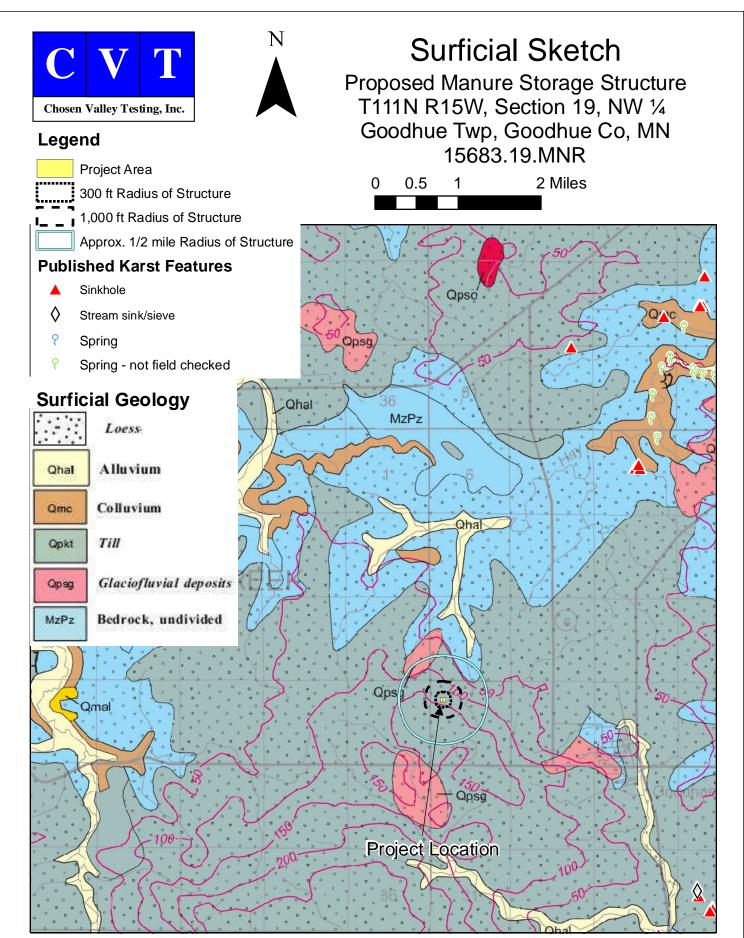
mod.-high sinkhole probability high sinkhole probability

sinhole plains

Project Location



2. Minnesota DNR Karst Feature Inventory Data Points - http://deli.dnr.state.mn.us/ or http://www.gis.state.mn.us/stds/metadata.htm



1. Hobbs, Howard C. and Setterholm, Dale R. (1998). University of Minnesota Geological Survey, County Atlas Series, Altas C-12, Part A, Plate 3 - Surficial Geology and Thickness of Quaternary Sediments.

2. Minnesota DNR Karst Feature Inventory Data Points - http://deli.dnr.state.mn.us/ or

http://www.gis.state.mn.us/stds/metadata.htm





Bedrock Sketch

Ós.

Proposed Manure Storage Structure T111N R15W, Section 19, NW 1/4 Goodhue Twp, Goodhue Co, MN 15683.19.MNR

Ops

0.5 1 2 Miles

Ós

Os

Os

Legend

Project Area

300 ft Radius of Structure

1,000 ft Radius of Structure

Approx. 1/2 mile Radius of Structure

Published Karst Features

Sinkhole

Stream sink/sieve

Spring

Spring - not field checked

Ogp - Prosser Limestone

Ogc - Cummingsville Formation

Od - Decorah Shale

Opl - Platteville Formation

Os - St. Peter Sandstone

Ops - Shakopee Formation

Opd - Oneota Dolomite

Cj - Jordan Sandstone

Csf - St. Lawrence & Franconia Formations

Cig - Ironton & Galesville Sandstones

Ce - Eau Claire Formation

Cmt - Mt. Simon Sandstone



1. Runkel, Anthony C. (1998). University of Minnesota Geological Survey, County Atlas Series, Altas C-12, Part A, Plate 2 - Bedrock Geology.

2. Minnesota DNR Karst Feature Inventory Data Points - http://deli.dnr.state.mn.us/ or http://www.gis.state.mn.us/stds/metadata.htm

