

### CITY COUNCIL MEETING TIME: 6:30 PM

- 1. Call to Order
- 2. Pledge of Allegiance
- 3. Roll Call

#### 4. \*\*\*\*Consent Agenda\*\*\*\*

All items listed under Consent Agenda are considered to be routine by Council and will be acted on by one motion. There will be no separate discussion of these items. If discussion is desired, that item will be removed from the Consent Agenda and will be considered separately.

- a. Approval of City Council Minutes from the June 24, 2025, Regular City Council Meeting.
- b. Approval of Accounts Payable (Batch #1; Checks Numbered 23769-23783, Batch #2, Checks Numbered 23784-23795 and Batch #3, Checks Numbered 23796-23816).
- c. Agriculture Preserve Renewal Application PID No. 10-118-24-41-0001.
- d. Large Assembly Permit: Twin City Polo Club 2025 Polo Club Classic August 3, 2025.
- 5. Set Agenda Anyone Not on the Agenda can be Placed Under Open/Misc.
- 6. Reports of Boards and Committees by Council and Staff.
- 7. West Hennepin Public Safety Director Mattew DuRose: Presentation of the June 2025 Activity Report.
- 8. Lake Independence Citizens Association Presentation to Council on Lake Independence Water Quality.
- 9. Lake Independence Residents Presentation of Petition Relating to Proposed No Wake Ordinance Amendment.
- 10. Presentation of the 2024 Financial Audit.
  - a. 2024 Financial Audit
  - b. 2024 Audit Presentation

Fax: 763.479.0528

- 11. Arman Taghizadeh (Applicant) and Mark Moorhouse (Owner) are requesting the following actions for the property located at 7949 County Road 11 (PID No. 09-118-24-22-0004) in the City of Independence, MN.
  - a. **RESOLUTION No. 25-0715-01** Considering approval of a conditional use permit (CUP) to allow a ground mounted solar system which is greater than 500 SF; and a variance to allow the ground mounted solar system to be located less than 100' from the side property line. The applicant owns both of the properties on either side of the property line.
- 12. Chloe Kirks (Applicant) and Andrew Fairbairn (Owner) are requesting the following actions for the property located at 7975 County Road 6 (PID No. 33-118-24-23-0001) in the City of Independence, MN.
  - a. **RESOLUTION No. 25-0715-02** Considering approval of a conditional use permit (CUP) to allow a ground mounted solar system which is greater than 500 SF.
- 13. Open/Misc.
- 14. Adjourn.

#### MINUTES OF A REGULAR MEETING OF THE INDEPENDENCE CITY COUNCIL TUESDAY, JUNE 24, 2025 – 6:30 P.M. City Hall Chambers

#### 1. CALL TO ORDER

Pursuant to due call and notice thereof, a regular meeting of the Independence City Council was called to order by Mayor Spencer at 6:30 p.m.

#### 2. PLEDGE OF ALLEGIANCE.

Mayor Spencer led the group in the Pledge of Allegiance.

3. ROLL CALL

PRESENT: Spencer, McCoy, Betts, Fisher, Grotting

ABSENT: None

STAFF: City Administrator Kaltsas, Administrative Services Director Simon,

Public Works Supervisor Ben Lehman, WHPS Chief DuRose

VISITORS: See Sign in Sheet

#### 4. \*\*\*\*CONSENT AGENDA\*\*\*\*

All items listed under Consent Agenda are considered to be routine by Council and will be acted on by one motion. There will be no separate discussion of these items. If discussion is desired, that item will be removed from the Consent Agenda and will be considered separately.

- a. Approval of City Council Minutes from the June 3, 2025, Regular City Council Meeting.
- b. Approval of Accounts Payable (Batch #1; Checks Numbered 23703-23720, Batch #2, Checks Numbered 23739-23756 and Batch #3, Checks Numbered 23757-23768, please note that Checks Numbered 23721-23738 were voided due to printing error).
- c. Large Assembly Permit:
  - i. Zuhrah Shrine Horse Patrol October 4, 2025.
- d. Recommended Funds Transfer:
  - i. **RESOLUTION No. 25-0624-01** Considering a transfer of \$35,218 from *Fund 100 General Fund to Fund 407 Public Safety*.

Motion by Fisher, seconded by McCoy to approve the Consent Agenda. Ayes: Spencer, McCoy, Betts, Grotting and Fisher. Nays: None. Absent: None. Abstain. None. MOTION DECLARED CARRIED. 5-0

- 5. Set Agenda Anyone Not on the Agenda can be Placed Under Open/Misc.
- 6. Reports of Boards and Committees by Council and Staff.

#### Fisher attended the following meetings:

• None

#### **Betts attended the following meetings:**

None

#### **McCov attended the following meetings:**

• May 28<sup>th</sup> Sensible Land Use Comp Plan review – mandating higher density

#### Grotting attended the following meetings:

• None

#### **Spencer attended the following meetings:**

- Party in the Park
- NW League meeting of Mayors
- Meeting with Kristin Robbins & Kaltsas
- Meeting with Mayor Maas-Kuske and Fire Chief Denneson about fire merger
- Battle of the Badges Organization meeting

#### Kaltsas attended the following meetings:

• None outside what has been mentioned

#### Simon attended the following meetings:

- None
- 7. West Hennepin Public Safety Director Matthew DuRose: Presentation of the May 2025 Activity Report.

Public Safety Director Matt DuRose presented the May 2025 activity report for West Hennepin Public Safety. He highlighted an increase in incidents, attributing it to catching up on burn permits and increased traffic enforcement. Notable incidents included:

- 1. A second-degree DWI arrest of an individual with two priors.
- 2. A package theft investigation.
- 3. An assault complaint involving acquainted individuals, which was referred for prosecution.
- 4. Assistance to Maple Plain Fire with a significant fire on May 25th on Geggen-Tina Road.

DuRose noted that West Hennepin Public Safety had no direct involvement in the recent investigations or manhunt related to Representative Horton Portman or Senator Hoffman, but staff was on standby.

He reminded the council about the upcoming Night to Unite event on Tuesday, August 5th, encouraging neighborhoods to register their parties.

Councilmember Betts inquired about the Citizens Academy, to which DuRose responded that they plan to bring it back, possibly next spring.

Councilmember Grotting raised a question about e-bikes and potential city ordinances. DuRose and City Administrator Kaltsas explained that while e-bikes haven't been a significant issue in

Independence, neighboring jurisdictions have faced challenges. They noted that current enforcement often relies on DNR statutes.

Mayor Spencer asked about the city's recent safety ranking. DuRose reported that West Hennepin, Maple Plain, and Independence were ranked as the second safest cities in Minnesota, up from a previous ranking of third.

8. BridgeVine Development – Discussion Relating to Developer's Letter Requesting Reconsideration of Sidewalk Requirement.

City Administrator Mark Kaltsas presented the issue regarding the BridgeVine development's sidewalk requirement. He explained that while reviewing the public improvements for the development, it was discovered that a sidewalk was included and approved in the final plat and plan unit development. The developer had requested reconsideration of this requirement.

Kaltsas provided background on the sidewalk's inclusion, noting it was added as a condition by the Planning Commission during the preliminary stage of development. He explained that the sidewalk was intended to address pedestrian safety concerns in the city's most dense subdivision.

Council members discussed the history of the sidewalk requirement, with some recalling discussions about pedestrian safety and the unique nature of the development. Councilmember Betts initially expressed confusion about the sidewalk's location and purpose but was clarified by Kaltsas.

After discussion, the council decided to uphold the original requirement for the sidewalk.

Motion to maintain the sidewalk requirement as originally approved in the Bridgevine development plans was made by Grotting, seconded by McCoy. Ayes: Spencer, McCoy, Betts, Grotting and Fisher. Nays: None. Absent: None. Abstain. None. MOTION DECLARED CARRIED. 5-0

- 9. A proposed text amendment to the City of Independence Ordinance as follows:
  - a. **ORDINANCE No. 2025-03** Considering a text amendment to Chapter VII, Section 705 of the city's ordinance relating to regulations governing On-Site Sewage Treatment. The amendment will consider minor changes that will bring the ordinance into alignment with recent changes to state statute and also establish provisions relating to the "type" of systems allowed as alternate systems in the city. Council will also consider establishment of language requiring more specific language pertaining to the transfer of properties in the city.

City Administrator Mark Kaltsas presented the proposed text amendment to the ordinance governing on-site sewage treatment. He highlighted the following changes:

- 1. Additional language in subdivision 2a2 allowing the city to be named on and draw from the escrow.
- 2. A change to the fee schedule for private on-site septic compliance escrow to \$45,000.
- 3. In section 705.08, a change from "within 3 years" to "within 12 months" for bringing a system into compliance after a notice of noncompliance.

Kaltsas noted that he had researched exceptions for when SSTS compliance inspections are not needed but found the current language to be consistent with other municipalities.

Motion to approve Ordinance 2025-03, the text amendment to Chapter VII, Section 705 of the City's Ordinance Relating to Regulations Governing On-Site Sewage Treatment by McCoy, seconded by Betts. Ayes: Spencer, McCoy, Betts, and Fisher. Nays: None. Absent: None. Abstain. None. MOTION DECLARED CARRIED. 5-0

b. **RESOLUTION No. 25-0624-02** – Approving publication of a summary of Ordinance No. 2025-03.

Motion to approve Resolution No. 25-0624-02, approving the publication of a summary of Ordinance No. 2025-03, was made by Councilmember Betts, seconded by Councilmember Grotting. The motion carried unanimously. 5-0

As a separate motion, Kaltsas requested approval for the fee schedule change.

Motion to amend the fee schedule to include a \$45,000 private on-site septic on-site compliance escrow was made by Mayor Spencer, seconded by Councilmember Fisher. The motion carried unanimously. 5-0

10. Pioneer Sarah Creek Watershed Commission - Proposed 2026 Budget Review.

Mayor Spencer presented the preliminary 2026 budget from the Pioneer Sarah Creek Watershed Commission. He read a summary provided by Joe Baker, noting that while the overall budget increase was 2.5%, Independence's portion increased by 5.2% due to higher property value assessments.

Key points from the budget summary included:

- 1. A \$5,000 increase in Hennepin County staff allocation for administering the Watershed Based Implementation Funding (WBIF).
- 2. The watershed will receive \$241,000 over the next two years from the Board of Water and Soil.
- 3. The watershed is in a strong financial position to implement projects to improve water quality in Lake Independence, Lake Sarah, and Lake Rebecca.

Mayor Spencer also mentioned that Joe Baker had been nominated for a League of Minnesota Cities award, receiving support letters from various entities, though he was ultimately not selected.

Motion to recommend approval of the draft 2026 Pioneer Sarah Creek Watershed Commission budget was made by Mayor Spencer, seconded by Councilmember Betts. The motion carried unanimously. 5-0

11. Consideration of the 2025 Asphalt Maintenance and Repair Quotations.

City Administrator Mark Kaltsas presented the 2025 asphalt maintenance and repair quotations. He explained that the city annually inspects roads and identifies areas needing repair or maintenance. For this year, culvert and asphalt repairs were identified on Perkinsville Road, Woodhill Drive, and the intersection of Maine and County Road 90.

Kaltsas provided a breakdown of the recommended bids, totaling \$47,455, which is within the annual budget of \$55,000 for general maintenance. He noted that while competitive bids are required for projects over \$150,000, the city seeks multiple quotes for projects over \$25,000.

Motion to approve the asphalt maintenance and repair quotations as highlighted in Ben Lehman's report was made by Councilmember McCoy, seconded by Councilmember Fisher. The motion carried unanimously. 5-0

12. Open/Misc.

Mayor Spencer reminded everyone that the July 1st meeting had been canceled, with the next meeting scheduled for July 15th.

The council discussed rescheduling the August 5th meeting due to a conflict with Night to Unite. They agreed to move the meeting time to 5 PM to accommodate participation in Night to Unite events.

Motion to reschedule the August 5th meeting to 5 PM was made by Councilmember McCoy, seconded by Councilmember Betts. The motion carried unanimously. 5-0

#### 13. Adjourn.

Motion to adjourn the meeting was made by Councilmember Fisher, seconded by Councilmember McCoy. The motion carried unanimously. 5-0

After the official adjournment, it was noted that it was Mayor Spencer's birthday. City Clerk Amber Simon had arranged for a cake to celebrate the occasion.

Meeting adjourned at 7:14 pm.

Respectfully Submitted, Amber Simon/ Recording Secretary

# METROPOLITAN AGRICULTURAL PRESERVES RESTRICTIVE COVENANT

THIS AGREEME	NT, made and entered into this $\frac{31}{}$ da	y of MAY_	, 2025_, by and between
Lance H. Wallin	, Record Fee Owner(s);		
	Contract for Deed V	endor(s) (Selle	rs), if any;
		C	ontract for Deed Vendee(s) (Buyers), if any;
hereinafter collectively refer	rred to as Landowner(s); AND the	City	of _Independence,
Hennepin	County, Minnesota,		
(State) Corporation whatever the case	n, a Trustee of a Trust (describe), a might be — If property is homestead — on-homestead and spouse doesn't join —	Guardian or A spouse must jo	d wife, a single person, a Partnership, a Administrator of an Estate (describe) — in whether their name is on record or not ent must be put at end of legal description
WITNESSETH:			
WHEREAS, the La	andowner(s) above named are the owner	s of the tract of	land (the Land) in the County of
Hennepin_	, State of Minnesota, legally describ	ed as:	
Use description fro	OPERTY — Use description from Certifi om abstract or deed, if possible, or get it led. Be sure to state your parcel identifi	from your coun	ty auditor. Use an additional sheet if
Parcel identification number	r: 10-118-24-41-0001	F	Homestead or Non-homestead (Circle one)
Legal Description:			
The north half of the southe Township 118, Range 24, H	ast quarter of section 10, ennepin County, Minnesota.		
			ipation in the State of Minnesota Metropolitan as made application for initiating placement of the
			nd incorporated herein as Attachment A; and
City of Independenc designation as an agricultura		have) approved	and certified this Land as being eligible for and is certified long-term agricultural is attached
	Stat., Section 473H.05, requires that the shall constitute an easement running with		plete and file as part of this application a
			pation in the State of Minnesota Metropolitan s and assignees, agrees and covenants as follows:

1. The Land herein described shall be kept in agricultural use. Agricultural use as that is used herein means the production for sale of livestock, dairy animals, dairy products, poultry or poultry products, fur bearing animals, horticultural or

1

nursery stock, fruit, vegetables, forage, grains, or bees and apiary products. Wetlands, pasture and woodlands accompanying land in agricultural use shall be deemed to be in agricultural use.

