

To: Planning Advisory Commission
From: Megan Smith, Interim Land Use Management Director
Mtg. Date: January 27, 2025
Report Date: January 17, 2025

Summary of Request:

An application has been submitted by the Perkins Family Farms, for a Feedlot Expansion and conditional use permit amendment, for their farm located at 30383 210th Ave Red Wing, MN 55066. The request is to expand the feedlot to 2560 animal units.

Due to the size of this dairy operation, the MPCA does have permitting jurisdiction in addition to the County, and the owners have already received their MPCA permit approval for this expansion.

A building permit has also been applied for in conjunction with the conditional use permit request to add a 172 x 124 addition onto an existing barn. Note the plans that are attached show a 112 x 168 planned confinement barn. These plans were created in 2022, and the owners have since decided to widen the aisles, so the size got larger.

This will be the third amendment to their original conditional use permit (CUP) from 2000. Their last CUP approved 2167 animal units of dairy cattle, and 15,189,482 gallons of liquid manure storage, and was approved in 2016.

Application Information:

Applicant: Perkins Family Farms, Tom Perkins
Address of Zoning request: 30383 210th Avenue Red Wing, MN 55066
Zoning district: A1
Property Size: 145 acres
Township Information: Featherstone Township
Abbreviated Legal Description: Part of the NE ¼ of Section 16, T112, R15 of Featherstone Township

Attachments:

1. Site Map
2. Application Form

3. Maps Prepared by County Staff of the site
4. Animal Mortality Plan
5. Goodhue County Feedlot Registration
6. Land Application of Manure Records
7. Manure Transfer Records
8. NPDES Permit
9. Site Plan of Feedlot
10. Waste System Design/Engineered Plans from 2022

Applicable Regulations:

Goodhue County Zoning Ordinance

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

Article 13 Confined Feedlot Regulations

Article 21 Agricultural Protection District

Goodhue County Comprehensive Plan

Background:

The Goodhue County Zoning ordinance requires a conditional use permit for any farm with over 500 animal units in an A1 zoning district and any farm that stores over 500,000 gallons of manure. Feedlots over 1000 animal units are required to have a permit from the Minnesota Pollution Control Agency (MPCA)

The initial CUP that was approved from the year 2000 was to exceed 500 animal units and a manure pit that exceeds 500,000 gallons. In 2010, a request to amend that CUP was approved to add animal units and over 500,000 liquid gallons of manure storage. In 2016, the County approved a request to expand to a total of 2060.6 AU dairy cattle and 15,189,482 gallons liquid manure storage.

Upon review of the site, staff did observe two existing nonconformities. Both issues involve the property to the south, which is owned by the Ralph Fitschen trust, and are summarized as follows.

- 1) The Perkins feedlot is not 100 feet from neighboring property lines.
- 2) The Perkins feedlot is not 1000 feet from a residential dwelling that is not the owners/operators dwelling.

Based on county records, these site conditions have been in place since prior to the year 2000 when the initial conditional use has been processed and have not been brought up as issues. However, the Zoning ordinance would require compliance if this were a new feedlot.

Goodhue County Soil and Water Conservation District Review:

Goodhue County Feedlot Compliance Coordinator Kelsey Petit reviewed the Application. She noted the registration, permitting, and inspections will be administered by the MPCA, but the County will maintain a feedlot registration for the facility. No specific concerns with the expansion proposed and noted the structures adhere to minimum odor offset requirements.

Beau Kennedy, District Manager for the SWCD has previously gone on records with the following comments related to this site: *There are 2 known sinkholes in the area. Both of which appear to have been filled/repared years ago; the closest one to the east of the building site in 1988-1989 and the western sinkhole around 2002-2003. Based on aerial imagery the sinkholes no longer appear to be active. This area of Featherstone TWP drains to Spring Creek and Trout Brook. The area is classified by the MGS as highly sensitive to groundwater contamination due to rapid infiltration rates and thin till layer (5-50' thick).*

Proposed Findings of Fact:

1. The Perkins Family Farms dairy has been in operation since before 2000 and does not appear to be injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish and impair property values within the immediate vicinity.
2. The Perkins Family Farms dairy is located in the A1, Agricultural Protection, zoned district. The expansion of the conditional use does not appear to impede the normal and orderly development and improvement of surrounding vacant property for uses predominant to the area.
3. There appears to be adequate utilities, access roads, drainage and other necessary facilities provided.
4. It appears that adequate measures have been taken to provide sufficient off-street parking and loading space to serve the proposed use.
5. Adequate measures have been or will be taken to prevent or 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.
6. The odor offset calculations have been completed and are on file with Goodhue Co
7. The MPCA has approved the permit for the Perkins family farm expansion and the feedlot is currently listed as compliant and operational.
8. The original conditional use permit was issued by Goodhue County in April of 2000 (Doc 439362). This permit was amended in April of 2010 (Doc 575942) and again on November of 2016 (Doc A-634765).

9. The current request will be considered amendment #3 to the original conditional use permit.

Proposed Conditions of Approval:

1. A building permit must be approved for the new barn structure
2. The feedlot must comply with all necessary state and federal permits and licensing, including Compliance with Goodhue County Zoning Ordinance: Article 13 confined feedlot regulations, and Article 21, agricultural protection district,
3. The owners will cooperate with inspections of the facility in coordination with Land Use staff.

Staff Recommendation:

Staff recommends the Planning Advisory Commission adopt the staff report into the record, adopt the findings of fact, and based on the application, testimony, exhibits, and other evidence presented: recommend the County Board **approve** Perkins Family Farms Feedlot for Part of the NE ¼ of Section 16, T112, R15 of Featherstone Township, A1 zoning district, to expand the feedlot exceeding 500 animal units, and exceeding 500,000 gallon manure storage, an amendment to the existing to expand to a total of 2560 animal units dairy cattle.

1 GOODHUE COUNTY CONDITIONAL/INTERIM USE PERMIT APPLICATION

Parcel # 31.016.0200

Permit# 725-0001

PROPERTY OWNER INFORMATION

Last Name	<u>Perkins Family Farms LLC</u>	First		Email:	
Street Address	<u>30383 210th AVE</u>			Phone	
City	<u>Red Wing</u>	State	<u>Mn</u>	Zip	<u>55066</u>
Authorized Agent	<u>Tom Perkins</u>			Phone	
Mailing Address of Landowner:	<u>same</u>				
Mailing Address of Agent:	<u>same</u>				

Land Use Management

JAN 03 2025

RECEIVED

PROJECT INFORMATION

Site Address (if different than above):

Lot Size 150 A Structure Dimensions (if applicable)

What is the conditional/interim use permit request for? adding animal units

Written justification for request including discussion of how any potential conflicts with existing nearby land uses will be minimized
To grow our business.

DISCLAIMER AND PROPERTY OWNER SIGNATURE

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

Signature of Landowner: Perkins Family Farms LLC Date 1-2-25

Signature of Agent Authorized by Agent: Tom Perkins

TOWNSHIP INFORMATION Township Zoning Permit Attached? If no please have township complete below:

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

Signature	Title	Date
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Comments:

COUNTY SECTION COUNTY FEE \$400 RECEIPT # 18580 DATE PAID 1-3-25

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

What is the formal wording of the request?

Shoreland _____ Lake/Stream Name _____ Zoning District _____

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

Action Taken: ___ Approve ___ Deny Conditions:



✓

10. Existing and proposed exterior lighting.

yard light

11. Existing and proposed exterior signage.

NA

12. Existing and proposed exterior storage.

Feed Bunkers

13. Proposed safety and security measures.

NA

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

Driveway

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

yes

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

Some Fill for new Barn

17. Existing and proposed surface-water drainage provisions.

Catch runoff of Feed storage areas

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

NA

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

NA

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).

To produce and sell Milk-

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

House animals

3. Proposed number of non-resident employees.

15

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

24 / 7 / 365

5. Planned maximum capacity/occupancy.

2560 A4

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

NA

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

10 rock

8. Proposed solid waste disposal provisions.

weekly pickup

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

NA

Received
MAR 05 2015

Animal Mortality Plan

Handling Dead Animals in Accordance with State Requirements
Including: Minn. Stat. § 35.82 and Minn. R. chs. 1719.0100 to 1719.4600 and 7011.1215

Farm/Name: Perkins Farms Feedlot Registration Number: 049-73108

Owner: Tom, Brad Perkins Operator: Same

Location: Section 16, Featherstone Township, Goodhue County

Planned Method of Animal Disposal: For each animal type, indicate dead animal handling method(s) to be used at your feedlot. The minimum requirements for each management option are described on the following page. Please make sure locations of burial sites, incinerators, temporary mortality storage, and/or compost areas are indicated on the map of your facility included with the NPDES/SDS permit application.

Animal Type	Bury	Incinerate	Render	Compost	Other
<u>Cow</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Heifer</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Calf</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If other, explain: _____

Legal Methods of Disposal:

SPECIES	METHOD					Exempt by Law
	Bury	Incinerate	Render	Compost		
Poultry	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Swine	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Cattle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>	
Horses	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>	
Sheep / Goats	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Household Pets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Wild Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Game Farm / Exotic Animals	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> *	<input type="checkbox"/>	

*If composting cattle, horses, or game/exotic animals, contact the Minnesota Board of Animal Health at (651) 296-2942 or (800) 627-3529.

Animal carcasses should be disposed of as soon as possible, within 48-72 hours. Any vehicles transporting carcasses must be: leak proof, covered, inspected, and permitted by the Minnesota Board of Animal Health (except if owner is transporting his own dead animals).



104 East 3rd Avenue - PO Box 335
 Goodhue, MN 55027
 651-923-5286 Ext. 4
 www.goodhueswcd.org

PAID

JAN 06 2025

Data Collection Sheet for Registration (New and/or Existing sites)

For Delegated Counties

RECEIVED

JAN 06 2025

Instructions: Complete this form in order for your county feedlot officer to register your feedlot for you. Your county feedlot officer will enter data from this form into the online registration service to complete the registration process.

Any data collected by the county, beyond what is required for state feedlot registration, will be marked with the following statement: "This data is being collected for County purposes only and is not be required by Minn. Rule Ch. 7020 for feedlot registration."

Important – This is only a data collection sheet and completing it does not fulfill your requirement to register your feedlot. Registration of your feedlot is only complete once your county feedlot officer enters this information into the online registration system. This form will **NOT** be processed if sent to the MPCA. The information entered into the online system will be considered as the official registration information for your feedlot. If you would rather complete the registration process yourself, the online registration service can be found at: <https://webapp.pca.state.mn.us/services/login>.

Facility name and address The information below reflects a change to the name of an existing registered facility.

Facility name: Perkins Farms Registration number: 049-73108
 Facility Address: 30383 210th Ave Parcel ID number: 31-016-0200
 City: Red Wing State: MN Zip code: 55066
 Phone: _____ Email: _____

Ownership information The information below reflects a change of ownership of an existing registered facility.

Contact Person Same as feedlot name and address **Feedlot Owner** Same as feedlot contact
 Name: Tom Perkins Name: _____
 Address: _____ Address: _____
 City: _____ State: _____ City: _____ State: _____
 Phone: _____ Zip: _____ Phone: _____ Zip: _____
 Email: _____ Email: _____

Facility locational information

County: Goodhue City/Township: Featherstone

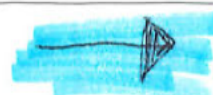
Township (26-71 or 101-168)	Range (1-51)	Section (1-36)	¼ Section (NW, NE, SW, SE)	¼ of ¼ Section (NW, NE, SW, SE)
<u>112</u>	<u>15</u>	<u>16</u>	<u>NE</u>	<u>SE</u>

Any surface waters or tile intakes within 1,000 feet of the facility? (If Yes, indicate types below) Yes No
 Lake/Pond larger than 25 acres Wetland Drainage ditch River/Stream/Creek Tile intake
 Is any part of the facility within 300 feet of a river/stream? Yes No
 Any part of the facility located within a delineated flood plain (100 year flood)? Yes No
 Any part of the facility located within designated shoreland? Yes No
 Any part of the facility within 300 feet of a known sinkhole? Yes No

Facility operations information (indicate components that are currently part of your livestock or poultry operation)

Animals on pasture for part of the year Yes No
 Open lots (dirt, concrete, other) that are designed as animal holding areas Yes No
 Buildings that are designed for animal confinement or as animal holding areas Yes No
 If yes to either above, what is the shortest distance from an animal holding area to a well? (including unused or unsealed wells) 300 feet
 A liquid manure storage structure Yes No
 A manure stockpile (solid manure storage area) Yes No
 If yes to either above, what is the shortest distance from a manure storage area to a well? (including unused or unsealed wells) 400 feet

If you closed a liquid manure storage area or permanent manure stockpile since your last registration, complete the following:
 Date closed: _____ Liquid storage Liquid storage
 Solid storage Solid storage



Number of animals at the facility Calculate the animal units in column D by multiplying column C by column B.