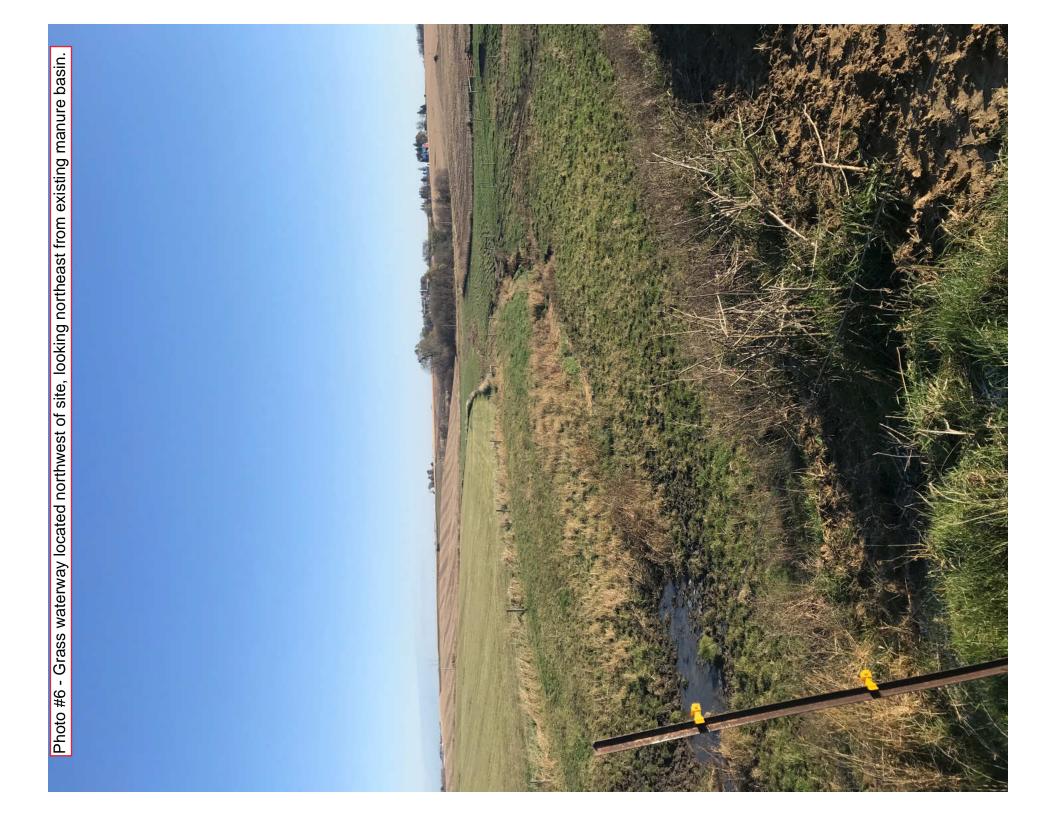








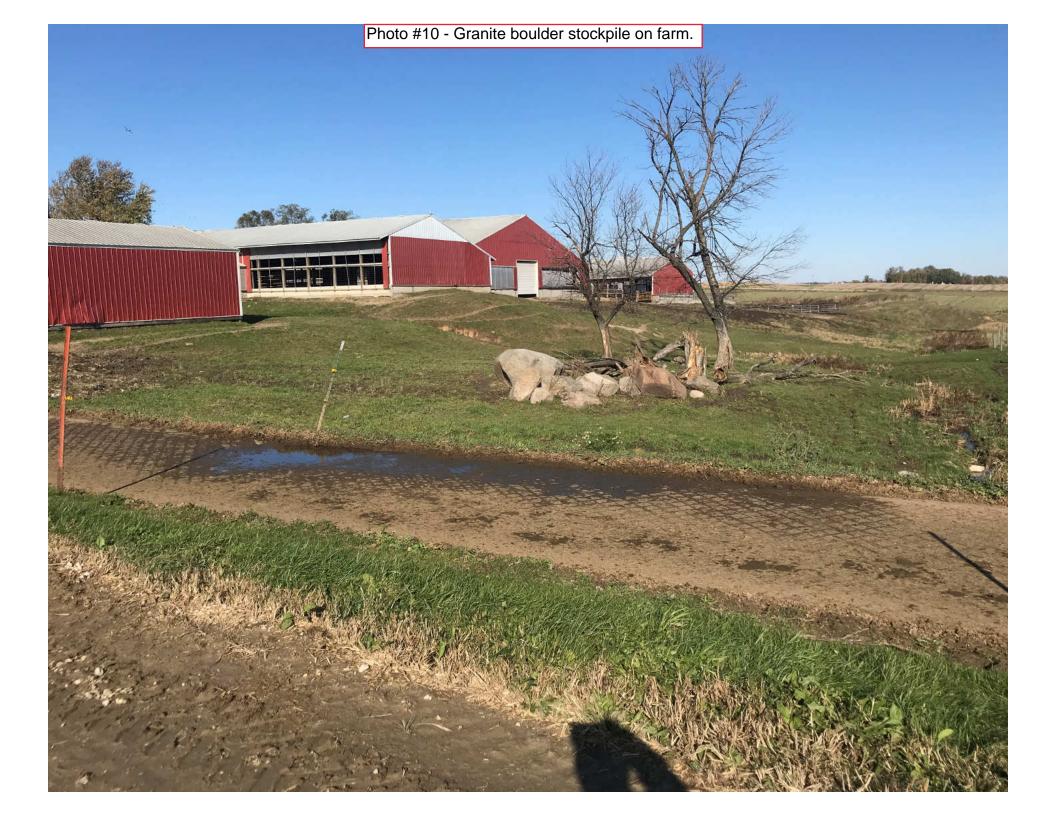












Goodhue County Land Use Management

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 Advisory Commission

From: Land Use Management **Meeting Date:** November 18, 2019 **Report date:** November 8, 2019

<u>PUBLIC HEARING: CUP Request to Elevate a Structure within a Floodplain by Means Other than Fill</u>

Request submitted by James Plehal (Owner) to elevate a proposed storage building above the base flood elevation of a Floodplain area by means of foundational walls.

Application Information:

Applicant: James Plehal (Owner)

Address of zoning request: 27882 Greens Point RD, Red Wing, MN 55066

Parcel(s): 43.210.0840

Abbreviated Legal Description: Lot 14, Block 6 of Wacouta Beach Plat located in Sect 32 Twp 113,

Range 13 in Wacouta Township

Zoning District: R1 (Suburban Residence District)

Attachments and links:

Application and submitted project summary (excerpt of submitted materials; full submittal available from LUM Department upon request)

Site Map(s)

Article 4, Section 4 CUP Floodplain review addendum

Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Summary:

The Applicant (James Plehal) salvaged and relocated a 40-foot x 22-foot garage roof onto his property in 2017 to reuse as part of a planned personal storage building for his lakefront property on Greens Point. He is proposing to use the garage roof and associated components as part of a two-story garage that would have shop/workspace area on the second level. The entire property is within the floodplain of the Mississippi River.

FEMA rules divide the floodplain areas of lakes and rivers into 2 distinct zones referred to as the "floodway" (areas in the path of flowing water during flood events) and the "flood-fringe" (areas inundated with floodwater during flood events). The proposed garage would be constructed within the "flood-fringe" areas on the property. Structures may be built within the flood-fringe provided they are either elevated to the Regulatory Flood Protection Elevation (RFPE) or "floodproofed" in accordance with floodplain regulations. The RFPE is the Base Flood Elevation plus one foot of "free-board."

The primary method for elevating to the RFPE is to construct the building on fill. Alternative methods for elevating a structure's lowest floor to the RFPE such as by stilts, pilings, parallel walls, crawl spaces, or tuck-under garages require the issuance of a CUP. The Applicant is proposing to use a combination of fill and floodproofed foundational walls to elevate his proposed building.

It should be noted the structure was moved onto the property without appropriate permits in 2017 and has remained in the same spot propped up on pallet blocking since. Staff received complaints regarding the unpermitted structure and, though the Applicant has fully cooperated with staff, he failed to make genuine progress towards resolving the matter and an Ordinance Violation citation

was issued. Mr. Plehal has an agreement in place to remedy the violation by completing the construction of the building or removing it from the premises before the end of the year.

Goodhue County Zoning Ordinance: Article 4 Conditional/Interim Uses

No CUP/IUP shall be recommended by the County Planning Commission unless said Commission specifies facts in their findings for each case which establish the proposed CUP/IUP will not be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, will not substantially diminish and impair property values within the immediate vicinity, will not impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area, that adequate measures have been, or will be, taken to provide utilities, access roads, drainage and other necessary facilities, to provide sufficient off-street parking and loading space, to control offensive odor, fumes, dust, noise and vibration so that none of these will constitute a nuisance, and to control lighted signs and other lights in such a manner that no disturbance to neighboring properties will result.

Project Summary:

Property/Building Information:

- The subject property consists of a single parcel comprising approximately 24,458 square feet. The property is zoned R1 (Suburban Residence District) and is located within the Wacouta Beach Plat (1920). Per GCZO Article 24 the minimum lot size for an R1 parcel platted prior to September 2019 is 20,000 square feet so it is a conforming parcel for lot area. The parcel does meet current requirements for minimum lot width (100 feet).
- Parcel access is located off of Greens Point Drive on the west end of the parcel. Emergency vehicle access to the site is limited during flood events as there is no dryland access route available to serve Greens Point during the higher flood stages. Flooding along the Mississippi River is generally not a "flash flood" and residents have ample time to evacuate the area as necessary.
- The property is bordered by R1 zoning districts on all sides. Adjacent land uses are primarily medium-to-low density residential. The Mississippi River (Lake Pepin) borders the property to the east.
- The applicant intends to construct a 40-foot x 22-foot 2-story garage with second-floor workspace area atop a 9-foot tall poured concrete wall foundation. The lowest floor of the structure would be constructed above 3 feet of fill material to provide some flood protection for the first floor of the building. The Applicant intends to place fill to a depth of 3 feet in a 15-foot perimeter of the garage in accordance with floodplain fill placement practices to provide greater stability during a flood event.

Though the 3 feet of fill will provide some relief during lesser flood events, the fill doesn't elevate the lowest structure of the floor to the RFPE as required by ordinance.

The "tuck under" garage area would be used for parking and cold storage only.

Floodplain:

- The Base Flood Elevation (BFE) at the site has been determined to be 681.5 feet mean sea level. The RFPE is therefore 682.5 feet mean sea level. The proposed building location is not within the FEMA identified floodway portion of the floodplain.
- Per GCZO Article 32, Section 5 Alternative elevation methods other than the use of fill may be utilized to elevate a structure's lowest floor above the RFPE. These alternative methods may include the use of stilts, pilings, parallel walls, etc., or above grade enclosed areas such as crawl spaces or tuck under garages. The base or floor of an enclosed area shall be considered above grade and not a structure's basement or lowest floor if:
 - 1. If the enclosed area is above grade on at least one side of the structure.
 - 2. Is designed to internally flood and is constructed with flood-resistant materials.
 - 3. Is used solely for parking of vehicles, building access or storage.