- 2. The Land herein described shall be used in accordance with the provisions of Minn. Stat., Chapter 473H which exist on the date of this covenant.
- 3. This Restrictive Covenant shall be binding on the owner, or his successors and assignees, and shall be an easement running with the land.
  - 4. Duration. This Restrictive Covenant shall be in force and effect in accordance with the aforementioned statute:
    - a. until expiration initiated pursuant to Minn. Stat., Section 473H.08 becomes final;
    - b. until the agricultural preserve is terminated by executive order of the Governor; or
    - c. until the Land is acquired by eminent domain;

all in accordance with Minn. Stat., Chapter 473H.

5.	Enforcement: This Agreement and Restrictive Covenant may be enforced by the  City of Independence or the State of Minnesota, or by
an interested pe	City of Independence or the State of Minnesota, or by appropriate action in the courts of the State of Minnesota.
prepared and ap IN WI above written.	was completed byAmber Simon, Administrative Services Director on a form proved by the Minnesota Department of Agriculture, 90 West Plato Blvd., St. Paul, Minnesota 55107.  INESS HEREOF, the parties to this agreement have caused this instrument to be executed on the day and year first To be signed in the presence of a notary public with exact same name as on page 1.)
	Lance H. Wallin
Witnessed Sign	ature of Contract for Deed Vendor(s) (Sellers), if any:
Witnessed Sign	ature of Contract for deed Vendee(s) (Buyers) if any:
	ature and Title of Public Officer:  of,County, Minnesota  Title or Position of Local Authority)
State of Mo	SS No Commission Emission Industria 24, 2027
(Print or type e.	Signature of Notary Public Commission Expires
For Individual	or Husband/Wife:
State of	
County of	) SS )
	ing instrument was acknowledged before me this day of, 19, by
(Print or type e.	cact same name(s) with marital status or identity as on page 1.)

		Signature of Notary Public	
	(	Commission Expires	
For Individual or Husband/	<u>Wife:</u>		
State of	) ) SS		
County of	) 33		
The foregoing instrume	nt was acknowledged before me thi	s day of	, 19, b
(Print or type exact same no	nme(s) with marital status or identity	v as on page 1.)	
		Signature of Notary Public Commission Expires	
For Public Officer:			
State of	)		
County of	) SS		
•	nt was acknowledged before me thi	s day of	, 19 , b
(Print name)	(Title)	of the (Local Authority)	
		Signature of Notary Public Commission Expires	
For Corporation:			
State of	)		
County of	) SS )		
The foregoing instrume	nt was acknowledged before me thi	s day of	, 19
		and	
its Corporation, on behalf of th	of	, a	
Corporation, on benait of th	e Corporation.		
		Signature of Notary Public Commission Expires	
For Corporation:			
State of	)		
	SS		
County of	)	- Jan 26	10
		s day of	
its	of	and, a	
Corporation, on benail of the	_	Signature of Notary Public	
		Commission Expires	
For Partnership:			
State of	) ) SS		
County of	, )		
		s day of	
byon behalf of the partnership	, parti	ner of	a partnership
, · · · · ·	-	Signature of Notary Public	
	(	Commission Expires	

Minnesota Department of Agriculture 90 West Plato Boulevard St. Paul, Minnesota 55107 612-296-7686

For Partnersh	<u>ip:</u>				
State of		) ) SS			
County of		)			
The fores	going instrument was a	acknowledged before me	this day	of	, 19,
by		, pa	artner of		a partnership,
on behalf of t	he partnership.				
			Signature of Notar Commission Expir	ry Public res	
For Attorney-	-in-Fact:				
State of		) ) SS			
County of		)			
The fores	going instrument was a	acknowledged before me	this day	of	, 19,
				of	
			Signature of Notar		
			Commission Expir	res	
For Trustee o	r Personal Representa	tive:			
State of	)	) SS			
County of	)	) 55			
The fore	going instrument was	acknowledged before me	this day of	, 20,	
Ву	the	of the	e		
			Signature of Notar Commission Expir	ry Public res	

ATTACHMENT A

#### APPLICATION FOR INITIATING PLACEMENT OF LAND INTO A METROPOLITAN AGRICULTURAL PRESERVE

AL AUTHORITY: City Of Independence	and	
	(if applical	ole)
* * *		Owner(s) is ("X" one):  X Individual  ☐ Legal Guardian ☐ Family Farm Corporation
4 Shady Lane		Other (specify):
* * * * * * * * * * * * * * * * * * * *		UYER(S) (VENDEES)
` ,		ELLER(S) (VENDORS)
ASIS OF ELIGIBILITY OF LAND ("X" one):		
Non-contiguous parcels of at least ten acres each 35-acre parcel, bound by public right-of-way or	perturbation in the rectangular su	
OTAL ACRES:78.22		
	RINT OR TYPE NAME(S) AND ADDRESS(ES)  Jose this space only if applicable. Must be same not taken the same of the s	RINT OR TYPE NAME(S) AND ADDRESS(ES) OF RECORD FEE OWNER(S) Use this space only if applicable. Must be same names as on page 1.)  Innce H. Wallin  14 Shady Lane 15 ayzata, MN 55391  RINT OR TYPE NAME(S) AND ADDRESS(ES) OF CONTRACT FOR DEED BY Use this space only if applicable. Must be same names as on page 1.)  RINT OR TYPE NAME(S) AND ADDRESS(ES) OF CONTRACT FOR DEED SEE this space only if applicable. Must be same names as on page 1.)  RINT OR TYPE NAME(S) AND ADDRESS(ES) OF CONTRACT FOR DEED SEE this space only if applicable. Must be same names as on page 1.)  ASIS OF ELIGIBILITY OF LAND ("X" one):  40 or more acres of land.  Non-contiguous parcels of at least ten acres each; parcels farmed as a unit. 35-acre parcel, bound by public right-of-way or perturbation in the rectangular su 20-acre parcel, subject to the conditions of Minnesota Statutes, section 473H.03,

[	Abstract  Registered ( <i>Torrens</i> ). If "Torrens" property, include yo	our Owner's Duplicate Certificate of Title.
FOI	R LOCAL AUTHORITY ONLY:	
r	This application has been reviewed by this Authority and is restrictive covenant and the affidavit from the Authority cempplication.	
8. I	DATE OF PLACEMENT OF LAND INTO PRESERVE:	August 16, 2025(Must be thirty days after the date in No. 7 above.)

6. TYPE OF PROPERTY ("X" one):

			AT	TACHMENT B
STA	ATE OF MINNESOTA	)		
COT	UNTY OF	) SS	OAVIT OF "AUTHO	RITY"
I, Ka	atie Mae Powell, being fi	irst duly sworn upon oat	h deposes and says as	follows:
1.	I am the Administrative Assistan (Title or Position of Local State of Minnesota, which unit of herein, and constitutes the "Auth Section 473H.02, Subd. 4.	al Authority) of government exercises	the planning and zonin	g authority for the land described
2.	This affidavit is being executed a	and submitted on behalf	of the Authority.	
3.	The tract of land in the County o legally described as (must be san		, State of Minnesot	a,
	Parcel identification number:	10-118-24-41-0001		n-homestead (Circle one)
	Legal Description: The north half of the southeast Township 118, Range 24, Hen	•		Cucie one)
				ance with a resolution adopted by the tural preserve as provided under the
4.	This affidavit is submitted at the for the purpose of making applic Minn. Stat., Chapter 473H.			ltural preserve in accordance with
Date	ed 31 MAY	, 20 <u>.25</u> . Sign	nature: Katie Mae  d Chie Assisain	
Sub	scribed and sworn to before me		(Title or Fos	uion Locai Aunoruy
this	31st day of MAY	, 20 <u>25</u>	•	
_	ature of Notary Public nmission Expires Jan. 31,	20240		
90 W	nesota Department of Agriculture Vest Plato Boulevard aul, Minnesota 55107			AG-00871-02 Revised 1998 in accordance to Minn. Sec. 507.093

612-296-7686



# NON-CITY ASSEMBLY PERMIT APPLICATION

Fees & Definitions:

200+ Attendees (*Large Assembly) = \$100	
100+ Attendees (*Medium Assembly) = \$25	
50+ Attendees (Small Assembly) = \$25	

Event Location: The Polo Classic: Twin City Polo Club	
Number of People: 2000 Date: August 3, 2025	_
<b>Type</b> : ☐ Residential ☐ Corporate ☐ Partnership ☐ Group or Association ☐ Other	
<b>3</b>	
Event Holder's Name(s):	
Event Holder's Address: 19025 Coates Blvd., Hastings, MN 55033	_
	_
Contact Person's Name: Nancy Turner	
Email: nturner@thisoldhorse.org Phone #: 6514371889	
THOM:THOM II.	
2 <sup>nd</sup> Contact Person Name: Kari Markham	
Email: <u>kmarkham@thisoldhorse.org</u> Phone #: 320 266 7624	
CECUDITY DI ANG	
SECURITY PLANS:	
Will arrange with local law enforcement.	—
Severe Weather Plans (in the event of): event will be cancelled	
SOUND PLANS	
Amplification and Sound Control: PA system provided by event organizer	
•	_
Outdoor Music: Starting Time: Ending Time:	_
✓Yes □ No 11 a.m. AM/PM 1 p.m. AM/PM	
7 100 E 110	
FOOD and CONCESSION PLANS	
Food trucks	
Vendor's Name, Address, and License Number (Copies of vendor license, insurance,	
and permits must be provided.)	
will be provided prior to event.	

<sup>\*</sup>Medium & Large Assemblies require a \$500 WHPS deposit with application. (Double fee for application received less than 45 business days prior to event). NOTE: This application must be approved by Council at Council meeting.

Vendor Work #	**************************************	Vendor Cell #		
Serving Alcohol:	Selling Alcohol □ Yes ♠No	(*If selling alcohol, contact the City for a Permit.)		
	ns: Quantity 14 portable along sidelines of polo field		_	
LIGHTING				
Type: none		_ Quantity		
Location of lights: _				
\$1,000,000 Certifica	tte of Liability insur	rance-provide a copy: attached		
PARKING PLANS:	Please provide a site pla	an showing 1 parking space for each vehicle per	_	
		mission from property owners must be obtained.		
_ , <b></b>	•			
		Many June		
5/19/25 Data		plicant's Signature	_	
Date	Арқ	plicant's Signature		
Date	App	plicant's Signature		
	<b>∼</b> .c:			
		Use Only		
		Fee: \$_\(\mathcal{U}(\)\) Date Fee Paid:	<u>.                                    </u>	
		y Insurance: <u>5 - 00 - 25</u>		
West Hennepin Public	Safety was notified of	event. <u>5 - 21 - 25</u>		
Official's Signature		Date		
VAA WIM		5.21.25		
t Hennepin Public Safe	ty Official's Signature			
litional approval	pending securit	Ly		
ditional approval , n being provides	It agreed usin	5 - 21 - 25		
· · · · · · · · · · · · · · · · · · ·		Date Council Approved		

Date: July 3<sup>rd</sup>, 2025

To: Public Safety Commissioners

City of Independence Council Members City of Maple Plain Council Members

From: Director Matt DuRose

SUBJECT: JUNE 2025 ACTIVITY REPORT

The purpose of this report is to give the reader a quick overview of the activities of the Public Safety Department each month. It also compares monthly and year-to-date information to the reader.

The report is broken down into five categories, as defined by the Criminal Justice Reporting System.

CRIMINAL-- Criminal is broken down into Part I and Part II crimes.

Part I includes crimes against persons versus crimes against property; criminal homicide, forcible rape, robbery assault, aggravated assault, burglary -breaking or entering, larceny-theft, larceny analysis, motor vehicle theft and arson.

Part II includes other assaults, forgery and counterfeiting, fraud, embezzlement, stolen property, buying, receiving, possession; vandalism, weapons, carrying, possessing, etc.; prostitution and commercialized vice, sex offenses; drug abuse violations, gambling, offenses against the family and children, driving under the influence, liquor laws, drunkenness, disorderly conduct, vagrancy, all other offenses, suspicion, curfew and loitering laws - persons under 18; and runaways - persons under 18.

TRAFFIC-- Includes violations of the road and driving laws.

PART III-- Lost and Found: Includes lost and found persons, animals, and property, and stalled and abandoned vehicles.

PART IV-- Casualties: Includes all motor vehicle crashes, boating, and snowmobile; public home occupational accidents, fires, suicides, sudden deaths, burning permits, and burning violations.

PART V-- Miscellaneous Public: Includes open doors, gun permit applications, suspicious activities, animal complaints, motorist assists, alarm calls, parking complaints, house checks, driving complaints, civil matters, family disputes, department assists.

The balance of the report shows the total number of incidents handled, miles driven and how the Public Safety Department received calls. If anyone should desire more detailed statistical data, please contact my office.



