



WHERE THE FOREST MEETS THE PRAIRIE

Todd County

● MINNESOTA ● EST. 1855 ●

PLANNING & ZONING

215 1st Avenue South, Suite 103

Long Prairie, MN 56347

Phone: 320-732-4420 Fax: 320-732-4803

Email address: toddplan.zone@co.todd.mn.us

The following is the agenda for **Thursday, March 6th, 2025 at 6:00pm**. The Todd County Planning Commission will hold a public hearing in the Commissioner's Boardroom, Historic Courthouse, 215 1st Ave South, Suite 301, Long Prairie.

NOTE: This meeting is being held in-person and the public is encouraged to attend. Those who do attend in person can find parking atop the hill on the west side of the Historic Courthouse and enter through the North Doors, near the American Flag and monument.

If you have any concerns or questions in regard to the upcoming meeting and the applications on the agenda, feel free to contact the Planning & Zoning Office at either **(320) 732-4420** or **toddplan.zone@co.todd.mn.us**. All correspondence must include name & mailing address and be received 48 hours before the date and time of the hearing.

Agenda

- Call to Order
 - Pledge of Allegiance
 - Introduction of Planning Commission Members and process review.
 - The applicant is introduced
 - Staff report
 - Applicant confirms if staff report accurately represents the request
 - Public comment
 - Board review with applicant, staff, and public
 - Approval of agenda
 - Approval of the February 6th, 2025 Planning Commission meeting minutes
-
1. **Henry Miller:** Section 31, Eagle Valley Township
Site Address: 33371 171st Avenue, Clarissa, MN 56440
PID: 07-0037500
 1. Request for CUP to replace #CUP-2024-008 for the expansion of an existing business to include sawmill, horse shoeing, trimming, window manufacturing, woodworking and machining in AF-1 Zoning District.
 2. **Wolf River Electric:** Section 14, Germania Township
Site Address: 21381 430th Street, Bertha, MN 56437
PID: 09-0009500
 2. Request a CUP for the installation of a Ground Mounted PC Solar System in excess of 120% of annual energy consumption, in AF-1 Zoning District.
 3. **Justin & Erika Wardell:** Section 11, Leslie Township
Site Address: 14795 County Rd 65, Long Prairie, MN 56347
PID: 15-0012301
 3. Request a CUP for the 30' X 36' addition to an existing garage for temporary family housing in AF-1 Zoning District.

Adjournment –

Next meeting: April 3, 2025

Planning Commission Meeting Minutes
February 6th, 2025
Completed by: Sue Bertrand, P&Z Staff

Site visits conducted by Adam Ossefoort and Jim Pratt on 1/30/2024.

Meeting attended by board members: Vice Chair Ken Hovet, Lloyd Graves, Roger Hendrickson, Andy Watland and alternate, George Sutton.

Staff members: Adam Ossefoort and Sue Bertrand

Other members of the public: Sign-in Sheet is available for viewing upon request.

Ken called the meeting to order at 6:00 p.m. The Pledge of Allegiance was recited as a collective group.

Introduction of the staff and board members by Ken.

Roger made a motion to have the agenda approved as written, seconded by Andy, voice vote, no dissent heard, motion carried.

Lloyd motioned to have the January 2nd, 2025 meeting minutes approved. Roger seconded the motion. Voice vote, no dissent heard. Motion carried.

AGENDA ITEM 1: LouAnna Mosher: 05-0001300– Burleene Township

1. Request for Zoning Amendment of the NE ¼ of the SE ¼ of Section 2, Burleene Township from R-10 Zoning to AF-2 Zoning for the creation of a 5-acre lot in the future.

Leila Oliver was present as the applicant. Leila stated she had been asked by the Mosher's to represent them, as LouAnna lives in Cambridge and Martin doesn't drive at night. Also, she is familiar with the property and the future potential owner, Amy Claseman, once this is figured out.

Staff Findings: Adam read the staff report. The staff report is available for viewing upon request in the Planning & Zoning Office.

Leila confirmed the staff report was accurate.

On Site Visit Report by Jim was read aloud by Adam: This report may be viewed in full, upon request, at the Planning and Zoning office.

Correspondence received: None

Public comment: None

Board discussion:

Roger asked Adam what the differences were in the two zoning districts right now.

Adam explained the brighter green is AF-2 and the brown is R-10 and the lighter green is AF-1. The request is to go to the AF-2, making the whole 80 acres AF-2.

Roger asked if he knew the reason it was zoned R-10 at one time?

Adam stated some of the County road parcels around Burleene township were zoned R-10 and considered more residential at the time, even though the uses around there are primarily farming, feedlots, with one odd golf course in the area. He mentioned they did a comprehensive rezoning around 2006, and a lot of the map changed quite a bit, but did not know for sure why it was rezoned R-10.

Lloyd added this is a paved highway.

Adam confirmed, County highway.

Andy asked if the R-10 zoning requires at least a ten-acre lot?

Adam confirmed, yes, and you may have a home on each parcel. He added, in AF-2 and AF-1 they require two acres per parcel minimum, and the number of dwellings in AF-1 is one per 40 acres, and AF-2 is two dwellings per 40 acres.

Andy stated this will reduce the number of dwellings for the forty.

Adam added the request states the reason for the rezone is to make the parcel "size requirement" smaller, as they would like to create a reduced size, 5-acre parcel to sell.

Lloyd addressed Amy Claseman, future buyer, and asked if she was going to build near the existing house on that parcel?

Amy stated no, she will buy and do some remodeling to the existing house. She did not want the extra acreage.

Roger stated he could see no problem with it, and it will be reducing the number of dwellings allowed in Ag, and made the motion to approve with no conditions. Andy seconded.

Ken asked what kind of use is the rest of the R-10 land and is it farmed?

Amy stated it is mostly hunting land, with a lot of swamp, not farmed.

Adam added it's hilly and the bottoms are wet.

Ken asked for the Roll call vote as follows:

Board member	Vote (yes or no)
Roger Hendrickson	Yes
Lloyd Graves	Yes

George Sutton	Yes
Andy Watland	Yes
Ken Hovet	Yes

Motion carried. Ken noted the application will be recommended for approval to the County Board of Commissioners on February 18th, 2025.

George asked Adam how often does this “comprehensive rezoning” take place in the County?

Adam stated he didn’t know for sure, the last time it was in 2006, however, we will be re-writing our Comprehensive Plan this year and with that would come any ordinance amendments and changes and probably looking at the map, so we could be doing it again soon, in the next two to five years. He stated we will get through the comp plan re-write first, and see where it leads to.

George motioned to adjourn and Roger seconded. Voice vote to adjourn, no dissent heard. Motion carried and meeting adjourned at 6:17 PM.

MEMO

BOA & PC Training

When: March 4th, 2025

Time: 2:00 pm – 4:00 pm (together & all invited to both)

Where: Commissioners' room



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Todd County
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PLANNING & ZONING
215 1st Avenue South, Suite 103
Long Prairie, MN 56347
Phone: 320-732-4420 Fax: 320-732-4803
Email: ToddPlan.Zone@Co.Todd.MN.US

Todd County Planning & Zoning

FEB 06 2025

Received
Received

FEB 06 2025

Todd County Planning & Zoning

CONDITIONAL USE PERMIT APPLICATION

Applicant Henry J. Miller Mailing Address same
Site Address 33371 171st Ave Clarissa MN 56440
Phone Number none E-Mail Address _____
Property Owners Name & Address (if not applicant) Jacob C. Miller
17913 344th St. Clarissa MN 56440
Parcel ID(s) 07-0037500 Township Eagle Valley Lake/River Name _____
Zoning District (circle one): (AF-1) AF2; R-2; R-10; UG; RT; Comm; L-M; or Shoreland.

Full and Current Legal Description(s) _____
(attach if necessary)

Current tax statement or other proof of ownership attached () yes () no

Measurement of land involved: Width _____ Length _____ Acres 20

Septic System: Date installed 2024 Date of latest Compliance Inspection _____

Is an upgrade needed: () yes (X) no

Site accessed by: (X) public road () easement

If easement, is the easement legally recorded? () yes () no

Detailed Explanation of Request:

Horse shoeing and training Sawmill operation
window manufacturing - woodworking - machining
request to replace CUP # 2024-008

Did you meet with the Township Board to present the Application for Conditional Use Permit?

Yes X No _____ Date of the meeting: 2/4/2025

* see attached

Optional Township Board Signature

Board Position

Will the request create an excessive burden on the existing roads or other utilities? **Explain**

(NO) cars - trucks & trailers

Is the requested use compatible with the surrounding properties? **Explain**

yes

Could the use significantly depreciate near-by properties? **Explain**

No

Will the structure and the use have an appearance that will not have an adverse effect on near-by properties? **Explain**

NO

Will the requested use create an adverse affect on near-by properties because of noise, odor, glare, hours of operation, or general unsightliness? **Explain**

NO - operation inside of building

**RETURN APPLICATION, SITE PLAN, SEWER INFORMATION AND ANY ADDITION
INFORMATION, AND FEE TO:**

Todd County Planning & Zoning Office
215 1st Ave South, Suite 103
Long Prairie, MN 56347

Fee: \$500.00 or After-the-Fact Fee: \$1,000.00 payable to "Todd County"

Only complete applications may be placed on an agenda

****A PARCEL IN JOINT OWNERSHIP MUST PROVIDE WRITTEN SIGNATURE OF ALL OWNERS****

Henry J. Miller
Applicant Name Printed

Henry J. Miller
Signature

2-5-25
Date

Jacob C. Miller
Property Owner Name Printed

Jacob C. Miller
Signature (If different than applicant)

2-5-25
Date

A Conditional Use Permit expires and is considered invalid unless they are substantially completed within thirty-six months of the date the CUP is granted by the County Board (Section 5.05(N) of the County Zoning Ordinance).

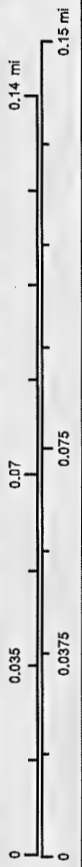


2023

The Todd County GIS & Land Services Department has made every effort to provide the most accurate and up-to-date information available in this publication and cannot be held responsible for any unforeseen errors or omissions. If the recipient wishes to locate parcel corners and property lines, employ the services of a Registered Land Surveyor.



GIS Site Map



Todd County GIS
215 1st Ave S, Ste 102
Long Prairie, MN 56347
(Office) 320-732-4248

Printed on: Wednesday, February 5, 2025

WHERE THE FOREST MEETS THE PRAIRIE
Todd County
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Site Plan

Outline how the intended use will be situated on the property including buildings, parking areas, signage, material storage areas, etc.

see attached

2/4/2025

Henry Miller presented to the Eagle Valley township board a presentation requesting the board sign a paper regarding a CUP.

Chairman Stanley Johns
Supervisor Jan [unclear]
Supervisor [unclear] 2/4/2025

Document #: A540634

04-05-2024 at 3:33 PM

KIMBERLY BOSL

TODD COUNTY RECORDER

Long Prairie, MN

Fee Amount: \$46.00

Return via OTHER:

TODD COUNTY PLANNING & ZONING

215 1ST AVE S #103

LONG PRAIRIE, MN 56347

CONDITIONAL USE PROCEEDINGS

STATE OF MINNESOTA COUNTY OF TODD

In The Matter of: Jacob C. Miller
Mailing Address: 17913 344th St.
Clarissa, MN 56440

Property Owner: Jacob C. Miller
Mailing Address: 17913 344th St.
Clarissa, MN 56440

Site Address: 33371 171st Ave., Clarissa, MN 56440 **Parcel Number:** 07-0037500

REQUEST: Request for a Conditional Use Permit for the operation and retail sales of a Sawmill and or Re-saw business in AF-1 Zoning.

The above entitled matter was heard before the Todd County Planning Commission on the 7th day of March, 2024 on a petition for Conditional Use pursuant to the Todd County Zoning Ordinance, for the following described property:

THE E1/2 OF THE SW1/4 OF SECTION 31, TOWNSHIP 131 NORTH, RANGE 34 WEST, TODD COUNTY, MINNESOTA.

Record this document in: X abstract records torrens records.

IT IS ORDERED that the Conditional Use # CUP-2024-008 be (granted, denied) as upon the following conditions, changes or reasons:

1. Hours of operation shall be restricted to 7:00 AM to 6:00 PM CST, Monday through Saturday.
2. Operation of the sawmill shall be conducted within a permitted structure.
3. Outdoor storage of products shall be allowed but shall be conducted in compliance with Section 9.01B of the Todd County Planning and Zoning Ordinance.
4. Business traffic shall access the site via County 84 from the south. North bound traffic from the site shall not be allowed for protection of the roadway.
5. Operation site shall meet all the setback requirements for the zoning district in which it's located.

6. There shall be no loading or unloading of materials within the road right of way.
7. Applicant shall work with Eagle Valley Township to establish a sufficient business access and establish truck route signage.
8. Establishment of an exhaust system directed through the roof of the structure with inclusion of a muffler.
9. Applicant shall abide by all other applicable federal, state, and local standards.

Barb Becker
Todd County Board of Commissioners
Barb Becker, Chairperson

3-19-2024
Date

STATE OF MINNESOTA
COUNTY OF TODD

OFFICE OF TODD COUNTY
PLANNING & ZONING OFFICE

I, Adam R. Ossefoort Todd County Planning & Zoning Director, County of Todd with and in for said County, do hereby certify that I have compared the foregoing copy and order (granting, ~~denying~~) a Conditional Use with the original record thereof preserved in my office, and have found the same to be correct and true transcript of the whole thereof.

IN TESTIMONY WHEREOF, I have hereunto subscribed my hand at Long Prairie, MN in the County of Todd on the 27th day of March, 2024.

Adam R. Ossefoort
Adam R. Ossefoort, Todd County Planning and Zoning Director

Drafted by: Sue Bertrand
Planning and Zoning Staff

This form mailed to applicant: 4/23/2024
Date

Activities granted by a Conditional Use Permit expire and are considered invalid unless they are substantially completed within thirty-six months of the date the conditional use permit is granted by the Board of Commissioners. Section 5.05M Todd County Ordinance.

As of : 2/7/2025

Parcel Number: 07-0037500
Payable Year: 2025 Total Rec
| Detail Record

General Information	Value Information	Special Asmts	Ditch	Sales	History	Appraisal Summary	Current Year Value Notice	Previous Year Value Notice	Current Year TNT
---------------------	-------------------	---------------	-------	-------	---------	-------------------	---------------------------	----------------------------	------------------

Taxpayer/Owner Information
Taxpayer #24608
MILLER/JACOB C & EMMA
17913-344TH ST
CLARISSA MN 56440

General
MP #07-0037500 Re/Mh: REAL ESTATE
Twp/City School
7 787
Twp/City 7 - EAGLE VALLEY
School Dist 787 - BROWERVILLE

Description				
Sect	Twp	Range	Lot	Block
31	131	34	0	0

E2 SW4
80.00 ACRES

Property Address
33371 171ST AVE 56440

Escrow
0
Deeded Acres: 80.00

[Another Search](#) | [Back to ParcelList](#) |



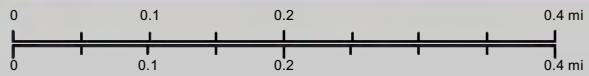
Todd County
MINNESOTA



Todd County GIS
215 1st Ave S, Ste 102
Long Prairie, MN 56347
(Office) 320-732-4248

Todd County GIS

GIS Site Map



0 0.1 0.2 0.4 mi
0 0.1 0.2 0.4 mi



The Todd County GIS & Land Services Department has made every effort to provide the most accurate and up-to-date information available in this publication and cannot be held responsible for any unforeseen errors or omissions. If the recipient wishes to locate parcel corners and property lines, employ the services of a Registered Land Surveyor.