The above noted alternative elevation methods are subject to the following additional standards:

- a. Design and Certification. The structure's design and as-built condition must be certified by a registered professional engineer or architect as being in compliance with the general design standards of the State Building Code and, specifically, that all electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities must be at or above the RFPE or be designed to prevent floodwater from entering or accumulating within these components during times of flooding.
- b. Specific Standards for Above Grade, Enclosed Areas. Above grade, fully enclosed areas such as crawl spaces or tuck under garages must be designed to internally flood and the design plans must stipulate:
 - i. A minimum area of "automatic" openings in the walls where internal flooding is to be used as a flood-proofing technique. There shall be a minimum of two openings on at least two sides of the structure and the bottom of all openings shall be no higher than one (1) foot above grade. The automatic openings shall have a minimum net area of not less than one square inch for every square foot of enclosed area subject to flooding unless a registered professional engineer or architect certifies that a smaller net area would suffice. The automatic openings may be equipped with screens, louvers, valves or other coverings or devices provided that they permit the automatic entry and exit of floodwaters without any form of human intervention.
 - ii. That the enclosed area will be designed of flood-resistant materials in accordance with the FP-3 or FP-4 classifications in the State Building Code and shall be used solely for building access, parking of vehicles, or storage.
- The applicant is proposing to elevate the worksplace floor, as well as all machinery and equipment servicing the building to 690 feet mean sea level. The existing grade around the structure was surveyed at 677 feet mean sea level by Johnson-Schofield surveying. The addition of the proposed 3 feet of fill would elevate the lowest floor elevation to 680 feet mean sea level.
- The applicant intends to submit engineered plans which will detail a series of automatic openings (Flood Flaps) spaced grade around the perimeter of the structure.
 - A building permit will need to be reviewed and approved by the Department prior to construction of the facility. Goodhue County Building Permits Department staff will review the submitted engineering plans to ensure proposed floodproofing meets applicable engineering standards.

Shoreland:

- The lot is considered a conforming lot of record as it contains the minimum 20,000 square feet lot area required for riparian lots on unsewered General Development lakes.
- The entire property is located within the shoreland overlay of the Mississippi River. As required, the structure would be setback greater than 75 feet from Ordinary High Water Level (OHWL).
- The structure as proposed satisfies shoreland impervious surface standards (maximum 25%), R1 building coverage limits (maximum coverage 20%), and shoreland height requirements (maximum height 25 feet).

Septic/Well:

Goodhue County Environmental Health has approved a sanitary permit to construct a replacement Type-2 "box-mound" septic system that would be installed and operated in compliance with MPCA rules for SSTS located in Floodplains. The proposed SSTS is proposed to be shared and provide sanitary facilities for the subject parcel as well as the Applicant's adjacent parcel to the south (PID 43.210.0880).

Township Information:

 Wacouta Township reviewed the Applicant's proposal and has approved a permit for the structure subject to county zoning approvals.

Draft Findings of Fact:

The following staff findings shall be amended to reflect concerns conveyed during the PAC meeting and public hearing.

- 1. The proposed garage 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 in the immediate vicinity. The garage is being located so as to provide as little viewshed blockage of the water for neighboring property owners as is practical. The structure would be similar to those already existing in the vicinity of Greens Point and would be constructed in conformance with current building code and zoning ordinance standards.
- 2. The establishment of the proposed garage is not anticipated to impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area. The structure is proposed to meet all development standards of the Goodhue County Zoning Ordinance. The use as proposed appears compatible with existing adjacent land uses.
- 3. A review of the applicants submitted project summary indicates adequate utilities, access roads, drainage, and other necessary facilities are available or will be installed to accommodate the proposed use.
- 4. 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.
- 5. No offensive odor, fumes, dust, noise, light, or vibration that would constitute a nuisance are anticipated from the proposal.

Staff recommendation is based on the review of the submitted application and project area prior to the public hearing.

Staff Recommendation:

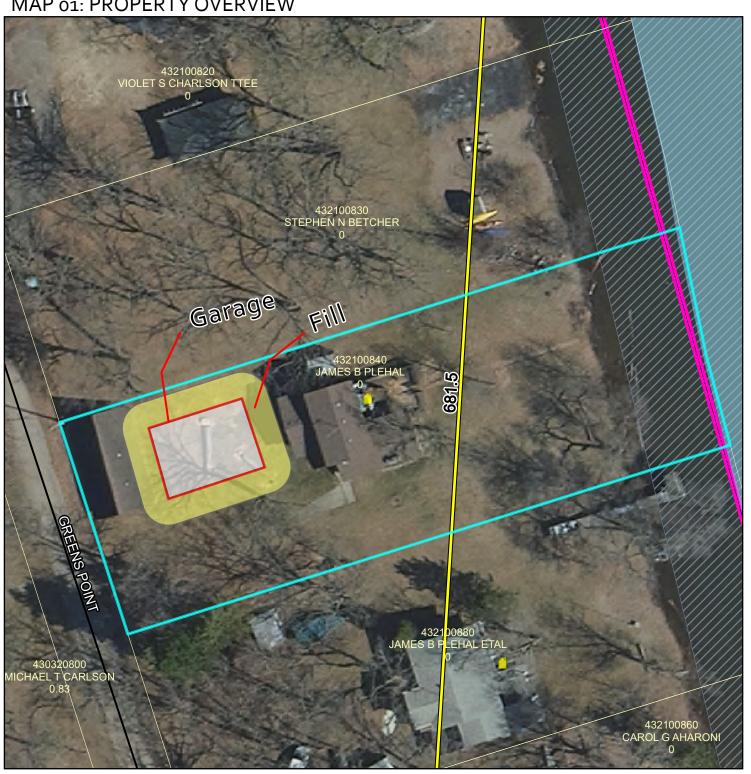
LUM Staff recommends the Planning Advisory Commission

- 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

Recommend that the County Board of Commissioners **APPROVE** the request submitted by James Plehal (Owner) to elevate a proposed storage building above the base flood elevation of a Floodplain area by means of foundational walls. 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;
- Applicant shall provide an as-built Elevation Certificate verifying final grade and floor elevations and that all electrical, heating, ventilation, plumbing and air conditioning equipment and other service facilities meet or exceed the regulatory flood protection elevation (RFPE) of 682.5 feet mean sea level;
- 3. Compliance with Goodhue County Zoning Ordinance including, but not limited to, Article 24 (Suburban Residence District), Article 31 (Shoreland Regulations), and Article 32 (Floodplain District).

MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

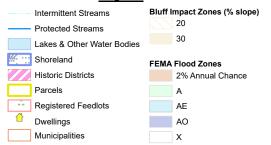
Public Hearing November 18, 2019

James Plehal **R1 Zoned District**

Lot 14, Block 6 of Wacouta Beach Plat S32 T113, R13 in Wacouta Township

CUP request to elevate a structure to RFPE by means other than fill

Legend



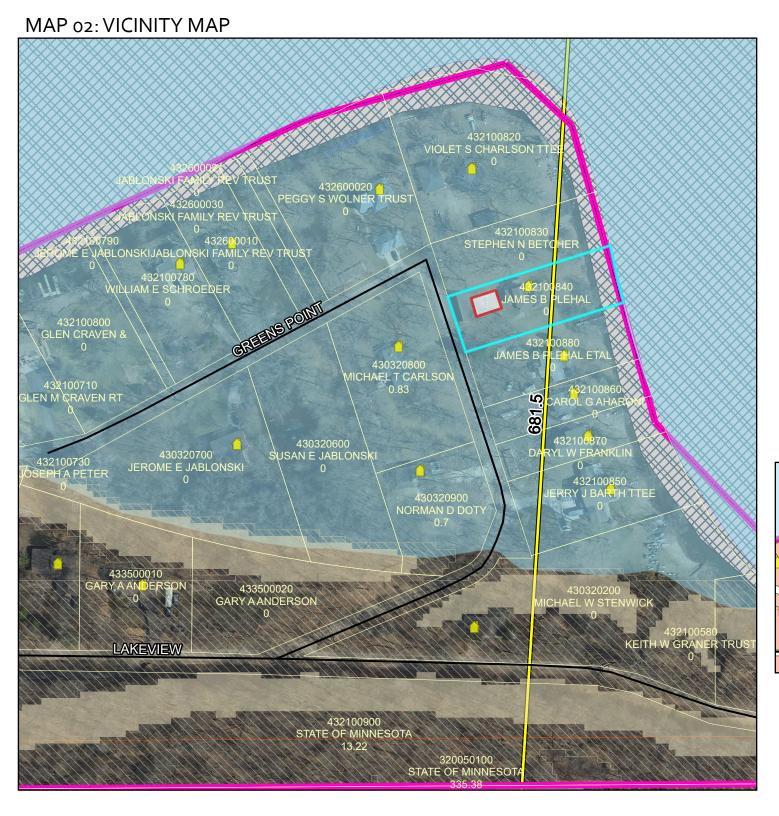


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PLANNING COMMISSION

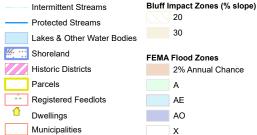
Public Hearing November 18, 2019

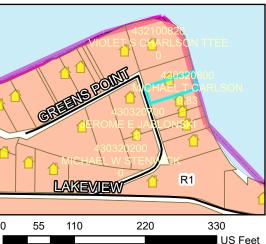
James Plehal R1 Zoned District

Lot 14, Block 6 of Wacouta Beach Plat S32 T113, R13 in Wacouta Township

CUP request to elevate a structure to RFPE by means other than fill

Legend





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MAP 03: ELEVATIONS



PLANNING COMMISSION

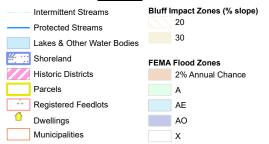
Public Hearing November 18, 2019

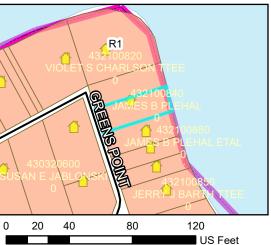
James Plehal **R1 Zoned District**

Lot 14, Block 6 of Wacouta Beach Plat S32 T113, R13 in Wacouta Township

CUP request to elevate a structure to RFPE by means other than fill

Legend





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Article 4, Section 4 CUP Floodplain review

Subd. 4. CUP/IUP applications for projects in a floodplain or shoreland area, shall consider all relevant factors specified in other sections of this Ordinance, and:

A. The danger to life and property due to increased flood height or velocities caused by encroachments.

The structure will not be located within the Floodway of the Mississippi River. The Applicant proposes to place 3 feet of fill below the structure and within a 15-foot wide perimeter of it. Approximately 400 cubic yards of material would be needed. The Applicant has been granted a Land Alteration Permit to place the fill within the Floodplain/Shoreland area as required by Ordinance. The structure will be designed to internally flood to the Base Flood Elevation. No increase in the flood stage is anticipated to occur as a result of the proposal.

B. The danger that materials may be swept onto other lands or downstream to the injury of others or they may block bridges, culverts or other hydraulic structures.

It is not anticipated that structure will create downstream hazards due to materials blocking bridges, culverts, or other hydraulic structures.

C. The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination, and unsanitary conditions.

The Applicant has applied to construct a replacement Type-2 "box-mound" septic system that would be installed and operated in compliance with MPCA rules for SSTS located in Floodplains. The proposed SSTS is proposed to be shared and provide sanitary facilities for the subject parcel as well as the Applicant's adjacent parcel to the south (PID 43.210.0880).

D. The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.

The structure will be required to meet all zoning and building code requirements for buildings located within a floodplain including flood-proofing, using flood-resistant materials, and elevating all living spaces and mechanical components/services above the RFPE.

E. The importance of the services provided by the proposed facility to the County.

The structure is not proposed to provide any services to the County.

F. The requirements of the facility for a waterfront location.

The structure will be required to adhere to all provisions of the Article 31 Shoreland Regulations including impervious surface limits, OHWL setbacks, and vegetation management.

G. The availability of alternative locations not subject to flooding for the proposed use.

The entirety of the subject parcel is located within the floodplain of the Mississippi River and was platted as such.

H. The compatibility of the proposed use with existing development and development anticipated in the foreseeable future.

The Wacouta Beach plat was developed in 1920 to provide medium-density residential lots along the Lake Pepin waterfront. There are 14 existing residences in the floodplain area of Greens Point. There is an existing dwelling on the parcel that the Applicant intends to improve in the future that will likely need CUP approval to comply with floodplain regulations as well. The proposal appears compatible with the existing and anticipated development patterns of the Point.

I. The relationship of the proposed use to the Comprehensive Plan and Floodplain Management Program for the area.

The Goodhue County Comprehensive Plan encourages the maintenance and administration of the Floodplain regulations consistent with Minnesota Administrative Rules 6120.5400 (Floodplain Management Rules) which are the basis for the County's current Floodplain Regulations.

J. The safety of access to the property in times of flood for ordinary and emergency vehicles.

Emergency vehicle access to the site can be limited during flood events as there is no dryland access route to the dwellings on Greens Point when floodwaters reach higher levels. Flooding along the Mississippi River is generally not a "flash flood" and residents have ample time to evacuate the area as necessary.

K. The expected heights, velocity, duration, rate of rise, and sediment transport of the flood waters expected at the site.

The structure will not be located within the Floodway of the Mississippi River. The structure is designed to internally flood and the limited amount of fill (400 cubic yards) is not anticipated to cause an increase in the flood stage of the river.

L. Such other factors which are relevant to the purposes of this Ordinance.

1

GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

Parcel # R 43,210,0840

Permit 219-0048

PROPERTY OWNER INF	ORMATION			
Last Name Plehal	First	James	Email:	
Street Address 1015	W. 4 % St.	V V	Phone	
city Red Wine	W. YR St_ State WW Z	ip FAG6 A	attach Legal Description	as Exhibit "A"/ <mark></mark> 🛣
Authorized Agent		Р	hone	
Mailing Address of Landowner	: Same			
Mailing Address of Agent:				
PROJECT INFORMATION	V			
Site Address (if different than	above): 27882 <i>6</i>	pon's Poir	it Road	
Bu, R 40 x 22 KE OF 3/ Import UP regional as DISCLAIMER AND PROFI I hereby swear and affirm that acknowledge that this applicate	Structure Dimensions (if a use permit request for? I MERILS of the York to including discussion of how an bout house gar. PERTY OWNER SIGNATURE the information supplied to Good inaccurate or untrue. I hereby get matter. By Agent:	applicable) A Fill to ris y potential conflicts wege struct The struct Il insufficie BE odhue County Land U should the County de	We also ve 100 with existing nearby land when the state of the state of the above mentioned as the above mentioned	the 10 gu flood where above 100 ment is accurate and true. I
	ownship acknowledges being Township's official approval			ve. In no way does signing
Signature	·	Title		Date
Comments:				7.5
COUNTY SECTION (COUNTY FEE \$350	RECEIPT #	DATE PAID 10	125 19
Applicant requests a CUP/IUP	oursuant to Article Section	Subdivision	of the Goodhue Cour	nty Zoning Ordinance
What is the formal wording of	the request?			
Shoreland Lake/Stre	am Name		Zoning District	
Date Received	Date of Public Hearing	DNR N	lotice City Notice	ce
Action Taken:Approve	Deny Conditions:			

GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

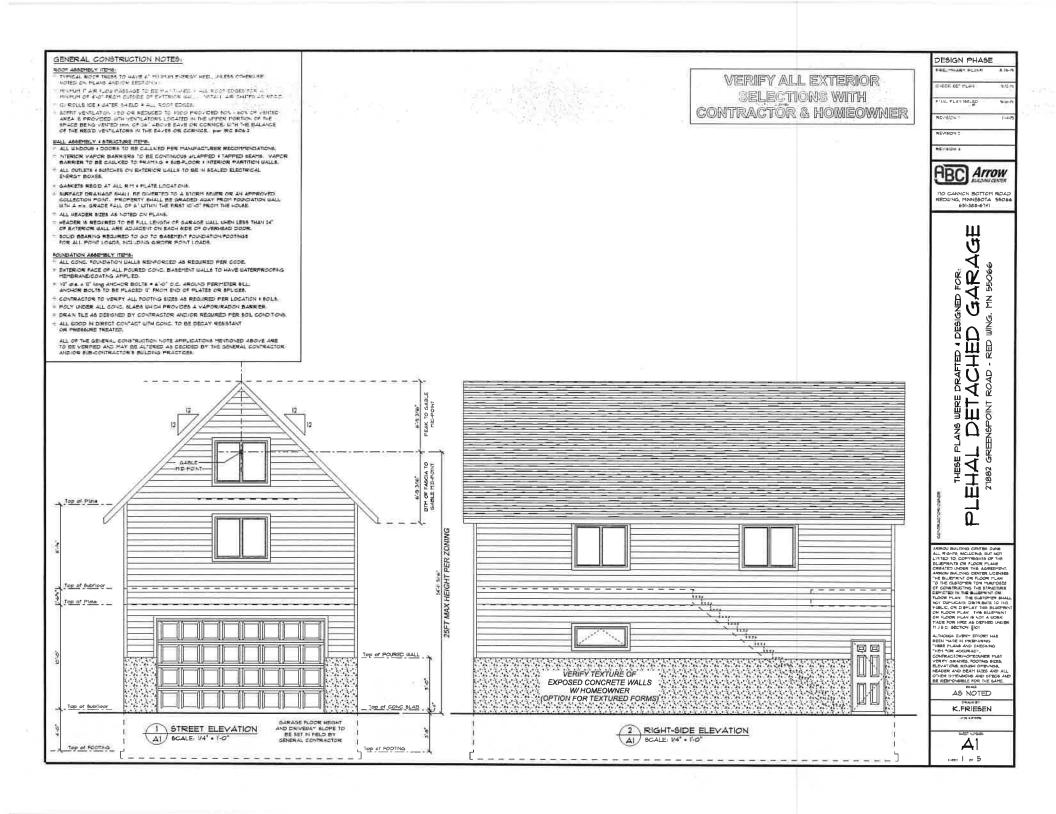
PROJECT SUMMARY

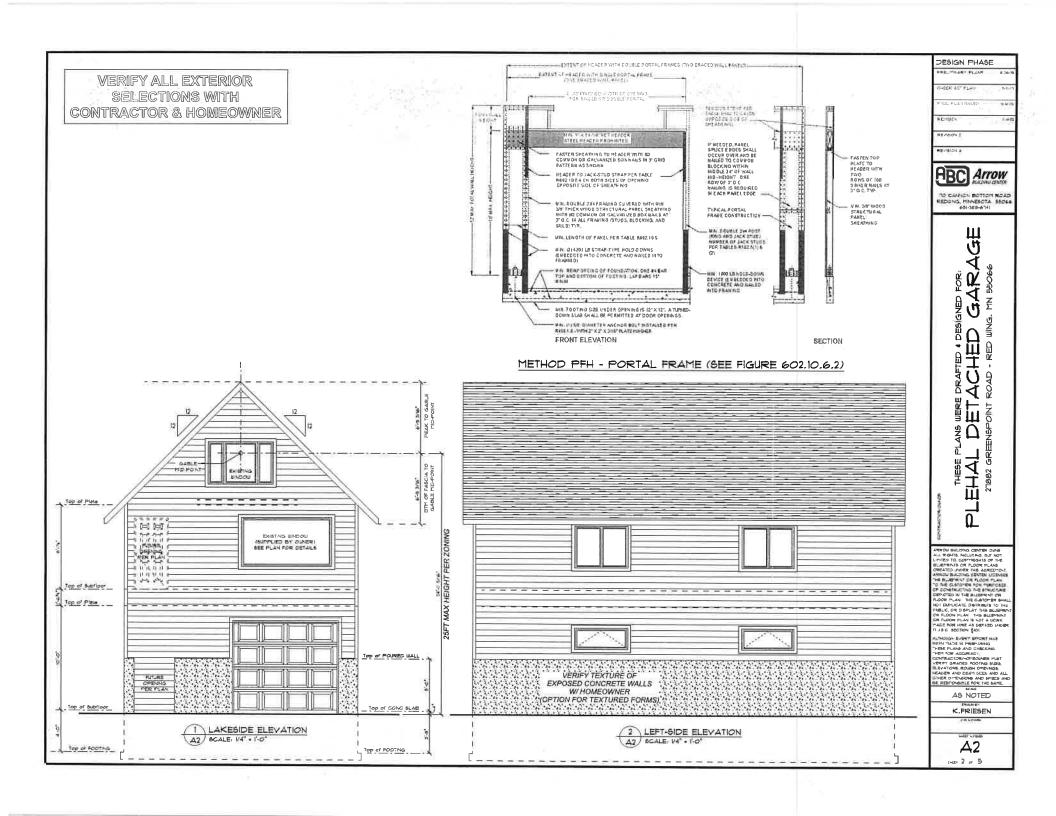
Please provide answers to the following questions in the spaces below. If additional space is needed, you may provide an attached document.

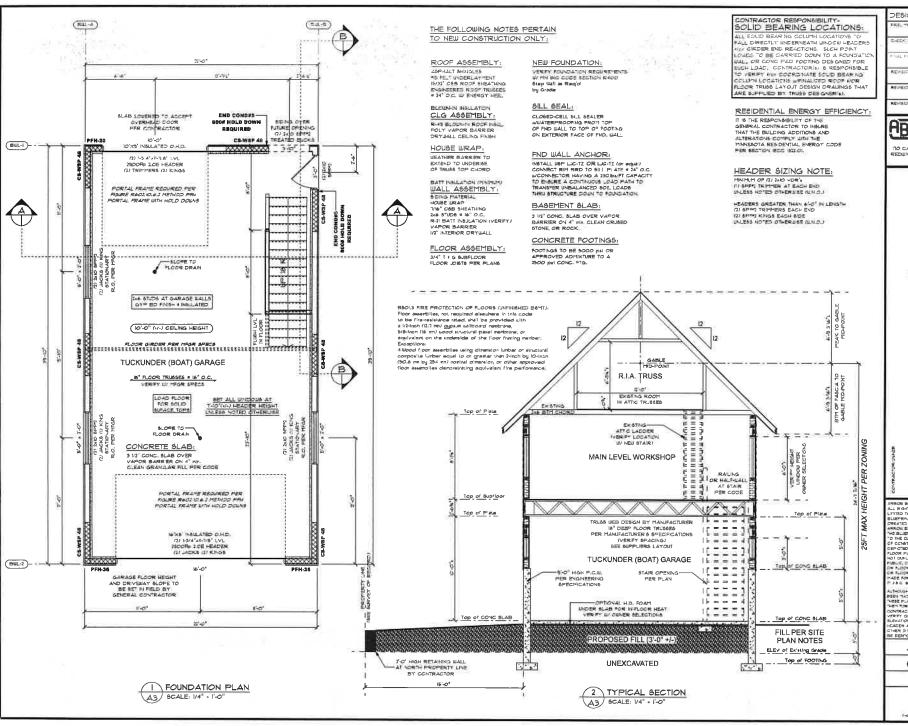
1. Description of purpose and planned scope of operations (including retail/wholesale activities). 40/x22/ bout house parvice workshop utility space . Water front 1 of with existing family home. Bringing in 33 fill braise 5 tructure at least I foot about 10-re flood line. Engineering 2. Planned use of existing buildings and proposed new structures associated with the proposal. 2. Planned use of existing buildings and proposed new structures associated with the proposal. 4 house (10 wer level) workshop [utility area (second level)
3. Proposed number of non-resident employees.
4. Proposed hours of operation (time of day, days of the week, time of year) including special events not within the normal operating schedule. Normal Sauity USE hours
5. Planned maximum capacity/occupancy.
6. Traffic generation and congestion, loading and unloading areas, and site access. 10 FORE Circ added, Norwal Faul y US
7. Off-street parking provisions (number of spaces, location, and surface materials). NA Perking is a FF sheet.
8. Proposed solid waste disposal provisions. Repulser family waste pick up
9. Proposed sanitary sewage disposal systems, potable water systems, and utility services. NOTICE GAS SELECTRICITY, Well MATER, Septic for Saurbory Severy