Monthly Activity Report							
June 2025							
This Same Month This Year Last Year Month Last Year To Date							
	Month	Luot I oui	10 Buto	10 Buto			
City Of Independence							
Criminal	7	2	25	21			
Traffic	132	74	641	439			
Part III	10	16	38	38			
Part IV	29	39	180	195			
Part V	102	105	615	637			
. GIL V	.02	100	010	00.			
Total City of Independence	280	236	1,499	1,330			
City Of Maple Plain							
City Of Maple Flam							
Criminal	4	2	17	12			
Traffic	44	20	271	130			
Part III	5	10	23	25			
Part IV	39	25	250	136			
Part V	56	39	242	287			
Total City Of Maple Plain	148	96	803	590			
Grand Total Both Cities	428	332	2,302	1,920			
TZD	28	13	148	138			
Agency Assists	30	23	151	126			
Total ICR Reports	486	368	2,601	2,184			
How Received							
Fax	11	3	38	30			
In Person	11	12	76	84			
Mail	0	0	4	6			
Other	0	1	5	3			
Phone	18	24	119	140			
Radio	171	170	930	893			
Visual	240	118	1,195	775			
Email	11	13	91	99			
Lobby Walk In	24	27	143	154			
Total	486	368	2,601	2,184			
Total	700	300	2,001	2,104			

#### June 2025 Part I & II

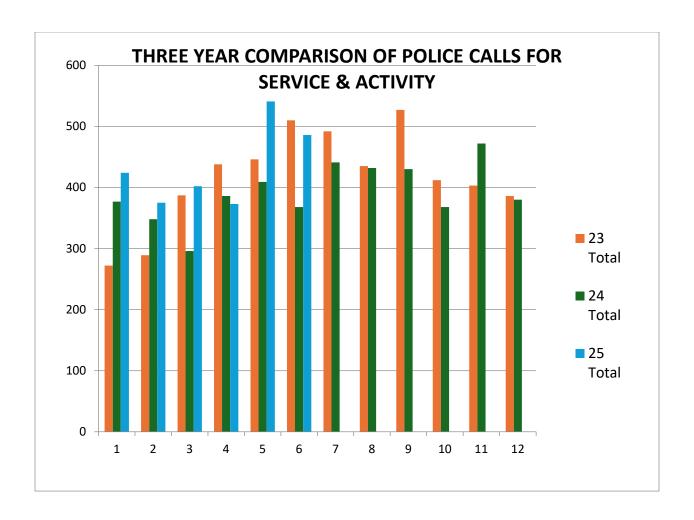
#### City of Maple Plain #'s 1 & 2

AGN	ICR	Title	Create Date	Grid#	MOC range	UCR Part
WHPS	25002190	Burglary 2 <sup>nd</sup> Degree	06-04-2025	01	B2434	1
WHPS	25002199	Prescription Theft	06-05-2025	01	U0010	2
WHPS	25002432	Domestic – Arrest	06-19-2025	02	AL551	2
WHPS	25002447	Forgery/Rpt	06-20-2025	02	C02G1	2

#### June 2025 Part I & II

#### City of Independence Grid #'s 3-5

AGN	ICR	Title	Create Date	Grid #	MOC range	UCR Part
WHPS	25002123	3 <sup>rd</sup> Degree DWI	06-01-2025	03	JF501	2
WHPS	25002272	4 <sup>™</sup> Degree DWI	06-09-2025	03	JG501	2
WHPS	25002330	Pursuit – 2 <sup>nd</sup> Degree DWI	06-13-2025	03	JE601	2
WHPS	25002359	2 <sup>nd</sup> Degree DWI	06-14-2025	03	JEW01	2
WHPS	25002451	Theft by Swindle	06-20-2025	03	U1069	2
WHPS	25002511	Theft by Swindle	06-24-2025	03	U1062	2
WHPS	25002571	Theft/Rpt	06-28-2025	03	U0062	2



### **DIRECTOR'S NEWS & NOTES**

WEST HENNEPIN PUBLIC SAFETY
June 2025 Activity Report

#### **Year to Date Activity Report**

At the end of June 2025, West Hennepin Public Safety (WHPS) handled year-to-date a total of 2,601 incident complaints, which represents a 19% increase in incident complaints compared to year-to-date 2024. For the month of June; 284 incidents occurred in the City of Independence and 148 in the City of Maple Plain.

The Criminal Part I and Part II cases for both cities have been highlighted for your review on the attached documents.

#### Arrest June 1

Intersection of Highway 12 and County Road 92 N, Independence. Officers stopped a vehicle for driving violations. Driver denied drinking alcohol but showed signs of impairment. Due to her needing a walker for a medical condition, she was not asked to perform roadside field sobriety tests. Ultimately, the driver was placed under arrest and transported to the police department where she provided an evidentiary breath sample of 0.20. Driver will be charged with 3<sup>rd</sup> Degree DWI pending formal complaint.

#### Vandalism June 4

Intersection of Highway 12 and Baker Park Road, Maple Plain. Officer was dispatched to take a report of vandalism at the railway underpass. Officer arrived and observed vulgar writing as well as many pieces of evidence. Further investigation found this involves an ongoing dispute between students. School and parents were made aware, and report forwarded to railroad company for restitution and clean up.

#### Fire June 5

5000 block of Perkinsville Road, Independence. Officers were dispatched to what was initially reported as a house fire but was a lawn mower on fire. Reporting party had advised the lawn mower exploded. Smoke was observed in the area. Officers and Maple Plain Fire arrived on scene and were able to extinguish the fire.

#### Suspicious Activity

June 6

4900 block of Highway 12, Maple Plain. Officer was dispatched to a report of an individual tampering with a light pole. Officer arrived on scene and spoke to the individual who advised they were using the power outlet for charging.

#### Suspicious Activity

June 7

3000 block of Independence Road, Independence. Officers were dispatched to a possible burglary. Reporting parties were kids home alone who advised they heard footsteps in the house. Officers responded and the interior of the house was cleared. Nothing out of the ordinary was located. Parents arrived home a short time later.

#### Welfare Check

June 8

1500 block of Rainbow Avenue, Maple Plain. Officer was dispatched to a report of a five-year-old in the middle of the road. While officers were responding, it was reported the child was reunited with parents. Officer verified with the father everything was okay.

#### Arrest June 9

Intersection of County Road 90 and Quass Cut-Off, Independence. Officer observed a vehicle back up in its lane while waiting for a stoplight. The vehicle then stopped in the lane after continuing through the stoplight. Multiple traffic infractions were observed, and a traffic stop was initiated. Officer spoke to the driver who admitted to consuming alcohol. Ultimately, the driver performed SFSTs and refused the preliminary breath test. Driver was arrested and booked where he provided an evidentiary breath sample of 0.14. He was released with a citation for 4<sup>th</sup> degree DWI.

#### Welfare Check June 10

4900 block of Highway 12, Maple Plain. Officer was dispatched to check the welfare of an individual lying in the grass and not moving. Officer arrived on scene and spoke to the individual who was severely intoxicated. The subject made suicidal comments and was ultimately placed on an emergency hold. He provided a breath sample which indicated 0.336. North Memorial Paramedics arrived and transported the patient to the hospital.

#### Civil Matter June 11

2000 block of South Lake Shore Drive, Independence. Officer was dispatched to a theft report where the reporting party advised her son took 10-15 guns from her safe. She advised all the guns in the safe were hers. Officers spoke to her son who advised the guns are his and provided text messages from his mother saying, "I don't own guns" and asked if he wants the moving company to move the safes. Officers determined no crime has been committed.

#### Arrest June 13

County Road 6 & County Road 110, Independence. Officer initiated a traffic stop on a vehicle for missing taillight lens. While speaking with the driver, signs of impairment were observed and admitted to recent meth and mushroom use. The vehicle then fled and a pursuit ensued and ended with a Pursuit Intervention Technique by assisting agencies in Minnetonka at 394/494. The driver was arrested for fleeing in a motor vehicle and transported to Hennepin County Jail. Charges pending toxicology.

#### Suspicious Vehicles June 13

3000 block of Ihduhapi Trail, Independence. Officer responded to a report of two suspicious vehicles parked on a service road. The vehicles were located unoccupied. A large amount of empty and open alcohol bottles and cans and marijuana were observed inside one of the vehicles. Drivers of the vehicles were located who admitted drinking the night prior, but the marijuana was not smoked. Both were counseled and released with a warning.

#### Arrest June 14

County Road 6 and County Road 110, Independence. A traffic stop was initiated on a vehicle displaying expired registration. The driver's license status was found to be revoked and could not show proof of insurance. In speaking with the driver, an odor of alcohol was detected. Field Sobriety Tests were conducted and indications of impairment were found. Driver was placed under arrest and transported to the police department where the driver provided an evidentiary breath sample of .16 BAC. The driver was transported to Hennepin County Jail, and booked for 2<sup>nd</sup> degree DWI, no insurance, DAR and unregistered motor vehicle.

#### Arrest July 18

5200 block of Main St, Maple Plain. Officers were called to a residence for a possible domestic. After speaking with both parties, one was placed under arrest and transported to Hennepin County Jail and booked for domestic assault.

#### Welfare Check June 20

Intersection of Highway 12 and County Road 90, Independence. Officer was dispatched to a welfare check of a male walking along Highway 12. Male was described as elderly and not wearing a shirt. Officer arrived in the area and spoke to the male who advised he was just out for a walk and enjoying the weather. Officer suggested a safer walking route.

# Traffic Complaint June 20

Intersection of County Road 110 and County Road 6, Independence. Officer was dispatched to a traffic complaint where a vehicle was swerving all over the road. Officer located the suspect vehicle and initiated a traffic stop and spoke to the driver who advised he was eating pizza. Driver was warned about his driving conduct.

#### Welfare Check June 21

5300 block of Highway 12, Maple Plain. Officer was dispatched to check the welfare of a female who was walking in the middle of Highway 12. Officer arrived on scene and was familiar with the female who frequently walks the highway. Female was transported back to her residents where the officer confirmed her boyfriend was home.

#### Noise Complaint June 22

1500 block of Howard Avenue, Maple Plain. Officer was dispatched to a loud music complaint. Officers arrived on scene and could hear music before approaching the residence. Officers knocked on the door, but no one answered. Officers noted there was another complaint two days prior for the same violation. Contact was made with the resident, and a citation was issued for the noise violation.

#### Crash June 23

Intersection of County Road 92 and Highway 12, Independence. Officer was dispatched to a property damage crash. It was reported Vehicle 1 was rearended by Vehicle 2. Driver 1 advised he wanted to slow down as he was driving over the posted speed limit, so he began braking and that's

when the crash occurred. Driver 2 alleged Driver 1 had passed him in the merge lane, made an offensive hand gesture, then braked aggressively causing the crash. Due to conflicting stories and no witnesses, no citations were issued.

#### Suspicious Vehicle June 24

5000 block of Fern Drive, Independence. Officer was dispatched to a suspicious vehicle which the reporting party thought was a police car due to a feature on the bumper. Officer arrived on scene and located a vehicle unoccupied and confirmed it was not a police car. While on scene, a resident advised the vehicle belonged to a friend. The vehicle was parked legally, and nothing was found to be suspicious.

#### Arrest June 25

Intersection of County Road 6 and County Road 110, Independence. Officer was on routine patrol and observed a vehicle driving 62-MPH in a 50-MPH zone. Officer stopped the vehicle and learned the driver had a Minnesota ID-only card. Routine checks found the driver's license status to be revoked. He also had a warrant for 3<sup>rd</sup> Degree DWI. A citation was issued for Driver After Revocation, and he was transported to Hennepin County Jail to be booked on his warrant.

#### Welfare Check June 26

1600 block of Marsh Avenue, Maple Plain. The officer was dispatched to a subject who was reportedly intoxicated and sad. The officer arrived on scene and met with the subject who provided a breath sample of 0.390. While speaking to the subject, the topic of weapons in the home was brought up. The subject advised he has a pistol replica tucked into the couch, which he reached for a pulled out. The officer was able to take the pistol out of his hand immediately and advised we would be removing it from the residence until a later date. Subject agreed to be transported to the hospital by North Memorial Paramedics.

### Theft by Swindle June 28

2000 block of Budd Street, Independence. Officer was dispatched to take a theft by swindle report. The reporting party is elderly and was swindled by indications of a fake unauthorized transaction notification from PayPal. Eventually, the scammers convinced the victim there were unpaid charges and the victim had to withdraw cash to be deposited into cryptocurrency kiosks around the metro. The total loss was \$4,340. Forwarded to investigations.

#### Utility Problem June 29

4900 block of South Lake Shore Drive, Independence. Officer was dispatched to a tree on a powerline. It was confirmed there were no sparks or fire. Xcel Energy was notified and Independence Public Works requested we mark the area. Officers put cones and reflective signs up to warn drivers.

# Traffic Complaint June 30

Intersection of Joyce Street and Prairieland Avenue, Maple Plain. Officers were dispatched to kids on ATV's and Minibikes racing up the street. Officers arrived on scene and were unable to locate them. The officer advised him to call back if it continues.