Printed on:
Thursday, February 6, 2025

07-0037301
NICHOLAS R &
JESSICA HEMMESCH

07-0037302
JACOB C &
EMMA MILLER

07-0037200
JUSTIN D
JOHNSON

07-0037100
RONALD G & LINDA REINING

07-0037400
JAMES A &
LINDA LINE

07-0037500
JACOB C &
EMMA MILLER

07-0037700
MARK A
CHMIELEWSKI &

07-0037600
MARK A CHMIELEWSKI &

07-0037800
MARK A CHMIELEWSKI &

13-0005800
DELL BENNETT

13-0005700
DAVID BLAKE

13-0005300
DAVID BLAKE

13-0005400
SZANNE MARIE KENT



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Email: ToddPlan.Zone@Co.Todd.MN.US

Received

FEB 12 2025

Todd County Planning
& Zoning

CONDITIONAL USE PERMIT APPLICATION

Applicant Wolf River Electric Mailing Address 101 Isanti Parkway NE, Suite G, Isanti, MN 55040

Site Address 21381 430th St, Bertha, MN 56437

Phone Number [REDACTED] E-Mail Address [REDACTED]

Property Owners Name & Address (if not applicant) Anne Hemstock

21381 430th St, Bertha, MN 56437

Parcel ID(s) 090009500 Township Germania Lake/River Name

Zoning District (circle one): AF-1 AF2; R-2; R-10; UG; RT; Comm; L-M; or Shoreland

Full and Current Legal Description(s) Residential single-family home
(attach if necessary)

Current tax statement or other proof of ownership attached ☒ yes () no

Measurement of land involved: Width Length Acres 40.92

Septic System: Date installed 4/19/1993 Date of latest Compliance Inspection 4/19/1993

Is an upgrade needed: () yes () no * Has winter agreement.

Site accessed by: ☒ public road () easement

If easement, is the easement legally recorded? () yes () no

Detailed Explanation of Request:

Installation of a ground-mounted solar system to power the home.

Did you meet with the Township Board to present the Application for Conditional Use Permit?

Yes ☒ No Date of the meeting: 2 / 11 / 2025

[Signature]
Optional Township Board Signature

Chairman
Board Position

Will the request create an excessive burden on the existing roads or other utilities? **Explain**

No, the system will be installed on the property away from roads and utilities.

Is the requested use compatible with the surrounding properties? **Explain**

Yes, the system does not affect surrounding properties.

Could the use significantly depreciate near-by properties? **Explain**

No, the system does not affect surrounding properties.

Will the structure and the use have an appearance that will not have an adverse effect on near-by properties? **Explain**

The system will not be visible to nearby properties due to tree coverage.

Will the requested use create an adverse affect on near-by properties because of noise, odor, glare, hours of operation, or general unsightliness? **Explain**

No, the system will not be visible because of tree coverage and it does not produce any sound.

**RETURN APPLICATION, SITE PLAN, SEWER INFORMATION AND ANY ADDITION
INFORMATION, AND FEE TO:**

Todd County Planning & Zoning Office
215 1st Ave South, Suite 103
Long Prairie, MN 56347

Fee: \$500.00 or After-the-Fact Fee: \$1,000.00 payable to "Todd County"

Only complete applications may be placed on an agenda

****A PARCEL IN JOINT OWNERSHIP MUST PROVIDE WRITTEN SIGNATURE OF ALL OWNERS****

Chloe Kirks

Applicant Name Printed

Chloe Kirks

Signature

2/11/25

Date

Anne Hemstock

Property Owner Name Printed

Anne M. Hemstock

Signature (If different than applicant)

2-11-2025

Date

A Conditional Use Permit expires and is considered invalid unless they are substantially completed within thirty-six months of the date the CUP is granted by the County Board (Section 5.05(N) of the County Zoning Ordinance).

AUTHORIZED AGENT FORM

I hereby authorize Wolf River Electric to act as my
authorized agent for all public hearing(s) and legal relations with this application on
property located at:

Site address 21381 430th St, Bertha, MN 56437

Section # 34 Township Name Germania

Parcel Number(s) 090009500

Property Owner(s) Name(s) (print) Anne Hemstock

Property Owner(s) Signature(s) Anne M Hemstock Date 2-11-2025

Authorized Agent(s) name(s) (print) Chloe Kirks

Authorized Agent(s) Signature(s) Chloe Kirks Date 2/11/25

Authorized Agent Phone Number [REDACTED]

Authorized Agent Email [REDACTED]

Site Plan

Outline how the intended use will be situated on the property including buildings, parking areas, signage, material storage areas, etc.

* see attached

Sue Bertrand

From: Chloe Kirks <chloe@wolfriverelectric.com>
Sent: Tuesday, February 11, 2025 8:05 AM
To: Sue Bertrand
Subject: Re: Building Permit Application | Anne Hemstock | 21381 430th St, Bertha, MN 56437 | Wolf River Electric

TODD COUNTY SECURITY NOTICE :

This email originated from an external sender. Please exercise caution before clicking on any links or attachments and consider whether you know the sender. For more information please contact MIS.

Good Morning Sue,

We are meeting with Germania Township this evening, and I will have them sign the updated application. I will get it back to you as soon as possible on Wednesday, the 12th. We hope to have the utility's interconnection agreement in early March. I will also work on tracking down the agreement for 13727 Hackberry Road, Long Prairie, MN 56347, PID#15-0016901.

Please let me know if any additional information is needed at this time.

Thank you,

On Mon, Feb 10, 2025 at 9:23 PM Sue Bertrand <Sue.Bertrand@co.todd.mn.us> wrote:

Hello,

Please see our updated CUP application that has the current requirement of the township meeting attendance and signatures needed prior to our Planning Commission meeting.

Please get rid of the old applications, and replace with this revised 2025 CUP forms.

Thank you!

We are still waiting for the interconnection agreement for the application above and also we have not received the interconnection agreement for: 13727 Hackberry Road, Long Prairie, MN 56347, PID#15-0016901 from when Ben Struwve quit.

Please send both as soon as possible.

Sue Bertrand

Planning and Zoning Specialist

Todd County

02/06/2025 04:09:44 pm

CUSTOMER PROFILE/BILLING HIST

Page: 1

Customer: 26417

Name: ANNE M HEMSTOCK
Addl Name: 21381 430TH ST
Address: BERTHA MN 56437

Phone
Home: 218-924-8300
Mobl: 320-310-7381
Busn:
Fax:

Ext
Home:
Mobl:
Busn:
Fax:

Addl Phone
Ext

Account: 26417001 Cycle Code: 1 Invoice Group: 0 Service: ELEC - ELECTRIC SERVICE
Provider: TWEC - Todd-Wadena Electric Coop

AR Information:

Total AR:	.00	Budget Due:	.00	Annual Due:	.00
Total Current:	.00	Curr Budget:	.00	Curr Annual:	.00
Total 30 Days:	.00	Past Budget:	.00	Past Annual:	.00
Total 60 Days:	.00				
Total 90 Days:	.00				

Payment Information:

Payment Date: 01/27/2025 Payment Amt: -115.00
Location: 4719 Srv Map Loc: 45-14-0110-00
Srv Desc: Srv Address: 21381 430TH ST
Prim Rate Sched:A

Emergency Addr:
District Office:
Board Dist:
Srv Area:

Service Agreement:

Srv Stat: 1 - Active Metered
Rev Cls: 1 - Residential/Farms
Medical Nec:
Outage Priority:
YTD Revenue: .00 YTD Usage: 0
Con Dt: 10/28/2020 Disc Date: Final Dt:

State: MN
County: 2 - Todd
City:
School:
Franchise:
Other:

Tax Switch
Y
Y
N
N
N
N

Meter Information:

Pos Mtr Nbr
1 105644
Rate Schedule
A - General Service

Con Dt Disc Dt
10/28/2020
Last Valid Rdg Dt: 01/01/2025

Pres Rdg Dmd Rdg
92543 5.624
Curr Use Days: 0

Load Management:

LM Ser Nbr
1123697

LM Type Rate
WH1-Water Storage House 1 WHB

Stat Con Dt Disc Dt
1 09/23/1997

Device Information:

Pos Dvc Serial Nbr
2 A442208177

Type
85 85 Gallon

Rate Connect Date Disc Date
A 05/09/2023

CUSTOMER PROFILE/BILLING HIST

Rev YrMo	Bill Dt	Revenue	Demand	Device	PCA	Other	Tax	Adjust	Total
Jan 2024	02/07/2024	91.46	.00	.00	.00	.79	6.75	.00	99.00
Feb 2024	03/07/2024	82.24	.00	.00	.00	.70	6.06	.00	89.00
Mar 2024	04/05/2024	83.52	.00	.00	.00	.32	6.16	.00	90.00
Apr 2024	05/07/2024	79.09	.00	.00	.00	.07	5.84	.00	85.00
May 2024	06/07/2024	112.93	.00	.00	.00	-7.66	7.73	.00	113.00
Jun 2024	07/08/2024	130.73	.00	.00	.00	-7.78	9.05	.00	132.00
Jul 2024	08/07/2024	176.17	.00	.00	.00	-7.57	12.40	.00	181.00
Aug 2024	09/06/2024	159.18	.00	.00	.00	-7.33	11.15	.00	163.00
Sep 2024	10/07/2024	112.23	.00	.00	.00	-7.92	7.69	.00	112.00
Oct 2024	11/07/2024	91.46	.00	.00	.00	.79	6.75	.00	99.00
Nov 2024	12/06/2024	94.03	.00	.00	.00	.04	6.93	.00	101.00
Dec 2024	01/07/2025	114.22	.00	.00	.00	-7.05	7.83	.00	115.00
Totals:		\$1,327.26	\$0.00	\$0.00	\$0.00	\$-42.60	\$94.34	\$0.00	\$1,379.00
Averages:		\$110.61	\$0.00	\$0.00	\$0.00	\$-3.55	\$7.86	\$0.00	\$114.92



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215 1st Avenue South, Suite 103

Long Prairie, MN 56347

Phone: 320-732-4420 Fax: 320-732-4803

Email: ToddPlan.Zone@Co.Todd.MN.US

Compliance Inspection Winter Agreement Form

PURPOSE:

Due to seasonal conditions, a Winter Agreement Form may be submitted to the Planning and Zoning Office in lieu of a compliance inspection for property transfers and permit application between the dates of November 15th and April 15th that ensures a compliance inspection will be **completed by June 1, 2025**.

INSTRUCTIONS:

Property transfers and the application for permits requiring compliance inspections: Prior to the property transfer or the issuance of a permit, submit the completed form, including the required signatures, to the Planning and Zoning Office for review. A **paid receipt** from a MN licensed compliance inspector **must** be included.

Reason for this Winter Agreement (mark all that apply): ☒ Building Permit Application
☐ Property Transfer

Landowner-please print

Name:	Anne Hemstock	Phone #:	[REDACTED]
Mailing Address:	21381 430 th Street, Bertha	State:	MN Zip: 56437
Site Address or PIN:	Same	State:	Zip:

Purchaser (for transfers only)-please print

Name:		Phone #:	
Mailing Address:		State:	Zip:

☒ Compliance Inspector's paid receipt is attached* **required for approval*

It is understood by all parties that the septic system(s) located on parcel # 09 -- 0009500 must have undergone a compliance inspection by June 1, 2025.

It is the responsibility of the land owner to ensure a compliance inspection is completed on the septic system(s) by a MN licensed compliance inspector by the above deadline. By signing this document all parties understand that failure to meet the deadline will be considered a violation of the Todd County Ordinance by the land owner and will be processed as such. In order for this Winter Agreement to be accepted in lieu of a compliance inspection, all portions of this form must be completed and a paid receipt included.

Landowner Signature: Anne M Hemstock DATE 2-10-2025

Purchaser Signature: _____ DATE _____

Planning and Zoning Signature: [Signature] DATE 2/10/25

HORSESHOE SEPTIC SERVICE
31525 Killdeer Drive
Browerville, MN 56438

Email:
Phone: (320) 594-2895

Invoice

Date: 2/10/2025

Invoice No: 1703

Past Due: 2/10/2025

Net: 0

Customer ID No: 1178

To: ANNE HEMSTOCK
21381 430 TH STREET
Bertha, MN 56437

Customer Phone:
Invoice Type: Service
Entered By:

Site: 21381 430 TH STREET

Invoiced Line Items	Qty	Unit Prices	Subtotals	Taxed Y/N	Taxed Amt	Line Totals
COMPLIANCE INSPECTION	1	\$300.000	\$300.000	☐	\$0.00	\$300.00
PUMPED TANK	1	\$160.000	\$160.000	☐	\$0.00	\$160.00

Qty Total	Subtotal	Taxed Total	Line Totals
2	\$460.00	\$0.00	\$460.00

Please pay balance due upon receipt of invoice. Thank You!

Total Tax:	\$0.00
Taxable Amount:	\$0.00
Non-Taxable Amount:	\$460.00
Invoice Total:	\$460.00

- Amount Received:	\$460.00
Remaining Balance:	\$0.00

Default Timeout is: 59

As of : 2/5/2025

Parcel Number: 09-0009500

Payable Year: 2024

General Info	Tax Info	Current Receipts	Special Asmts	Unpaid Tax	History	Pay by Credit Card	Current Year Tax Stmt	Previous Year Tax Stmt
------------------------------	--------------------------	----------------------------------	-------------------------------	----------------------------	-------------------------	------------------------------------	---------------------------------------	--

Taxpayer/Owner Information**Taxpayer #36839**

HEMSTOCK/ANNE M
21381 430TH STREET
BERTHA MN 56437

General

MP #09-0009500 Re/Mh: REAL ESTATE

Twp/City	School	Water	****	Debt	Agri
9	786	0		0	0
Twp/City 9 - GERMANIA					
School Dist 786 - BERTHA					

Description

Sect	Twp	Range	Lot	Block
14	132	34	0	0

NE4 NE4
40.92 ACRES - GIS

Property Address

21381 430TH ST 56437

Escrow

0

Deeded Acres: 40.92

[Another Search](#) | [Back to ParcelList](#)

201% offset

443' - L = 37' x
168.5' W = 14'

total sq. ft.
518

ANNE HEMSTOCK

21381 430TH ST, BERTHA, MN 56437

PHOTOVOLTAIC SYSTEM SPECIFICATIONS

SYSTEM SIZE:

(24) MODULES GROUND MOUNT
3.6 kW DC
9.216 kW AC

MODULE TYPE & AMOUNT:

(24) WSM4-100 (L/W/H) 3.5/41.1/3.7

MODULE DIMENSIONS:

(24) 10745-66-M-US (240V, 1 PHASE)

INTERCONNECTION METHOD:

TERMINAL BOX

GENERAL STRUCTURAL NOTES:

1. THE SOLAR PANELS ARE TO BE GROUND MOUNTED USING SUNMODO RACKING SYSTEM AND 80" GROUND MOUNT SCREWS.
2. GROUNDING: SNOW LOAD = 50 psf
3. WIND SPEED = 115 mph
4. EXPOSURE CATEGORY = B

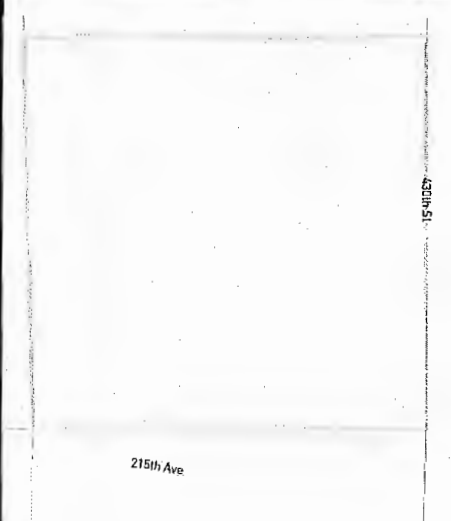
AUTHORITIES HAVING JURISDICTION

BUILDING: CITY OF BERTHA
ZONING: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC CO-OP
UTILITY METER: #152 545 255

Satellite View



Vicinity Map



GENERAL ELECTRIC NOTES:

1. ALL COMPONENTS ARE UL LISTED AND CEC CERTIFIED, WHERE WARRANTED.
2. THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2023
3. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
4. ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
5. WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10 FT.
6. HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6-7' PER NEC CODE 240.24.
7. A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH CEC 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP, GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
8. PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.
9. PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.
10. ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
11. ALL SNAGS TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SNAGS WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHI.
12. AS SPECIFIED BY THE AHI, EQUIPMENT USED IN UNGROUNDED SYSTEMS LABELED ACCORDING TO NEC 690.35(F).
13. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE LISTED FOR THIS USE [NEC 690.35(G)].
14. THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)].
15. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
16. ALL EQUIPMENT SHALL BE PROPERLY GROUNDING AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
17. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
18. PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
19. DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)].
20. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
21. WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
22. ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703
23. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC



DESIGNED BY:
WOLF RIVER
ELECTRIC
WOLF RIVER
ELECTRIC

Engineer Signature & Stamp

ANNE HEMSTOCK
21381 430TH ST
BERTHA, MN 56437
AHI: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC CO-OP

Revisions Table		
Description	Date	Rev.
VERBAGE	2/10/25	1

COVER SHEET

01/28/2025
Sheet Number
PV-0-0

NOTE :
 1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY
 2. ALL TESTING SHALL BE PERFORMED BY QUALIFIED PERSONNEL, WITH PROPER PERSONAL PROTECTIVE EQUIPMENT.
 3. 24" 7 UNDISCONNECTED KENNEL ACCESS IS TO BE PROVIDED FOR ALL UTILITY EQUIPMENT. TOGETHER IN A READY ACCESSIBLE LOCATION WITHIN 12' OF THE MAIN SERVICE METER

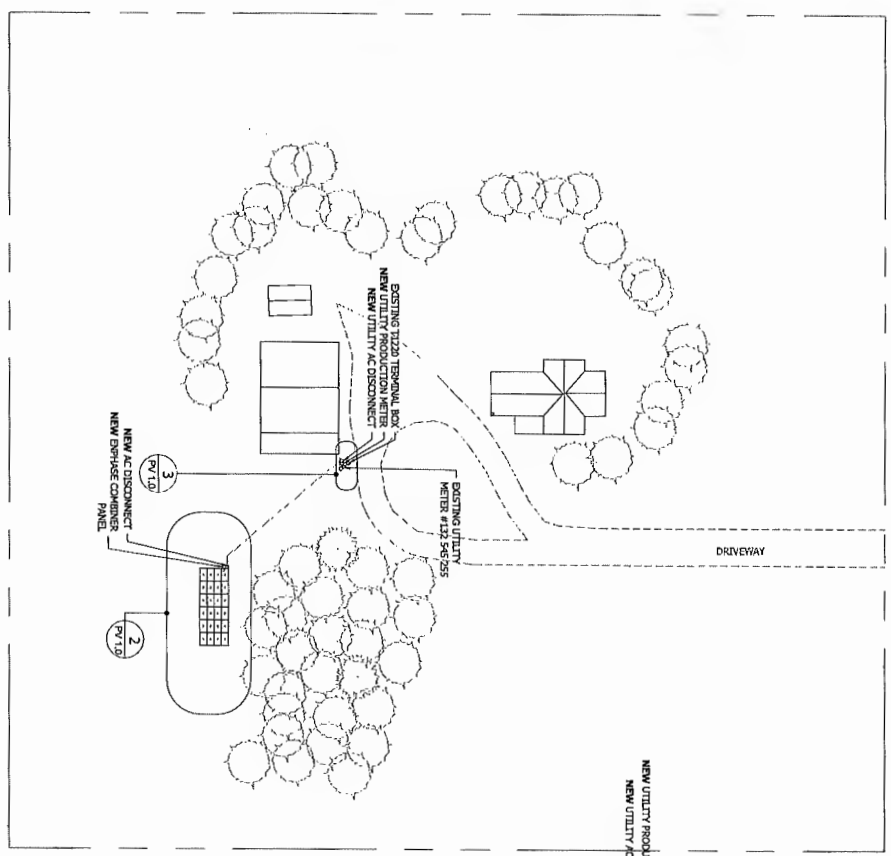
- ☐ EXISTING EXTERIOR UTILITY METER #422 245 255
- ☐ EXISTING INTERIOR MAIN SERVICE PANEL
- ☐ EXISTING T1220 TERMINAL BOX

- ☐ NEW UTILITY AC DISCONNECT SWITCH
- ☐ NEW AC DISCONNECT SWITCH
- ☐ NEW UTILITY PRODUCTION

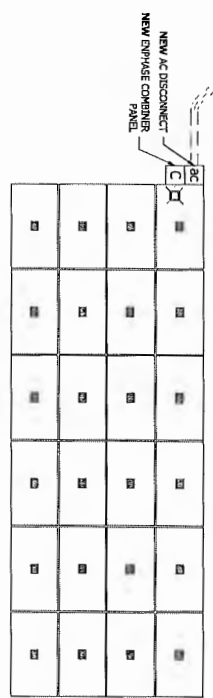
- ☐ NEW SERVICE 4 CONDENSER PANEL
- ☒ 24 NEW W80D-400
- ☒ 24 NEW 120V (240V, 1 PHASE) POULDED ON THE BACK OF EACH MODULE

— = CONDUIT
 — = CONDUIT JUNCTION BOX

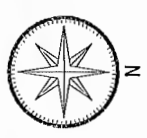
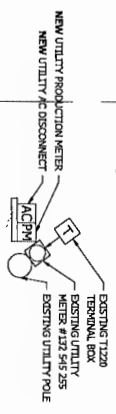
SYSTEM LEGEND



2 ENLARGED ARRAY LAYOUT
 SCALE NTS (NOT TO SCALE)



3 ENLARGED EQUIPMENT LOCATION
 SCALE NTS (NOT TO SCALE)



SYSTEM LEGEND
 LOT: 40.92 ACRES
 PARCEL: 09.0009500
 PROPERTY LINE
 DRIVEWAY

PLOT & SITE PLAN
 01/28/2025
 Sheet Number
 PV-1.0

ANNE HEMSTOCK
 21381 430TH ST
 BERTHA, MN 56437
 AHI: CITY OF BERTHA
 UTILITY: TODD-WADENA ELECTRIC SO-OP

Engineer Signature & Stamp

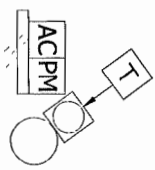
Designer Signature
George Plumb

DESIGNED BY:
WOLF RIVER ELECTRIC
 101 TRANT AVE
 SUITE 615
 BERTHA, MN 56437
 ELECTRIC LICENSE:
 B-773271
 B-773271
 B-773271



NOTE: THE MODULAR QUANTITIES OF THE PANEL SHOULD BE LISTED ON THE ATTACHMENT SHEET.

ARRAY AREA		
MODULE AREA	MODULE DIM (72.5 X 48)	24.00 SQ. FT.
AREA OF ARRAY		302.25 SQ. FT.



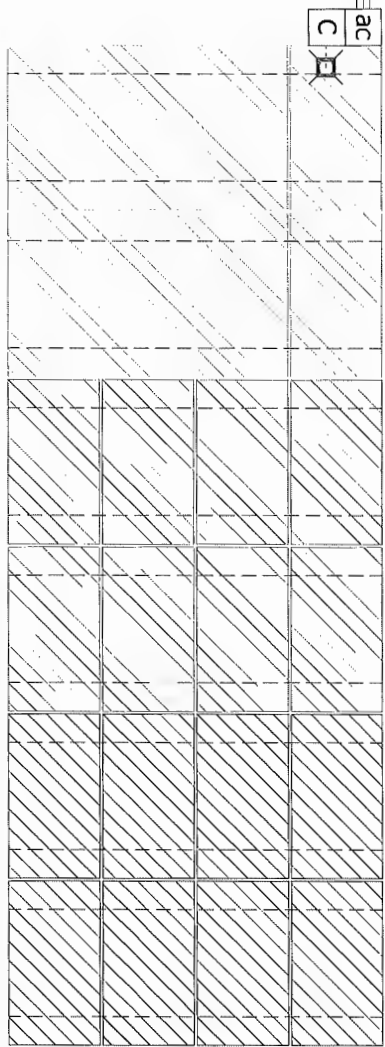
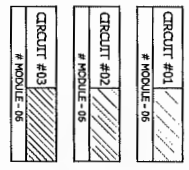
SOLAR MODULES	UNIT WEIGHT	QUANTITY
WMSD-400	22	24
INVERTER-MICROINVERTERS	WEIGHT	QUANTITY
ENOPHASE 107HS	2.4	24
INSTALLATION COMPONENTS	WEIGHT	QUANTITY
ELECTRICAL COMPONENTS	QUANTITY	
LANDSCAPE TRUNK CABLES	27	
SURGE PROTECTION	1	
CABLE SPLICES	4	
ENPHASE COMBINER 4	1	
60A DISCONNECT NEMA3 1P-3W 120/240V	1	
60A (FUSED) DISCONNECT NEMA3 1P-3W 120/240V	1	
BR-15A 2-POLE BREAKER	1	
BR-20A 2-POLE BREAKER	4	
WILLBANK 200A (METER SOCKET) (MN) (U4801XLS19)	1	
TERM CAPS	3	
SEALING CAPS	3	
U-BOX	1	
GROUNDING RODS	2	



SYSTEM LEGEND

- ATTACHMENT POINT(S) (No.)
- = BAL SYSTEM

CIRCUIT(S)



1 ATTACHMENT AND STRING LAYOUT

PV-1.1

SCALE NTS (NOT TO SCALE)

Revisions Table

Revised	Date	Rev.
VERBAGE	2/28/25	1

STRING PLAN

01/28/2025
 Anne Hemstock
 PV-1.1

ANNE HEMSTOCK
 21381 430TH ST
 BERTHA, MN 56437
 AHJ: CITY OF BERTHA
 UTILITY: TODD-WADENA ELECTRIC SO-OP

Engineer Signature & Stamp

George Hand
 Designer Signature

DESIGNED BY:
WOLF RIVERS
 ELECTRIC

NOT A POWER ELECTRICAL
 101 SOUTH PARKWAY NE
 SUITE 100, BLDG. 100-1000
 FORT COLLINS, CO 80504
 PHONE: 970.223.1122
 FAX: 970.223.1123
 WEBSITE: www.wolf-rivers.com
 LICENSE: E-0077201
 EXPIRATION: 12/31/2025



@ ARRAY



DESIGNED BY:
WOLF RIVER
ELECTRIC

Designer Signature

Engineer Signature & Stamp

ANNE HEMSTOCK
21381 430TH ST
BERTHA, MN 56437
AHJ: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC SO-OP

Revisions Table		
Modification	Date	Rev
VERBAGE	2/10/25	1

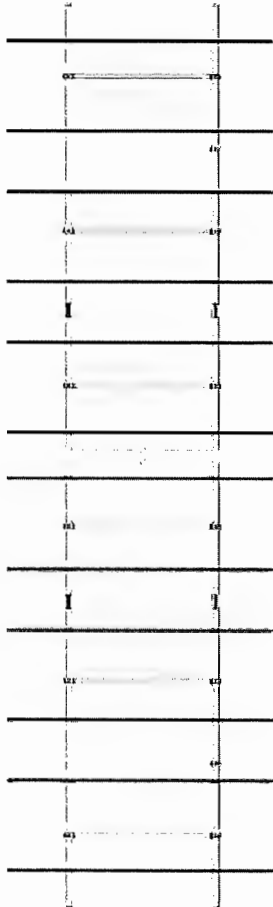
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Created Date:

01/28/2025
Sheet Number:
PV-1.2

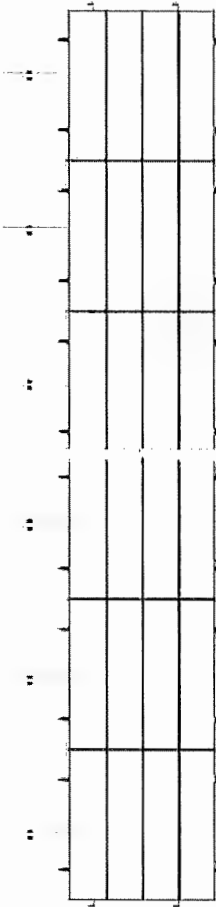
Sub Array #1 Spans

NOTE:
 1. DIMENSIONS SHOWN AT THIS SCALE MAY VARY SLIGHTLY
 2. DIMENSIONS SHOWN AT THIS SCALE MAY VARY SLIGHTLY
 3. DIMENSIONS SHOWN AT THIS SCALE MAY VARY SLIGHTLY

RAIL SPACING
 LANDSCAPE: PER MODULE MANUFACTURER



443



34 MAX
 72 IN. MAX. ALLOW. SPAN
 MIN # OF FRONT POSTS = 7
 MIN # OF BACK POSTS = 7

Surfacedo Corp.
 4000 10th Ave
 55001

2 ATTACHMENT DETAIL (ENLARGED VIEW)

SCALE: 1/8" = 1'-0"

Last edited by Catherine DiCastro on 01/28/25 11:30 AM PST

5 of 8



DESIGNED BY:
 WOLF RIVER
 ELECTRIC
 2024

ANNE HEMSTOCK
 21381 430TH ST
 BERTHA, MN 56437
 AHJ: CITY OF BERTHA
 UTILITY: TODD-WADENA ELECTRIC SO-OP

Engineer Signature & Stamp

Revision	Date	Rev.
1	21/02/25	1

DETAILS

01/28/2025
 Silver River
 D-2.0

DESIGNED BY:
WOLF RIVER
ELECTRIC

Engineer Signature & Stamp

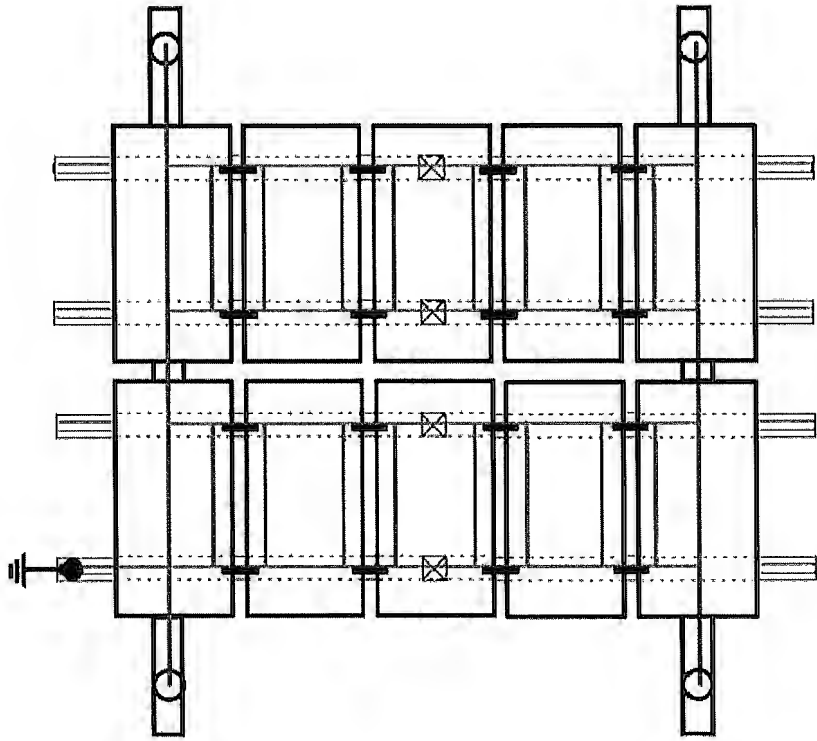
Revisions Table		
Description	Date	Rev.
VERBAGE	2/10/75	1

DETAILS

01/28/2025
Sheet Number
D-2.0A



Grounding



-  Pipe Connection
-  Mid Clamp
-  Rail Splice
-  Ground Lug
-  Pipe
-  Fault Current Path
-  Solar Panel

Note: All SunTurf metal structural components (Horizontal and Vertical Pipe, Pipe Splices, Post Caps, Pipe Clamps, Braces, Rail and Rail Splices) are electrically bonded together by design during the assembly of the racking.