A	B	C	D
Animal type	Animal unit (AU) factor	Maximum number (head) maintained at anytime in past 5 years	Animal Units (B x C)
Dairy – mature cow (milked or dry) over 1,000 lbs.	1.4	1400	1960
Dairy – mature cow (milked or dry) under 1,000 lbs.	1.0		
Dairy – heifer	0.7	600	420
Dairy – calf	0.2	900	180
Beef – slaughter steer or stock cow	1.0		
Beef – feeder cattle (stocker or backgrounding) or heifer	0.7		
Beef – cow and calf pair	1.2		
Beef – calf	0.2		
Veal Calf	0.2		
Bulls or Oxen	2.0		
Swine – over 300 pounds	0.4		
Swine – between 55 and 300 pounds	0.3		
Swine – under 55 pounds (and separated from sow)	0.05		
Horse	1.0		
Mini Horses, Ponies	0.4		
Sheep or lamb	0.1		
Goats	0.15		
Goats-small	0.075		
Chickens – all sizes with liquid manure system	0.033		
Chickens – 5 lbs. and over – dry manure system	0.005		
Chickens – under 5 lbs. – dry manure system	0.003		
Chickens – layers 5 lbs. and over – dry manure system	0.005		
Chickens – layers under 5 lbs. – dry manure system	0.003		
Turkeys – over 5 lbs.	0.018		
Turkeys – under 5 lbs.	0.005		
Ducks – dry manure system	0.01		
Ducks – liquid manure system	0.01		
Elk	0.7		
Emus or Ostrich	0.15		
Fowl (pheasants, pigeons, partridges, guineas, and others)	0.003		
Foxes	0.05		
Mink	0.002		
Rabbits	0.005		
<input type="checkbox"/> Alpacas, <input type="checkbox"/> Deer (pick one)	0.15		
<input type="checkbox"/> Llamas, <input type="checkbox"/> Reindeer, <input type="checkbox"/> Caribou (pick one)	0.3		
<input type="checkbox"/> Donkeys, <input type="checkbox"/> Mules, <input type="checkbox"/> Camels (pick one)	1		
<input type="checkbox"/> Bison, <input type="checkbox"/> Buffalo, <input type="checkbox"/> Yak (pick one)	1		
<input type="checkbox"/> Bison calf, <input type="checkbox"/> Buffalo calf (pick one)	0.2		
<input type="checkbox"/> Peacocks, <input type="checkbox"/> Geese (pick one)	0.01		
Total AU			2560

Signature (person completing the form) and Submittal

Print name: Tom Perkins

Title: Partner

Signature: Tom Perkins

Date: 12-26-24

STATE OF MINNESOTA
COUNTY OF GOODHUE

BOARD OF COMMISSIONERS
CONDITIONAL/INTERIM USE PERMIT
PROCEEDINGS
FILE NO. Z25-0001

In the matter of: **Perkins Family Farms Feedlot Expansion and CUP amendment** -The request is to expand the feedlot exceeding 500 AU and exceeding 500,000 gallon manure storage. This will be an amendment to their existing Conditional Use Permit to add expand the feedlot to 2560 animal units.

Applicant: Perkins Family Farms, Tom Perkins

PID: 31.016.0200

Address of Zoning request: 30383 210th Avenue Red Wing, MN 55066

Zoning district: A1

BRIEF LEGAL DESCRIPTION: Part of the NE ¼ of Section 16 T112, R15, of Featherstone Township, as legally described on EXHIBIT "A" Doc# 428974 and Doc# 270432

The project plans have been reviewed with reference to the Goodhue County Zoning Ordinance and the Goodhue County Comprehensive Plan. The Conditional Use Permit application was considered by the Goodhue County Planning Advisory Committee at a public hearing on Monday January 27, 2025, and the request was considered at a public meeting by the Goodhue County Board of Commissioners on _____. Pursuant to Goodhue County Zoning Ordinance the project has been properly noticed by posting to the official newspaper of Goodhue County and mailing to properties within a quarter mile of the site.

IT IS ORDERED:

The Goodhue County Board of Commissioners adopt the staff report into the record, adopt the findings of fact, and based on the application, testimony, exhibits, and other evidence presented: recommend the County Board **approve** Perkins Family Farms Feedlot for Part of the NE ¼ of Section 16, T112, R15 of Featherstone Township, A1 zoning district, to expand the feedlot exceeding 500 animal units, and exceeding 500,000 gallon manure storage, to expand to a total of 2560 animal units dairy cattle.

Date signed: _____

Brad Anderson, Chairperson
Goodhue County Board of Commissioners

DISCONTINUANCE: A conditional/interim use permit shall expire and be considered null and void one (1) year after the County Board's final decision to grant the permit if the use has not begun. One (1) administrative extension of up to one (1) year may be granted by the Zoning Administrator upon written request of the property owner, provided there is reasonable cause for the request and further provided that the written request is made no less than thirty (30) days prior to expiration of the permit. If no extension has been requested the Zoning Administrator shall record an expiration notice with the County Recorder. A conditional/interim use permit shall be considered null and void if discontinued for a period of one (1) year

Land Application of Manure Records (Fields 1-19)

Be sure to make any changes necessary to represent the actual nutrient application (including dates of manure application) that occurred during the indicated crop year.

Cropping Year: September 1, 2022 to August 31, 2023 Crop Land Manger's Name: _____

Name of Facility Where Manure is Generated: _____ Registration/Permit Number: _____

Name of Licensed Commercial Animal Waste Technician Used: _____ License Number: _____

Manure Analysis Results - Entries must represent manure applied. (A recent sample, or a running average, can be used)

Source ID	Description	Animal Type	Storage Type	Date Last Analyzed	N	P	K	Units of Test
Manure Source #1:	pit 1	Dairy	Underfloor Concrete Pit	11/20/2021	14	7	16	lbs/1000 gal
Manure Source #2:	pit 2	Dairy	Underfloor Concrete Pit	11/24/2021	26	12	21	lbs/1000 gal
Manure Source #3:	pit 3	Dairy	Underfloor Concrete Pit	11/20/2021	14	7	16	lbs/1000 gal
Manure Source #4:	POND	Dairy	Outdoor Concrete Pit/Tank	11/24/2021	13	6	16	lbs/1000 gal
Manure Source #5:	pen	Dairy	Manure Pack	11/20/2020	11	8	8	lbs/ton
Manure Source #6:	pit 4	Dairy	Underfloor Concrete Pit	11/24/2021	25	9	34	lbs/1000 gal
Manure Source #7:								
Manure Source #8:								
Manure Source #9:								
Manure Source #10:								
Manure Source #11:								
Manure Source #12:								

Field Information		Soil Testing Information (Test required once every 4 yrs)				Crop Information					Manure Application Information (Nutrients for the 2023 Crop) (Typically Applied 9/1/2022 to 8/31/2023)			Nitrogen Application Rates (lb N/ac)			Phosphorus Application Rate (lb P2O5/ac)				
Field ID	Acres Actually Used	Year of Most Recent Test	Soil Test Phosphorus Field Average (ppm)		Organic Matter	Crops Grown		Expected Yield (crop receiving N Needs (lb/ac) removal for legumes) P2O5 Needs (lb/ac) (based on soil test)	Manure Source (1-12)	Dates of Application If Oct. 1-14, NPDES sites must record N BMP used (scroll right)	Application Rate Per Acre	Method of Application and Incorporation	Fertilizer N Applied + Irrigation Water N	Carry-Over N Last Year's Manure	Manure N This Year's Total Available N This Year	Fertilizer P Applied	Manure P This Year's Total Available P This Year				
			Crop Grown to Utilize the Nutrients Applied 2023 Crop	Crop Most Recently Harvested 2022 Crop		Fertilizer N Applied	Manure P Applied														
<i>Example</i>	80	2006	9	Olsen	Med/High	Corn	Soybeans	180	150	55	1	10/15 - 10/16	3000	Incorp. within 4 days	5	0	140	145	0	60	60
SF 1	35	2020	25	Bray	Med/High	Corn	Alfalfa	28	30	0	4	10/31	14,500	Knife Injection	0	---	94	94	0	70	70
SF 2	33	2020	25	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	4	10/31	18,000	Knife Injection	0	60	117	177	0	86	86
SF 3		2020	25	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	60	---	82	55.2	---	55
SF 4		2020	25	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	60	---	82	55.2	---	55
FF 1	18	2020	25	Bray	Med/High	Corn	Corn	220	80	0	1	11/1	18,000	Knife Injection	0	45	126	171	0	101	101
FF 2	12	2018	25	Bray	Med/High	Corn	Corn	220	80	0	1	11/1	18,000	Knife Injection	0	45	126	171	0	101	101
FF 3		2018	25	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
FF 4		2018	25	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
FF 5	20	2018	25	Bray	Med/High	Alfalfa	Corn	5	255	0	3		12,000	Knife Injection	0	60	84	144	0	67	67
FF 6	10	2018	25	Bray	Med/High	Corn	Corn	220	195	0	5		10	Incorp. within 12 hrs	0	60	61	121	0	64	64
GF 1	30	2018	17	Bray	Med/High	Corn Silage	Corn Silage	28	195	24	3		15,571	Knife Injection	0	86	109	195	0	87	87
GF 2	30	2018	35	Bray	Med/High	Alfalfa	Corn Silage	5	255	0	3		18,857	Knife Injection	0	63	132	195	0	106	106
GF 3		2018	35	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
T 1		2020	56	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
T 2	44	2020	56	Bray	Med/High	Corn Silage	Corn Silage	28	80	0	2	4/25	10,500	Knife Injection	0	55	137	192	0	101	101
T 3		2020	60	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		0	---	---	0	0	---	0
T 4	45	2020	50	Bray	Med/High	Corn Silage	Alfalfa	28	80	0	3	4/24	13,000	Knife Injection	0	---	91	91	0	73	73
T 5	45	2020	60	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	3	4/18	15,500	Knife Injection	0	69	109	178	0	87	87
T 6	75	2020	15	Bray	Med/High	Alfalfa	Corn	5	255	23	3	4/14	15,000	Knife Injection	0	69	105	174	0	84	84

Land Application of Manure Records (Fields 20-46)

Cropping Year: September 1, 2022 to August 31, 2023

Crop Land Manger's Name: _____

Name of Facility Where Manure is Generated: _____

Registration/Permit Number: _____

Field Information		Soil Testing Information (Test required once every 4 yrs)				Crop Information				Manure Application Information (Nutrients for the 2023 Crop) (Typically Applied 9/1/2022 to 8/31/2023)				Nitrogen Application Rates (Ib N/ac)				Phosphorus Application Rate (Ib P2O5/ac)			
		Field ID	Acres Actually Used	Year of Most Recent Test	Soil Test Phosphorus Field Average (ppm)	Organic Matter	Crops Grown		Expected Yield (crop receiving N Needs (Ib/ac) (removal for legumes) P2O5 Needs (Ib/ac) (based on soil test)	Manure Source ('1-12)	Dates of Application If Oct. 1-14, NPDES sites must record N BMP used (scroll right)	Application Rate Per Acre	Method of Application and Incorporation	Fertilizer N Applied + Irrigation Water N	Carry-Over N Last Year's Manure	Manure N This Year's	Total Available N This Year	Fertilizer P Applied	Manure P This Year's	Total Available P This Year	
Crop Grown to Utilize the Nutrients Applied 2023 Crop	Crop Most Recently Harvested 2022 Crop						Fertilizer N Applied + Irrigation Water N	Carry-Over N Last Year's Manure													Manure N This Year's
53-1	64	2018	40	Bray	Med/High	Corn Silage	Corn Silage	5	145	0	3	10/20	16,300	Knife Injection	0	76	114	190	0	91	91
53-2	75	2018	64	Bray	Med/High	Alfalfa	Alfalfa	5	255	0					0	---	---	0	0	---	0
BL 1	60	2018	21	Bray	Med/High	Alfalfa	Alfalfa	5	255	0					0	---	---	0	0	---	0
BL 2	30	2018	21	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	2	4/28	10,000	Knife Injection	0	62	130	192	0	96	96
BL 3	30	2018	21	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	2	4/28	9,000	Knife Injection	0	75	117	192	0	86	86
BL 4	5	2018	21	Bray	Med/High	Corn	Corn	220	195	0	5	5/1	20	Incorp. within 12 hrs	0	30	121	151	0	128	128
B 1	30	2018	23	Bray	Med/High	Corn Silage	Corn Silage	28	80	0	6	5/9	12,000	Knife Injection	0	44	150	194	0	86	86
B 2	28	2018	23	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	6	5/9	10,500	Knife Injection	0	63	131	194	0	76	76
B 3		2018	23	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
R 1		2021	37	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
R 2	75	2021	37	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	6	5/12	10,500	Knife Injection	0	64	131	195	0	76	76
R 3		2021	37	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
R 4	30	2021	38	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	1	5/14	18,000	Knife Injection	0	60	126	186	0	101	101
R 5		2021	38	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
H 1		2021	58	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
H 2		2021	50	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	2	4/25	10,000	Knife Injection	0	63	130	193	0	96	96
H 3	35	2021	35	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	2	4/12	10,000	Knife Injection	0	63	130	193	0	96	96
H 4		2021	55	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
H 5	35	2021	35	Bray	Med/High	Corn Silage	Alfalfa	28	80	0	5	5/1	15	Incorp. within 12 hrs	0	---	91	91	0	96	96
H 6	30	2021	50	Bray	Med/High	Corn Silage	Corn Silage	28	80	0	4	5/14	18,000	Knife Injection	0	71	117	188	0	86	86
H 7	20	2021	40	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	4	5/14	18,000	Knife Injection	0	54	117	171	0	86	86
H 8	20	2021	45	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	4	5/14	16,000	Knife Injection	0	85	104	189	0	77	77
H 9		2021	55	Bray	Med/High	Alfalfa	Alfalfa	5	255	0			---		21.6	---	---	22	55.2	---	55
N80	80	2021	38	Bray	Med/High	Corn Silage	Corn Silage	28	195	0	4	5/8	18,000	Knife Injection	0	64	117	181	0	86	86