# Lake Independence Water Quality Improvement Strategy

**Outlet Channel and CLP Management** 



# **Strategy Overview**

- Water level and quality issues have prompted improvement plans
- Two projects
  - Outlet Channel Maintenance
  - Curly Leaf Pondweed (CLP) vegetation management
- Beginning in 2025, LICA making a request for members and watershed partners to provide support and funding for a five-year plan

# **Outlet Situation**

# Project #1: Outlet Channel

- Lake Independence has one outlet channel, with little elevation drop. After periods of heavy precipitation, Lake Independence water levels take longer than other area lakes to recover to 'normal'
- The Slow-No Wake (SNW) trigger level was substantially raised in 2020. Still, the lake was in SNW situation for the majority of 2024 boating season
  - SNW is now currently in place: July, 2025.
- Cattails have overgrown the channel, restricting outflow
- Past projects to clean out the channel mechanically, but ongoing maintenance has not been done critical to keep channel open



# Project #1: Outlet Channel

# What Needs to be Done?

- LICA worked with PSCWMC to create an action plan
- LICA obtained MN DNR permit and approval
  - Herbicide via drone application, October of '24
- Next: physical clearing of the channel
  - One-time operation, second (future) may be necessary
- Ongoing annual maintenance
  - Annual application of proven herbicide in August
  - Utilize drone applicator technology





# How to do this?

- Aquatic Weed Harvesting (AWH) is a vendor equipped (Truxor) to perform our main objectives:
  - Cut cattails off below the waterline, entire length of the channel
  - Physically remove the vegetation debris, discard appropriately



# Project #1: Outlet Channel



Ultimate Objective: Restore Optimal Lake Outflow



# CLP Situation Project #2: Curly Leaf Pondweed

- Curly Leaf Pondweed (CLP) has flourished in Lake Independence, now abundant in littoral zone and affecting recreation and water quality
- Based on Three Rivers Park District (TRPD) 2024 survey, CLP exists at the >60% frequency of occurrence (FOO) rate
- Lake Vegetation Management Plan (LVMP) has been created and approved by MN DNR

### Project #2: Curly Leaf Pondweed

# Lake Vegetation Management Plan

- Document outlining the vegetation strategy
  - Requires data from lake surveys
  - Three Rivers Park District
- Plan addresses a 5-to-7-year variance
- Includes specific goals
- Ultimate Objective: Removal from Minnesota Impaired Waters List
  - (Alum Treatment)





Project #2: Curly Leaf Pondweed

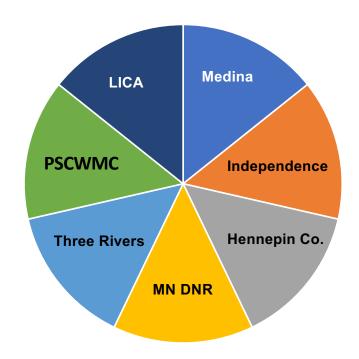
# Lake Management Goals

- Maintain CLP below 20% FOO annually (pretreatment delineation)
- Reduce CLP to <10% FOO at completion of LVMP 7 years</li>
- Reduce the average # of turions/m2 based off the baseline 2025 survey to be completed by Three Rivers Park District (TRPD) staff
- Increase native submersed species richness to 12 different species and >60% lake wide FOO for Fall TRPD survey



# Watershed Partners

- Several partners in support
  - Preliminary plan has been presented
  - Commitment to 5 yr plan
  - Cost-sharing between partners
- Joint Powers Agreement
  - TRPD + PSCWMC + LICA
- LICA's role is to facilitate and coordinate member contributions and grants
  - Ensure financial support for the program





# Commitment: 5 Year Program

# Estimates – directional budget purposes only

	2025	2026	2027	2028	2029	Total
CLP Treatment	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Outlet Channel	\$40,000	\$10,000	\$2,000	\$2,000	\$2,000	\$55,000
Annual	\$65,000	\$35,000	\$27,000	\$27,000	\$27,000	\$180,000

\*Note: "front heavy" project cost for physical clearing of outlet





# **EXAMPLE!** For discussion purposes only!

# Call to Action: Financial Commitment

Example: Year 1 cost = \$65,000

Partner	Contribution	Total
Three Rivers	15%	\$9,750
PSCWMC	25%	\$16,250
Medina	20%	\$13,000
Independence	20%	\$13,000
LICA	20%	\$13,000
		\$65,000

Example: Year 2 cost = \$35,000

Partner	Contribution	Total
Three Rivers	15%	\$5,250
PSCWMC	25%	\$8,750
Medina	20%	\$7,000
Independence	20%	\$7,000
LICA	20%	\$7,000
		\$35,000

<sup>\*</sup>Estimates – directional budget purposes only

# Call to Action: Financial Commitment

Example: Year 2 or 3 cost = \$30,000

Partner	Contribution	Total
Grant (MN DNR?)	Applied First	\$5,000
Three Rivers	15%	\$3,750
PSCWMC	25%	\$6,250
Medina	20%	\$5,000
Independence	20%	\$5,000
LICA	20%	\$5,000
		\$30,000

- New responsibility for LICA
  - Annually apply for water quality grants
  - Applied first, then partners share cost
- Openly share goals and budget
  - Transparency actual costs and funding
  - Based on annual needs, establish LICA member suggested donation
    - Example: if \$5,000 needed
      - 40 households @ \$125 each = \$5,000

<sup>\*</sup>Estimates – directional budget purposes only

Website: lakeindependence.org

Total Ask: \$45,000 budget over 5 years

# Summary

- Asking for Partners to cost share
- LICA's Ask: Cities of Medina and Independence
  - Estimated \$13,000 for 2025
  - Estimated \$8,000 per year after that
- LICA to facilitate/leadership
  - Water Quality Improvement Fund
  - Not part of LICA Operational Budget
- Water Quality Management Strategy
  - LVMP, 5-year plan, LICA member fundraising, watershed partners



# Thank you!

We appreciate your membership and support!

See you on the lake!



# LICA Call to Action: Financial Commitment

- 1. LICA Membership Donation
  - \$35 per year
  - Operational Budget
- 2. LICA Improvement Strategy Donations
  - Channel Maintenance and Curly Leaf Pondweed Treatment
  - Front loaded more expensive for first year(s)
  - Suggesting \$200 for first year
    - Anticipate reduced needs in future years, based on number of contributors

The following pages provide graphic representation of select data pertaining to the financial position and operations of the City for the past five years. Our analysis of each graph is presented to provide a basis for discussion of past performance and how implementing certain changes may enhance future performance. A subsequent discussion of this information should be useful for planning purposes.

# General Fund - Revenues

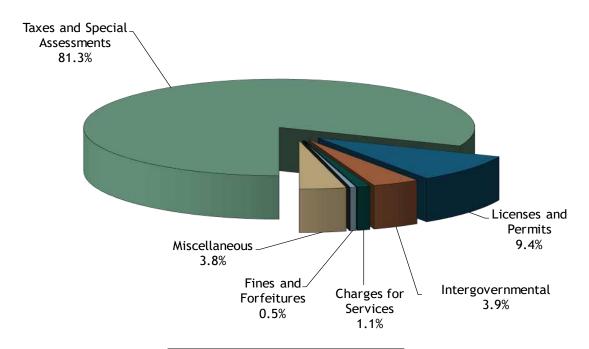
The graphs below and on the following page represent the General Fund revenues by source. Overall, revenue in 2024 increased \$145,993 to a total of \$4,374,613 in 2024, an increase of 3.45%. The largest increase of \$164,484 was realized in taxes and special assessments due to a higher levy than 2023 and the collection of a significant special assessment. Licenses and permits decreased \$79,967 in 2024 as building permit revenue was less compared to 2023. Intergovernmental revenue decreased \$21,021 due to a decrease in Public Safety Aid funding in 2024.

	2020	2021	2022	2023	2024
Taxes and Special Assessments	\$ 2,751,748	\$ 3,022,621	\$ 3,108,482	\$ 3,391,110	\$ 3,555,594
Licenses and Permits	273,858	247,346	425,366	490,911	410,944
Intergovernmental	26,185	151,613	26,118	192,090	171,069
Charges for Services	26,584	47,151	41,455	48,730	46,278
Fines and Forfeitures	35,323	35,451	42,090	29,185	21,467
Investment Income	4,769	2,846	-	-	-
Miscellaneous	5,728	179,003	18,924	76,594	169,261
Total Revenues	\$ 3,124,195	\$ 3,686,031	\$ 3,662,435	\$ 4,228,620	\$ 4,374,613

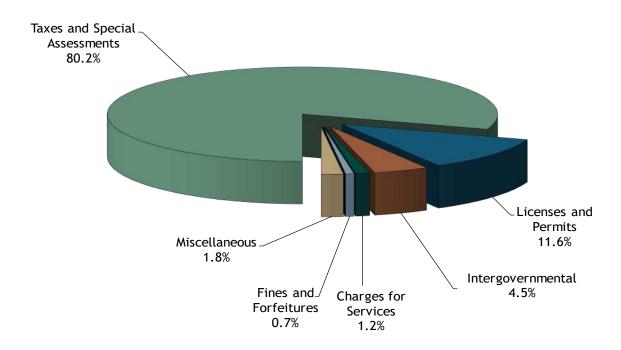
The overall allocation of revenues among the various sources changed from 2023 to 2024 as shown on the following page. The allocation remained relatively consistent from 2023 but did change relative to the changes in revenue explained above.

# General Fund - Revenues (Continued)

# 2024 General Fund Revenues



# 2023 General Fund Revenues



# General Fund - Budget to Actual Results

Miscellaneous revenues were over budget due to a payment received from Maple Plain Fire that was not budgeted for.

For 2024, actual revenues of \$4,374,613 came in \$429,297, or 10.9%, over budgeted revenue of \$3,945,316. There was a variance of \$145,944 in licenses and permits, which was over budget due primarily to conservative budgeting for building permits. There was a variance of \$142,969 in intergovernmental, which was over budget due to not budgeting for the small cities assistance grant and a new county grant in the current year for street projects. Other budgeted revenue categories were closer to in line with actual revenues.

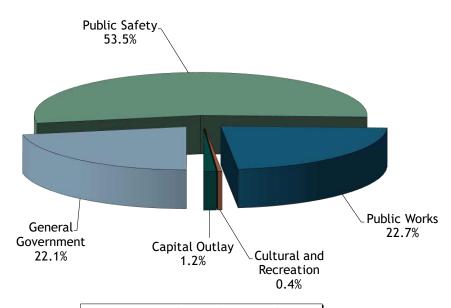
The expenditures budget of \$3,862,261 had a variance of \$317,754, or 8.2%, when compared to actual expenditures of \$4,180,015. Public safety expenditures were \$135,375 over budget due to an increase in contract fees to WHPS. Public works expenditures came in \$124,807 over budget due to costs for the Culvert Maintenance project exceeding budgeted expenditures in 2024. Other budgeted expenditure types were in line with actual expenditures.

	Budgeted Amounts Final	Actual Amounts	Fir	riance With nal Budget - ver (Under)
Revenues				
Property taxes and assessments	\$ 3,523,646	\$ 3,555,594	\$	31,948
Licenses and permits	265,000	410,944		145,944
Intergovernmental	28,100	171,069		142,969
Charges for services	61,185	46,278		(14,907)
Fines and forfeitures	36,900	21,467		(15,433)
Miscellaneous	30,485	 169,261		138,776
Total revenues	3,945,316	 4,374,613		429,297
Expenditures				
General government	871,226	922,396		51,170
Public safety	2,102,695	2,238,070		135,375
Public works	825,606	950,413		124,807
Cultural and recreation	26,625	17,441		(9,184)
Capital outlay	36,109	51,695		15,586
Total expenditures	3,862,261	4,180,015		317,754
Other Financing Sources (Uses)				
Transfers in	30,000	_		(30,000)
Transfers out	(113,055)	(123,819)		(10,764)
Total other financing sources (uses)	 (83,055)	 (123,819)		(40,764)
	(55,553)	 (:==;=:)		( , )
Net Change in Fund Balance	\$ -	\$ 70,779	\$	70,779

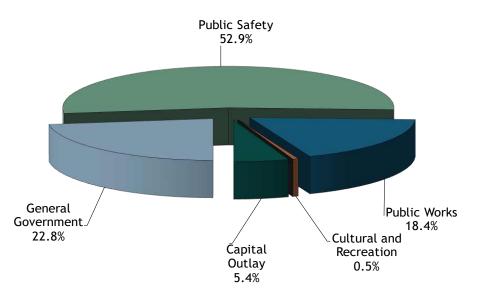
# General Fund - Expenditures

General Fund expenditures increased \$314,205, or 8.1%, from 2023 to 2024. There was a \$240,208 increase in the Public Works program due to an increase in costs with Culvert Maintenance project. Public Safety expenditures increased by \$192,109 due to an increase in contracted services cost. There was a \$155,258 decrease in Capital Outlay expenditures due to the Townline Road South Improvements project that occurred in 2023. The following graphs represent the General Fund expenditures by function, with Public Safety making up the largest expenditure category. The percentage of expenditures by function stayed relatively consistent from 2023 to 2024, except for changes as noted above.

# 2024 General Fund Expenditures

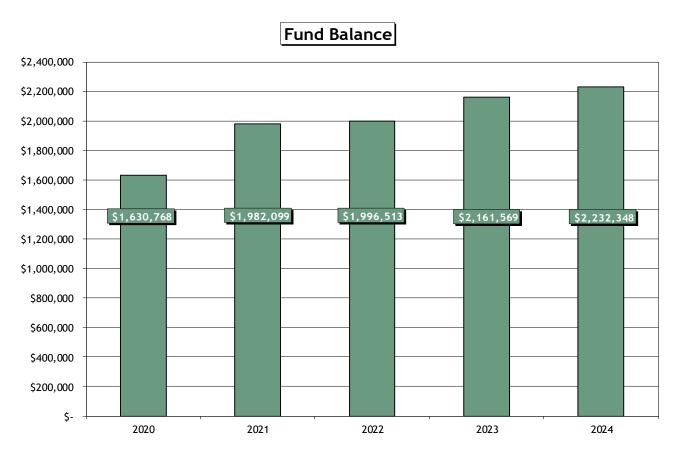


# 2023 General Fund Expenditures



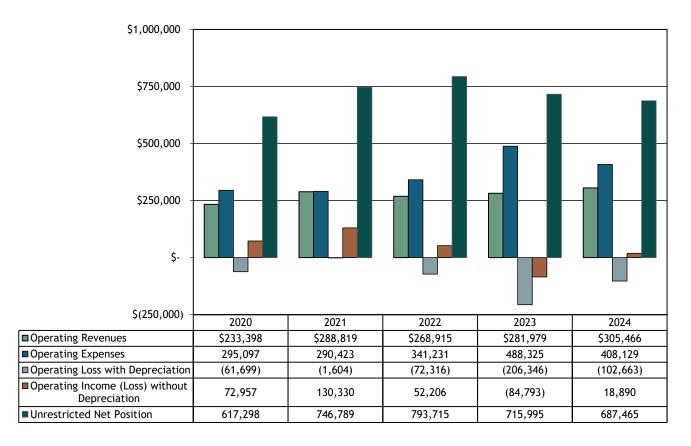
# General Fund - Fund Balance

The graph below shows the General Fund balances for the past five years. Fund balance increased in 2024 due to revenues exceeding expenditures. Total fund balance includes amounts restricted of \$35,218 for public safety purposes. The unassigned fund balance of \$1,904,385 at the end of 2024 represents approximately five months of budgeted 2025 expenditures of \$4,226,448. The City's target General Fund balance is to maintain an unassigned fund balance of an amount not less than 40-50% of the next year's budgeted expenditures of the General Fund. At December 31, 2024, the unassigned fund balance in the General Fund represented 43% of 2025 budgeted expenditures.