Disclaimer:
The Information from this configurator is not to be used for construction unless reviewed and approved by a design professional recognized by the project's authority having jurisdiction (AHJ)

Last edited by Catherine Di Castri on 01/28/25 11:30 AM PST

8 of 8

ANNE HEMSTOCK
21381 430TH ST
BERTHA, MN 56437
AHJ: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC SO-OP

DESIGNED BY:
WOLF RIVER ELECTRIC

201 WADENA PARKWAY NE
SUITE 6100, BERTHA, MN 56437
TEL: 507/271-1111
WWW.WOLFIVERELECTRIC.COM

Revisions	Date	Rev.
VERBAGE	2/11/25	1

DETAILS

01/28/2025
Sheet Number

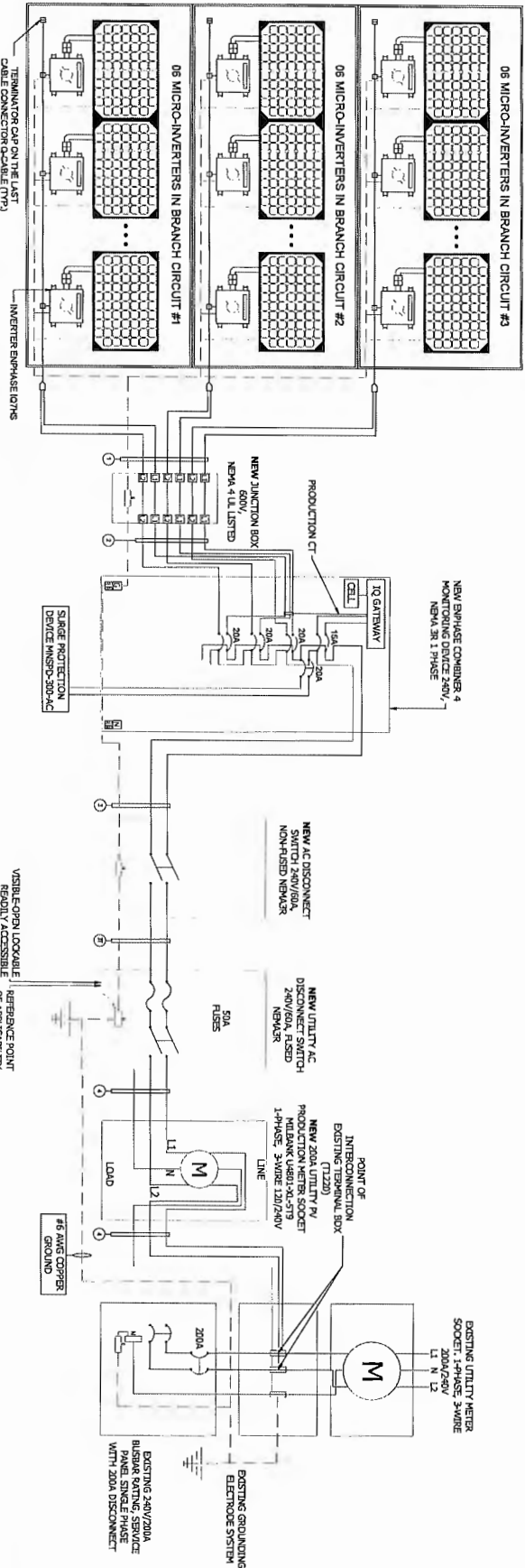
D-2.0B

WOLF RIVER ELECTRIC
201 WADENA PARKWAY NE
SUITE 6100, BERTHA, MN 56437
TEL: 507/271-1111
WWW.WOLFIVERELECTRIC.COM

NOTES :

1. THIS DRAWING IS FOR ILLUSTRATIVE PURPOSES ONLY.
2. THE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL, WITH APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.
3. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE LOCAL ELECTRICAL CODE.
4. THE PRODUCTION METERS & AC DISCONNECT SHOULD BE LOCATED TOGETHER, VISIBLE, OPEN, LOCKABLE, EASILY ACCESSIBLE LOCATION WITHIN 10' OF THE MAIN SERVICE METERS.
5. THE METERS SOCKET FOR THE PV PRODUCTION METERS SHALL BE MARKED WITH A STAMPED BRASS, ALUMINUM, OR STAINLESS STEEL TAG, INDICATING THE ADDRESS INCLUDING THE UNIT, TYPICALLY "PV PRODUCTION METERS" IN ACCORDANCE WITH THE REQUIREMENTS FOR METERS IDENTIFICATION STANDARD.
6. THE PV PRODUCTION METERS SHALL BE LOCATED WITHIN TEN (10) FEET OF THE EXISTING UTILITY METERS. IF THERE IS ANY REASON THIS CANNOT BE ACCOMPLISHED, THE APPROVAL OF THE PROPOSED PV PRODUCTION METERING WILL NEED TO BE OBTAINED BY THE LOCAL ELECTRIC METERS SHOP.

AHL: CITY OF BERTHA	
UTILITY: TODD-WADENA ELECTRIC CO-OP	
Photovoltaic System	
DC SYSTEM SIZE	9.20 kW
AC SYSTEM SIZE	9.20 kW
TOTAL MODULE COUNT	24
NOTE: AC DISCONNECT TO BE INSTALLED WITHIN 10' FT FROM UTILITY METER.	
24 BIPHASE 1075-64-HUS INVERTERS TO BE MOUNTED ON THE RAIL	
BEHIND EACH OF THE PANELS	



CONDUIT CONDUCTOR SCHEDULE

SPECIFIED CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE SPECIFIED				
TAG #	DESCRIPTION	WIRE GAUGE	# OF CONDUCTORS/COLOR	CONDUIT TYPE
1	INVERTER OUTPUT (BIPHASE 0 CABLE)	#12 AWG	6(3L, 3L2)	FREE AIR
2	EGC (BARE COPPER GROUND)	#6 AWG	1 BARE	N/A
3	INVERTER OUTPUT (THW-2)	#12 AWG	6(3L, 3L2)	PMC
4	EGC (THW-2)	#6 AWG	1(GRN)	3/4"
5	INVERTER OUTPUT (THW-2)	#10 AWG	3(1L, 1N) B/R/W	SCH 80 PVC
6	EGC (THW-2)	#4 AWG (AL)	1(GRN)	1"
7	INVERTER OUTPUT (URD)	#4 AWG (AL)	3(1L, 1N) B/R/W	NA
8	EGC (URD)	#6 AWG (AL)	1(GRN)	NA

PV MODULE RATING @ STC			
MANUFACTURER	WAVE (WIND-40)	MANUFACTURER	INVERTER SPECIFICATIONS
MAX. POWER-POINT CURRENT (MP)	10.94 AMPS	MAX. DC VOLT RATING	BIPHASE 1075-64-HUS
MAX. POWER-POINT VOLTAGE (MPV)	38.00 VOLTS	MAX. POWER AT 40 C	59 VOLTS
SHORT-CIRCUIT CURRENT (SCC)	11.32 VOLTS	NOMINAL AC VOLTAGE	240 VOLTS
MAX. SERIES FUSE (COPT)	22 AMPS	MAX. AC CURRENT	1.60 AMPS
NOM. MAX. POWER AT STC (PMAX)	405 WATTS	MAX. AC CURRENT	20 AMPS
MAX. SYSTEM VOLTAGE	1500V	MAX. PANEL CURRENT	10
VOC TEMPERATURE COEFFICIENT	-0.28%/C	SHORT CIRCUIT CURRENT	15 AMPS

ANNE HEMSTOCK

21381 430TH ST
BERTHA, MN 56437
AHL: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC CO-OP

Engineer Signature & Stamp

Designer Signature

DESIGNED BY:
WOLF RIVER ELECTRIC

WOLF RIVER ELECTRIC
101 DEAN PARKWAY NE
SUITE 200, BERTHA, MN 56437
TEL: 507-335-1111
FAX: 507-335-1112
www.wolfriverelectric.com



Revision	Date	By
1	2/10/25	1

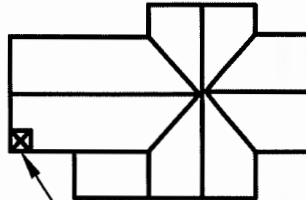
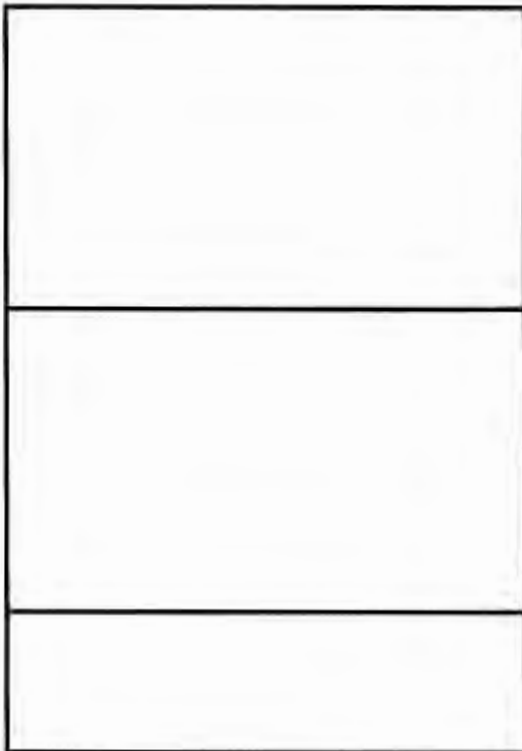
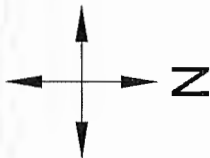
Sheet Name & Creation Date
3-LINE

01/28/2025
Sheet Number
D-2.1

CAUTION ! MULTIPLE SOURCES OF POWER

POWER TO THIS BUILDING IS ALSO SUPPLIED FROM THE FOLLOWING SOURCES WITH DISCONNECTS LOCATED AS SHOWN

Serviced by Wolf River Electric
Contact: (763) 229-6662



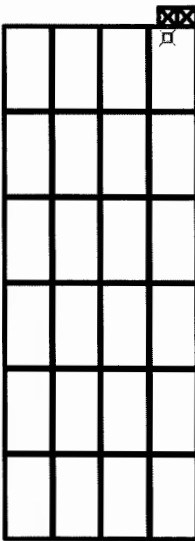
MAIN SERVICE PANEL



UTILITY MAIN METER

UTILITY PRODUCTION METER
UTILITY AC DISCONNECT

AC DISCONNECT



WOLF RIVER ELECTRIC
JIM BEATTY, MAJOR NE
SOUTH DAKOTA
ELECTRICAL LICENSE
B-577859
B-577859
Contact (763) 229-6662
www.wolfriverelectric.com

DESIGNED BY:
WOLF RIVER
ELECTRIC

Designer Signature
Elmer Mundt

PLACARD STICKER
TO BE INSTALLED
@ MAIN SERVICE
METER.

PLACARD LOCATION

ANNE HEMSTOCK
21381 430TH ST
BERTHA, MN 56437
AHL: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC SO-OP

Revisions Table

Description	Date	Rev.
VERBADE	2/10/25	1

Scale: 1/8" = 1'-0"

PLACARD SHEET

01/28/2025
Sheet Number
D-2.2

⚠ WARNING

ELECTRICAL SHOCK HAZARD

TERMINALS ON THE LINE AND
LOAD SIDES MAY BE ENERGIZED
IN THE OPEN POSITION

LABEL LOCATION: COMBINER PANEL, AC
DISCONNECT, POINT OF INTERCONNECTION
PER CODE: NEC 706.15(C)(4), NEC 690.13(B)

⚠ WARNING

TURN OFF PHOTOVOLTAIC AC
DISCONNECT FOR TO
WORKING INSIDE PANEL

LABEL LOCATION: COMBINER PANEL(S), MAIN SERVICE DISCONNECT
PER CODE: NEC 110.27(C), OSHA 1910.145(f)(7)

PHOTOVOLTAIC POWER SOURCE

LABEL LOCATION: DC CONDUIT/RACEWAYS
PER CODE: NEC 690.31(D)(2)

PHOTOVOLTAIC SYSTEM AC DISCONNECT
RATED AC OUTPUT CURRENT: 38.4A
NOMINAL OPERATING AC VOLTAGE: 240 V

LABEL LOCATION: AC DISCONNECT/POINT OF INTERCONNECTION
PER CODE: NEC 690.54

PHOTOVOLTAIC

UTILITY

AC DISCONNECT

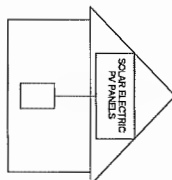
LABEL LOCATION: AC DISCONNECT
PER CODE: NEC 690.13(B)

**⚠ WARNING: DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM**

LABEL LOCATION: MAIN SERVICE DISCONNECT, PRODUCTION/METER
PER CODE: NEC 690.56, 705.12(C)

**SOLAR PV SYSTEM EQUIPPED
WITH RAPID SHUTDOWN**

TURN RAPID SHUTDOWN
SWITCH TO THE
"OFF" POSITION TO
SHUT DOWN PV SYSTEM
AND REDUCE
SHOCK HAZARD
IN THE ARRAY



LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 690.56(C)

**MAIN PHOTOVOLTAIC
SYSTEM DISCONNECT**

LABEL LOCATION: MAIN SERVICE DISCONNECT, UTILITY METER
PER CODE: NEC 690.13(B)

**RAPID SHUTDOWN FOR
SOLAR PV SYSTEM**

LABEL LOCATION: RSD INITIATION DEVICE, AC DISCONNECT
PER CODE: NEC 690.56(C)(2)

**DO NOT DISCONNECT
UNDER LOAD**

LABEL LOCATION: MAIN SERVICE DISCONNECT
PER CODE: NEC 690.15(B) & NEC 690.33(D)(2)



WOLFE RIVER ELECTRIC
JULIE DEWITT, PROJECT MANAGER
SOLAR PV SYSTEMS
ELECTRICAL LICENSE:
E677669
BUILT 7/2023
Contact: (703) 254-4444
info@wolferiverelectric.com

DESIGNED BY:
WOLFE RIVER
ELECTRIC

Engineer Signature & Stamp

ANNE HEMSTOCK

21381 430TH ST
BERTHA, MN 56437
A/E: CITY OF BERTHA
UTILITY: TODD-WADENA ELECTRIC SO-OP

Revisions Table

Description	Date	Rev.
VERSION	7/10/25	1

Start Issues &
Creation Date

**WARNING
SHEET**

01/28/2025
Sheet Number

D-2.3



101 ISANTI PARKWAY #
SUITE G ISANTI, MN 55
ELECTRICAL LICENSE
PA777065
Building License :
BC725073
COUNCIL (763) 226-4422
LTD. 101 Isanti Parkway #G

DESIGNED BY

- WOLF RIVER
ELECTRIC

- ☐ Is a rapid shutdown required and if so, how is it accomplished and identified? 690.12 & 690.56(C)
- ☐ Are the PV disconnect permanently marked and installed in a readily accessible location? 690.13
- ☐ Are the isolating devices or equipment disconnecting means installed in circuits connected to equipment at a location within the equipment, or within sight and 10 feet of the equipment? (Where the maximum circuit current is greater than 30 amperes an equipment disconnecting means shall be provided for isolation.) 690.15
- ☐ Has the fuse disconnecting means, if required, been installed? 690.15 and 240.40
- ☐ Are PV source or output circuits > 30 volts in a raceway or guarded if readily accessible? 690.31
- ☐ Is single conductor cable used outdoors sunlight resistant Type USE-2, Type RHM-2, or listed & labeled PV wire, and properly support and secured? 690.31(C)

—

- ☐ Has a plaque or directory been installed at each disconnecting means (capable of interconnection) denoting all electric power sources & power production sources? 705.10
- ☐ Has the point of connection to other sources been installed per 705.11 or 705.12?
- ☐ Are the utility interactive inverters connected to the system through a dedicated circuit breaker or fusible disconnecting means? 705.12
- ☐ Does the bus or conductor ampacity comply with 705.12?
- ☐ Have all the required labels been applied? (See label list.)

443 Lafayette Road N., St. Paul, MN 55155 • (651) 284-5005 • www.dli.mn.gov

SPEC SHEET

11/28/2025
 Smart Nutrition

S-3.7

MIDNITE SOLAR INC.

Surge Protection

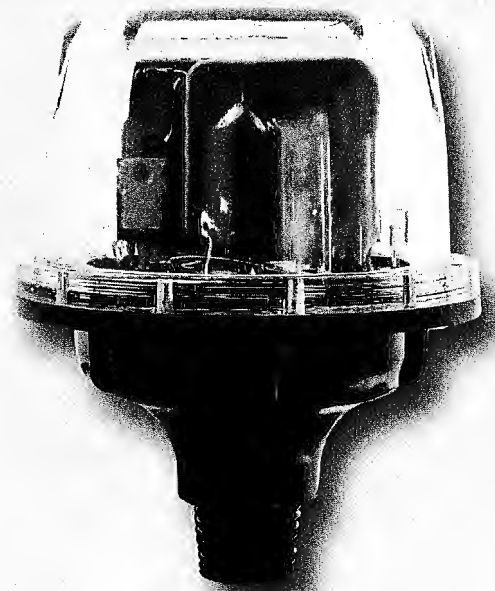
Surge Protection You Can Count On!