Total Acres (Fields 1-46) = 1,044

Manure Source Summary of Applied and Remaining Manure

	Amount Applied	Amount Remaining
Source 1:	1,080,000	420,000
Source 2:	1,382,000	3,618,000
Source 3:	4,723,540	276,460
Source 4:	3,761,500	238,500

	Amount Applied	Amount Remaining
Source 5:	725	775
Source 6:	1,441,500	1,558,500
Source 7:	---	---
Source 8:	---	---

	Amount Applied	Amount Remaining
Source 9:	---	---
Source 10:	---	---
Source 11:	---	---
Source 12:	---	---



520 Lafayette Road North
St. Paul, MN 55155-4194

Records when manure ownership is transferred 300 or more animal units

Manure analysis
N _____ P _____ K _____

Feedlot Program

Records for feedlot owners (manure generator) and commercial applicators

Date Type: Permit Information Form

Instructions: This record keeping form is for feedlot owners that transfer the ownership of manure generated by 300 animal units or more. The form must be completed by the feedlot owner, where the manure is generated, and the manure applicator. It can also be used by commercial applicators to complete their record keeping requirements.

You will need to make three copies of this form for each transfer. Triplicate copies are available.

Copy 1: Kept by feedlot owner where manure is generated after completion of step #1.

Copy 2: Kept by applicator after completion of step #3.

Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms

Facility address: 30383 210th AVE

City: Red Wing State: Mn Zip: 55066

Manure analysis results (Must be representative of manure transferred)

Manure source: 2 Date analyzed (mm/dd/yyyy): 11-30-23

N: 16 P₂O₅: 8 K₂O: 19 Units: lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Paden

Address: _____

City: _____ State: _____ Zip: _____

Total quantity transferred: 939,000 tons gallons Date(s) transferred: 4-26-23

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide form to person applying manure.)

If no stockpile, go to step 3.

County	Stockpile location(s)			Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: Perkins Farms

Address: Sam B

City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/ac)	Application method (see choices below)
<u>Paden</u>	<u>Goodhue</u>	<u>Featherstone</u>	<u>4</u>	<u>15,000</u>	<u>Knife inj</u>

Application methods: Incorp. within 12 hours, Incorp. 12 - 96 hours, Incorp. after 96 hours, Sweep injection, Knife injection

Minimum state requirements for applying manure



520 Lafayette Road North
St. Paul, MN 55155-4194

Records when manure ownership is transferred 300 or more animal units

Manure analysis
N _____ P _____ K _____

Feedlot Program

Records for feedlot owners (manure generator) and commercial applicators

Doc Type: Permit Information Form

Instructions: This record keeping form is for feedlot owners that transfer the ownership of manure generated by 300 animal units or more. The form must be completed by the feedlot owner, where the manure is generated, and the manure applicator. It can also be used by commercial applicators to complete their record keeping requirements.

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Copy 1: Kept by feedlot owner where manure is generated after completion of step #1.

Copy 2: Kept by applicator after completion of step #3.

Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms

Facility address: 30383 260th AVE

City: Red Wing State: Mn Zip: 55066

Manure analysis results (Must be representative of manure transferred)

Manure source: 2 Date analyzed (mm/dd/yyyy): 11-18-22

N: 15 P₂O₅: 7 K₂O: 21 Units: lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Williamson

Address: _____

City: _____ State: _____ Zip: _____

Total quantity transferred: 4,136,000 tons gallons Date(s) transferred: 10-6-22

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide form to person applying manure.)

If no stockpile, go to step 3.

County	Stockpile location(s)			Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: Perkins Farms

Address: Same

City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/ac)	Application method (see choices below)
<u>MW</u>	<u>Goodhue</u>	<u>Featherstone</u>	<u>4</u>	<u>15,800</u>	<u>knife inj</u>

Application methods: Incorp. within 12 hours, Incorp. 12 - 96 hours, Incorp. after 96 hours, Sweep injection, Knife injection

Minimum state requirements for applying manure

Records when manure ownership is transferred 300 or more animal units

Manure analysis
 N _____ P _____ K _____

Feedlot Program

Records for feedlot owners (manure generator) and commercial applicators

Doc Type: Permit Information Form

Instructions: This record keeping form is for feedlot owners that transfer the ownership of manure generated by 300 animal units or more. The form must be completed by the feedlot owner, where the manure is generated, and the manure applicator. It can also be used by commercial applicators to complete their record keeping requirements.

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Copy 1: Kept by feedlot owner where manure is generated after completion of step #1.

Copy 2: Kept by applicator after completion of step #3.

Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms

Facility address: 30383 210th AVE

City: Red Wing State: Mn Zip: 55068

Manure analysis results (Must be representative of manure transferred)

Manure source: 6 # 4 Date analyzed (mm/dd/yyyy): 11-20-22

N: 15-7 P₂O₅: 7-4 K₂O: 32-18 units lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Dicke

Address: _____ State: _____ Zip: _____

City: _____ State: _____ Zip: _____

Total quantity transferred: 2,032,000 tons gallons Date(s) transferred: 10-28 / 11-3-22

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide farm to person applying manure.)

If no stockpile, go to step 3.

Stockpile location(s)				Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
County	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: Perkins Farms

Address: same

City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/acre)	Application method (see choices below)
<u>Dicke N2</u>	<u>Goodhue</u>	<u>Featherstone</u>	<u>22</u>	<u>17,000</u>	
<u>Dicke N1</u>	<u>"</u>	<u>"</u>	<u>22</u>	<u>18,500</u>	

Application methods: Incorp. within 12 hours, Incorp. 12 - 86 hours, Incorp. after 86 hours, Sweep Injection, Knife Injection

Minimum state requirements for applying manure



520 Lafayette Road North
St. Paul, MN 55155-4194

Records when manure ownership is transferred 300 or more animal units

Manure analysis
N _____ P _____ K _____

Feedlot Program

Records for feedlot owners (manure generator) and commercial applicators

Doc Type: Permit Information Form

Instructions: This record keeping form is for feedlot owners that transfer the ownership of manure generated by 300 animal units or more. The form must be completed by the feedlot owner, where the manure is generated, and the manure applicator. It can also be used by commercial applicators to complete their record keeping requirements.

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- Copy 2: Kept by applicator after completion of step #3.
- Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms
 Facility address: 30383 210th AVE
 City: Red Wing State: Mn Zip: 55066

Manure analysis results (Must be representative of manure transferred)

Manure source: 6 Date analyzed (mm/dd/yyyy): 11-18-22
 N: 15 P₂O₅: 7 K₂O: 32 Units: lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Craig Hinrichs
 Address: _____

City: _____ State: _____ Zip: _____
 Total quantity transferred: 1,305,000 tons gallons Date(s) transferred: 10-26-22

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide form to person applying manure.)

If no stockpile, go to step 3.

County	Stockpile location(s)			Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: _____
 Address: _____
 City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/ac)	Application method (see choices below)
Hinrichs Hinrichs	Goodhue	Featherstone	21	17,000	

Application methods: Incorp. within 12 hours, Incorp. 12 - 96 hours, Incorp. after 96 hours, Sweep injection, Knife injection

Minimum state requirements for applying manure



MINNESOTA POLLUTION CONTROL AGENCY

520 Lafayette Road North
St. Paul, MN 55155-4194

Records when manure ownership is transferred 300 or more animal units

Manure analysis
N _____ P _____ K _____

Feedlot Program

Records for feedlot owners (manure generator) and commercial applicators

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- Copy 2: Kept by applicator after completion of step #3.
- Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms

Facility address: 30383 210th AVE

City: Red Wing State: Mn Zip: 55066

Manure analysis results (Must be representative of manure transferred)

Manure source: Pit 2 Date analyzed (mm/dd/yyyy): 11-18-22

N: 15 P: 7 K: 21 Units: lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Dicke

Address: _____ State: _____ Zip: _____

Total quantity transferred: 1,014,000 tons gallons Date(s) transferred: 10-15-22

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide form to person applying manure.)

If no stockpile, go to step 3.

County	Stockpile location(s)			Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: Perkins Farms

Address: Same State: _____ Zip: _____

City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/ac)	Application method (see choices below)
<u>Dicke</u>	<u>Goodhue</u>	<u>Featherstone</u>	<u>5</u>	<u>16,000</u>	<u>Knife inj</u>

Application methods: Incorp. within 12 hours, Incorp. 12 - 96 hours, Incorp. after 96 hours, Sweep injection, Knife injection

Minimum state requirements for applying manure



520 Lafayette Road North
St. Paul, MN 55155-4194

Records when manure ownership is transferred 300 or more animal units

Records for feedlot owners (manure generator) and commercial applicators

Doc Type: Permit Information Form

Instructions: This record keeping form is for feedlot owners that transfer the ownership of manure generated by 300 animal units or more. The form must be completed by the feedlot owner, where the manure is generated, and the manure applicator. It can also be used by commercial applicators to complete their record keeping requirements.

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- Copy 2: Kept by applicator after completion of step #3.
- Copy 3: Returned to feedlot owner where manure was generated after completion of step #3.

Step 1: Manure generation (Completed by feedlot owner where manure is generated)

Facility name where manure generated: Perkins Farms

Facility address: 30993 210th AVE

City: Red Wing State: Mn Zip: 55066

Manure analysis results (Must be representative of manure transferred)

Manure source: Pit 2 Date analyzed (mm/dd/yyyy): 11-18-22

N: 15 P₂O₅: 7 K₂O: 21 Units: lb/ton lb/1000 gallons

Name of company or individual taking manure from feedlot: Schumacher

Address: _____

City: _____ State: _____ Zip: _____

Total quantity transferred: 1,186,000 tons gallons Date(s) transferred: 10-14-22

Step 2: Short-term stockpiling (Completed by owner of the stockpile - Provide form to person applying manure.)

If no stockpile, go to step 3.

County	Stockpile location(s)			Quantity stockpiled (tons)	Date stockpile established (mm/dd/yyyy)	Date land applied (mm/dd/yyyy)
	Township	Section	Quarter			

Step 3: Manure application (Completed by person applying manure.)