# **Sewer Utility Fund**

# Sewer Utility Fund



In 2024, operating revenues increased \$23,487 due to an increase in user availability charges and fees. Operating expenses decreased \$80,196 from 2023 to 2024 with less maintenance costs in 2024. The result of 2024 activity was operating income, without depreciation, of \$18,890. Unrestricted net position decreased \$28,530 from 2023 to 2024.

# City of Independence

# Request for a Conditional Use Permit and Variance to Construct a Ground Mounted Solar System on the Property located at 7949 County Road 11

To: City Council

From: Mark Kaltsas, City Planner

Meeting Date: July 15, 2025

Applicant: Arman Taghizadeh

Property Owner: Mark Moorhouse

Location: 7949 County Road 11

# Request:

Arman Taghizadeh (Applicant) and Mark Moorhouse (Owner) are requesting the following actions for the property located at 7949 and 7855 County Road 11 (PID No.s 09-118-24-22-0004 and 09-118-24-22-0005) in the City of Independence, MN.

- a. A conditional use permit (CUP) to allow a ground mounted solar system which is greater than 500 SF.
- b. A variance to allow the ground mounted solar system to be located less than 100' from the side property line. The applicant owns both of the properties on either side of the property line.

# Property/Site Information:

The property is located on the south side County Road 11 and just west of the intersection of County Road 92 and County Road 11. The property has an existing home and several detached accessory structures. The property has the following characteristics:

Property Information: 7949 and 7855 County Road 11

Zoning: Agriculture

Comprehensive Plan: Agriculture Acreage: 40 acres/40 acres



# Discussion:

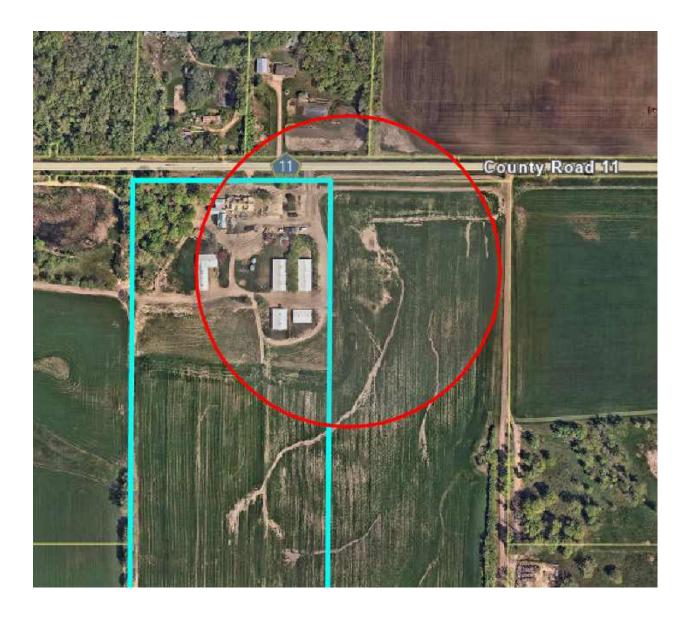
The applicant approached the City about the possibility of installing a ground mounted solar system on the subject property. The City provided the applicant with the requirements and discussed the process for considering ground mounted solar systems that exceed 500 SF. All ground mounted solar systems require a conditional use permit. Ground mounted solar systems are limited to a maximum square footage of 500 square feet but can now be expanded up to a total of 2,500 SF if additional criteria are satisfied by the applicant. Ground mounted solar systems have the following requirements:

- <u>Subd. 5. Ground-Mounted Solar Energy Systems</u> shall conform to the following standards:
  - (a) Ground-mounted systems shall only be allowed on a parcel with an existing principal structure.
  - (b) Ground-mounted systems shall be located only in rear or side yards.
  - (c) Ground-mounted systems shall not be located in the Shoreland Overlay District.
  - (d) Ground-mounted systems shall be wholly screened from view from the public right of way and adjacent residential structures. Methods for screening shall include berming, fencing, landscaping and/or combination thereof.
  - (e) Ground-mounted systems shall be located on a parcel of at least 2.5 acres.
  - (f) Ground-mounted systems shall have a maximum area of 500 SF.
  - (g) Ground mounted systems shall be setback a minimum of 50 feet from all property lines.
  - (h) The maximum height for any component of the system shall be 15 feet.
  - (i) Ground-mounted systems shall be in compliance with any applicable local, state and federal regulatory standards, including building, electrical and plumbing codes.
  - Ground-mounted systems and their support structures shall be designed by a certified professional to meet applicable professional standards for the local soil and climate conditions.
  - (k) The city may permit a ground mounted solar energy system which exceeds 500 SF, if the following additional criteria are wholly satisfied:
    - 1. The ground mounted solar system does not exceed 2,500 SF.
    - 2. The ground mounted solar energy system is located on a property that is 5 acres or larger.
    - 3. The ground mounted solar energy system shall be located a minimum of 100 LF from any property line and 500 LF from any residential structure on an adjoining property.
  - (I) The city will also consider the following additional criteria to determine if a ground mounted solar energy system will be permitted to exceed the maximum size limitations established in this code:

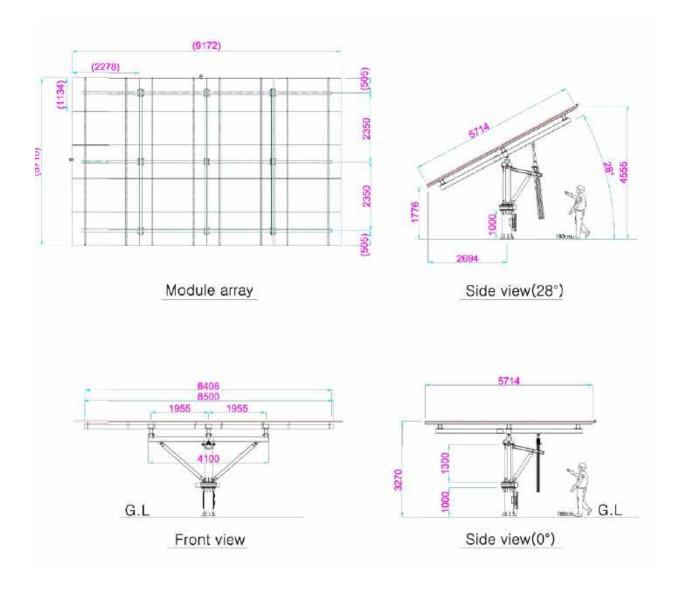
- 1. The ground mounted solar energy system is not visible from any public street or from adjacent properties. Screening can be used to meet this standard.
- 2. The applicant has provided with the application, the written consent of the owners of privately or publicly owned real estate directly abutting the premises for which the permit is being requested.
- The city finds that granting permission for a ground mounted solar energy system, that exceeds 500 SF, will not be detrimental to the public or take away from the reasonable use and enjoyment of the surrounding property.

The proposed ground mounted solar system would be located on a portion of the property that is to the south and east of the existing home. The proposed solar system would be comprised of four (4) ground mounted tracking solar arrays. The total square footage of each array is 561 SF for a total of 2,244 SF. The arrays are proposed to be located on one of the applicants' multiple properties (7855 County Road 11) which is directly east of the subject property. The applicant owns approximately 375 acres in this area, most of which is contiguous. Due to the location of the proposed arrays on the adjacent property, the applicant cannot meet the requisite 100-foot setback from the property line separating their two properties. The closest of the four (4) proposed solar arrays would be approximately 15-20 feet from the property line that currently separates the two parcels. The panels are proposed to meet all other setbacks and would be located approximately 250 feet from County Road 11 (north) property line, 475 feet from the east property line and more than 2,000 feet to the south property line. The required setback from any property line is 100 feet.

The proposed array is also required to be located a minimum of 500 feet from any residential structure on a surrounding property. The proposed array would be located approximately 685 feet from the residential property to the northwest (across CSAH 11) and 715 feet from the residential structure to the north (across CSAH 11 - see image below showing 500-foot radius).



The proposed ground mounted system would have a maximum height of approximately 15' when the trackers are raised to a 28-degree angle. This would be the maximum angle that the trackers could be positioned without exceeding the 15-foot height limitation (see below). The city will want to ensure that the maximum height is not exceeded. Additional discussion and or conditions may need to be considered to ensure compliance with this provision.



The City requires ground mounted solar systems to be wholly screened from view of the public right of way and adjacent residential structures. The applicant is proposing to install a combination of an earthen berm and landscaping to screen the proposed solar arrays from surrounding views. The applicants plan shows two berms and associated landscaping to the north (between the proposed arrays and CSAH 11). A lower berm (approximately 5 feet tall) with landscaping is shown along CSAH 11 frontage. A second taller berm (approximately 10 feet tall is shown directly north of the proposed solar arrays (see attached grading and landscape plans). The distance from the proposed solar arrays to the County Road 11 right of way is approximately 250 feet.

View Looking SE Towards Property from CSAH 11



The applicant has provided the City with a site plan and details of the proposed solar system. The system is comprised 64 panels. The panels are designed to track the sun throughout the day/year and would have a variety of orientations. The tracking system is proposed to be secured to the ground using pilings.

The criteria for granting a conditional use permit are clearly delineated in the City's Zoning Ordinance (Section 520.11 subd. 1, a-i) as follows:

- 1. The conditional use will not adversely affect the health, safety, morals and general welfare of occupants of surrounding lands.
- 2. The proposed use will not have a detrimental effect on the use and enjoyment of other property in the immediate vicinity for the proposes already permitted or on the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. Existing roads and proposed access roads will be adequate to accommodate anticipated traffic.
- 4. Sufficient off-street parking and loading space will be provided to serve the proposed use.
- 5. The proposed conditional use can be adequately serviced by public utilities or on-site sewage treatment, and sufficient area of suitable soils for on-site sewage treatment is available to protect the city form pollution hazards.
- 6. The proposal includes adequate provision for protection of natural drainage systems, natural topography, tree growth, water courses, wetlands, historic sites and similar ecological and environmental features.
- 7. The proposal includes adequate measures to prevent or control offensive odor, fumes, dust, noise, or vibration so that none of these will constitute a nuisance.
- 8. The proposed condition use is consistent with the comprehensive plan of the City of Independence.
- 9. The proposed use will not stimulate growth incompatible with prevailing density standards.

The proposed ground mounted solar system exceeds the City's maximum size for ground mounted solar systems; however, the city adopted provisions to allow systems to exceed 500 SF if additional conditions can be satisfied by the applicant. It should be noted that the tracking arrays would only be a portion of the total solar installed on this property. The applicant is also proposing roof mounted solar on one of the detached accessory structures. The combined energy

generated by this system is estimated to be 120kW (AC). The applicant has noted that the proposed system will generate enough electricity to support the electrical loads of the existing residence, and some of the farm operations and accessory buildings. There are a few additional considerations that should be noted by the City:

- The City recently updated the solar energy ordinance to allow for ground mounted systems that are larger than 500 SF if they can meet the additional criteria provided. The applicant has demonstrated that they can meet the additional criteria.
- The proposed system meets the prescribed setbacks and maximum height requirements of
  the zoning ordinance with the exception of the side property line setback previously
  noted. The applicant has stated that they own the adjacent property. It should also be
  noted that the applicant has been discussing the combination of several of their
  properties.
- The location of the solar tracking arrays would currently be visible from CSAH 11 and several of the surrounding properties. The requirements relating to screening state the following:

The ground mounted solar energy system is not visible from any public street or from adjacent properties.

The applicant is proposing to construct a larger berm to the north of the proposed tracking arrays as well as complete the installation of landscaping on the existing berm along CSAH 11. The combination of the additional berm and landscaping should help to mitigate the visibility of the proposed solar arrays. The city requires the solar arrays to be wholly screened from view. The applicant has provided additional graphics (attached) which are intended to show how the proposed berming and screening would look from various vantage points on CSAH 11 or adjacent properties. The city will need to review this information and determine if the proposed screening achieves the requirements set forth in the ordinance.

• The applicant did not provide any written consent from surrounding property owners as they own all adjoining properties. It should be noted that all surrounding properties including those across the street were notified of the public hearing.

The City will need to consider the requested CUP and variance as presented and determine if it meets applicable criteria and can be supported. The orientation of the proposed solar system and the relationship to the surrounding properties helps to aid in the mitigation of potential impacts relating to the ground mounted solar array.

# **Neighbor Comments:**

The city did receive one letter and a phone call from the residents located at 7910 County Road 11. They voiced their opposition to the proposed solar arrays (directly across the street to the north) and frustrations with the amount of construction that has been occurring on the properties.

# Planning Commission Discussion:

Planning Commissioners discussed the application and asked questions of staff and the applicant. Commissioners reviewed the proposed berm and asked the applicant to confirm that the second berm was going to be constructed as shown. The applicant noted that the second berm would be constructed as shown. Commissioners asked about the landscaping along CSAH 11 and it was noted that a portion of the berm on CSAH 11 was already constructed. Commissioners asked the applicant about the height of the proposed solar trackers. The applicant noted that the trackers were being constructed so that they could not be extended beyond the 28-degree angle shown on the plans. At that angle it was noted that the solar trackers would be right at the 15' maximum height. Commissioners asked the applicant to provide additional information/verification from the manufacturer confirming this is the maximum angle that the trackers could be positioned. Commissioners asked the applicant to explain/clarify the large amount of output and delta between AC and DC (120 kW AC, 56.45 kW DC). The applicants engineer noted that the system was designed to include battery storage and would support a large driveway melt system on the property. The applicants engineer noted that the project had been approved by Wright Hennepin Electric. Commissioners discussed the variance and asked the applicant if they could combine the properties. The applicant noted that they were not sure if the owner was going to combine the properties. Commissioners found that the criteria relating to the conditional use permit had been satisfied by the applicant. Commissioners did not believe that the applicant had satisfied the criteria for granting a variance. Commissioners recommended approval of the Conditional Use Permit with a condition that the applicant combine the properties or adjust the lot line to meet all applicable setback requirements.