(Continued) to install flood instigation regulireauties

10. Existing and proposed exterior lighting.
proposed - alditional 5 lights
11. Existing and proposed exterior signage. 11. Existing and proposed exterior signage.
12. Existing and proposed exterior storage. V/A ~ none
13. Proposed safety and security measures. Code COMPlance
14. Adequacy of accessibility for emergency services to the site. Wacouta Township control Gervice - Redding Fire, Goodhue County Sher. A
15. Potential for generation of noise, odor, or dust and proposed mitigation measures.
16. Anticipated landscaping, grading, excavation, filling, and vegetation removal activities. (etaining wall) rock for imported fill (2 2 feet light)
17. Existing and proposed surface-water drainage provisions. Nature
18. Description of food and liquor preparation, serving, and handling provisions.
19. Provide any other such information you feel is essential to the review of your proposal.







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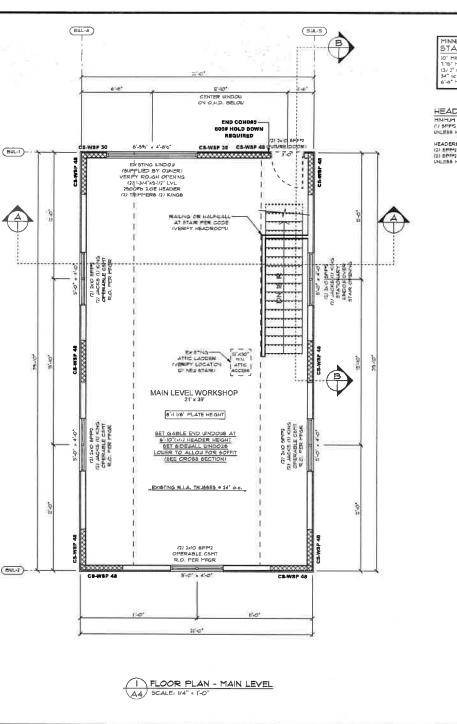
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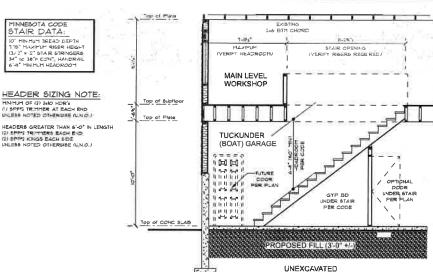
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BRACED WALL KEY

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R602.10

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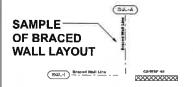
1) PANEL METHOD POP TABLE 602.10 4
CHAMPS - CONTINUOUSLY GHEATHED LOUGH STRUCTURAL PANEL
CB-0 - CONTINUOUSLY GHEATHED CRUPE AT CYPRHEAD DOOR OPENING
PRIM - POPTAL REARIE WITH HOLD CRUME

2 STAIR SECTION A4 SCALE: 1/4" = 1'-0"

2) BRACED WALL LINE SPACING REQUIREMENTS POR TABLE 602(0.13 (90 mph wind speed, exposure B : 2 3TORY 60'0" was. BRACED WALL LINE SPACING

- 3) BRACED WALL PAREL TO BE FULL HEIGHT SECTIONS THAT SHALL HAVE NO VERTICAL OR HORIZONTAL OFFESTS per R602,00 2 4'-0' OFFSET EACH WAY 16 PERMITTED
- 4) A BRACED WALL PANEL SHALL BE WITHN 10"-0" FROM EACH END OF A BRACED WALL LINE NOT GREATER THAN 20"-0" BETWEEN BRACED WALL PANELS OF REOTION 2.
- 5) BRACING REQUIREMENTS per TABLE 602.00.3/1: SEE SIMPBON WALL BRACING GALCULATOR FOR TABULATIONS
- """NOTE: SEE WALL BRACING LINES TABLE PROVIDED
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- G) TABLE 603:10 & BRACED WALL PANEL MIN, LENGTH
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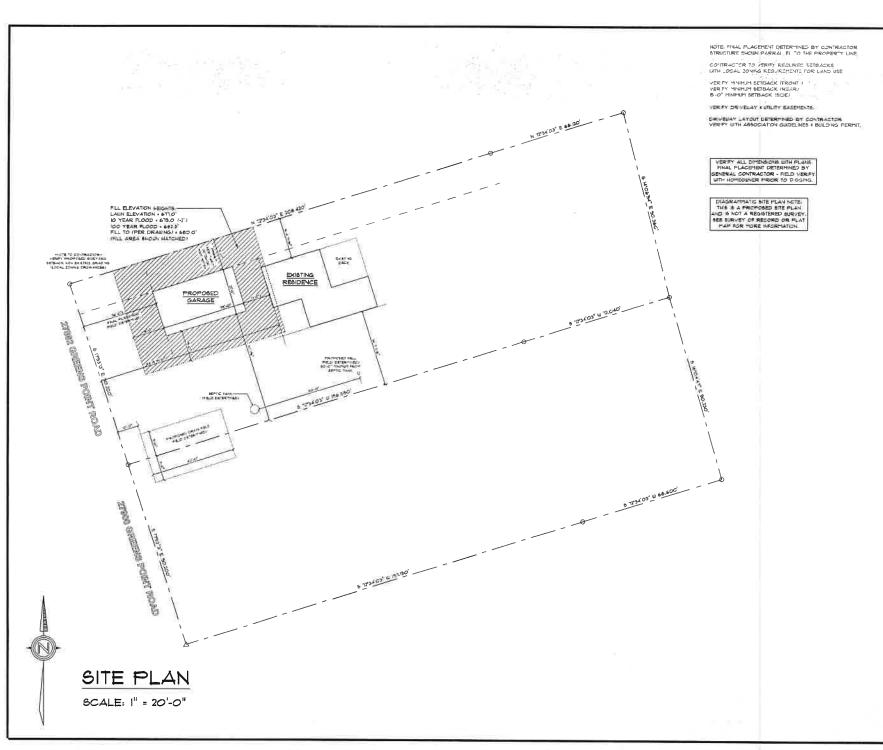
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REVISION 1 1-173

REVISION 3



TO CANNON BOTTOM ROAD REDUNG, HAMESOTA SOCIAL 637-308-6741

THESE PLANS WERE DRAFTED & DESIGNED FOR PLEHAL DETACHED GARAGE 17892 GREENSPOINT ROAD - RED WING, MN 55066

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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

Planning Advisory Commission To:

From: Land Use Management **Meeting Date:** November 18, 2019 **Report date:** November 8, 2019

PUBLIC HEARING: Request for Map Amendment (Rezone)

Request for map amendment, submitted by Goodhue County Land Use Management Department, to rezone approximately 87.69 acres from A1 (Agricultural Protection District) to PT (Parks and Trails District).