MidNite Solar Surge Protection Devices are type 1 devices, designed for indoor and outdoor applications. Engineered for both AC and PV DC electrical systems, they provide protection to service panels, load centers or electronic devices that are directly connected to a MidNite Surge Protection Device (SPD).

MidNite's SPD's are offered in four models to protect a variety of different voltage ranges. They achieve this protection by clamping surge voltage to a level that your system can sustain without damaging the components of the system.

Compare our SPD's against other surge protection devices. You will see there is no comparison in both our price and features. All our SPD's have a 5 year warranty.

With lightning you only get one chance, so get the best!



MNSPD300ACFM (Cut-in box)
(MNSPD-300-AC included)



Four Models:

**MNSPD-115
MNSPD-300-AC
MNSPD-300-DC
MNSPD-600**



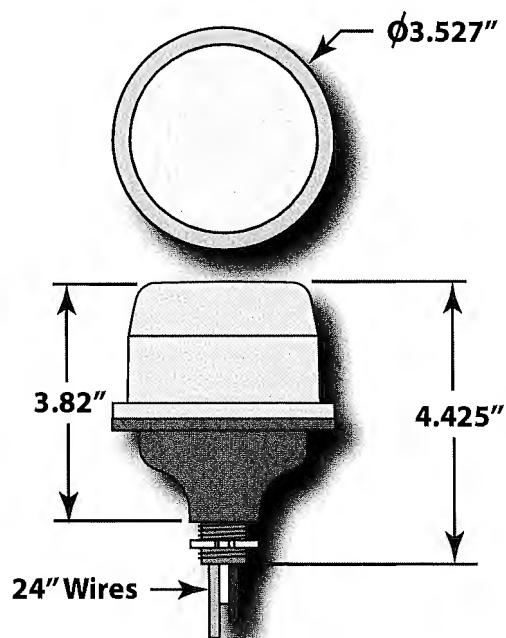
www.midnitesolar.com/spd

19115 - 62nd Ave. NE., Arlington, WA. 360-403-7207 FAX: 360-691-6862



MidNite Surge Protection Devices

PART NUMBER	MNSPD-115	MNSPD-300-AC	MNSPD-300-DC	MNSPD-600
Nominal Voltage	0 to 90 VAC 0 to 115 VDC	0 to 250 VAC	0 to 300 VDC	0 to 480 VAC 0 to 600 VDC
MCOV	180V	470V	470V	780V
VPR Line to Ground	600V	1200V	1200V	1800V
Suggested Placement	Up to 90VAC circuits, 12V, 24V, 48VDC battery circuits	120/240 VAC circuits	Off-grid PV combiners Charge controller inputs up to 300VDC	316V/480 VAC circuits Grid-tie PV combiners Grid-tie inverter input Non-Isolated Inverters
Type	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1	UL1449 4th Ed. Type 1
Diagnostic Blue LED	MNSPD-300-AC LED indicates when voltage is present between L1 + ground and L2 + ground MNSPD-115, MNSPD-300-DC and MNSPD-600: LED indicates when voltage is present between L1 + L2 (PV+ PV-)			
Thermal Disconnect	Internal Fuse			
Response Time	<1 micro sec.			



Performance

Surge Current Rating per Phase	80kA
Short Circuit Current Rating	10kA

Fusing	Individually fused MOVs
Thermal Fusing	Yes
Over current Fusing	Yes
Operating Frequency	0 to 500 Hz

Mechanical Description

Enclosure	Polycarbonate UL94V-0
Environmental Rating	Type 4X
Connection Method	#12 AWG
Weight	1 lb.
Mounting Method	1/2" Conduit Knockout
Operating Altitude	Sea Level - 12,000' (3,658 Meters)
Storage Temp	-40° F to +185° F (-40° C to +85° C)
Operating Temp	-40° F to +185° F (-40° C to +85° C)

Diagnostics

Blue status LED, one per leg

Listings and Performance

UL Standard for Safety, UL 1449 Surge Protective Devices-Fourth Edition
CSA C22.2 No. 8-M1986 Electromagnetic Interference (EMI) Filters, Fourth Edition

Model No.	Max Operating Voltage	Surge Current per Phase	Configuration	MCOV	SCCR	VPR 600V/3kA L G
MNSPD-115	100 VAC/150VDC	80kA	1 Ø, 3-wire (2 Legs)	180V L-N	10kA	600V
MNSPD-300-AC	300VAC	80kA	1 Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-300-DC	385VDC	80kA	1 Ø, 3-wire (2 Legs)	470V L-N	10kA	1200V
MNSPD-600	480VAC/600VDC	80kA	1 Ø, 3-wire (2 Legs)	780V L-N	10kA	1800V

www.midnitesolar.com/spd

19115 - 62nd Ave NE, Arlington, WA 98223 PH. 360-403-7207 FAX 360-691-6862

ARKA SERIES

WSMDi-395 to WSMDi-415

WAAREE®

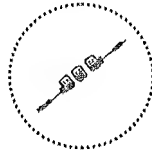
One with the Sun



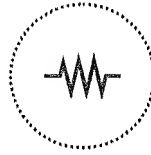
Highest reliability & enhanced crack tolerant 9BB module



Better performance under all climatic conditions



Split junction box



Reduced power losses up to 1/4 times



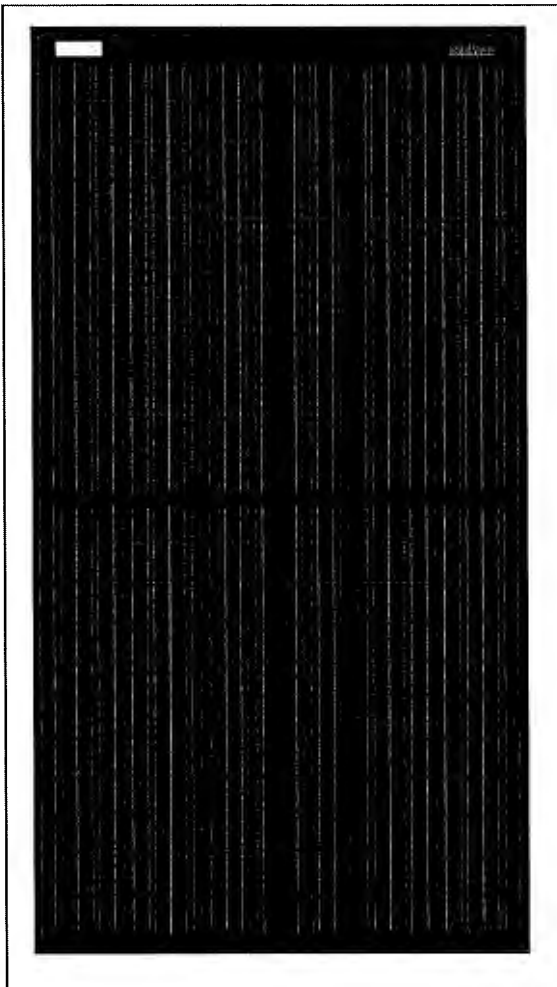
PID resistant with long term reliability



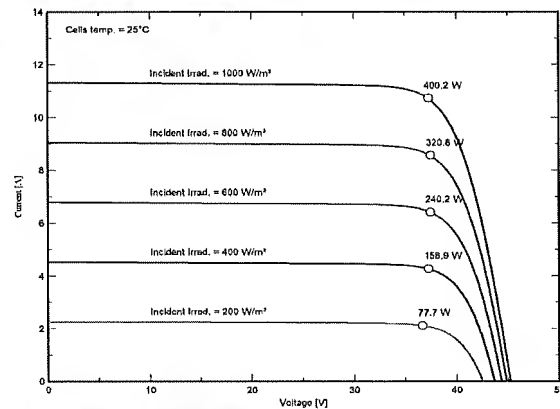
Sustain heavy wind & snow loads (2400 pa & 5400 pa)



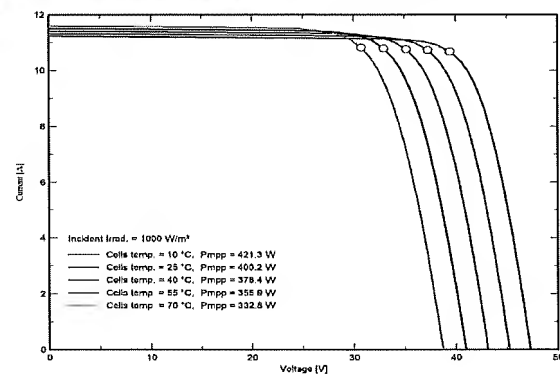
M6 Mono PERC cells



I-V VARIATION WITH IRRADIANCE



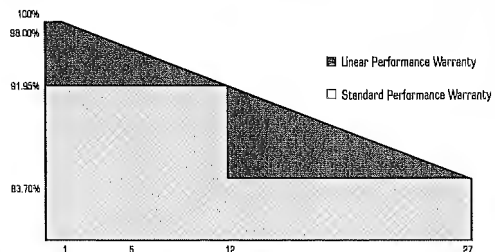
I-V VARIATION WITH TEMPERATURE



The Graphs are for reference purpose only. Please consult Waaree technical team for further clarifications.

INTERNATIONAL & NATIONAL CERTIFICATIONS ^

IEC 61215 | IEC 61730 | UL61730
IEC TS 62804-1



ISO 9001:2015 | ISO 14001:2015 | ISO 45001:2018

Independent assessment of factories by BLACK & VEATCH

ARKA SERIES

WSMDi-395 to WSMDi-415

WAAREE®

One with the Sun

ELECTRICAL CHARACTERISTICS

Models	Pmax (W)		Vmp (V)		Imp (A)		Isc (A)		Voc (V)		Module Eff. (%)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
WSMD-395	395	296.8	37.77	34.70	10.47	8.55	11.24	9.08	45.00	42.10	19.78
WSMD-400	400	300.6	38.00	34.90	10.54	8.62	11.32	9.14	45.22	42.30	20.03
WSMD-405	405	304.4	38.22	35.10	10.61	8.68	11.40	9.21	45.44	42.50	20.28
WSMD-410	410	308.2	38.44	35.30	10.68	8.74	11.48	9.27	45.66	42.70	20.53
WSMD-415	415	312.1	38.66	35.40	10.75	8.81	11.57	9.34	45.88	42.90	20.78

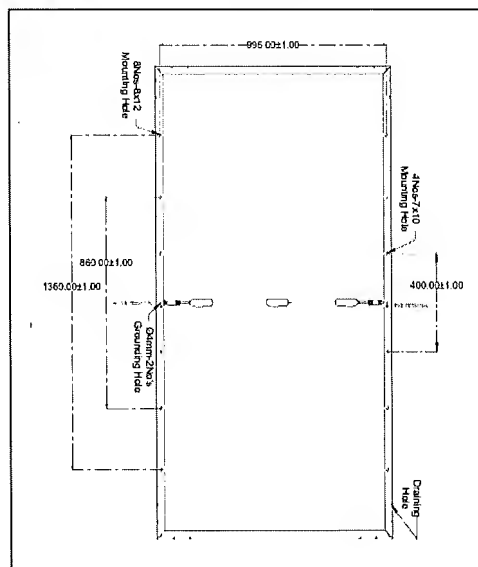
*Standard Test Conditions (STC) - 1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature, Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s. Average power reduction of 4.5% at 200 W/m² as per IEC 60904-1. Measuring Uncertainty ± 3%.

System Voltage	1500 V	Series Fuse Rating	22 A
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MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	1924 mm (L) x 1038 mm (W) x 35 mm (T)
Weight	22 kgs
Solar Cells per Module (Units) / Arrangement	132 cells / (11x6 11x6)
Solar Cell Type & Size	Mono PERC, 83 x 166 mm
Front Glass	3.2 mm Low Iron and Tempered glass with ARC coating
Encapsulate	PI0 Free & UV Resistant
Junction Box (Protection degree/ Material)	IP68 / Weatherproof PPO
Cable & Connector (Protection degree / Type)	IP68 rated / Staubli MC4 Connector
Cable cross - section & Length	4 mm ² & 1200mm
Frame	Anodized Aluminium Alloy, Anodization thickness ≥ 15 micron
Fire rating	Type 2

DESIGN SPECIFICATIONS



THERMAL CHARACTERISTICS

Temperature coefficient of Current (Isc), α (%/°C)	0.055
Temperature coefficient of Voltage (Voc), β (%/°C)	-0.285
Temperature coefficient of Power (Pm), γ (%/°C)	-0.365
NOCT (°C)	43 ± 2
Operating temperature range (°C)	-40 to 85

Waaree Energies Ltd. is amongst the top Solar Energy Companies and has the country's largest Solar PV Module manufacturing capacity of 5 GW. In addition, it is committed to provide top notch EPC services, project development, rooftop solutions, solar water pumps and also in an Independent Power Producer. Waaree has its presence in over 325+ locations nationally and 68 countries globally.

*If you need specific product certificates, and if module installations are to deviate from our guidance specified in our installation manual, please contact your local Waaree sales and technical representatives.

12 Years Product Warranty • 27 Years Power Output Warranty

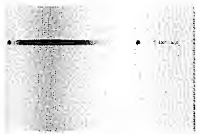
- The electrical data given here is for reference purpose only.
- Please confirm your exact requirements with the sales representative while placing your order.
- Refer installation Manual instructions & Waaree warranty statement for terms & conditions.
- Waaree Reserves the right to change the specifications without prior notice.

www.waaree.com



IQ7HS Microinverter

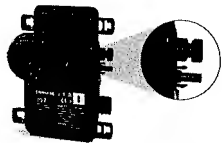
The high-powered, smart grid-ready IQ7HS Microinverter with integrated MC4 connectors dramatically simplifies installation while achieving the highest system efficiency.



Part of the Enphase Energy System, the IQ7HS Microinverters integrate with the IQ Gateway, IQ Battery, and the Enphase Installer App monitoring and analysis software.



IQ7HS Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing, enabling Enphase to provide an industry-leading warranty of up to 25 years.



Connect PV modules quickly and easily to the IQ7HS Microinverters that have integrated MC4 connectors.



IQ7HS Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014, 2017, 2020, and 2023)

Productive and reliable

- Optimized for high powered 60-cell/120-half-cut-cell, 66-cell/132-half-cut-cell, and 72-cell/144-half-cut-cell PV modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL Listed

Smart grid-ready

- Complies with advanced grid support, voltage, and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB, 3rd Ed.) for single-phase systems

IQ7HS Microinverter

INPUT DATA (DC)		UNITS	IQ7HS-66-M-US
Commonly used module pairings ¹		W	320–460
Module compatibility	—		60-cell/120-half-cut-cell, 66-cell/132-half-cut-cell, and 72-cell/144-half-cut-cell PV modules
Maximum input DC voltage		V	59
Peak power tracking voltage		V	38–43
Operating range		V	20–59
Minimum/Maximum start voltage		V	30/59
Maximum input DC short-circuit current		A	25
Maximum module I_{sc}		A	20
Overvoltage class DC port		—	II
DC port back-feed current		A	0
PV array configuration	—		1 × 1 ungrounded array; no additional DC side protection required; AC side protection requires max. 20 A per branch circuit
OUTPUT DATA (AC)			
Peak output power		VA	384 @ 240 VAC, 369 @ 208 VAC
Maximum continuous output power		VA	384 @ 240 VAC, 369 @ 208 VAC
Nominal (L–L) voltage/Range ²		V	240/211–264, 208/183–229
Maximum continuous output current		—	1.60 A (240 V), 1.77 A (208 V)
Nominal frequency		Hz	60
Extended frequency range		Hz	47–68
AC short-circuit fault current over three cycles		Arms	4.82
Maximum units per 20 A (L–L) branch circuit ³		—	10 (240 VAC), 9 (208 VAC)
Overvoltage class AC port		—	III
AC port back-feed current		mA	18
Power factor setting		—	1.0
Power factor (adjustable)		—	0.85 leading ... 0.85 lagging
EFFICIENCY			
CEC weighted efficiency		%	97.0 @ 240 V, 96.5 @ 208 V
MECHANICAL DATA			
Ambient temperature range		°C (°F)	–40 to 60 (–40 to 140)
Relative humidity range		%	4 to 100 (condensing)
DC connector type		—	Stäubli MC4
Dimensions (H × W × D)		mm (in)	212 (8.3) × 175 (6.9) × 30.2 (1.2) without bracket
Weight		kg (lb)	1.1 (2.4)
Cooling		—	Natural convection—no fans
Approved for wet locations		—	Yes
Pollution degree		—	PD3

¹ Pairing PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at enphase.com/installers/microinverters/calculator.