## Recommendation:

The Planning Commission recommended approval of the request for a conditional use permit with the following findings and conditions:

- 1. The proposed conditional use permit request meets all applicable conditions and restrictions stated in Chapter V, Section 510, Zoning, in the City of Independence Zoning Ordinance.
- 2. The conditional use permit is approved subject to the following:

- a) The applicant shall combine the properties into one parcel or adjust the lot line so that the proposed solar trackers meet all applicable setbacks.
- 3. The conditional use permit will allow a 2,244 SF ground mounted solar system that is installed in accordance The conditional use permit will include the following conditions:
  - a) The conditional use permit will allow a 2,244 SF ground mounted solar system that is installed in accordance with the approved plans attached hereto as Exhibit A.
  - b) All berming and landscaping shown on the approved plans shall be installed and maintained at all times while the CUP remains in compliance on the property. Failure to maintain the landscaping in accordance with the approved plans shall cause the conditional use permit to not be in compliance.
  - c) The ground mounted solar system shall be constructed in accordance with all applicable zoning code, building code and other applicable standards.
  - d) The maximum height of the solar arrays is 15'. This height cannot be exceeded at any time during the life of the system.
- 4. The applicant shall pay for all costs associated with the review and recording of the resolution granting approval of the conditional use permit and variance.

## Attachments:

- 1. Application
- 2. Ground Mounted Solar Site Plan
- 3. Ground Mounted Solar Plans and Details
- 4. Grading Plan
- 5. Illustrative Screening Exhibits



# RESOLUTION OF THE CITY OF INDEPENDENCE HENNEPIN COUNTY, MINNESOTA

# **RESOLUTION NO. 25-0715-01**

# A RESOLUTION GRANTING APPROVAL OF A CONDITIONAL USE PERMIT TO ALLOW A GROUND MOUNTED SOLAR SYSTEM THAT EXCEEDS 500 SQUARE FEET (2,244 SF) AS REQUESTED FOR THE PROPERTY LOCATED AT 7949 COUNTY ROAD 11

WHEREAS, the City of Independence (the "City) is a municipal corporation under the laws of Minnesota; and

WHEREAS, the City adopted a comprehensive plan in 2022 to guide the development of the community; and

WHEREAS, the City has adopted a zoning ordinance and other official controls to assist in implementing the comprehensive plan; and

WHEREAS, Arman Taghizadeh ("Applicant") Mark Moorhouse ("Owner") submitted a request for a conditional use permit to allow a ground mounted solar system that exceeds 500 SF on the property located 7949 CSAH 11 (PID No.s 09-118-24-22-0004 and 09-118-24-22-0005 (the "Property"); and

WHEREAS, the Property is legally described on **EXHIBIT** A, attached hereto; and

WHEREAS, the Property is zoned Agriculture; and

WHEREAS the requested Conditional Use Permit meets all requirements, standards and specifications of the City of Independence zoning ordinance for Agriculture lots; and

WHEREAS the Planning Commission held a public hearing on June 24, 2025 to review the application for a conditional use permit, following mailed and published noticed as required by law; and

WHEREAS, the City Council has reviewed all materials submitted by the Applicant; considered the oral and written testimony offered by the applicant and all interested parties; and has now concluded that the application is in compliance with all applicable standards and can be considered for approval; and

Fax: 763.479.0528

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INDEPENDENCE, MINNESOTA, that it should and hereby does approve the application by Mark Moorhouse for a conditional use permit to allow a ground mounted solar system that exceeds 500 SF on the property per the City's zoning regulations and with the findings provided within this resolution.

- 1. The proposed conditional use permit request meets all applicable conditions and restrictions stated in Chapter V, Section 510, Zoning, in the City of Independence Zoning Ordinance.
- 2. The conditional use permit is approved subject to the following:
  - a) The applicant shall combine the properties into one parcel or adjust the lot line so that the proposed solar trackers meet all applicable setbacks.
  - b) The applicant shall submit verification/information confirming that the proposed solar trackers cannot be tilted/extended to a height that is greater than 15 feet.
- 3. The conditional use permit will allow a 2,244 SF ground mounted solar system that is installed in accordance The conditional use permit will include the following conditions:
  - a) The conditional use permit will allow a 2,244 SF ground mounted solar system that is installed in accordance with the approved plans attached hereto as Exhibit A.
  - b) All berming and landscaping shown on the approved plans shall be installed and maintained at all times while the CUP remains in compliance on the property. Failure to maintain the landscaping in accordance with the approved plans shall cause the conditional use permit to not be in compliance.
  - c) The ground mounted solar system shall be constructed in accordance with all applicable zoning code, building code and other applicable standards.
  - d) The maximum height of the solar arrays is 15'. This height cannot be exceeded at any time during the life of the system.
- 4. The applicant shall pay for all costs associated with the review of the conditional use permit and variance and recording of the resolution granting approval of the conditional use permit.
- 5. The conditional use permit shall be recorded with Hennepin County.

15 <sup>th</sup> day of	This resolution was adopted June 2025, by a vote of	•	Council of the City of Independence on thisnays.
	ATTEST:		Brad Spencer, Mayor
	Mark Kaltsas, City Admini	strator	_

# **EXHIBIT A**

(Legal Description)

The West 68 5. 32 feet of the West Half of the Northwest Quarter of Section 9, Township 118, Range 24, Hennepin County, Minnesota.

# **EXHIBIT B**

(Approved Plans)

(Attached)



Date Submitted: 05-08-2025

**Applicant Information Owner Information** 

Name: arman taghizadeh Name: Mark Moorhouse

Address: 3401 Nevada Ave N
Address: 7949 County Rd 11

Minneapolis, Minnesota
55427

Minneapolis, Minnesota
Independence, Minnesota 5533

Primary Phone: 6128039000 Primary Phone: 7633545635

Email: solar@apadanatechnology.com Email: mmoorhouse@dominiuminc.c

Property Address:

PID:

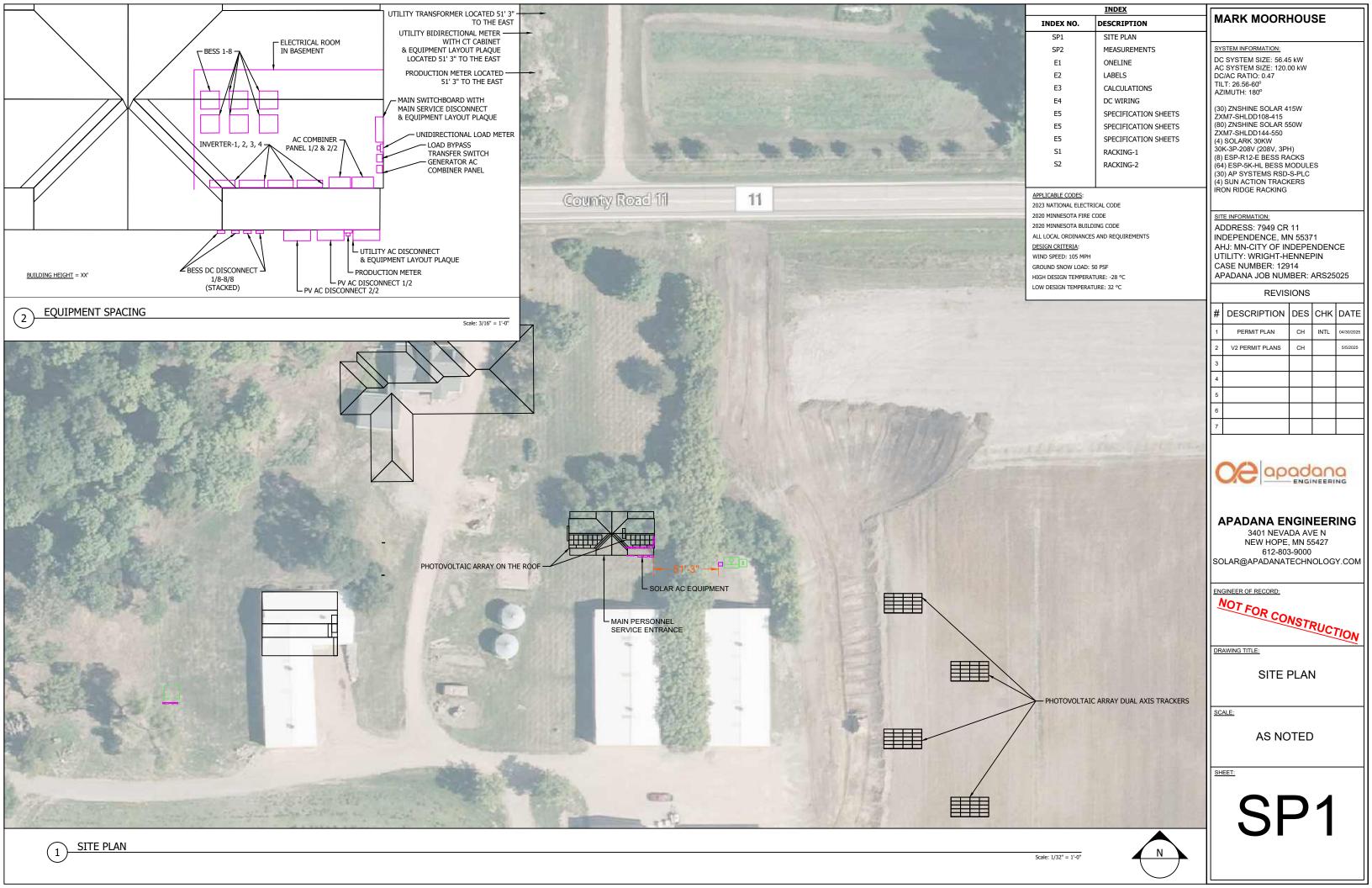
Planning Application Type: Conditional Use Permit

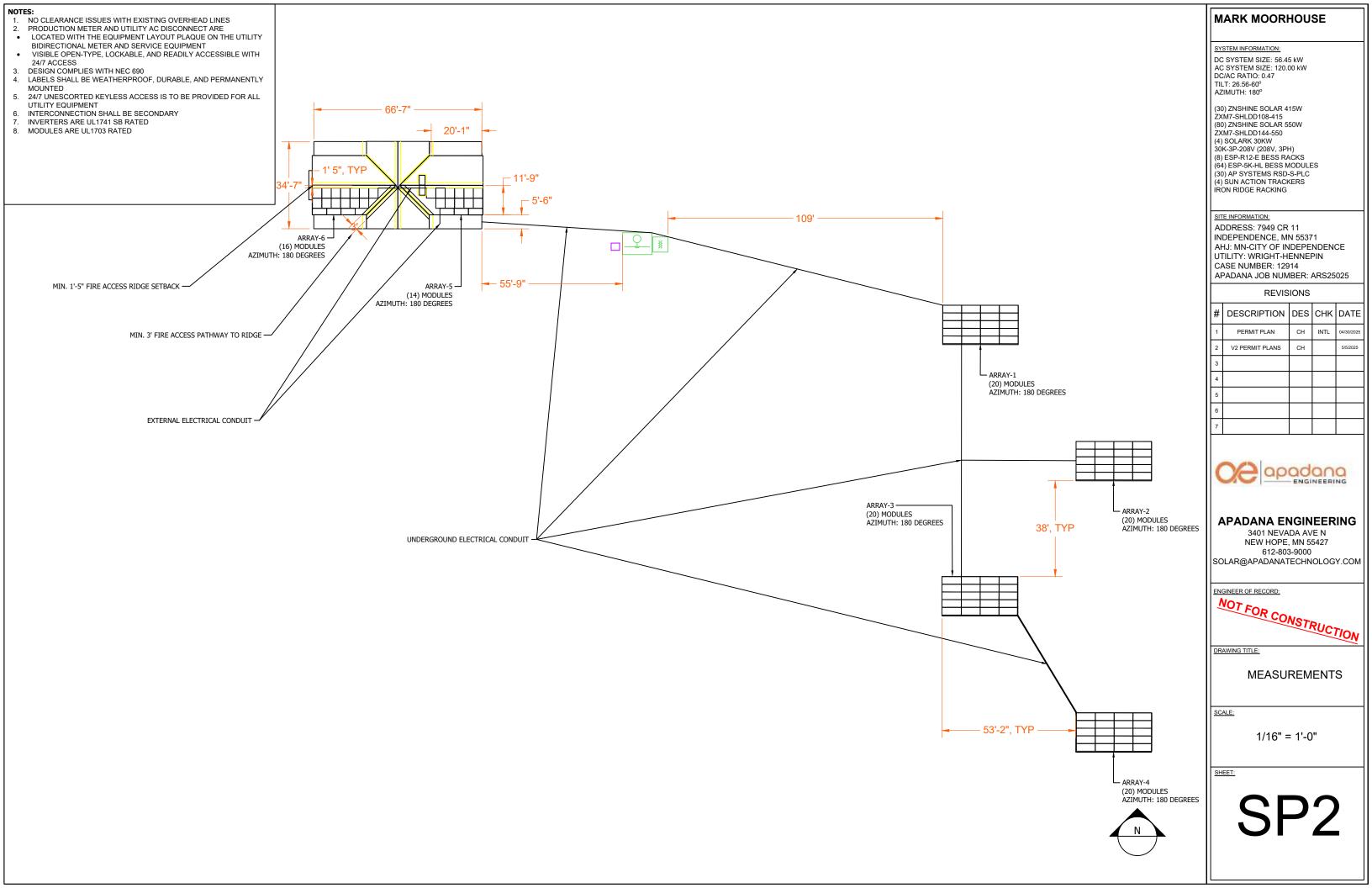
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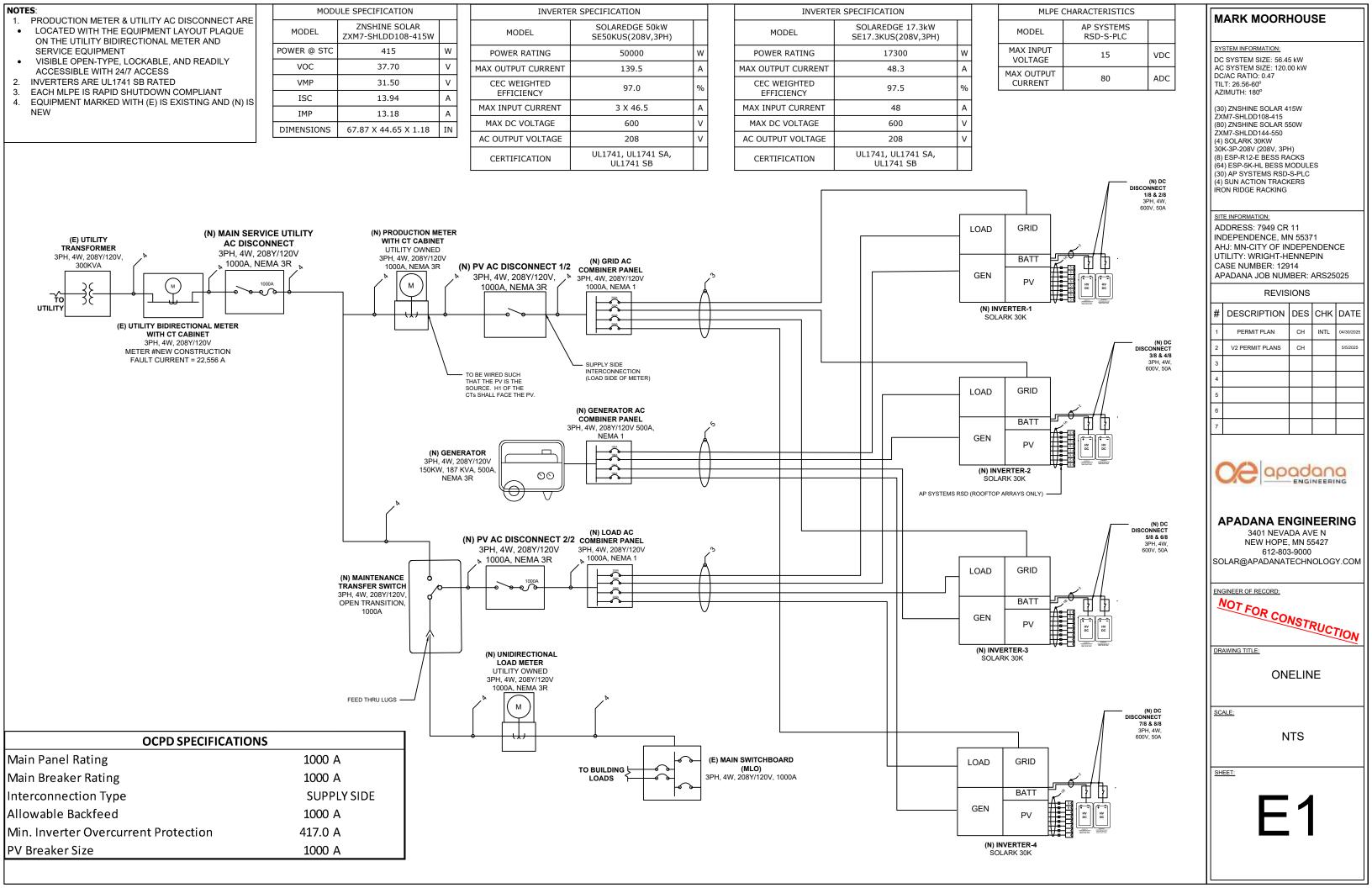
Description:

Supporting Documents: Site Survey (Existing Conditions), Site Survey (Proposed Conditions), Building Plans, Construction Plans, Preliminary/Final Plan

Signature:







# **UTILITY AC DISCONNECT**

LABEL LOCATION UTILITY AC DISCONNECT [PER CODE: NEC690.13(B)]

# **PV AC DISCONNECT**

LABEL LOCATION PV AC DISCONNECT [PER CODE: NEC690.13(B)]

# **PRODUCTION METER**

LABEL LOCATION PRODUCTION METER

[PER CODE: NEC690.13(B)]

# **UTILITY BIDIRECTIONAL METER**

LABEL LOCATION

UTILITY BIDIRECTIONAL METER [PER CODE: NEC690.13(B)]

# **PV UTILITY AC DISCONNECT 1/2**

LABEL LOCATION

PV UTILITY AC DISCONNECT 1/2 [PER CODE: NEC690.13(B)]

# **PV UTILITY AC DISCONNECT 2/2**

LABEL LOCATION

PV UTILITY AC DISCONNECT 2/2 [PER CODE: NEC690.13(B)]

# **ESS DC DISCONNECT 1/8**

LABEL LOCATION

ESS AC DISCONNECT 1/8-8/8 [PER CODE: NEC690.13(B)]

# MAXIMUM DC VOLTAGE OF PV SYSTEM 550 VDC

LABEL LOCATION INVERTER(S)

[PER CODE: NEC690.7(D)]

PHOTOVOLTAIC SYSTEM AC DISCONNECT RATED OPERATING CURRENT 800 AMPS AC NOMINAL OPERATING VOLTAGE 208 VAC

LABEL LOCATION

UTILITY AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC690.13(B)]

**DO NOT RELOCATE THIS OVERCURRENT DEVICE** 

LABEL LOCATION

MAIN SERVICE AC DISCONNECT, POINT OF INTERCONNECTION [PER CODE: NEC705.12(B)(2)]

> MAXIMUM DC VOLTAGE OF ESS SYSTEM: 409.6 VDC

LABEL LOCATION INVERTER(S)

[PER CODE: NEC690.7(D)]

# **SOLAR PV SYSTEM EQUIPPED** WITH RAPID SHUTDOWN URN RAPID SHUTDOWN

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



LABEL LOCATION POINT OF INTERCONNECTION [PER CODE: NEC690.12(D)]

> **WARNING: PHOTOVOLTAIC POWER SOURCE**

**LABEL LOCATION** CONDUIT, COMBINER BOX [PER CODE: NEC690.4(F)]

**RAPID SHUTDOWN** SWITCH FOR SOLAR PV **SYSTEM** 

LABEL LOCATION INVERTER(S), POINT OF INTERCONNECTION [PER CODE: NEC690.12(D)(1)]

**WARNING: DUAL POWER SUPPLY** SOURCES: UTILITY GRID AND SOLAR **PV SYSTEM AND ESS** 

LABEL LOCATION POINT OF INTERCONNECTION [PER CODE: NEC705.12(B)(3)]

# **SOLAR PV DC CIRCUIT**

LABEL LOCATION

AT LEAST EVERY 10 FT & AT TURNS ON ALL DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, ABOVE/BELOW PENETRATIONS, AT COMBINER(S), AND AT JUNCTION BOXES [PER CODE: NEC690.31(D)(2)]

**WARNING:** PHOTOVOLTAIC SYSTEM **COMBINER PANEL** DO NOT ADD LOADS LABEL LOCATION

AC COMBINER PANEL [PER CODE: NFPA 11.12.2.1.1]

# CAUTION: /! MULTIPLE SOURCES OF POWER WITH DISCONNECTS LOCATED AS SHOWN: MAIN SERVICE DISCONNE (ELECTRICAL ROOM) $\angle$ ESS DC DISCONNECT 1-8 $\angle$ UTILITY AC DISCONNECT MATN PERSONNEL SERVICE ENTRANCE PV UTILITY AC - PRODUCTION METER DISCONNECT 1/2 & 2/2 UTILITY BIDIRECTIONAL METER 50' EAST — 7949 CR 11, INDEPENDENCE, MN 55371

UTILITY AC DISCONNECT, MAIN SERVICE DISCONNECT, UTILITY BIDIRECTIONAL METER [PER CODE: NEC705.10]

BE WEATHERPROOF, DURABLE, AND PERMANENTLY MOUNTED

# ALL PLACARDS SHALL

# **MARK MOORHOUSE**

SYSTEM INFORMATION:

DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW DC/AC RATIO: 0.47 TILT: 26.56-60°

(30) ZNSHINE SOLAR 415W ZXM7-SHLDD108-415 (80) ZNSHINE SOLAR 550W ZXM7-SHLDD144-550 (4) SOLARK 30KW 30K-3P-208V (208V, 3PH) (8) ESP-R12-E BESS RACKS (64) ESP-5K-HL BESS MODULES (30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS RON RIDGE RACKING

SITE INFORMATION:

ADDRESS: 7949 CR 11 INDEPENDENCE, MN 55371 AHJ: MN-CITY OF INDEPENDENCE UTILITY: WRIGHT-HENNEPIN CASE NUMBER: 12914 APADANA JOB NUMBER: ARS25025

**REVISIONS** 

#	DESCRIPTION	DES	CHK	DATE
1	PERMIT PLAN	СН	INTL	04/30/2025
2	V2 PERMIT PLANS	СН		5/5/2025
3				
4				
5				
6				
7				



# APADANA ENGINEERING

3401 NEVADA AVE N NEW HOPE, MN 55427 612-803-9000 SOLAR@APADANATECHNOLOGY.COM

ENGINEER OF RECORD:



DRAWING TITLE:

**LABELS** 

SCALE:

NTS

	CONDUIT SCHEDULE				
Tag ID	Conduit Size RAYTRAY OR 3/4"	Conductor	Neutral	Ground	
1	PVC SCHED 40 OR 3/4" EMT	(8) 10 AWG PV WIRE 2K	NONE	(1) 10 AWG CU THHN	
2	1"EMT OR EQUIV	(2) 8 AWG CU THHN	NONE	(1) 8 AWG CU THHN	
3	1 1/2"EMT OR EQUIV	(3) 3/0 CU THHN	(1) 1/0 AWG CU THHN	(1) 6 AWG CU THHN	
4	2 1/2" EMT OR EQUIV	3 SETS OF (3) 300 KCMIL CU THHN	3 SETS OF (1) 1/0 AWG CU THHN	(1) 2/0 KCMIL CU THHN	
5	1 1/4" EMT OR EQUIV	(3) 3 AWG CU THHN	(1) 8 AWG CU THHN	(1) 8 AWG CU THHN	

DC CABLE	SCHEDULE															
					CIRCUIT MAX						NUMBER OF	CONDUCTOR				
					AMPACITY					AMBIENT	CONDUCTORS	ALLOWABLE				
		MAXIMUM			(CURRENT *			NEC 75C	NEC 90C	TEMP	IN CONDUIT	AMPACITY WITH				CONDUIT FILL
TAG		CURRENT	VOLTAGE	LENGTH	1.25)	OCPD SIZE	WIRE SPECIFICATIONS	CABLE	CABLE	CORR.	CORR.	CORR. FACTOR NEC	AMPACITY	VOLTAGE		PERCENTAGE
	DESCRIPTION	(A)	(V)	(FT)	NEC 690(B)(1)	(A)	(CONDUCTOR, GROUND)	AMPACITY		FACTOR	FACTOR	690(B)(2)	CHECK	DROP (%)	CONDUIT SIZE	(%)
IDEITITIER	TRACKER 1	(/ //	(*/	(117	1420 030(0)(1)	(7)	(consecrent, and ons)	7.1111716111	7.11117.10111	TACTOR	17teron	030(0)(2)	CHECK	Bittor (70)	COMPON SIZE	(70)
	STRINGS	17.36	550	100	21.7	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	1.08%	RAYTRAY	NA
	1.1.1-1.2.2	17.50	550	100	21.7	25	(2) 10AWG 1 V WINE 2K, (1) 10AWG CO 11111V	33	-0	0.50	1.00	30.4	GOOD	1.0070	MALIMAI	l NA
	TRACKER 2															
	STRINGS	17.36	550	100	21.7	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	1.08%	RAYTRAY	NA
	1.3.1-1.4.2	17.30	330	100	21.7	25	(2) IDAWG PV WIRE 2K, (1) IDAWG CO THHIN	33	40	0.96	1.00	36.4	GOOD	1.06%	NATINAT	INA
	TRACKER 3															
		17.20		100	24.7	25	(2) 10 AMC DV MIDE 2K (1) 10 AMC CH THIN	25	40	0.06	1.00	20.4	COOD	1.000/	DAVTDAV	N/A
	STRINGS	17.36	550	100	21.7	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	1.08%	RAYTRAY	NA
	2.1.1-2.2.2															
	TRACKER 4	47.06		400	24.7	25	(2) 40 414 6 21 414 7 5 6 7 (4) 40 414 6 6 11 7 11 11	9.5	40	0.00	1.00	20.4		4.000/	D 41/TD 41/	
	STRINGS	17.36	550	100	21.7	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	1.08%	RAYTRAY	NA
	2.3.1-2.4.2															
	GARAGE															
	STRINGS	17.43	550	20	21.8	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	0.22%	RAYTRAY	NA
	3.1.1-3.1.2															
	GARAGE															
	STRINGS	17.43	550	40	21.8	25	(2) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	1.00	38.4	GOOD	0.43%	RAYTRAY	NA
	4.1.1-4.1.2															
	DC RUN															
	FROM														3/4" PVC SCHED	
1A	TRACKER 1	17.4	550	166	21.7	25	(8) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	0.70	26.9	GOOD	0.22%	40	36.09%
	то														10	
	INVERTERS															
	DC RUN															
	FROM															
1B	GARAGE	17.43	550	30	21.8	25	(8) 10AWG PV WIRE 2K, (1) 10AWG CU THHN	35	40	0.96	0.70	26.9	GOOD	0.041%	3/4"EMT	36.09%
	ROOF TO															
	INVERTERS															
	DC RUN															
2	FROM	40.00	410		50.0	F0	(A) CANCOLL THUNK (A) CANCOCK THURS			0.06	0.00	42.2	6000	0.5700/	4 11 5 8 4 7	22.440/
2	BATTERY TO	40.00	410	30	50.0	50	(4) 8AWGCU THHN, (1) 8AWG CU THHN	50	55	0.96	0.80	42.2	GOOD	0.570%	1"EMT	33.41%
	DISCONNECT															
	TO INVERTER															
								· · · · · · · · · · · · · · · · · · ·	•			AVERAGE DC VOL	TAGE DROP %	0.65%		