Application Information:

Applicant: Goodhue County

Address of zoning request: No site address has been assigned as of yet.

Parcel(s): 36.180.0010, 36.150.0090 and 36.130.0010

Abbreviated Legal Description: Goodhue County Kenyon Park, Lot 1, Block 1; and, Lot 1 Auditor's Subdivision of the South Half of the Northwest Quarter of Section 7, and Part of Lot 11 Auditor's Subdivision of the Southwest Quarter of Section 7 south of the southerly bank of the Zumbrota River in Kenyon Township.

Township Information: Kenyon Township has been made aware of this Zoning Map Amendment. They have not adopted a Parks zoning district. Their township meeting is scheduled for November 11. **Zoning District: A1 (Agricultural Protection Zone)**

Attachments and links:

Application and submitted project summary Site Map(s) **Project Review** Goodhue County Zoning Ordinance (GCZO):

http://www.co.goodhue.mn.us/DocumentCenter/View/2428

Nielson Memorial Preserve Master Plan and Appendix

https://www.co.goodhue.mn.us/1209/Nielsen-Memorial-Preserve

Summary:

On June 18, 2019, the County Board approved an amendment to the Zoning Ordinance to establish a Parks and Trails (PT) District (Article 34). The purpose of this district is to preserve, conserve, and protect open space and recreation areas throughout the County. It is intended that this district will accommodate a wide variety of open space and recreational uses such as conservation of natural amenities, hiking, trails, wildlife habitat, educational programs, and park and recreation facilities among other similar uses. The District shall be applied only to Goodhue County owned property reserved for recreational parks or trails. The district is intended to coordinate with Goodhue County parks and trails Master Plans and Comprehensive Plans by allowing uses consistent with those plans.

The property included as part of the Zoning Map Amendment being presented for consideration by the Planning Advisory Commission is known as the Nielsen Memorial Preserve and is located within Section 7 of Kenyon Township at the western boundary of Goodhue County.

The Nielsen Memorial Preserve consists of approximately 88 acres of land that is a "Big Woods" remnant in Section 7 of Kenyon Township. The majority of this property was donated to the County by the estate of Harold Nielsen in early 2016. Home to a diverse range of plants and wildlife, this park will provide a refuge for many different species and a great hiking and observing opportunity for park visitors. The park has diverse terrain with an even, level area towards the northern side of the park, as well as several ravines that lead down to the North Fork of the Zumbro River.

This park land does not yet have any parking areas, trails, or amenities.

Goodhue County has approved a master plan that will guide future development, management, restoration, and enhancement of the park. The Nielson Memorial Preserve Master Plan was approved on December 7, 2017 and included opportunities for public input.

The Parks and Trails District represents the most appropriate zone district for the intended use of the Nielson Memorial Preserve as a Goodhue County Park.

Project Summary:

Property Information:

- The subject property consists of three parcels of property comprising approximately 88 acres.
- The property is currently zoned A1. Adjacent and nearby properties to the north, east and south are also located within the A1 Zone District. Rezoning the subject parcel to the PT District would not appear to have any substantial negative impacts to the existing and potential future uses of the surrounding zoning districts. The Nielson Memorial Preserve is located at the western boundary of Goodhue County. The western boundary of the preserve abuts property located within Rice County's Agriculture Zone District.
- The Nielson Memorial Preserve is surrounded by other wooded properties along with a limited number of nearby rural residential properties. A limited amount of tilled cropland is located on abutting properties in the general vicinity of the Preserve.
- The subject properties are not located within a Historic Preservation District. It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.
- The Nielson Memorial Preserve property includes areas within the Floodplain and Shoreland Overlay Zone along the North Branch of the Zumbro River which is located along the southern boundary of the Preserve.

Existing/Proposed Uses:

• The Nielson Memorial Preserve is an undeveloped natural area that has been in private ownership until recently. The site's native forest landscape has varying topography. The North Fork of the Zumbro River traverses the south part of the park, but access to the river is difficult. Proposed use of the Park Preserve includes various passive and active recreational uses are provided for in the plan as well as Outdoor Education programming.

Planning Information:

- The PT District is intended to coordinate with Goodhue County Parks and Trails Master Plans and Comprehensive Plans by allowing uses consistent with those plans. Proposed uses and programming for the Nielson Memorial Preserve are identified in Nielson Memorial Preserve Master Plan.
- The property is not currently used for agricultural purposes. The Prime Farmland Rating for Agriculture is as follows:

		Amount	% of	
Soil Name	Slope	(acres)	Total	Prime Farmland Rating
Coland, Spillville	0-2%	6.2	7.4%	Not prime farmland

Kasson Silt Loam	Kasson Silt Loam 2-6%		47.9%	Prime Farmland	
Oran Silt Loam	1-4%	8.3	10%	Prime Farmland	
Maxfield Silt Loam	0-2%	8.5	10.2%	Prime Farmland	
Bassett-Racine Complex	18-25%	13.4	16%	Not Prime Farmland	
Bassett-Kasson Complex 6-12%		7.1	8.5%	Farmland of Statewide Importance	

The proposed rezone appears compatible with the objectives and implementation strategies of the Goodhue County Comprehensive Plan:

"Encourage development of new parks"

"Develop a master plan for the Kenyon Park"

Since the land has already been assembled for the Nielsen Memorial Preserve and the master plan is complete; the change of zone of the park property from the A1 District to the PT District represents a logical step to best facilitate land use regulation and permitting for development of park facilities and to guide overall land management practices.

Rezoning of the Nielsen Memorial Preserve property from the A1 District to the PT District will
not negatively impact nearby agricultural or residential uses. The Park is already in place and
the master planning process has identified future development and uses that are consistent with
public preferences.

Staff Recommendation:

LUM Staff recommends the Planning Advisory Commission

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

recommend that the County Board of Commissioners **APPROVE** the map amendment request initiated by Land Use Management Department Staff on behalf of the County to rezone Parcels 36.180.0010, 36.150.0090 and 36.130.0010 from A1 (Agricultural Protection District) to PT (Parks and Trails District).

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

Project Review per Article 3, Section 2, Subd. 5-10:

- Subd. 5 A. The names and addresses of the petitioner or petitioners and their signatures to the petition. **Goodhue County LUM**
 - B. Survey information: **See application**
 - C. The current and proposed district: A1 to PT
 - D. The current use and the proposed use of the land.

The property is currently vacant with dense tree coverage. The property is proposed to be used as a County Park nature preserve.