² Nominal voltage range can be extended beyond nominal if required by the utility.

³ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

MECHANICAL DATA

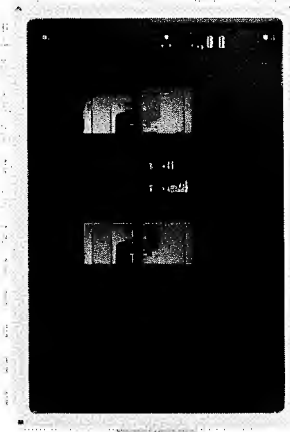
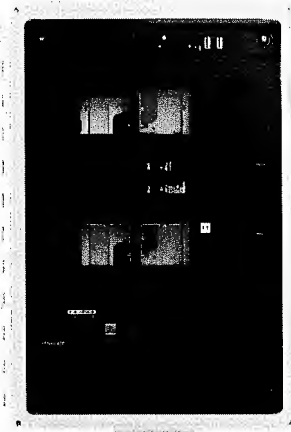
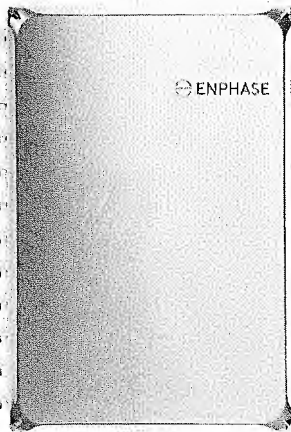
Enclosure	—	Class II double-insulated, corrosion-resistant polymeric enclosure
Environmental category/UV exposure rating	—	NEMA type 6/Outdoor

FEATURES

Communication	Power line communication (PLC)
Monitoring	Enphase Installer App and monitoring options Compatible with IQ Gateway
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect means required by NEC 690 and C22.1-2018 Rule 64-220. CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB 3 rd Ed.) for single-phase systems HEI Rule 14H SRD 2.0 UL 62109-1, FCC Part 15 Class B, ICES-0003 Class B
Compliance	CAN/CSA-C22.2 NO. 107.1-01 This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV systems for AC and DC conductors, when installed according to manufacturer's instructions.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00562-1.0	August 2024	Initial release.



X-IQ-AM1-240-4
X2-IQ-AM1-240-4
(IEEE 1547:2018)
X-IQ-AM1-240-4C
X2-IQ-AM1-240-4C
(IEEE 1547:2018)

IQ Combiner 4/4C

The Enphase IQ Combiner 4/4C with IQ Gateway and integrated LTE-M1 cell modem (included only with IQ Combiner 4C) consolidates interconnection equipment into a single enclosure and streamlines IQ Microinverters and storage installations by providing a consistent, pre-wired solution for residential applications. It offers up to four 2-pole input circuits and an Eaton BR series busbar assembly.



IQ Series Microinverters
The high-powered smart grid-ready IQ Series Microinverters (IQ6, IQ7, and IQ8 Series) dramatically simplify the installation process.



IQ System Controller 2
Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.



IQ Battery
All-in-one AC coupled storage system that is reliable, smart, simple, and safe. It provides backup capability, and installers can quickly design the right system size to meet the needs of both new and retrofit solar customers.



IQ Load Controller
Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life.

Smart

- Includes IQ Gateway for communication and control
- Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), included only with IQ Combiner 4C
- Includes solar shield to match IQ Battery aesthetics and deflect heat
- Flexible networking supports Wi-Fi, Ethernet, or cellular
- Optional AC receptacle available for PLC bridge
- Provides production metering and consumption monitoring

Simple

- Centered mounting brackets support single stud mounting
- Supports bottom, back and side conduit entry
- Up to four 2-pole branch circuits for 240 VAC plug-in breakers (not included)
- 80 A total PV or storage branch circuits

Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year limited warranty
- Two-years labor reimbursement program coverage included for both the IQ Combiner SKU's
- UL Listed
- X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C comply with IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)



5-year limited warranty



*Refer to the <https://enphase.com/installers/resources/warranty> page for country-specific warranty information.

IQ Combiner 4/4C

MODEL NUMBER	UNITS	DESCRIPTION
IQ Combiner 4 (X-IQ-AM1-240-4, X2-IQ-AM1-240-4)	—	IQ Combiner 4 with an IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 $\pm 0.5\%$) and consumption monitoring ($\pm 2.5\%$). Includes a silver solar shield to match the IQ Battery and IQ System Controller 2 and to deflect heat.
IQ Combiner 4C (X-IQ-AM1-240-4C, X2-IQ-AM1-240-4C)	—	IQ Combiner 4C with an IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 $\pm 0.5\%$) and consumption monitoring ($\pm 2.5\%$). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05), a plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area). Includes a silver solar shield to match the IQ Battery and IQ System Controller 2 and to deflect heat.
WHAT'S IN THE BOX	UNITS	
IQ Gateway printed circuit board	—	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance, and management of the Enphase Energy System.
Busbar	—	80 A busbar with support for one IQ Gateway breaker and four 20 A breakers for installing IQ Series Microinverters and IQ Battery
IQ Gateway breaker	A	Circuit breaker, 2-pole, 10/15
Production CT	—	Pre-wired revenue-grade solid-core CT, accurate up to $\pm 0.5\%$
Consumption CT	—	Two consumption metering split core or clamp-type CTs, shipped with the box, accurate up to $\pm 2.5\%$
Enphase Mobile Connect (only with IQ Combiner 4C)	—	4G-based LTE-M1 cellular modem (CELLMODEM-M1-06-SP-05) with a five-year T-Mobile data plan
MICROINVERTERS, ACCESSORIES AND REPLACEMENT PARTS (not included; order separately)	UNITS	
Supported microinverters	—	IQ6, IQ7, and IQ8. Do not mix IQ6/IQ7 Microinverters with IQ8
Enphase Communications Kit COMMS-CELLMODEM-M1-06	—	- Includes COMMS-KIT-01 and CELLMODEM-M1-06-SP-05 with a 5-year T-Mobile data plan for Enphase sites
CELLMODEM-M1-06-SP-05	—	- 4G-based LTE-M1 cellular modem with a five-year T-Mobile data plan
CELLMODEM-M1-06-AT-05	—	- 4G-based LTE-M1 cellular modem with a five-year AT&T data plan
Circuit breakers (off-the-shelf)	—	Supports Eaton BR2xx, Siemens Q2xx and GE/ABB THQL21xx Series breakers (xx may be 10, 15, 20, 30, 40, 50, or 60). Supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with hold-down kit.
Circuit breakers (provided by Enphase)	—	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B
XA-SOLARSHIELD-ES	—	Replacement solar shield for IQ Combiner 4/4C
XA-ENV2-PCBA-4	—	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 4/4C
XA-PLUG-120-3	—	Accessory receptacle for power line carrier in IQ Combiner 4/4C (required for EPLC-01)
X-IQ-NA-HD-125A	—	Hold-down kit for Eaton circuit breaker with screws
ELECTRICAL SPECIFICATIONS	UNITS	
Rating	A	80
System voltage and frequency	—	120/240 VAC, 120/208 VAC, 60 Hz
Busbar rating	A	125
Fault current rating	KAIC	10
Maximum continuous current rating (input from PV/storage)	A	64
Maximum fuse/Circuit rating (output)	A	90
Branch circuits (solar and storage)	—	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	A	80 A of distributed generation/95 A with IQ Gateway breaker included

To learn more about Enphase offerings, visit enphase.com.

IQC-4-4C-DSH-00217-3.0-EN-US-2024-08-16

ELECTRICAL SPECIFICATIONS	UNITS	
IQ Gateway breaker	A	10 A or 15 A rating GE/Siemens/Eaton Included
Production metering CT	A	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-SPLIT/CT-200-CLAMP)	A	A pair of 200 A split core or clamp-type current transformers

MECHANICAL DATA	UNITS	DESCRIPTION
Dimensions (W × H × D)	cm (in)	37.5 × 49.5 × 16.8 (14.75 × 19.5 × 6.63). Height is 53.5 (21.06) with mounting brackets
Weight	kg (lb)	7.5 (16.5)
Ambient temperature range	°C (°F)	-40 to 46 (-40 to 115)
Cooling	—	Natural convection plus a heat shield
Enclosure environmental rating	—	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	—	• 20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors • 60 A breaker branch input: 4 to 1/0 AWG copper conductors • Main lug combined output: 10 to 2/0 AWG copper conductors • Neutral and ground: 14 to 1/0 copper conductors Always follow local code requirements for conductor sizing
Altitude	m (ft)	Up to 2,600 (8,530)

COMMUNICATION INTERFACES	UNITS	DESCRIPTION
Integrated Wi-Fi	—	802.11b/g/n (dual band 2.4 GHz/5 GHz) for connecting the Enphase Cloud through the internet
Wi-Fi range (recommended)	m (ft)	10 (32.8)
Ethernet	—	Optional 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included) for connecting to the Enphase Cloud through the internet
Digital I/O	—	Digital input/output for grid operator control
USB 2.0	—	For Mobile Connect, Communications Kit 1 for IQ Battery 3/3T/10/10T, Communication Kit 2 for IQ Battery 5P
Access point (AP) mode	—	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	—	Up to two Consumption CTs, one IQ Battery CT, and one Production CT
Power line communication	kHz	90–110
Web API	—	See https://developer-v4.enphase.com
Local API	—	See Guide for local API
Cellular/Mobile Connect	—	CELLMODEM-M1-06-SP-05, CELLMODEM-M1-06-AT-05 (4G-based LTE-M1 cellular modem). Note that an Enphase Mobile Connect cellular modem is required for all installations with Enphase IQ Batteries and/or IQ System Controllers

COMPLIANCE	
IQ Combiner with IQ Gateway	CA Rule 21 (UL 1741-SA) IEEE 1547:2018 - UL 1741-SB, 3rd Ed. (X2-IQ-AM1-240-4 and X2-IQ-AM1-240-4C) CAN/CSA C22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003, NOM-208-SCFI-2016 Production metering: ANSI C12.20 accuracy class 0.5 (PV production), UL 61010-1, CAN/CSA 22.2 No. 61010-1, IEEE 2030.5/CSIP Compliant

COMPATIBILITY		
PV	Microinverters	IQ6, IQ7, and IQ8 Series Microinverters
	IQ System Controller	EP200G101-M240US00
COMMS-KIT-01	IQ System Controller 2	EP200G101-M240US01
	IQ Battery	ENCHARGE-3-1P-NA, ENCHARGE-10-1P-NA, ENCHARGE-3T-1P-NA, ENCHARGE-10T-1P-NA
COMMS-KIT-02 ¹	IQ System Controller 3	SC200D111C240US01, SC200G111C240US01
	IQ Battery	IQBATTERY-5P-1P-NA

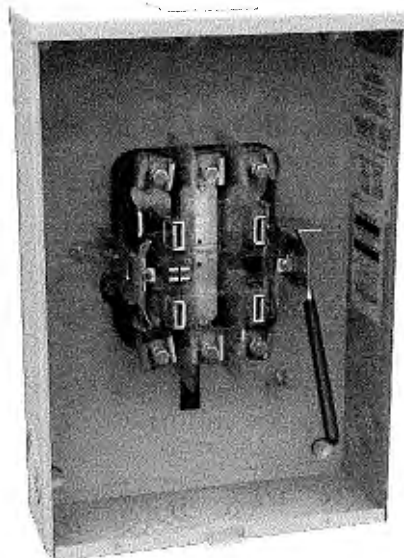
¹ For information about IQ Combiner 4/4C compatibility with the 3rd-generation batteries, refer to the [compatibility matrix](#).

Revision history

REVISION	DATE	DESCRIPTION
DSH-00217-3.0	August 2024	Updated the system voltage value. Updated Sprint plan to T-Mobile data plan.
DSH-00217-2.0	April 2024	Updated the UL smart mark.
DSH-00217-1.0	February 2024	Initial release.
Previous releases.		



U4801-XL-5T9



Catalog Number	U4801-XL-5T9
Marketing Product Description	5 Terminal Ringless Small Closing Plate Lever Bypass 5th Terminal 9 O'clock Position
UPC	784572288218
Length (IN)	4.844
Width (IN)	13
Height (IN)	19
Brand Name	Milbank
Type	Ringless Meter Socket
Application	Meter Socket
Standard	UL Listed; Type 3R
Voltage Rating	600 Volts Alternating Current
Amperage Rating	200 Continuous Ampere
Phase	1 Phase
Frequency Rating	60 Hertz
Size	4.844L x 13W x 19H
Number Of Cutouts	0
Cutout Size	No Main Breaker
Cable Entry	Overhead or Underground
Terminal	Lay in
Insulation	Glass Polyester
Mounting	Surface Mount

Enclosure	G90 Galvanized Steel with Powder Coat Finish
Jaw Quantity	5 Terminal
Bypass Type	Lever Bypass
Number of Meter Positions	1 Position
Equipment Ground	Bonded Ground Strap
Hub Opening	Small Closing Plate
Line Side Wire Range	6 AWG - 350 kcmil
Load Side Wire Range	6 AWG - 350 kcmil
Number Of Receptacles	0

Please consult serving utility for their requirements prior to ordering or installing, as specifications and approvals vary by utility and may require local electrical inspector approval. All installations must be installed by a licensed electrician and must comply with all national and local codes, laws and regulations. Milbank reserves the right to make changes in specifications and features shown without notice or obligation.

Anne Hemstock

7BC891

Ground Mount - SunTurf System



Project Details

Project Name	Anne Hemstock	Zip Code:	56437
ASCE	7-16	City, State	Bertha, MN
Total Watts	10 kW	Date	01/28/25
Total Modules	24		
Module Dimensions	Height: 1,866.9 mm, Width: 1,041.4 mm, Depth: 35.0 mm (73.5" x 41" x 1.38")		

Load Assumptions

Wind Speed	115 mph
Wind Exposure	C
Ground Snow Load	60 psf

Structure & Foundation

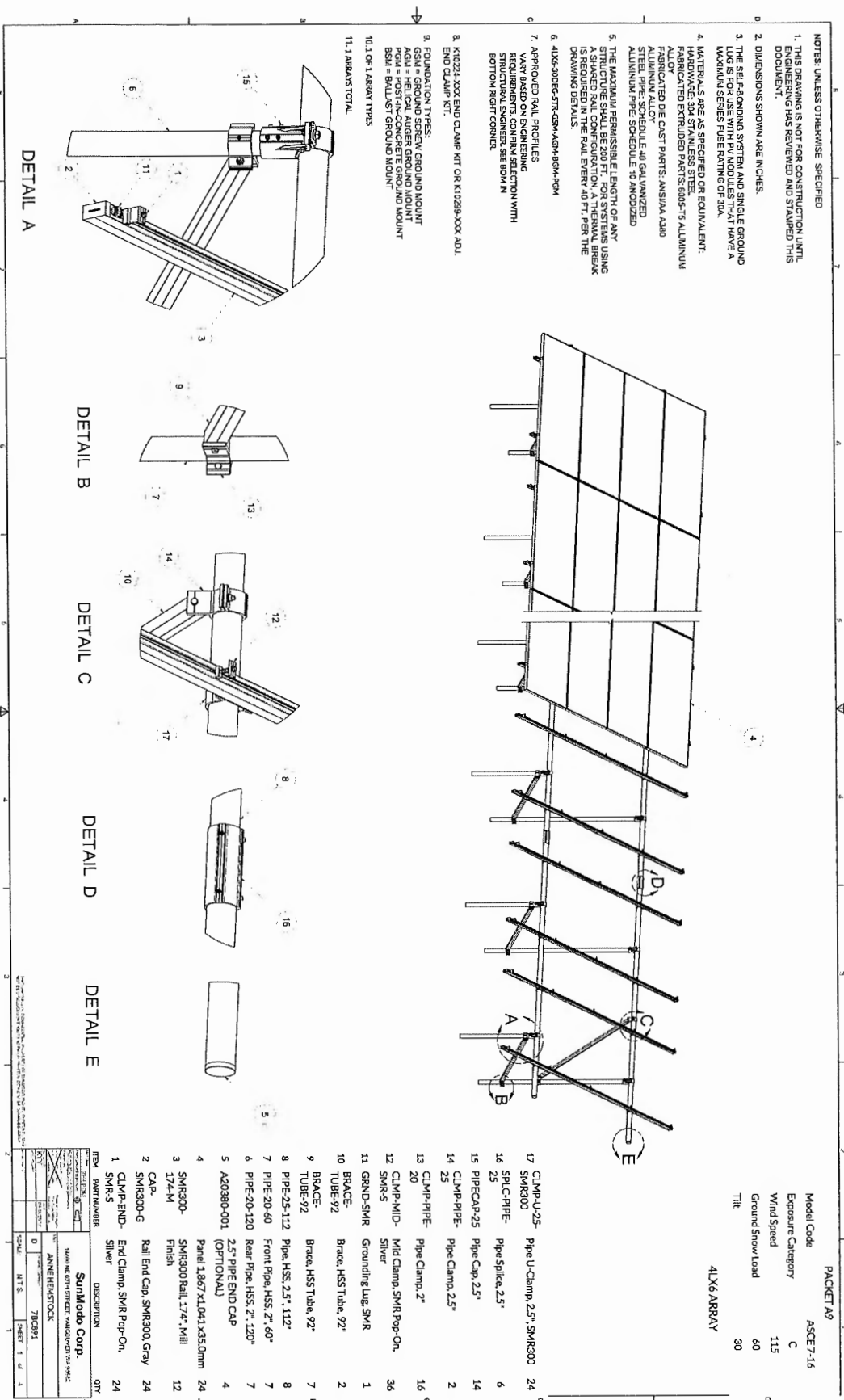
Span Selection	Automatic: 72"
Front Edge Height	36"
Foundation Type	Ground Screw
Length of Screw	80"
Tilt	30°