Name of company or individual that applied manure: Perkins Farms

Address: same

City: _____ State: _____ Zip: _____

Minnesota Department of Agriculture commercial applicator license number (if used): _____

Field ID	County	Township	Section	Application rate (tons or gallons/ac)	Application method (see choices below)
<u>Schumacher</u>	<u>Goodhue</u>	<u>Featherstone</u>	<u>5</u>	<u>16,500</u>	<u>knife inj</u>

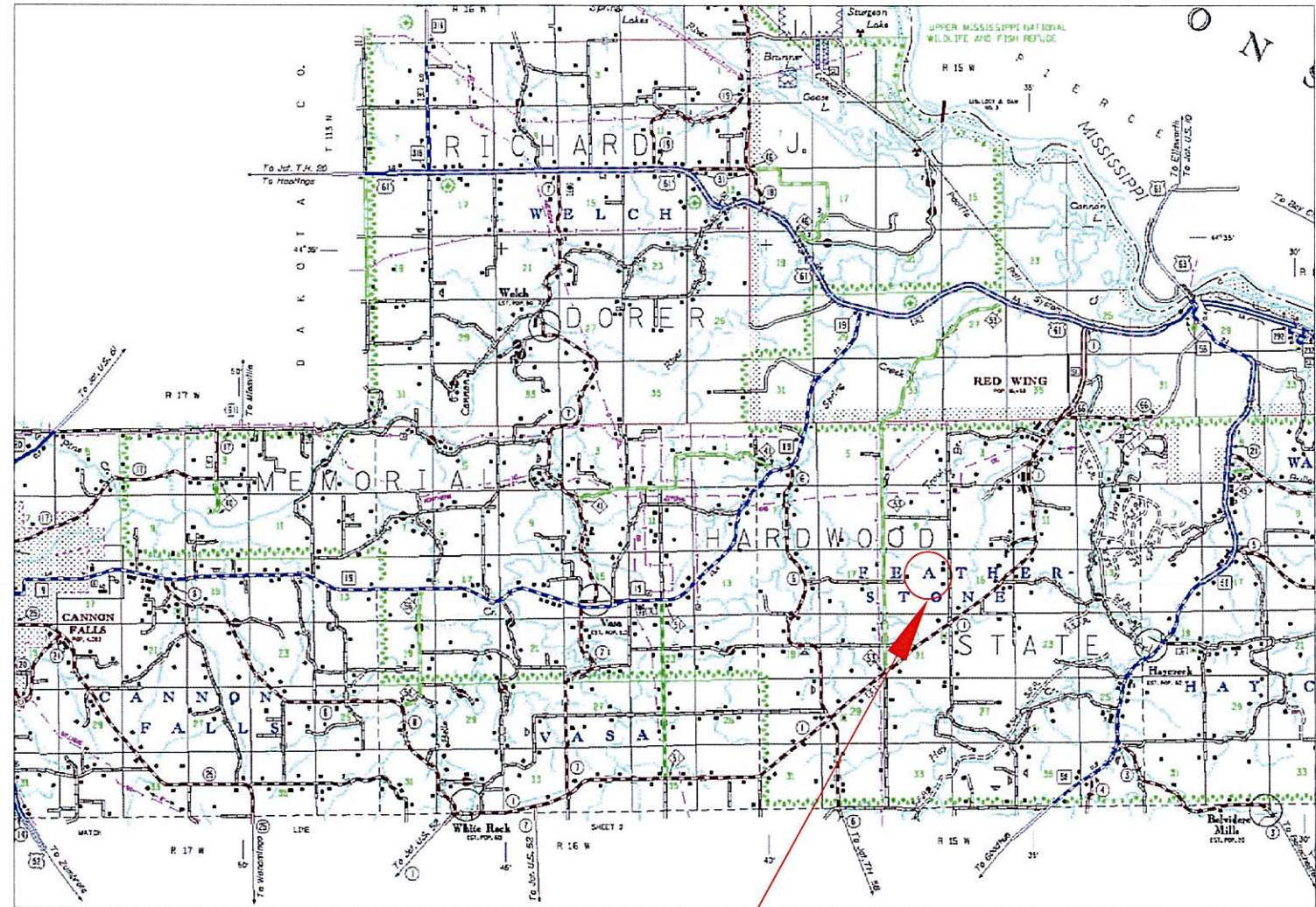
Application methods: Incorp. within 12 hours, Incorp. 12 - 96 hours, Incorp. after 96 hours, Sweep injection, Knife injection

Minimum state requirements for applying manure

Perkins Farms
 AG. WASTE SYSTEM DESIGN
 K2S ENGINEERING, INC.

CONTENTS

SHEET 1	COVER SHEET
SHEET 2	MAIN PLAN VIEW, -AERIAL 2021
SHEET 3	MAIN PLAN VIEW
SHEET 4	TOPSOIL STRIPPING
SHEET 5	TOPSOILING
SHEET 6	BARN PLAN VIEW
SHEET 7	BARN DETAILS
SHEET 8	FEED STORAGE PAD & PIPE DETAILS



SITE

Owner/Operator/Producer Review:

I have reviewed the drawings, construction specifications, and additional items listed and I agree to construct, operate, and maintain this project in accordance with them. I understand that modifications during construction will require approval from the Engineer prior to installation. I agree to obtain all necessary permits, easements, and water rights. I will inform the Engineer of all conditions pertaining to project construction as stated in the acquired permits. I agree to comply with all federal, state, tribal, and local laws and regulations pertaining to this construction.

I agree to take the necessary precautions to prevent personal injuries and damage to utilities from accidental contact. The Engineer makes no representation of the existence or non-existence of any utility. Any individual(s) performing excavation work is responsible for calling 811 or the Gopher State One Call Center at (1-800-252-1166) at least two working days before work begins to have all publicly owned utilities marked. A utility locate request can also be made at the website which is available 24-hours a day: <http://www.gopherstateonecall.org/>

I understand and agree with the review information above:

Tom Perkins
tom1perkins (May 20, 2022 10:23 MDT)

Owner/Operator/Producer Signature (Tom Perkins)

May 20, 2022

Date

Date
 Approved By **Shane Kjellberg** P.E. 5-22
 Title

Date Surveyed 4-9-16:12:28-20
 Date Drawn 5-22
 Designed by SKK
 Drawn By SKK
 Date Checked 5-22
 Checked by jak/ch
 File: final2022.dwg

Perkins Farms
 Goodhue County, MN
 AWS
 Cover Sheet

K₂S ENGINEERING INC.
 4209 94TH AVE SE
 YPSILANTI, ND 58497
 Phone 701-489-3322

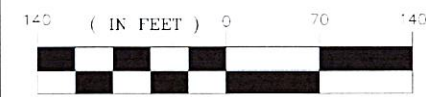
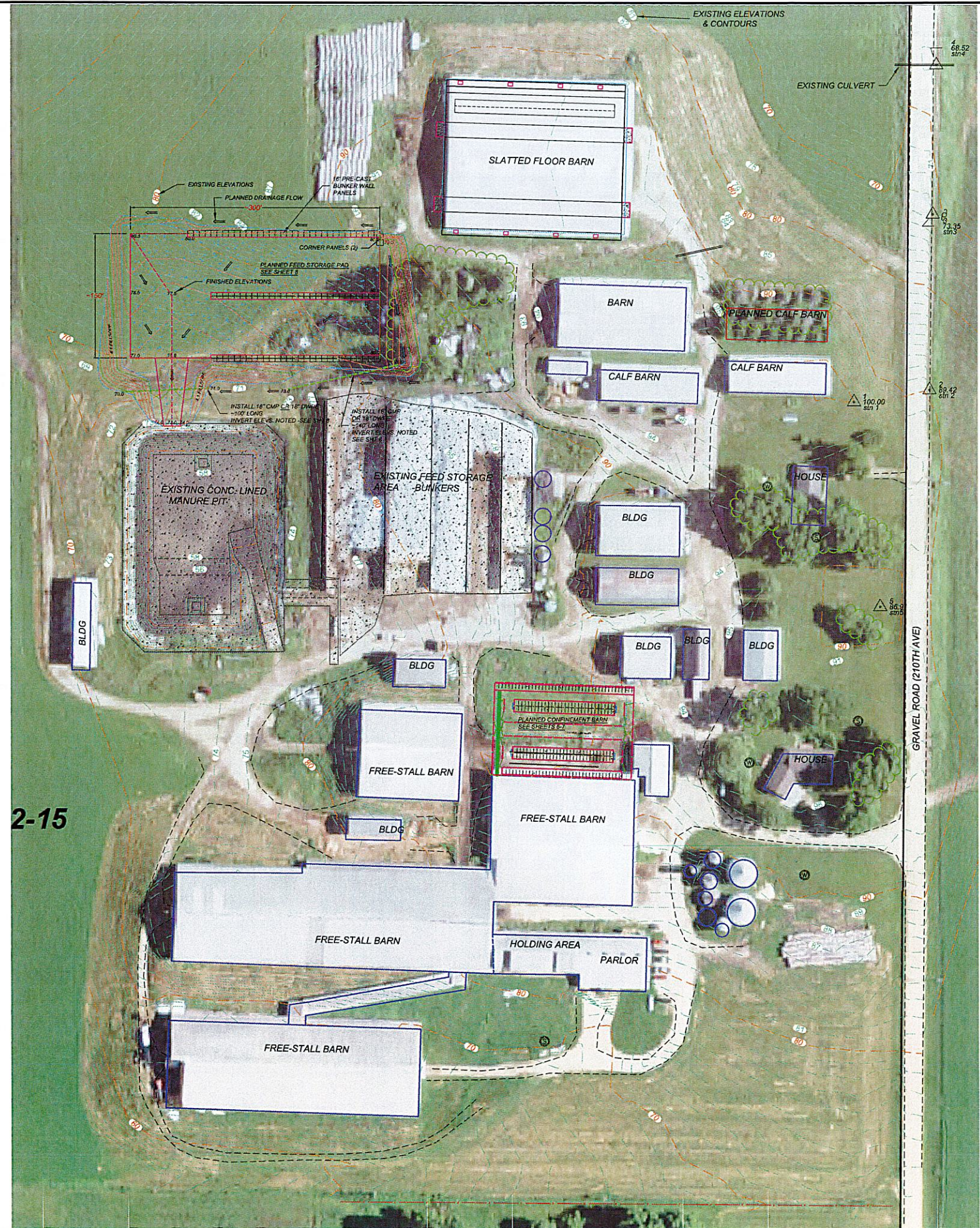
Sheet No.
 1 of 8

LEGEND	
TBM	WELL
HUB STATIONS	EXISTING HYDRANT
PLANNED FENCE	EXISTING WATERER
EXISTING FENCE	PLANNED WATERER
TREES	TEST PIT/SOIL BORING
DRAINAGE FLOW	NEW WATERLINE
POWER POLE	EXISTING TILE
EXISTING CONCRETE	DESIGN CONTOURS
PLANNED CONCRETE	EXISTING CONTOURS
PLANNED GRAVEL	

CONSTRUCTION NOTES:

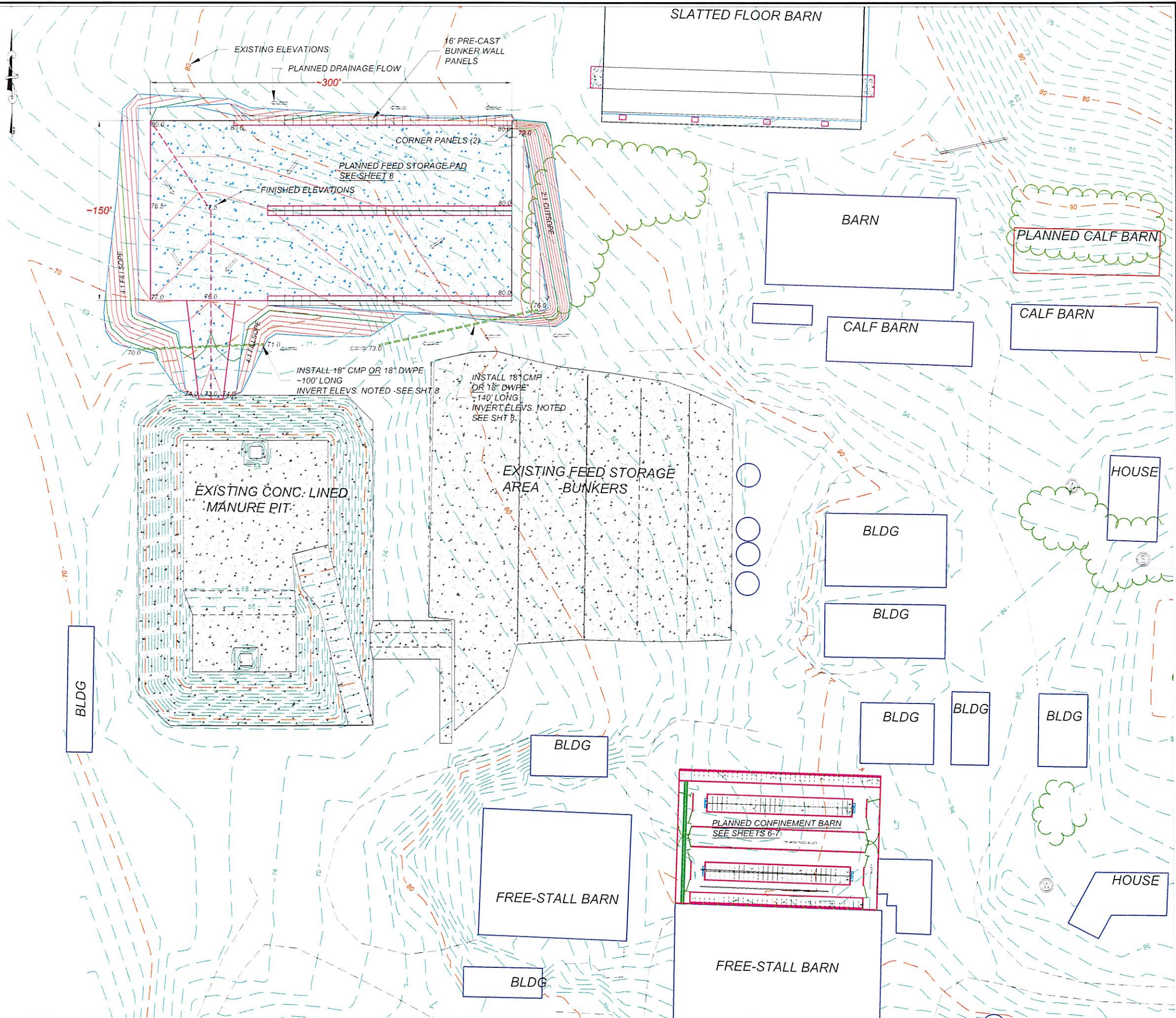
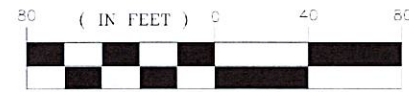
- PROJECT OWNER MAY MAKE MODIFICATIONS WHICH WILL RESULT IN LOWER EARTHFILL, CONCRETE, WATERLINE, AND GRAVEL VOLUMES. THEREFORE CONTRACTOR SHALL CLARIFY (IN A BID ATTACHMENT) ANY UNIT PRICE ADJUSTMENTS THAT WOULD APPLY IF SUCH MODIFICATIONS ARE IMPLEMENTED.
- ALL EARTHWORK SHALL BE GRADED TO DRAIN AS INDICATED AND SHALL DRAIN AWAY FROM ALL BUILDINGS.
- PRODUCER/LANDOWNER IS RESPONSIBLE FOR OBTAINING THE NECESSARY APPROVALS FROM THE GOVERNING AGENCIES FOR ANY WORK IN THE TOWNSHIP/COUNTY ROAD RIGHT-OF-WAY. DOCUMENTATION OF APPROVALS WILL BE REQUIRED PRIOR TO CONSTRUCTION ACTIVITIES.
- EXTENTS OF TOPSOILING & TOPSOIL STRIPPING SEE SHEETS 4 & 5.
- BARN DETAILS SEE SHEETS 6-7.
- FEED STORAGE PAD AND PIPE DETAILS SEE SHEET 8.
- BORROW AREA (IF NEEDED) AND EXCAVATED AREAS WILL BE MEASURED PRIOR TO AND AFTER EXCAVATION. CONTRACTOR WILL BE PAID ON MEASURED AMOUNT, WHICH WILL LIKELY VARY FROM THE ESTIMATED AMOUNT ON BID SHEET (COULD BE LESS OR MORE).
- As per Minnesota electrical code, all grounding for reinforcing steel will need to be inspected prior to concrete placement.**

2-15



K₂ ENGINEERING INC. 4209 94TH AVE SE YPSILANTI, ND 58497 Phone 701-489-3322	Perkins Farms Goodhue County, MN AWS Main Plan View -Aerial 2021	Date Approved By Shane Kjellberg P.E. 5-2022
		Date Surveyed 4-9-16; 12-28-20 Date Drawn 5-22 Designed by sikk Drawn By sikk Date Checked 5-22 Checked by jak/ch File: final2022.dwg
Sheet No. 2 of 8		

LEGEND	
TBM	
HUB STATIONS	
PLANNED FENCE	
EXISTING FENCE	
TREES	
DRAINAGE FLOW	
POWER POLE	
EXISTING CONCRETE	
PLANNED CONCRETE	
PLANNED GRAVEL	
WELL	
EXISTING HYDRANT	
EXISTING WATERER	
PLANNED WATERER	
TEST PIT SOIL BORING	
NEW WATERLINE	
EXISTING TILE	
DESIGN CONTOURS	
EXISTING CONTOURS	



Perkins Farms
Goodhue County, MN

K₂ ENGINEERING INC.
4209 94TH AVE SE
YPSILANTI, ND 58497
Phone 701-489-3322

Date: 5-22-2022
Approved By: Shane Kjellberg, P.E.
Title: _____

Date Surveyed: 4-9-16, 12-28-20
Date Drawn: 5-22
Designed by: sikk
Drawn By: sikk
Date Checked: 5-22
Checked by: Jaruch
File: ffinal2022.dwg

AWS
Main Plan View

Sheet No. 3 of 8

EXTENTS OF TOPSOIL STRIPPING

PLAN VIEW

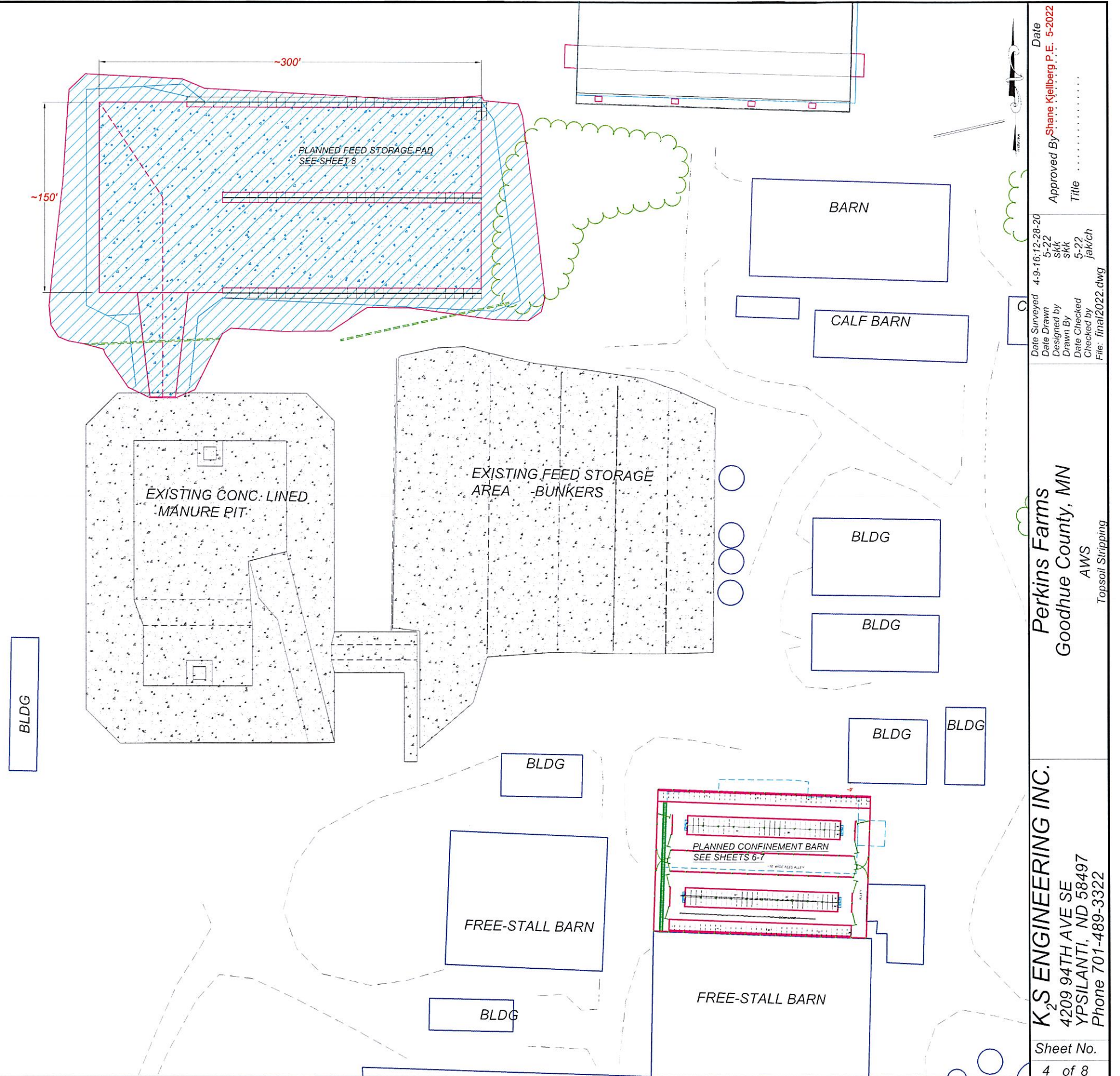
1" = 80'

 **EXTENTS OF TOPSOIL STRIPPING**

TOTAL AREA TO BE STRIPPED = 72,458 SQ. FT.
 (0 ACRES OF BORROW INCLUDED)
 ESTIMATED YARDAGE @ 6" DEPTH = **1,342 CU. YDS.**

NOTES:

1. BORROW AREAS WILL BE MEASURED IN THE FIELD.
2. IN ACCORDANCE WITH CONSTRUCTION SPEC. 5 AND THE STORMWATER PERMIT SEDIMENT/POLLUTION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO TOPSOIL STRIPPING.

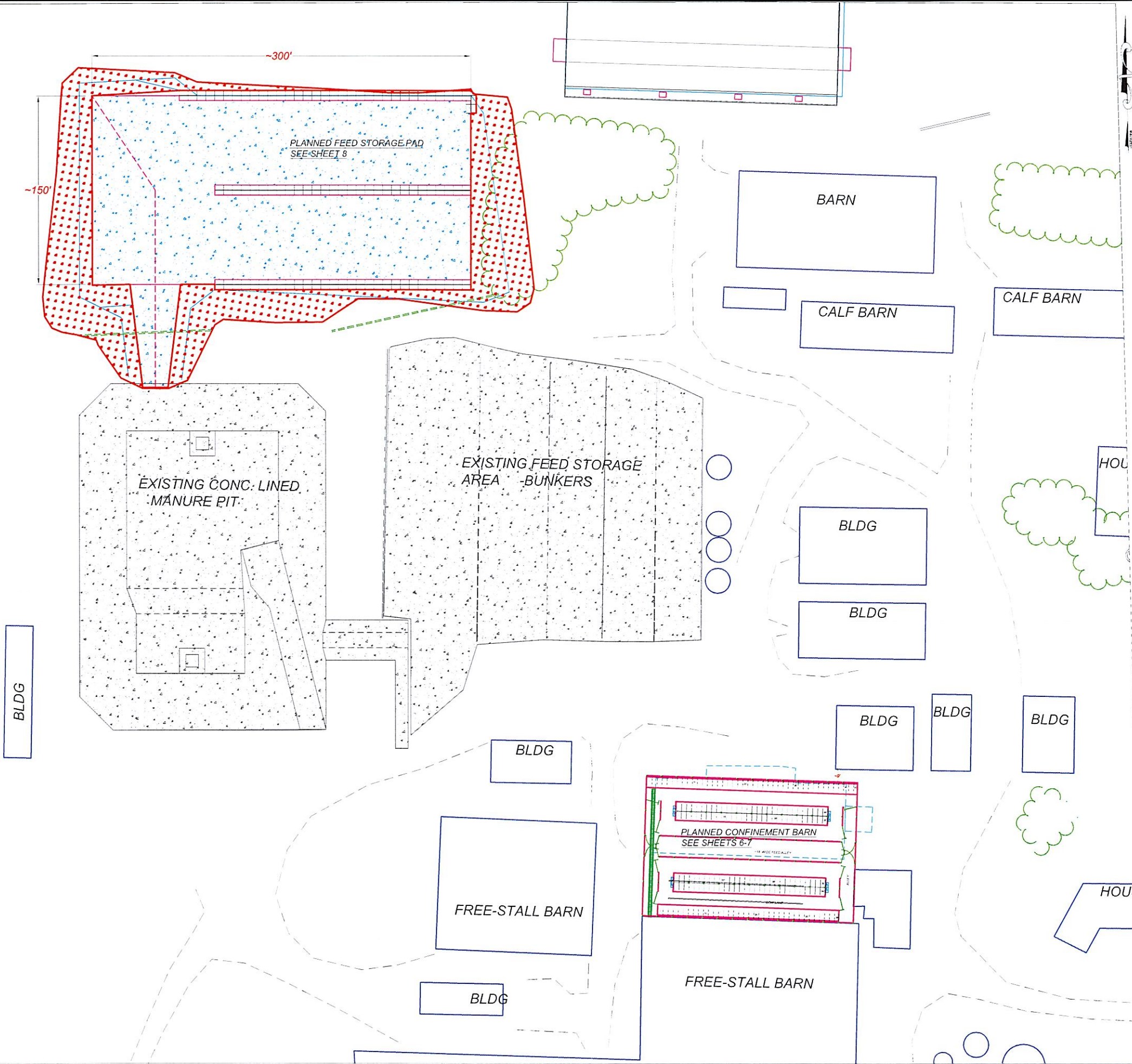


Date	4-9-16	12-28-20
Approved By	Shane Kjelberg P.E.	5-2022
Date Surveyed	4-9-16	12-28-20
Date Drawn	5-22	5-22
Designed by	skk	skk
Drawn By	skk	skk
Date Checked	5-22	5-22
Checked by	jak/ch	jak/ch
File:	final2022.dwg	