- E. The reason for the requested change of zoning district. The Parks and Trails Zoning District is intended to preserve, conserve and protect open space and recreation areas throughout the County.
- F. A copy of the soil map showing the soils types within the proposed boundary and the surrounding area. **A soils map for the site has been prepared.**
- G. Prime Farmland Rating of the soil types in F.
- The Prime Farmland Rating for Agriculture is as follows:

Soil Name	Slope	Amount (acres)	% of Total	Prime Farmland Rating
Coland, Spillville	0-2%	6.2	7.4%	Not prime farmland
Kasson Silt Loam	2-6%	40.2	47.9%	Prime Farmland
Oran Silt Loam	1-4%	8.3	10%	Prime Farmland
Maxfield Silt Loam	0-2%	8.5	10.2%	Prime Farmland
Bassett-Racine Complex	18-25%	13.4	16%	Not Prime Farmland
Bassett-Kasson Complex	6-12%	7.1	8.5%	Farmland of Statewide Importance

- H. A statement of how the requested change is compatible with the Goodhue County Comprehensive Plan including but not limited to the following:
 - 1. The environmental impacts of the proposed use of land on the:
 - a. Groundwater
 - b. natural plant and animal communities
 - c. existing trees and vegetation
 - d. Bluffland stability
 - e.shoreland stability
 - 1. The Southern portion of the property is in the Shoreland District and Floodplain. There are some steep slopes classified as Bluffland in this area as well. There will be no environmental impacts due to the proposed rezone as the area will be preserved as a County Park.
 - 2. The compatibility with surrounding land uses
 - The area is characterized by primarily low-density residential with agricultural uses. Rezoning the parcels to PT will allow for the preservation of the land and the proposed use as a County Park.
 - 3. The physical and visual impacts on any scenic or historic amenities within or surrounding the proposed parcel.
 - It is not anticipated that any scenic or historic amenities will be negatively impacted as a result of the proposed rezone.
- Subd. 6 The housing density of the affected Section
 - Single family dwellings are not a permitted use in the PT District.
- Subd. 7 The impact on any surrounding agricultural uses

The property is not currently used for agricultural purposes. Surrounding agricultural properties will not be impacted by the proposed rezone.

Subd. 8 The impact on the existing transportation infrastructure

The property does not currently have an address or public access point. Proposed access would be off of Monkey Valley.

Subd. 9 The impact on surrounding zoning districts

The property is currently zoned A1. Adjacent zoning districts in Goodhue County are all zoned A1. Rice County borders the property directly to the west.

Subd. 10 A statement concerning the cumulative effect and compatibility of the requested zoning change on the affected Township and any cities located within 2 miles of the proposed parcel.

Rezoning the subject parcel to PT does not appear to have negative cumulative effects on the immediate surrounding area or the City of Kenyon. The area is characterized by primarily low-density residential uses mixed with agricultural uses. Rezoning the 88 acres to PT would not appear to have any substantial negative impacts to the existing or potential future uses of the surrounding zoning districts.

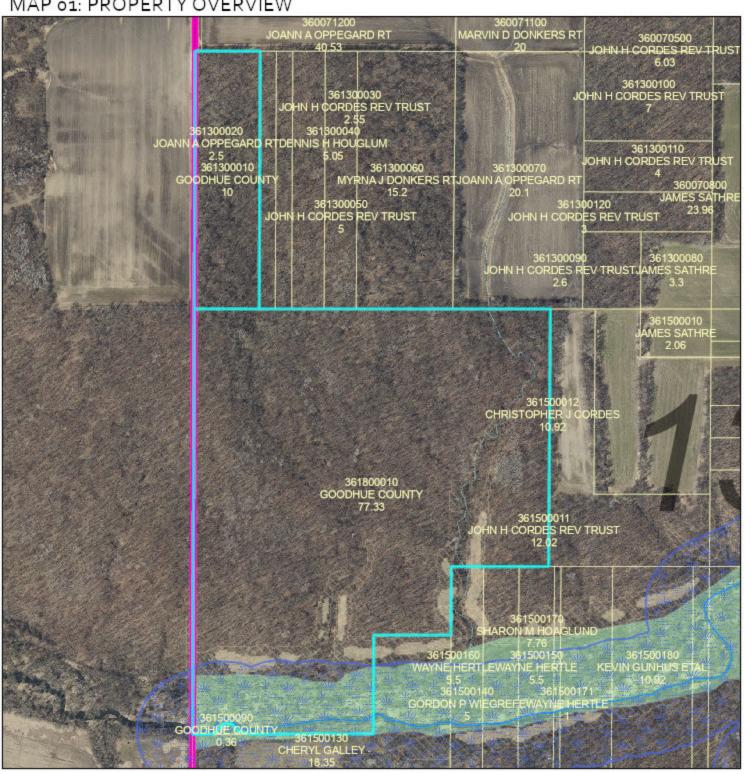
Subd. 11. Additional information as may be requested by the Planning Commission or zoning staff.



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI	
1027A	Coland, frequently flooded- Spillville, occasionally flooded complex, 0 to 2 percent slopes	6.2	7.4%	
M506B	Kasson silt loam, 2 to 6 percent slopes	40.2	47.9%	
M508A	Oran silt loam, 1 to 4 percent slopes	8.3	10.0%	
M510A	Maxfield silt loam, 0 to 2 percent slopes	8.5	10.2%	
M522E	Bassett-Racine complex, 18 to 25 percent slopes	13.4	16.0%	
M523C2	Bassett-Kasson complex, 6 to 12 percent slopes, eroded	7.1	8.5%	
Totals for Area of Interest		83.7	100.0%	

MAP 01: PROPERTY OVERVIEW



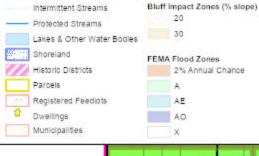
PLANNING COMMISSION

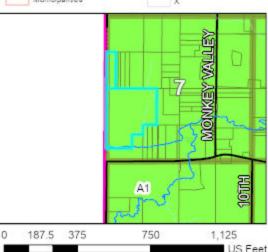
Public Hearing November 18, 2019

Kenyon Park A1 Zoned District

Parcels 36.180.0010, 36.150.0090 and 36.130.0010 Part of the W1/2 of S7 Twp110 R18 in Kenyon Township

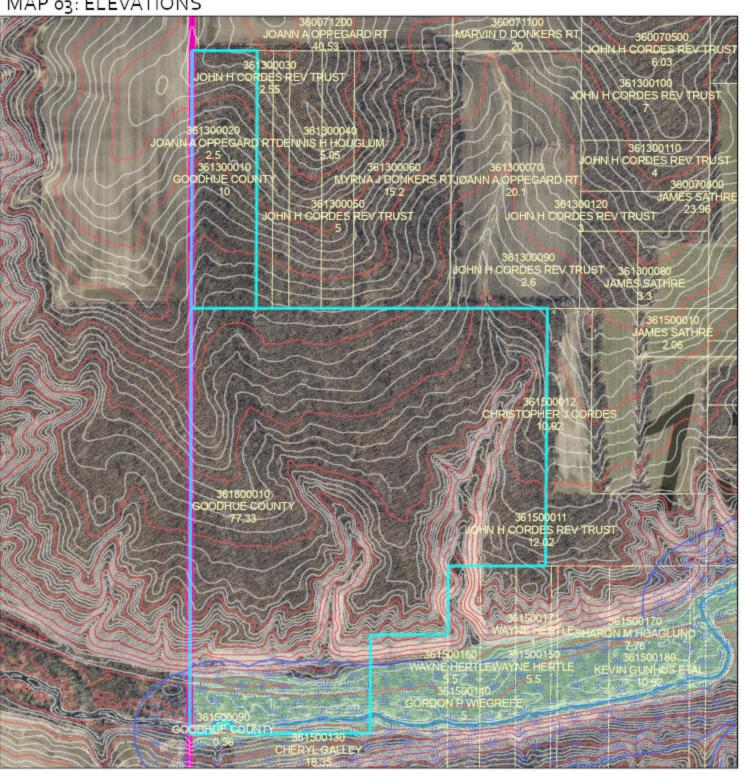
Request to rezone 87.69 acres from A1 to PT Legend





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2018 Aerial Imagery Map Created October, 2019 by LUM MAP 03: ELEVATIONS



PLANNING COMMISSION

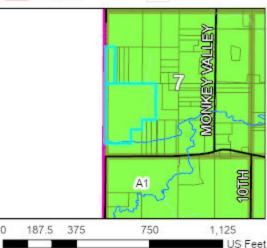
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