Bill of Materials

Part	Spares	Total Qty
GRSCREW-80 Ground Screw, 80", with set screws		14
PIPE-20-60 Front Pipe, HSS, 2", 60"		7
PIPE-20-120 Rear Pipe, HSS, 2", 120"		7
PIPE-25-112 Pipe, HSS, 2.5", 112"		8
BRACE-TUBE-92 Brace, HSS Tube, 92"		9
SMR300-174-M SMR300 Rail, 174", Mill Finish		12
CLMP-U-25-SMR300 Pipe U-Clamp, 2.5", SMR300		24
PIPECAP-25 Pipe Cap, 2.5"		14
CLMP-PIPE-20 Pipe Clamp, 2"		16
CLMP-PIPE-25 Pipe Clamp, 2.5"		2
SPLC-PIPE-25 Pipe Splice, 2.5"		6
CLMP-MID-SMR-S Mid Clamp, SMR Pop-On, Silver		36
CLMP-END-SMR-S End Clamp, SMR Pop-On, Silver		24
GRND-SMR Grounding Lug, SMR		1
CAP-SMR300-G Rail End Cap, SMR300, Gray		24
MLPE-SMR MLPE Mount, SMR		24

Array #1 Details

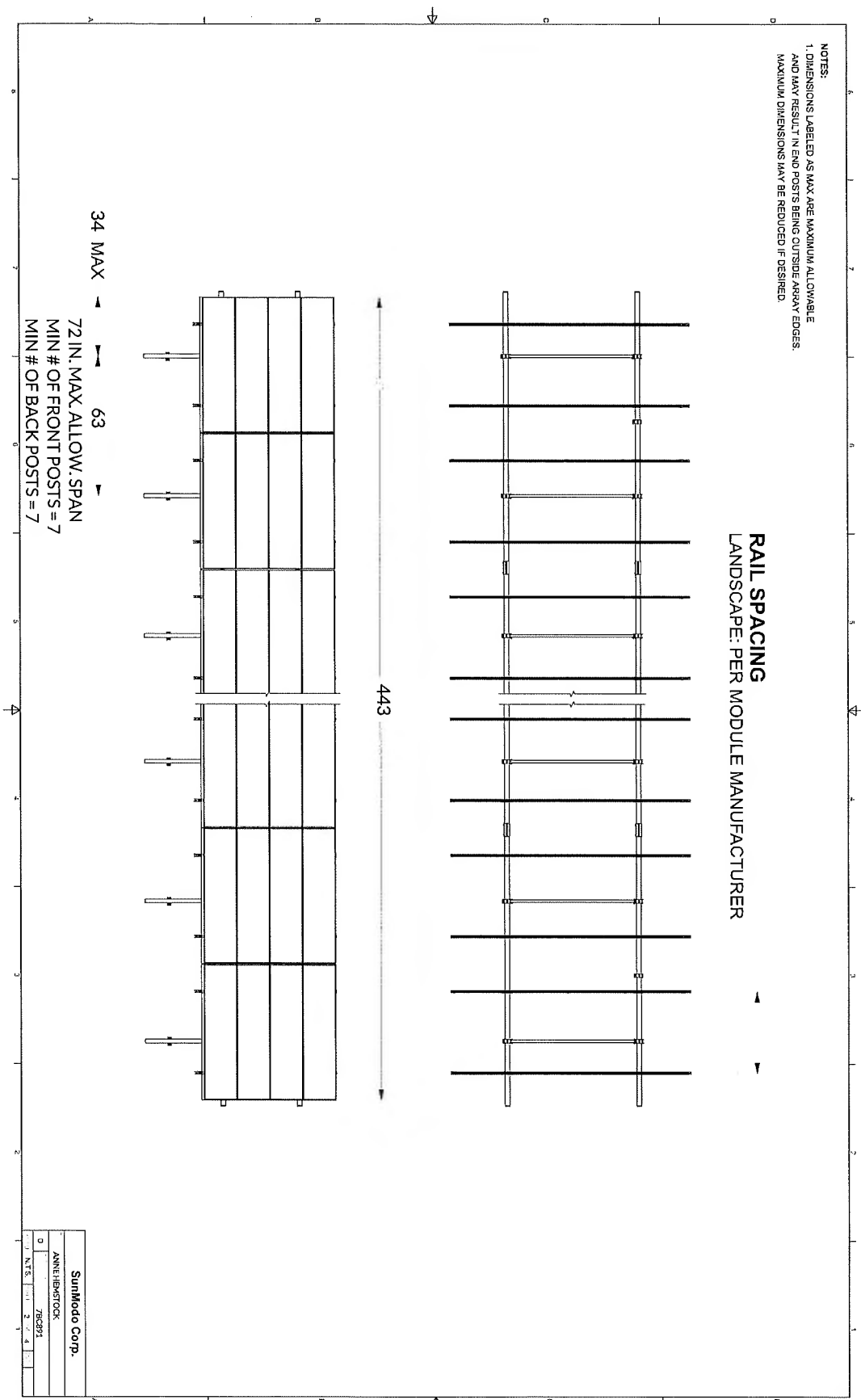
Orientation	Landscape	Rail Type	SMR300 Rail, 174", Mill Finish
Layout	4 rows by 6 columns	N/S Span (in)	80
Front Posts	7	E/W Max Span (in)	72
Back Posts	7	Area	441" (EW) x 164" (NS)



Sub Array #1 Spans

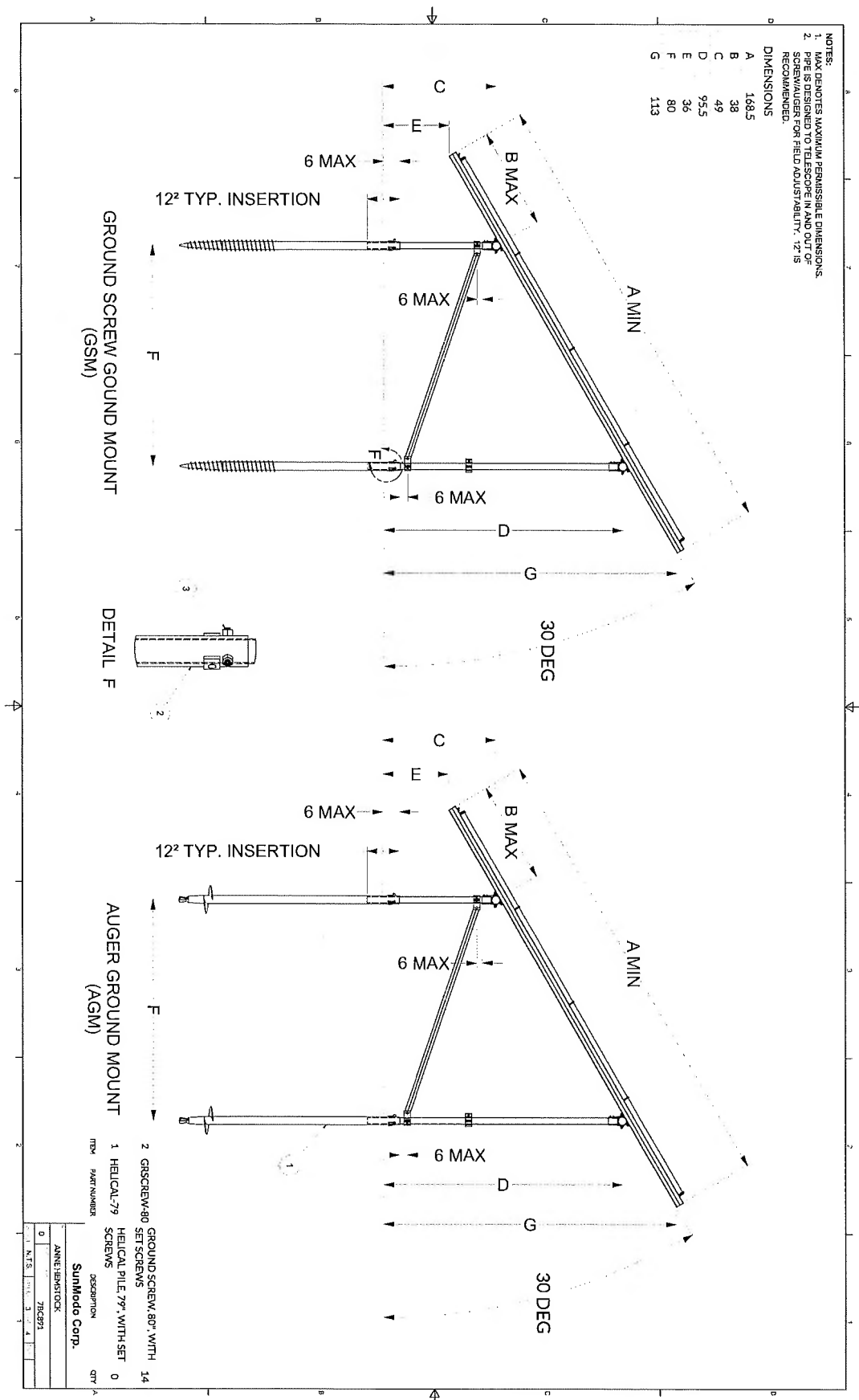
NOTES:
1. DIMENSIONS LABELED AS MAX ARE MAXIMUM ALLOWABLE
AND MAY RESULT IN END POSTS BEING OUTSIDE ARRAY EDGES.
MAXIMUM DIMENSIONS MAY BE REDUCED IF DESIRED.

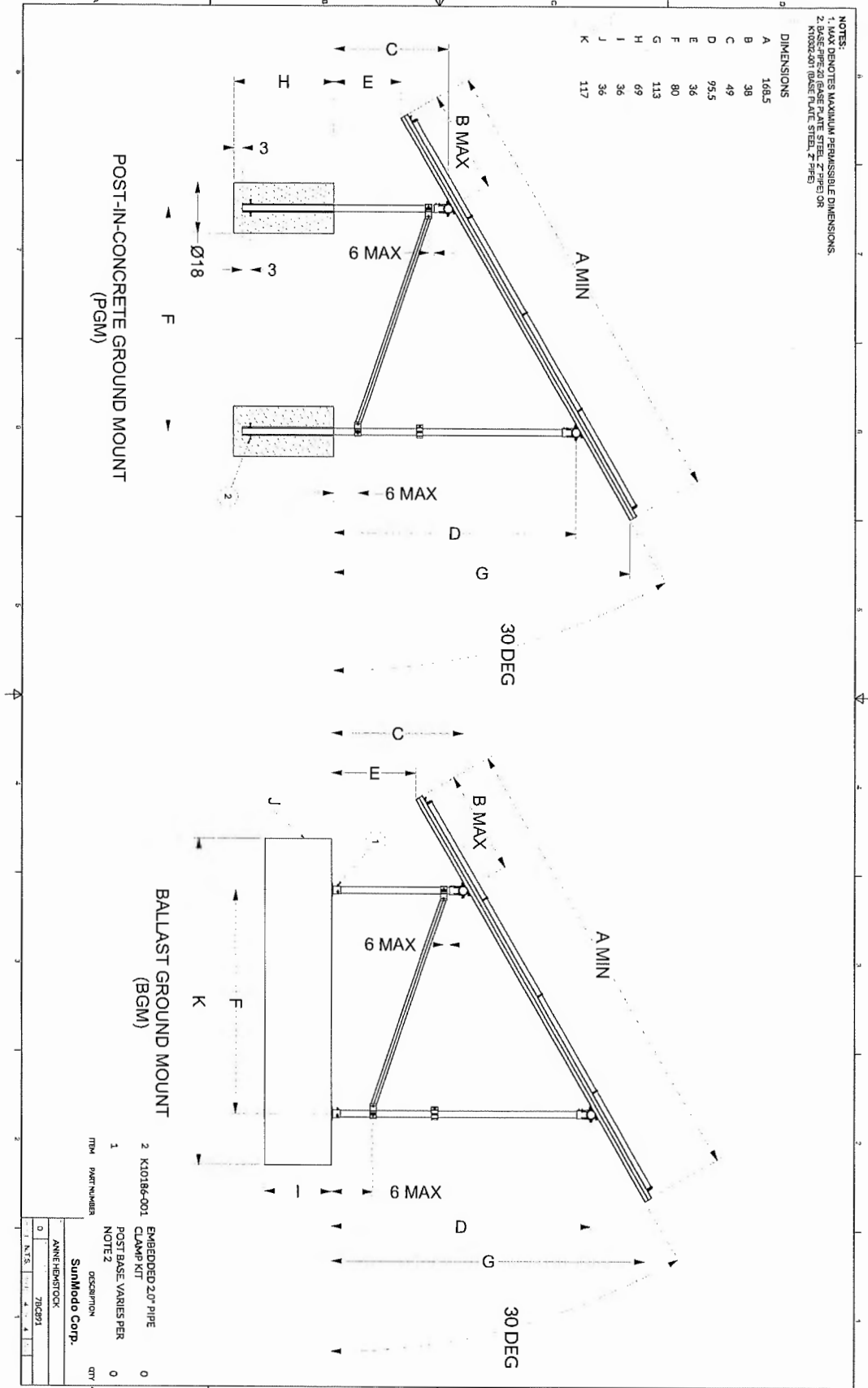
RAIL SPACING LANDSCAPE: PER MODULE MANUFACTURER

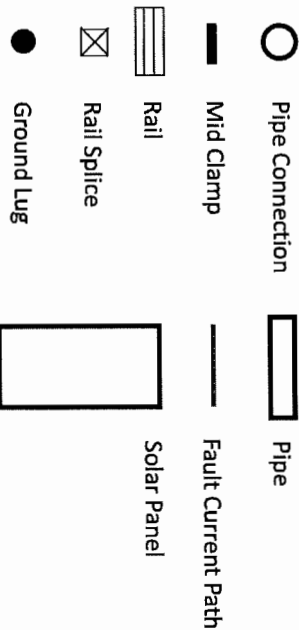
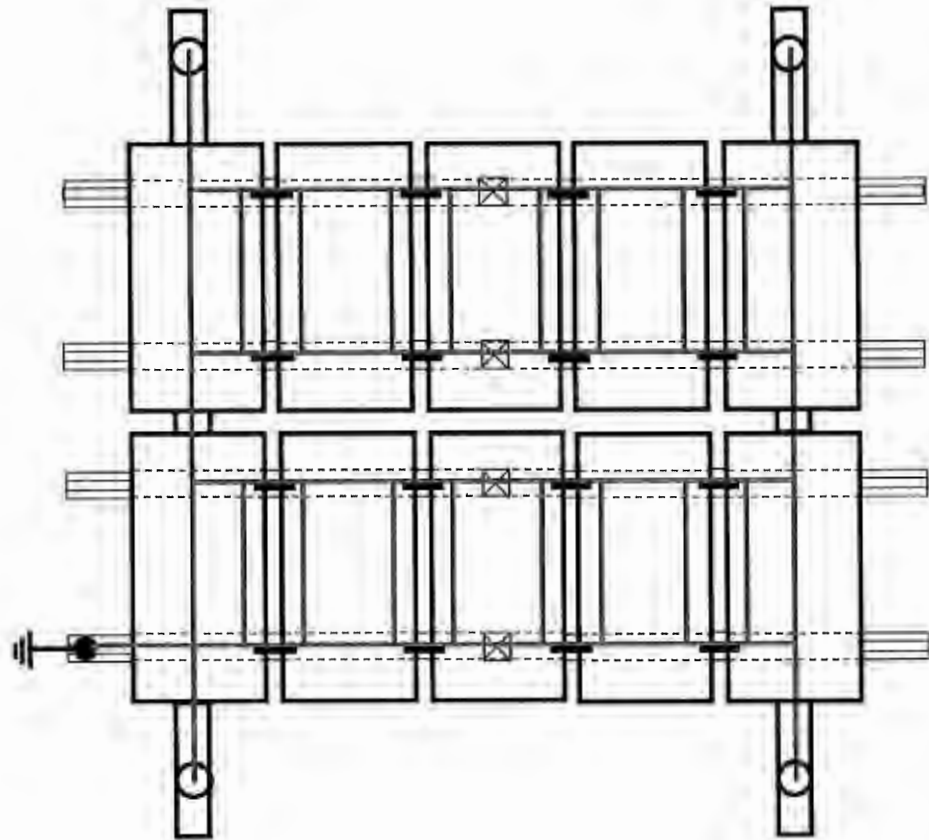