Perkins Farms
 Goodhue County, MN
 AWS
 Topsoil Stripping

K₂S ENGINEERING INC.
 4209 94TH AVE SE
 YPSILANTI, ND 58497
 Phone 701-489-3322

AREAS TO BE TOPSOILED, FERTILIZED,
 SEEDED & MULCHED (TSFM)
 PLAN VIEW
 1" = 80'



 AREA TO BE TOPSOILED,
 SEEDED, FERTILIZED, &
 MULCHED (TSFM)

TOTAL AREA TO BE TSFM = ~0.5 ACRES
 -0 ACRES OF BORROW AREA INCLUDED

Date		5-22	
Approved By		Shane Kjelberg P.E. 5-2022	
Title		
Date Surveyed	4-9-16; 12-28-20	Date Drawn	5-22
Designed by	skk	Drawn By	skk
Date Checked	5-22	Checked by	jak/ch
File: final2022.dwg			
Perkins Farms Goodhue County, MN			
AWS Topsolling			
K ₂ ENGINEERING INC.			
4209 94TH AVE SE			
YPSILANTI, ND 58497			
Phone 701-489-3322			
Sheet No.		5 of 8	

MAIN PLAN VIEW - BARN
N.T.S

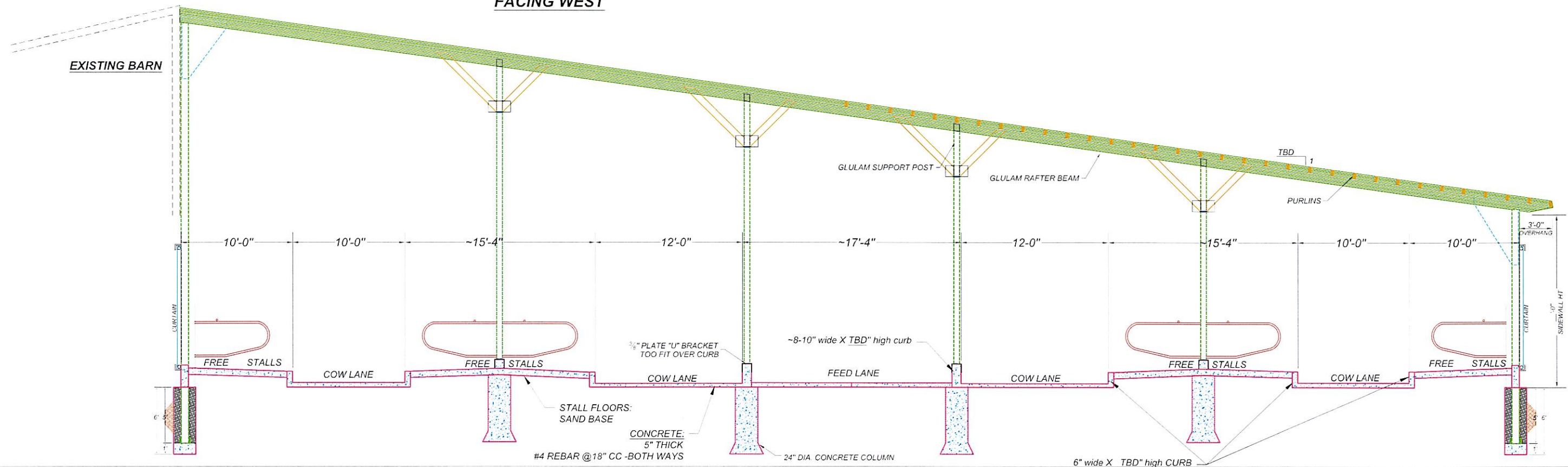


112'-0"

168'-0" NEW BARN

<p>K₂ ENGINEERING INC. 4209 94TH AVE SE YPSILANTI, ND 58497 Phone 701-489-3322</p>		<p>Perkins Farms Goodhue County, MN AWS Barn Plan View</p>	
<p>Sheet No. 6 of 8</p>		<p>Date Surveyed 4-9-16; 12-28-20 Date Drawn 5-22 Designed by skk Drawn By skk Date Checked 5-22 Checked by jak/ch File: final2022.dwg</p>	
<p>Approved By Shane Kjellberg, P.E. 5-2022 Title</p>		<p>Date</p>	

**TYPICAL SECTION
FACING WEST**



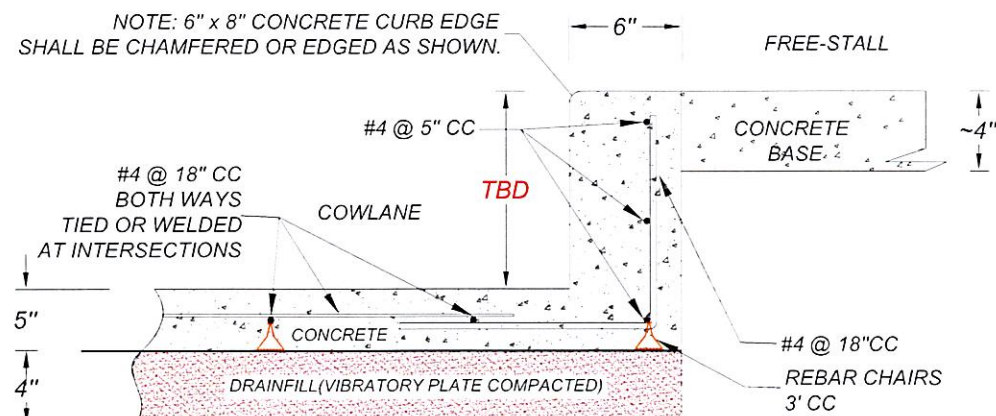
NOTES:

1. MINIMUM CONCRETE REQUIREMENTS FOR FLOORS IS 4,000 PSI, 5" THICK, #4(0.5" DIA.) REINFORCING STEEL @18" CC, BOTH WAYS
2. ALL PAD EDGES SHALL BE CHAMFERED OR EDGED WITH AN EDGING TOOL.
3. PADS SHALL BE VIBRATORY SCREEDED, FLOATED, AND FINISHED TO PROVIDE A UNIFORM AND FLAT FINISH.
4. WATER SHALL **NOT** BE ADDED TO SURFACE OF CONCRETE.
5. UNIFORM APPLICATION OF CURING COMPOUND SHALL BE APPLIED WITHIN 20-30 MINUTES AFTER FINISHING.
6. CURING COMPOUND SHALL COMPLETELY COVER CONCRETE SURFACE.
7. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF POSTS IN CONCRETE. LANDOWNER WILL PROVIDE POSTS.
8. **MAXIMUM CONTROL JOINT SPACING IS 100' (I.E. SAWCUTS OR GROOVED TOOL).**
9. **As per Minnesota electrical code, all grounding for reinforcing steel will need to be inspected prior to concrete placement.**

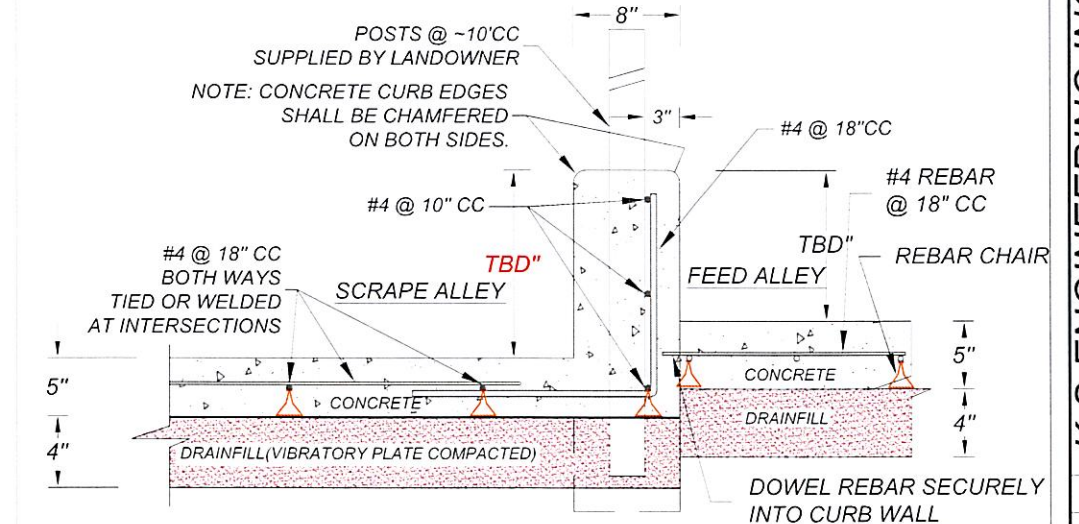
NOTES:

1. CURB DIMENSIONS WILL NEED TO BE DETERMINED BY OWNER.
2. INTERIOR SUPPORT POSTS WILL BE DETERMINED BY BUILDING COMPANY & OWNER.
3. OVERHANGS WILL NEED TO BE VERIFIED.
4. VENTILATION & CEILING DESIGN BY OTHERS.

**6" x " CONCRETE CURB DETAIL
NOT TO SCALE**



**8" x 16-21" CONCRETE CURB AND FEED AREA DETAIL
NOT TO SCALE**



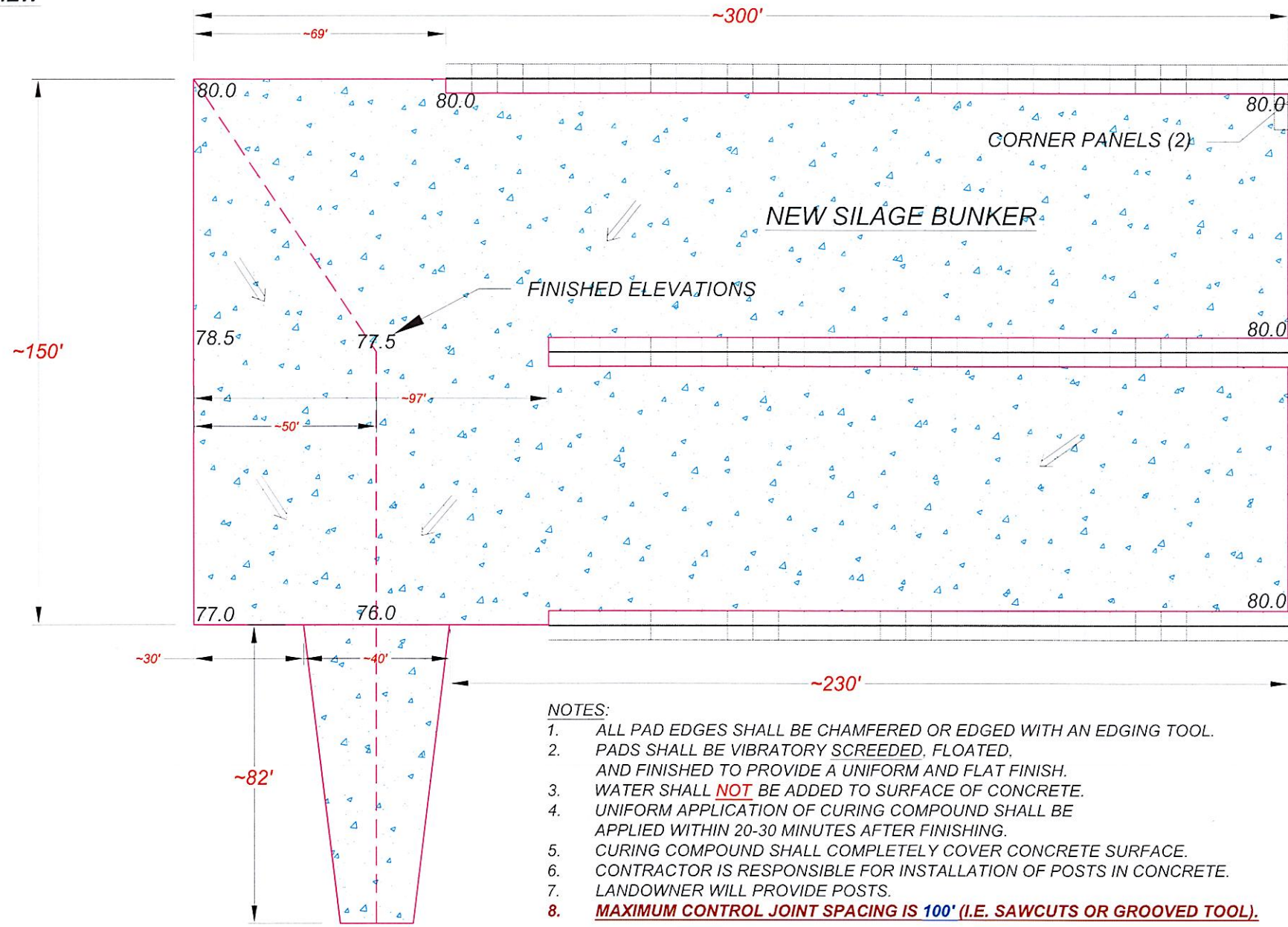
Date: 4-9-16, 12-28-20
 Approved By: Shane Kjellberg P.E. 5-2022
 Title:

Date Surveyed: 4-9-16, 12-28-20
 Date Drawn: 5-22
 Designed by: skk
 Drawn By: skk
 Date Checked: 5-22
 Checked by: jak/ch
 File: final2022.dwg

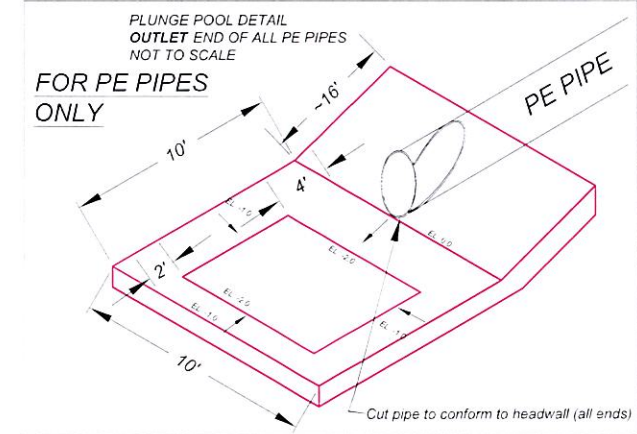
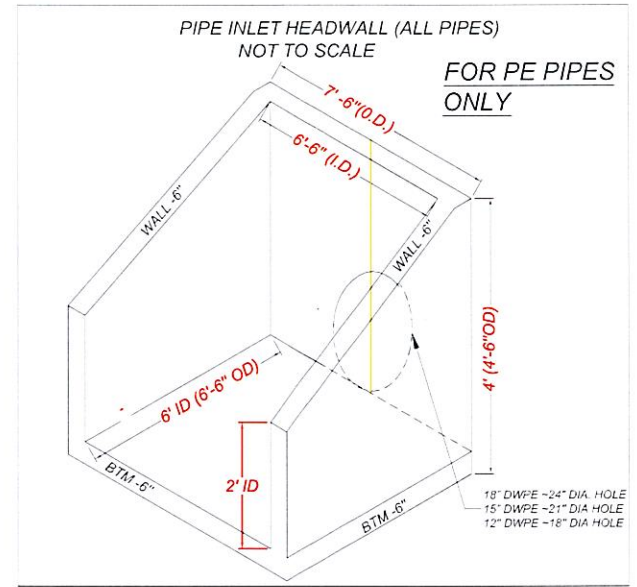
Perkins Farms
 Goodhue County, MN
 AWS
 Barn Details

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 YPSILANTI, ND 58497
 Phone 701-489-3322

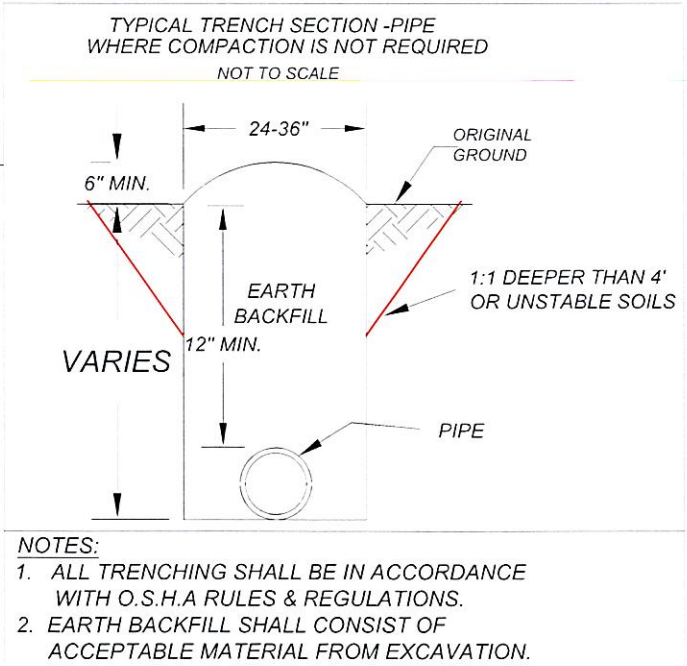
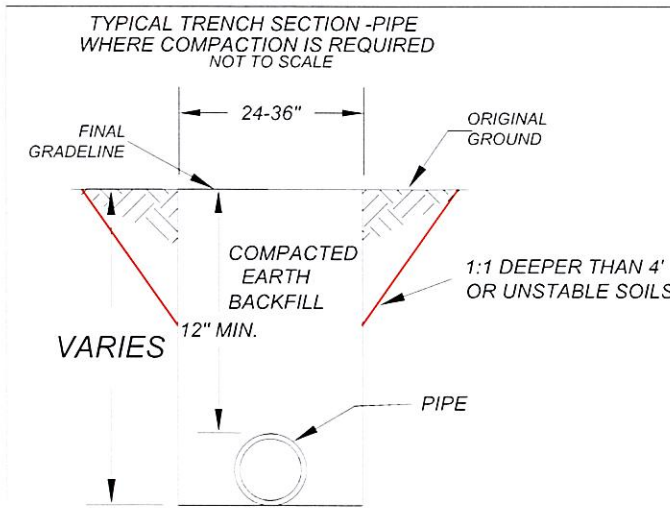
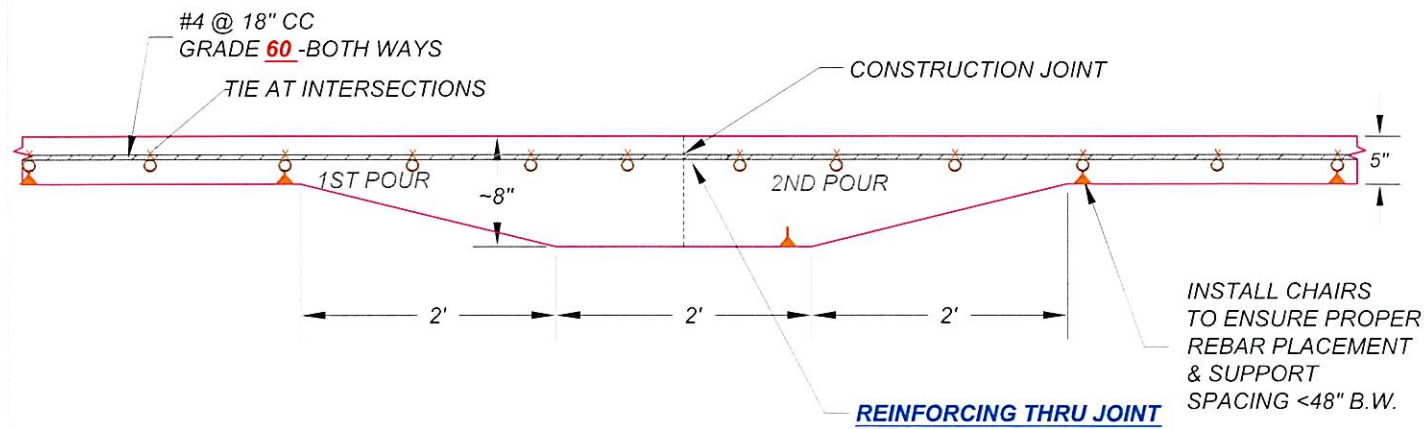
FEED STORAGE PAD PLAN VIEW
N.T.S



- NOTES:**
1. ALL PAD EDGES SHALL BE CHAMFERED OR EDGED WITH AN EDGING TOOL.
 2. PADS SHALL BE VIBRATORY SCREEDED, FLOATED, AND FINISHED TO PROVIDE A UNIFORM AND FLAT FINISH. WATER SHALL **NOT** BE ADDED TO SURFACE OF CONCRETE.
 3. UNIFORM APPLICATION OF CURING COMPOUND SHALL BE APPLIED WITHIN 20-30 MINUTES AFTER FINISHING.
 4. CURING COMPOUND SHALL COMPLETELY COVER CONCRETE SURFACE.
 5. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF POSTS IN CONCRETE.
 6. LANDOWNER WILL PROVIDE POSTS.
 7. **MAXIMUM CONTROL JOINT SPACING IS 100' (I.E. SAWCUTS OR GROOVED TOOL).**



CONSTRUCTION JOINT DETAIL
NOT TO SCALE



- NOTES:**
1. ALL TRENCHING SHALL BE IN ACCORDANCE WITH O.S.H.A RULES & REGULATIONS.
 2. EARTH BACKFILL SHALL CONSIST OF ACCEPTABLE MATERIAL FROM EXCAVATION.

Date
Approved By **Shane Kjellberg P.E. 5-2022**
Title
Date Surveyed 4-9-16, 12-28-20
Date Drawn 5-22
Designed by sikk
Drawn By sikk
Date Checked 5-22
Checked by jak/ch
File: final2022.dwg

Perkins Farms
Goodhue County, MN
AWS
Feed Storage Pad

K₂ ENGINEERING INC.
4209 94TH AVE SE
YPSILANTI, ND 58497
Phone 701-489-3322

MAP 02: VICINITY MAP

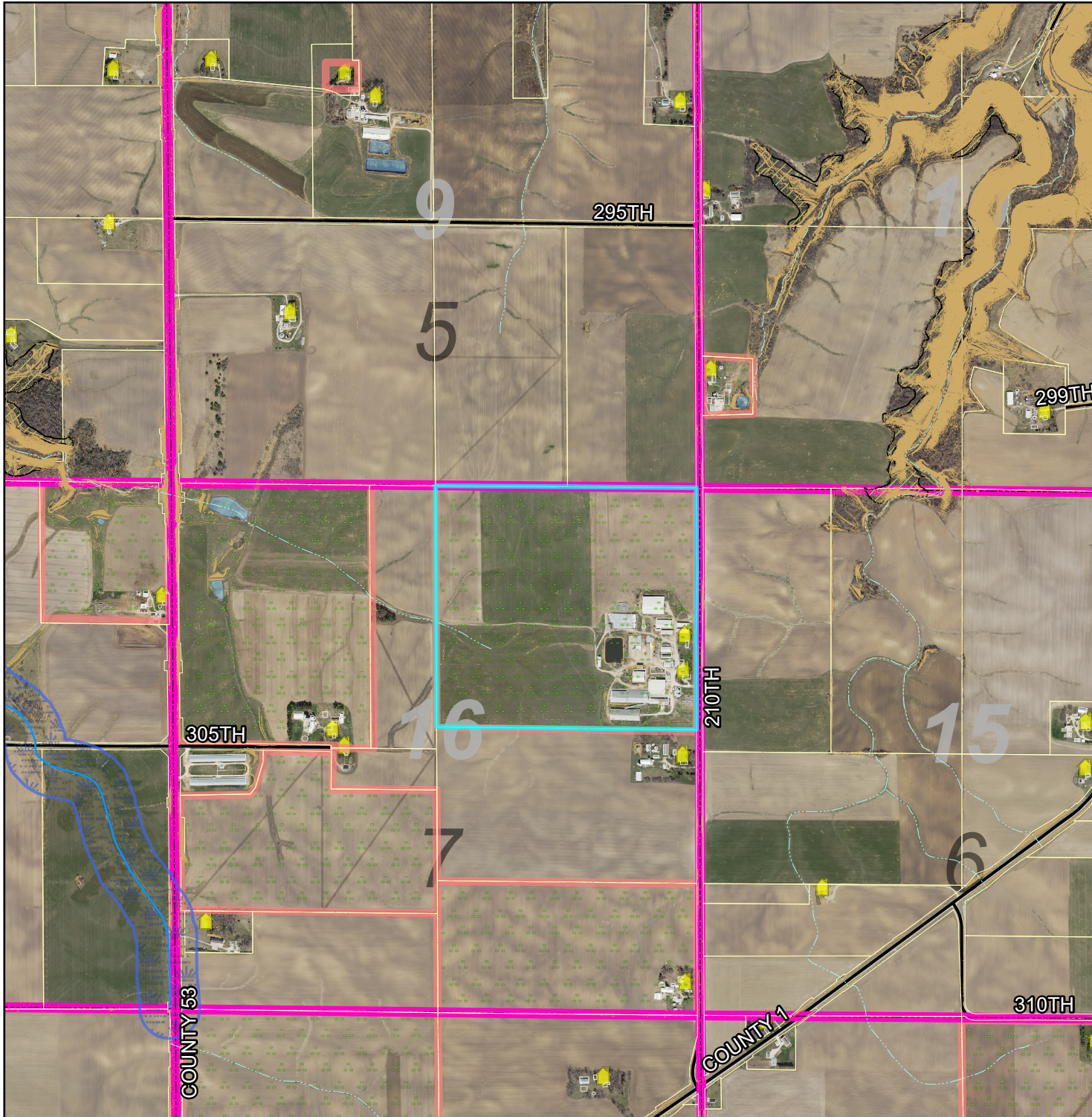
PLANNING COMMISSION

Public Hearing
January 27th, 2025

Tom Perkins (Authorized Agent) on behalf of
Perkins Family Farms (Owner)
A-1 Zoned District.