SunModo Corp.			
ANNE HEDSTOCK			
7/6/2021			
0	1	2	3
1	2	3	4

Sub Array #1 Foundation Part 1



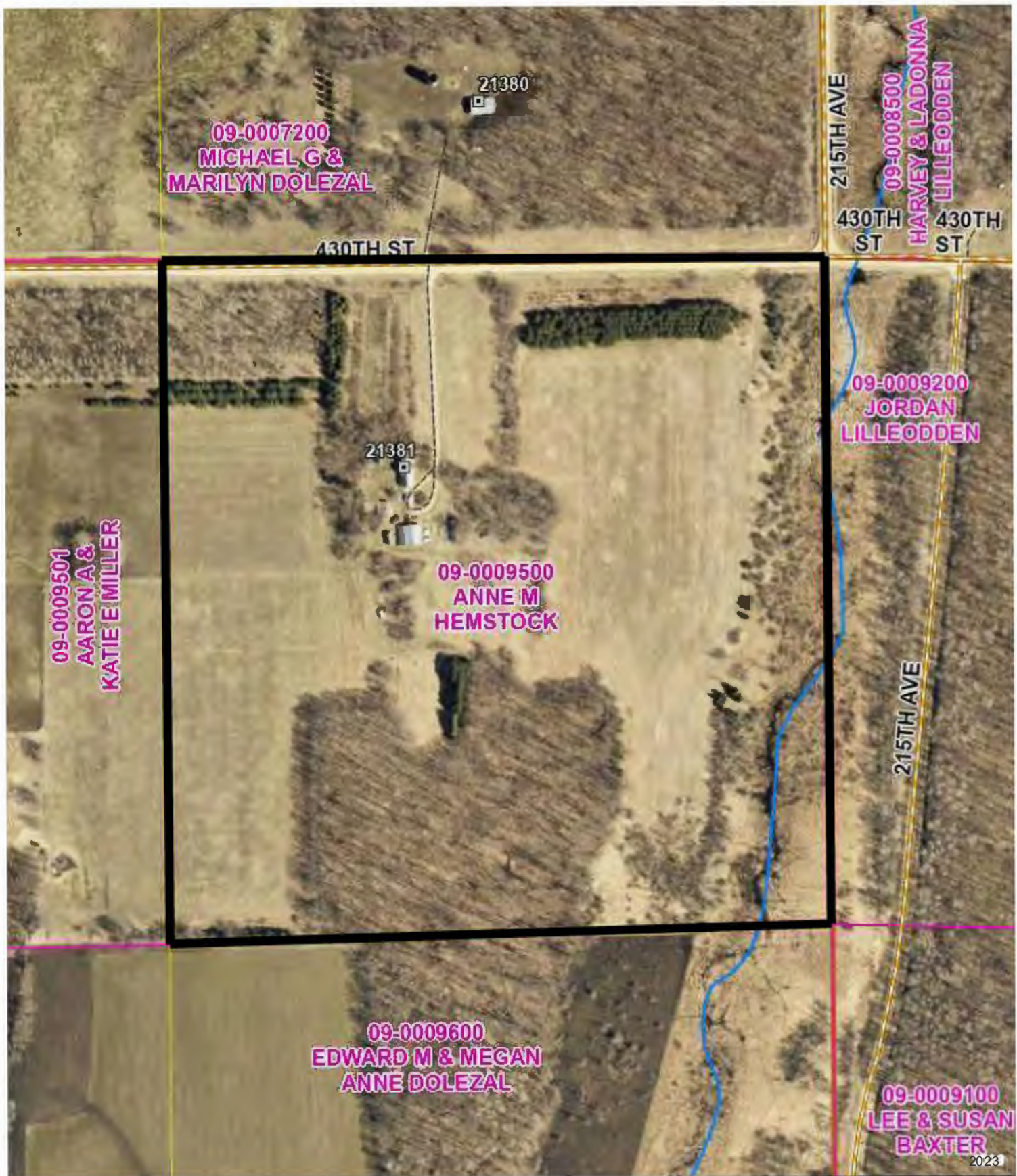




Note: All SunTurf metal structural components (Horizontal and Vertical Pipe, Pipe Splices, Post Caps, Pipe Clamps, Braces, Rail and Rail Splices) are electrically bonded together by design during the assembly of the racking.

Disclaimer:

The information from this configurator is not to be used for construction unless reviewed and approved by a design professional recognized by the project's authority having jurisdiction (AHJ)



09-0007200
MICHAEL G &
MARILYN DOLEZAL

21380

215TH AVE

09-0008500
HARVEY & LADONNA
LILLEODDEN

430TH ST

430TH ST

430TH ST

09-0009200
JORDAN
LILLEODDEN

215TH AVE

09-0009501
AARON A &
KATIE E MILLER

21381

09-0009500
ANNE M
HEMSTOCK

09-0009600
EDWARD M & MEGAN
ANNE DOLEZAL

09-0009100
LEE & SUSAN
BAXTER

2023

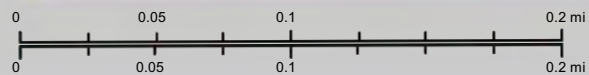
Todd County
MINNESOTA



Todd County GIS
215 1st Ave S, Ste 102
Long Prairie, MN 56347
(Office) 320-732-4248

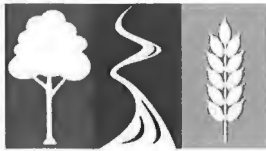
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GIS Site Map



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Printed on:
Tuesday, February 11, 2025



WHERE THE FOREST MEETS THE PRAIRIE

Todd County

• MINNESOTA • EST. 1855 •

PLANNING & ZONING

215 1st Avenue South, Suite 103

Long Prairie, MN 56347

Phone: 320-732-4420 Fax: 320-732-4803

Email: ToddPlan.Zone@Co.Todd.MN.US

Received

FEB 11 2025

JCC
Todd County Planning
& Zoning

CONDITIONAL USE PERMIT APPLICATION

Applicant Justin & Erika Wardell Mailing Address 14795 Cold 65 Long
Site Address same as mailing prairie MN 56347
Phone Number [REDACTED] E-Mail Address [REDACTED]
Property Owners Name & Address (if not applicant) _____

Parcel ID(s) 15-0012301 Township Leslie Lake/River Name _____

Zoning District (circle one): AF-1; AF2; R-2; R-10; UG; RT; Comm; L-M; or Shoreland.

Full and Current Legal Description(s) * Exhibit "A"
(attach if necessary)

Current tax statement or other proof of ownership attached () yes () no

Measurement of land involved: Width _____ Length _____ Acres 10

Septic System: Date installed 9/14/11 Date of latest Compliance Inspection 2/6/25

Is an upgrade needed: () yes () no

Site accessed by: () public road () easement

If easement, is the easement legally recorded? () yes () no

Detailed Explanation of Request:

add a 30x30 temporary dwelling to our pole shed
to care for my mother

Did you meet with the Township Board to present the Application for Conditional Use Permit?

Yes ☒ No _____ Date of the meeting: 1/29/25

[Signature]
Optional Township Board Signature

[Signature]
Board Position

Will the request create an excessive burden on the existing roads or other utilities? **Explain**

Electricity will be ran to the building, but the use will not be excessive. The occupant will have one vehicle and would leave

Is the requested use compatible with the surrounding properties? **Explain**

The property roughly once weekly
The request would not involve other properties

Could the use significantly depreciate near-by properties? **Explain**

No, it would likely improve the look of our property
therefore increasing surrounding value

Will the structure and the use have an appearance that will not have an adverse effect on near-by properties? **Explain**

Yes, the building idea will improve a current structure
with new siding that matches other buildings on the property

Will the requested use create an adverse affect on near-by properties because of noise, odor, glare, hours of operation, or general unsightliness? **Explain**

No, it will be occupied by widowed elderly woman.
we currently take care of her current property which takes
time away from our, so with the extra free time, we can
put more
time into
ours.

**RETURN APPLICATION, SITE PLAN, SEWER INFORMATION AND ANY ADDITION
INFORMATION, AND FEE TO:**

Todd County Planning & Zoning Office
215 1st Ave South, Suite 103
Long Prairie, MN 56347

Fee: \$500.00 or After-the-Fact Fee: \$1,000.00 payable to "Todd County"

Only complete applications may be placed on an agenda

****A PARCEL IN JOINT OWNERSHIP MUST PROVIDE WRITTEN SIGNATURE OF ALL OWNERS****

Justin Warden / Erika Warden Justin Warden Erika Warden Feb 10 2025
Applicant Name Printed Signature Date

Justin & Erika Warden
Property Owner Name Printed

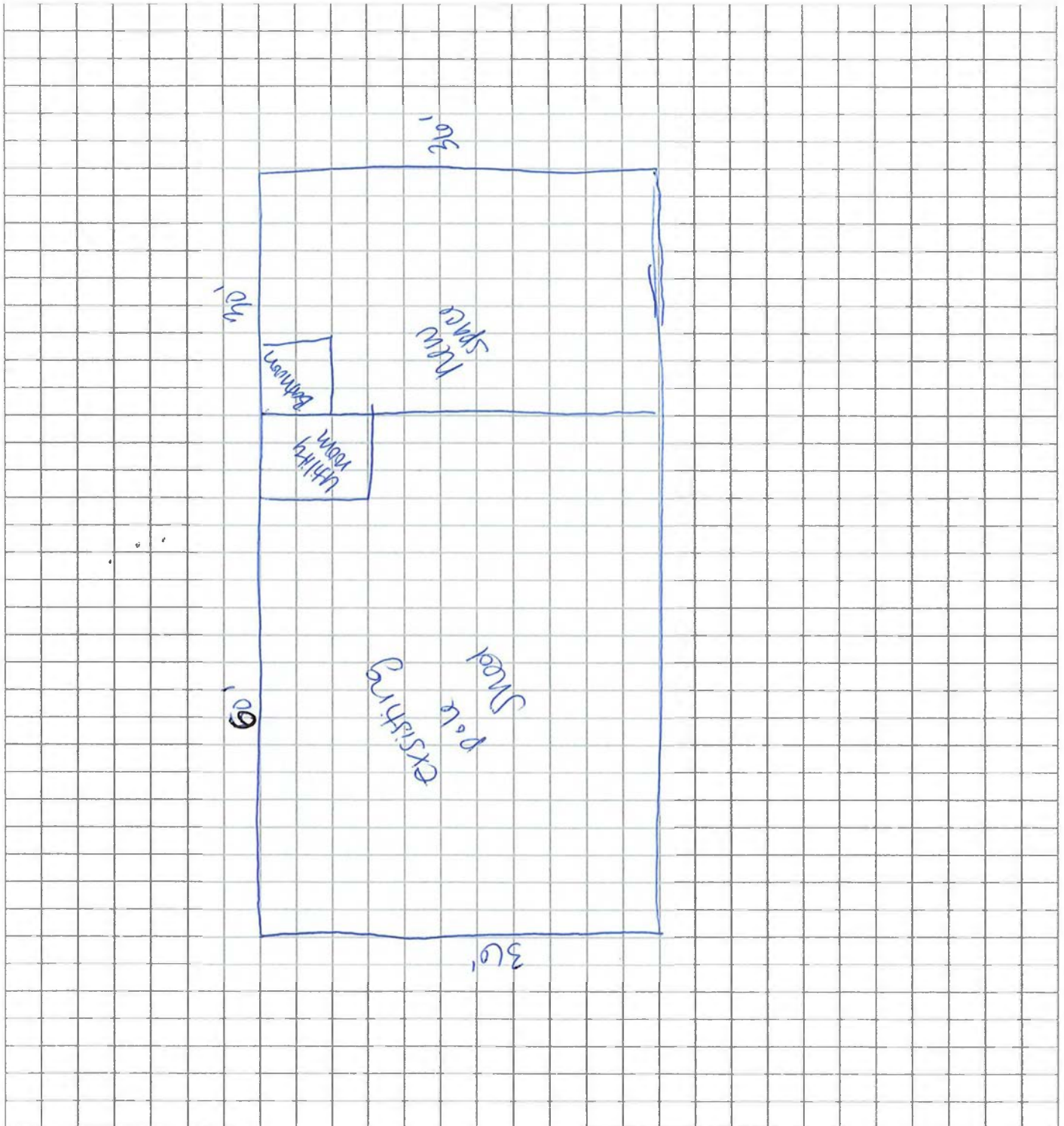
Signature (If different than applicant)

Date

A Conditional Use Permit expires and is considered invalid unless they are substantially completed within thirty-six months of the date the CUP is granted by the County Board (Section 5.05(N) of the County Zoning Ordinance).

Site Plan

Outline how the intended use will be situated on the property including buildings, parking areas, signage, material storage areas, etc.





Todd County

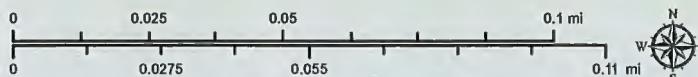
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(Office) 320-732-4248

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Printed on:
Monday, February 10, 2025

Exhibit "A"

Legal description for parcel #15-0012301

The North 10.00 acres of the East Half of the Southwest Quarter of Section 11, Township 129 North, Range 35 West, the South line of said 10.00 acres is parallel with the North line of said East Half of the Southwest Quarter, according to the United States Government Survey thereof.

Default Timeout is: 59
As of :
2/10/2025

Parcel Number: 15-0012301

Payable Year: 2024

General Info |

Tax Info |

Current Receipts |

Special Asmts |

Unpaid Tax |

History

Pay by Credit Card

Current Year Tax Stmt

Previous Year Tax Stmt

Taxpayer/Owner Information

Taxpayer #31555
WARDELL/JUSTIN & ERIKA
14795 COUNTY ROAD 65
LONG PRAIRIE MN 56347

General
MP #15-0012301 Re/Mh: REAL ESTATE
Twp/City School Water **** Debt Agri
15 2753 0 6 0
Twp/City 15 - LESLIE
School Dist 2753 - LONG PRAIRIE-GREY EAGLE

Description
Sect Twp Range Lot Block
11 129 35 0 0

N 10 AC OF NE4 SW4
10.00 ACRES

Property Address
14795 COUNTY 65 56347

Escrow
15 CORELOGIC
Deeded Acres: 10.00

[Another Search](#) | [Back to ParcelList](#) |



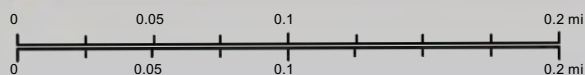
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