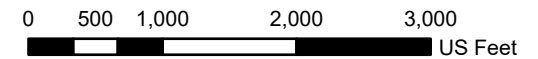
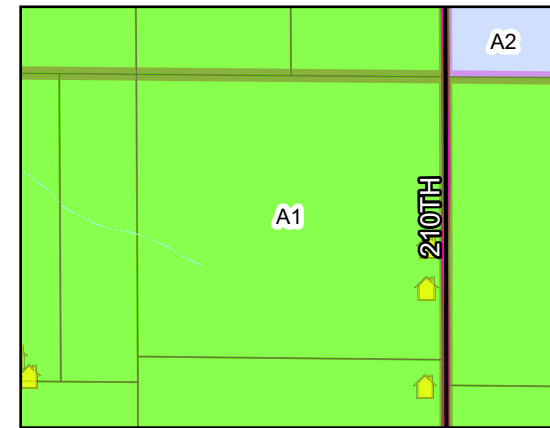
The NE 1/4 of Section 16 TWP 112
Range 15 in Featherstone Township.

Request for CUP amendment for a Feedlot
expansion to a total of 2,560 Animal Units.



Legend

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

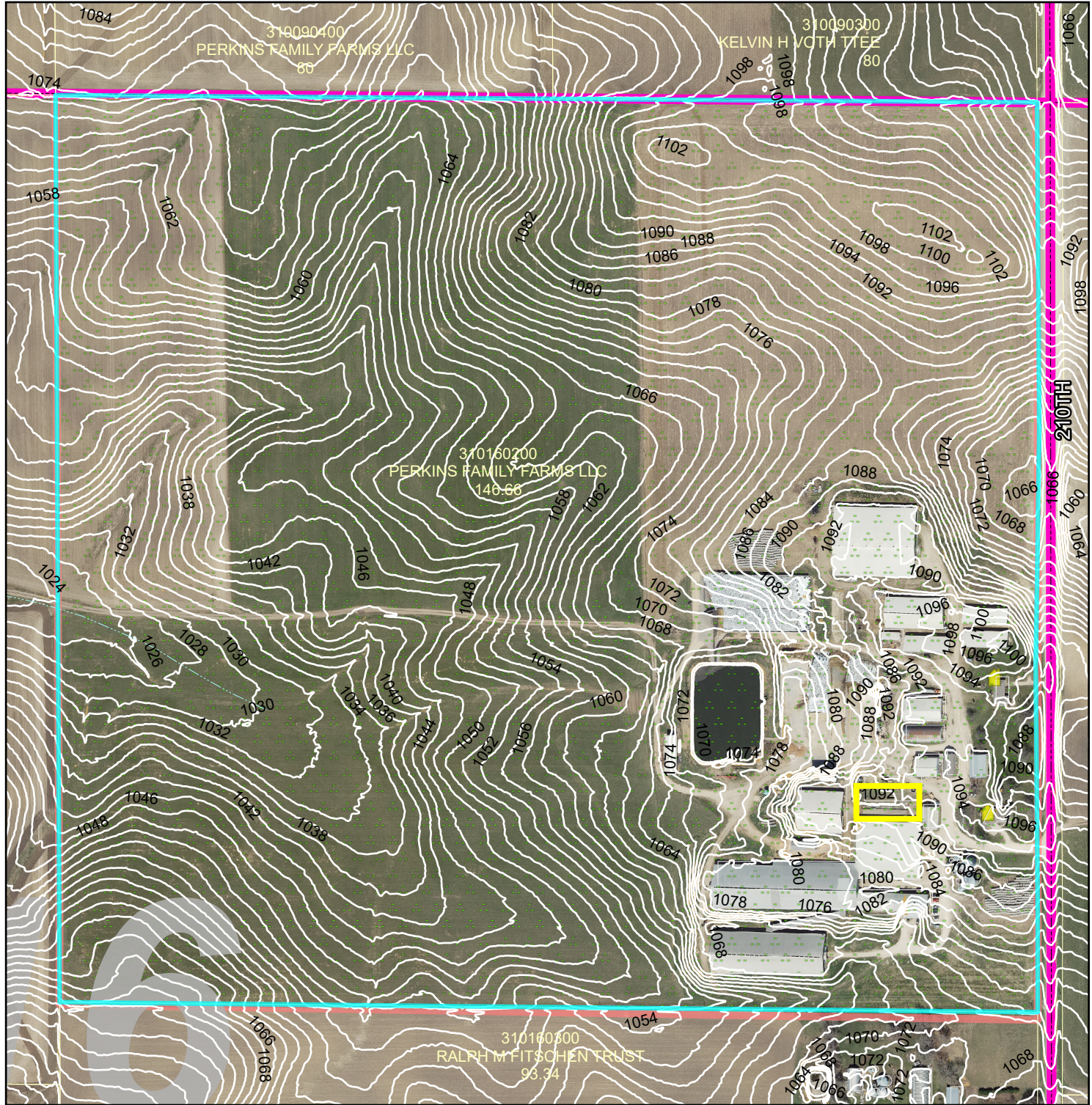


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Map Created January, 2025 by LUM



MAP 03: ELEVATIONS



PLANNING COMMISSION

Public Hearing
January 27th, 2025

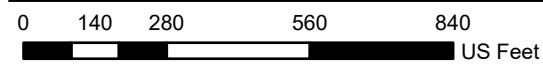
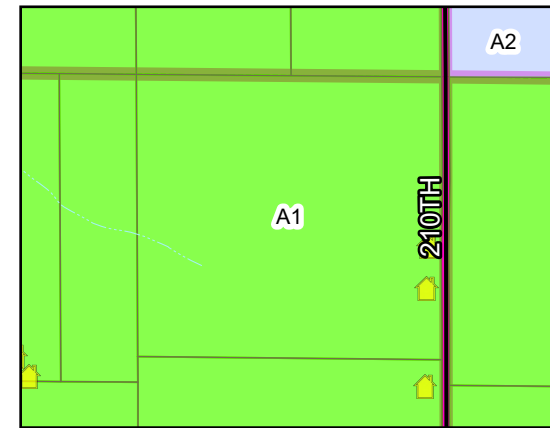
Tom Perkins (Authorized Agent) on behalf of
Perkins Family Farms (Owner)
A-1 Zoned District.

The NE 1/4 of Section 16 TWP 112
Range 15 in Featherstone Township.

Request for CUP amendment for a Feedlot
expansion to a total of 2,560 Animal Units.

Legend

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

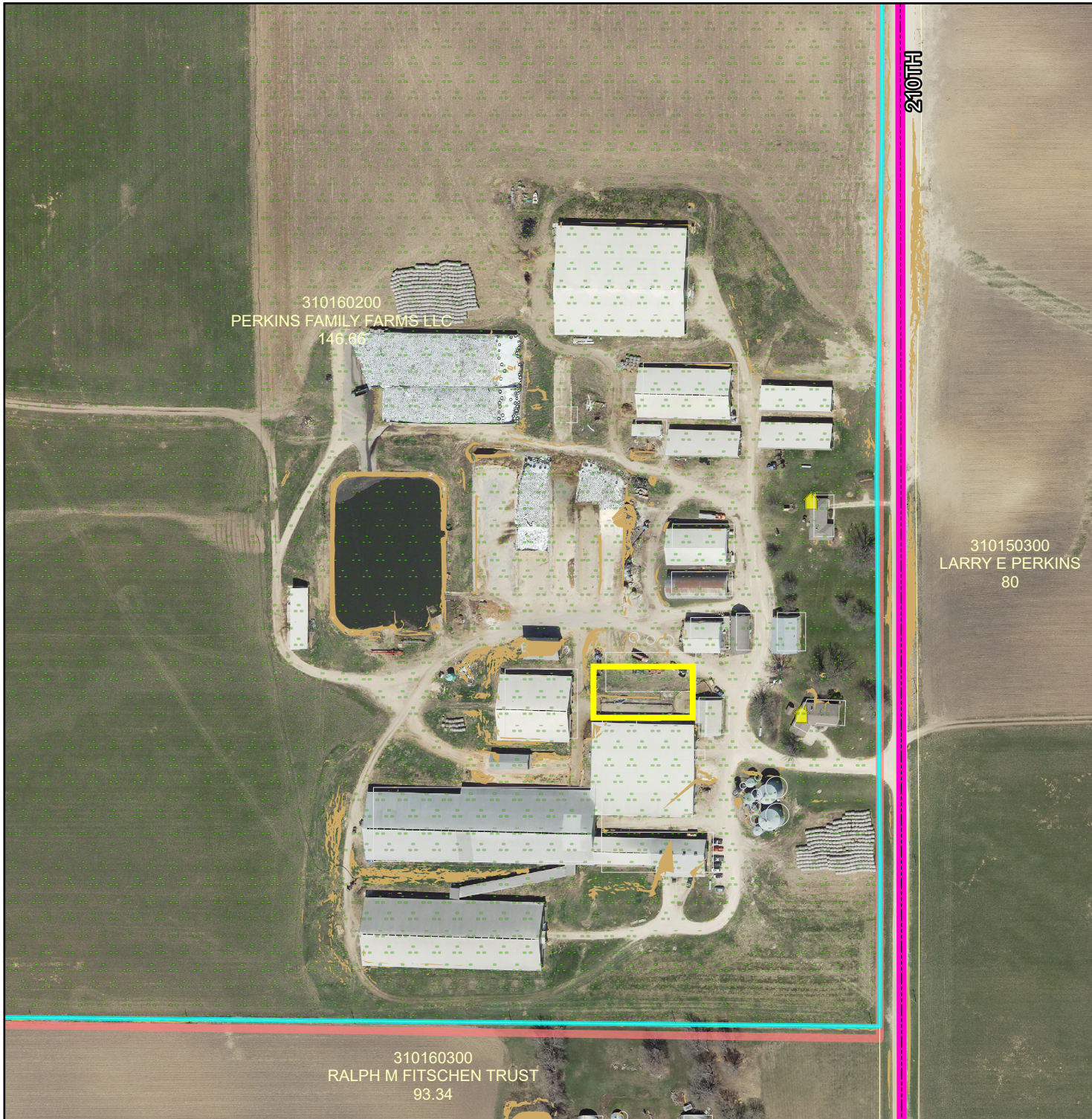


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MAP 01: PROPERTY OVERVIEW



PLANNING COMMISSION

Public Hearing
January 27th, 2025

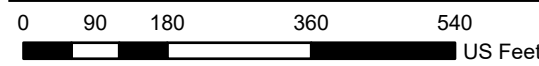
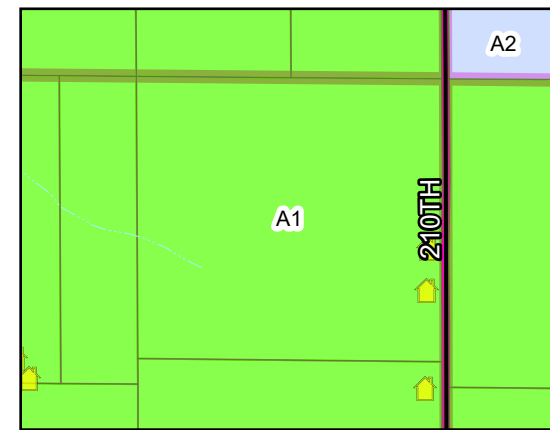
Tom Perkins (Authorized Agent) on behalf of
Perkins Family Farms (Owner)
A-1 Zoned District.

The NE 1/4 of Section 16 TWP 112
Range 15 in Featherstone Township.

Request for CUP amendment for a Feedlot
expansion to a total of 2,560 Animal Units.

Legend

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



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