AVERAGE DC VOLTAGE DROP % 0.65% MAXIMUM DC VOLTAGE DROP % 1.08%

# MARK MOORHOUSE

SYSTEM INFORMATION:

DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW DC/AC RATIO: 0.47 TILT: 26.56-60° AZIMUTH: 180°

(30) ZNSHINE SOLAR 415W ZXM7-SHLDD108-415 (80) ZNSHINE SOLAR 550W ZXM7-SHLDD144-550 (4) SOLARK 30KW 30K-3P-208V (208V, 3PH) (8) ESP-R12-E BESS RACKS (64) ESP-5K-HL BESS MODULES (30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS IRON RIDGE RACKING

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REVISIONS

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3				
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6				
7				



# **APADANA ENGINEERING**

3401 NEVADA AVE N NEW HOPE, MN 55427 612-803-9000 SOLAR@APADANATECHNOLOGY.COM

ENGINEER OF RECORD:



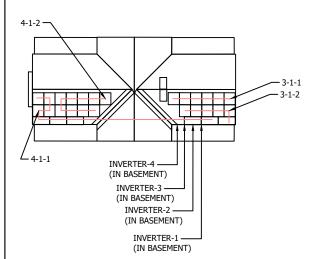
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CALCULATIONS

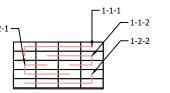
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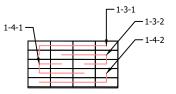
NTS

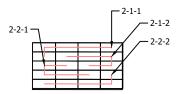


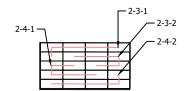












	LEGEND	
STRING (INV-UNIT-INPUT)	MODULE QUANTITY	STRING VOLTAGE MEASUREMENT
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1-1-2	5	
1-2-1	5	
1-2-2	5	
1-3-1	5	
1-3-2	5	
1-4-1	5	
1-4-2	5	
	LEGEND	
STRING (INV-UNIT-INPUT)	MODULE QUANTITY	STRING VOLTAGE MEASUREMENT
2-1-1	5	
2-1-2	5	
2-2-1	5	
2-2-2	5	
2-3-1	5	
2-3-2	5	
2-4-1	5	
2-4-2	5	
	LEGEND	
STRING (INV-UNIT-INPUT)	MODULE QUANTITY	STRING VOLTAGE MEASUREMENT
3-1-1	6	
3-1-2	6	
3-2-1	0	
3-2-2	0	
3-3-1	0	
3-3-2	0	
3-4-1	0	
3-4-2	0	
	LEGEND	
STRING (INV-UNIT-INPUT)	MODULE QUANTITY	STRING VOLTAGE MEASUREMENT
4-1-1	9	
4-1-2	9	
4-2-1	0	
4-2-2	0	
4-3-1	0	
4-3-2	0	
4-4-1	0	
4-4-2	0	

# MARK MOORHOUSE

SYSTEM INFORMATION:

DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW DC/AC RATIO: 0.47 TILT: 26.56-60° AZIMUTH: 180°

(30) ZNSHINE SOLAR 415W ZXM7-SHLDD108-415 (80) ZNSHINE SOLAR 550W ZXM7-SHLDD144-550 (4) SOLARK 30KW 30K-3P-208V (208V, 3PH) (8) ESP-R12-E BESS RACKS (64) ESP-5K-HL BESS MODULES (30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS IRON RIDGE RACKING

SITE INFORMATION:

ADDRESS: 7949 CR 11 INDEPENDENCE, MN 55371 AHJ: MN-CITY OF INDEPENDENCE
UTILITY: WRIGHT-HENNEPIN CASE NUMBER: 12914 APADANA JOB NUMBER: ARS25025

# REVISIONS

#	DESCRIPTION	DES	СНК	DATE
1	PERMIT PLAN	СН	INTL	04/30/2025
2	V2 PERMIT PLANS	СН		5/5/2025
3				
4				
5				
6				
7				



# **APADANA ENGINEERING**

3401 NEVADA AVE N NEW HOPE, MN 55427 612-803-9000 SOLAR@APADANATECHNOLOGY.COM

ENGINEER OF RECORD:

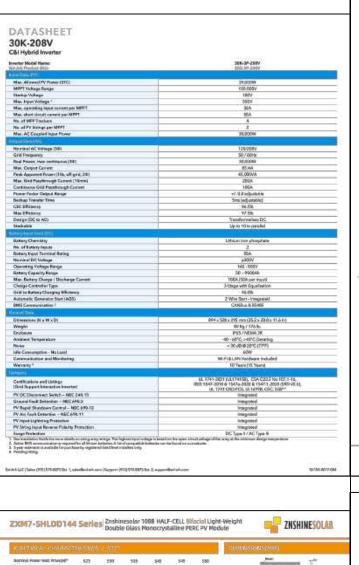


DRAWING TITLE:

DC WIRING

SCALE:

1/16" = 1'-0"





The same of 10000-000 ----Service Service PRINCIPAL TOTAL Fight Variety **ELECTRICAL DIABACTERISTICS 1 SYC\*** INDOUNDEAL BATA Nominal Previor Nata Personal 189 - Made of Name Control (Name of Name of 36.90 27.96 27.36 27.16 27.76 Glass Open Coult ledage Vec(VI 2.6 mm-2.6mm, High Transmission, AR Coated Heat Strongstered (Seco Well resolution 1946 1176 1176 1176 1176 1176 person for the contract of the c 38.65 28.41 36.64 38.60 31.17 Catho only only and analytical transported to the Constitution of Co ELECTRICAL CHARACTERISTICS | WHO'P Made and Mary Mary Mary 1 1816 1816 1816 1816 1816 Manual Accordance (1916-1916) Construction of Contract Construction (1916-1916) Maximum Roses Garant Recept 18.39 18.41 18.47 18.59 18.68 Temperature coefficient of Vot. 45.89% Maximum lesses face. Specific Control (1997) And Artist And Artist And Artist And September (1997) September (1997) TEAM TEAM 15.13 15.38 TEAM BURGERBURGERS No.10% See Sin Return Selecteding Up to 240074 THE PRODUCT AND ADDRESS OF THE PRODUCT OF THE PRODU set se on on the Healthon TOTAL PROPERTY AND THE THE TAX mark/hadi 27-86 27.26 37.46 27.60 27.60 automobiologistical VALVETHALL its: Specifications included in this describes are subject to change reflect resists, PGRMI inserted the right of final insurpraces 6 2001 NESCA 4 2023 1 Version, 2007-64,00 106 200 in control of the change of th

ZXM7-SHLDD108 Series Znshinesolar 1088 HALF-CELL Bifacial Double Glass Monocrystalline PERC PV Module

**ZNSHINESOLAR** 

# ZXM7-SHLDD144 Series 🚅 ZNSHINESOLAR Znshinesolar 1088 HALF-CELL Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module 525W | 530W | 535W | 540W | 545W | 550W Excellent cells efficiency



12 years product guarantee 30 years output guarantee

0.45% annual degradation over 30 years

Global, Tier 1 bankable brand, with independently

filed state-of-the-art automated manufacturing.

**Excellent Quality Managerment System** 

Warrented reliability and stringent quality assurances

Up to 25% additional power gain from back alde depending

well beyond certified requirements.

Bifacial Technology

TIER 1



NO 100 00 00 00 00 Moss PEFC (88 (8426) Talepart - 18 ° C September 18 ° C Billi 2.6 miles 2.6 miles 2.6 miles (Valoramination), All Coatest New New York ----P.M. Scholer indicate of the 4 mm<sup>2</sup>, 350 mm Machiner spreet solvege 219-29- Halmagraphico 2016 quellamona



Received in 1995, 20/Stone solar to exemple handing high-lect PV mediate manufacturen Will the elevance productives lines, the company beasts modula capable of 490%. Elevance place interest and place from 1 MV mediate marker, boday Evaluate has distributed its sales to make than 40 capables are

Excellent Quality Managerment System

beyond certified requirements.

Warranted reliability and stringerst quality assurances well

TIER 1

E

Global Tier 1 beniebte brand with independently cartified

Up to 25% additional power gain from back side depending

advanced automated manufacturing.

Bifacial Technology

Fully-Integrated Battery Energy Storage Systems



	Nominal Voltage	51.2 V
	Working Voltage	48 V - 57.6 V
	Nominal Battery Energy	5 kWh
	Peak Power	5 kW 3s
	Max. Continuous Discharge Rate	3 kW
	Max. Continuous Charge Rate	3 kW
	Max, Battery Bank Size	80 kWh per string (16 packs per string)
	Max. Battery System Capacity	640 kWh per system (8 strings with 16 packs each)
	Recommended C rate	0.5 C
No.	Max. Charge & Discharge Current	60 A
	Round Trip Efficiency	97%
	Recommended DoD	90%
ference.	Charge Temperature Range	32 °F to 122 °F (0 °C to 50 °C)
met.	Discharge Temperature Range	14 °F to 131 °F (-10 °C to 55 °C)
	Life Cycles	6000
	Protection Level	IP20
	Size L x W x H	17.40 x 19.70 x 5.24 in (442 x 500 x 133 mm)
	Weight	101.413 lb (46.00 kg)
	Battery Type	Lithium Iron Phosphate (LFP)
	Warranty	10/Year
	Compliance	UL1973, UL9540A, UL9540, OGPe, SGIP and CEC listed.

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Battery Packs in Series	1	2	.3	4	5	6	7.
Storage Capacity	100 Ah	100 Ah	1007Ah	100 Ah	100 Ah	100 Ah	100 Ah
Working Voltage	46V-56V	96V-112V	144V-168V	192V-224V	240 V - 280 V	288 V-336 V	336 V - 392 V
Nominal Energy	5 (Wh)	1016Wh	15 kWh	20 kWh	25 kWh	3016Wh	35 kWh.
Wright (b)	4256lb	527 lb	628.4 lb	729.9 lb	831.3 b	932.7 lb	1034.1 lb
Weight (kg)	193kg	239 kg	285 kg	331 kg	377 kg	423 kg	469 kg
Configurations							
Battery Packs in Series	8	9	10	11	12	13	
Storage Capacity	100 Ah	100 Ah	100 Ah	100 Ah	100 Ah	100 Ah	
Working Voltage	364V - 445V	432V-504V	480V-560V	528V-616V	576 V-672 V	624V-728V	

515 kg 561 kg 607 kg 653 kg 699 kg 745 kg OUTLAST, OUTPERFORM, ENDUR" IT ALL.

1338.4 lb 1439.9 lb 1541.3 lb 1642.7 lb

Rev. A 09/07/29

ESP-R12-E

ESP

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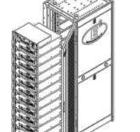
1135.6 lb 1237 lb

Nominal Energy 40 kWh 45 kWh 50 kWh 55 kWh 60 kWh 65 kWh



Configurations								
Battery Packs in Parallel	1	2	3	4	5	. 6	7	
Storage Capacity	100Ah	200 Ah	300 Ah	400 Ah	500 Ah	600 Ah	700 Ah	
Working Voltage	48V-56V	48V-56V	48V-55V	48V-56V	48V-56V	48V-56V	48V - 56V	
Nominal Energy	5 kWh	10 kWh	15 kWh	20 kWh	258Wh	30 kWh	35 kWh	
Weight (b)	425.6 lb	5271b	628/41b	729.9 lb	831,3 lb	932.7 lb	1034.1 lb	
Weight (kg)	193 kg	239 kg	285 kg	331 kg	377 kg	423 kg	469 kg	

Соглідшийоги:							
Battery Packs in Paral	Battery Packs in Panallel 8 9 10 11 12 13						
Storage Capacity	B00Ah	900 Ah	1000 Ah	1100 Ah	1200 Ah	1300 Ah	
Working Voltage	48V-56V	48V-56V	48V-56V	48V-56V	48V-56V	48V - 56V	
Nominal Energy	40 kWh	45 kWh	50 kWh	55 kWh	6056Wh	65 KWh	
Weight (b)	1135.6lb	1237 b	1338.4 b	1439.9ib	1541.3 lb	1642.71b	
Weight (kg)	515kg	561 kg	607 leg	653kg	699kg	746 kg	
180 N 187 (O 200 N T	120000000000000000000000000000000000000				17.75		



Exploded View

Twelve-Battery with Control Unit Configuration

OUTLAST, OUTPERFORM, ENDUR "IT ALL

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d2023 EndurEnergy Systems, Inc. All rights reserved. All specifications are subject to change without notice.
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apadana

**MARK MOORHOUSE** 

SYSTEM INFORMATION:

TILT: 26.56-60°

AZIMUTH: 180°

DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW DC/AC RATIO: 0.47

(30) ZNSHINE SOLAR 415W

(80) ZNSHINE SOLAR 550W

(8) ESP-R12-E BESS RACKS

(64) ESP-5K-HL BESS MODULES

(30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS

ZXM7-SHLDD108-415

ZXM7-SHLDD144-550

30K-3P-208V (208V, 3PH)

IRON RIDGE RACKING

ADDRESS: 7949 CR 11

CASE NUMBER: 12914

**DESCRIPTION** 

V2 PERMIT PLANS

INDEPENDENCE, MN 55371

UTILITY: WRIGHT-HENNEPIN

AHJ: MN-CITY OF INDEPENDENCE

APADANA JOB NUMBER: ARS25025

**REVISIONS** 

СН

DES CHK DATE

INTL

SITE INFORMATION:

(4) SOLARK 30KW

# APADANA ENGINEERING 3401 NEVADA AVE N

NEW HOPE, MN 55427 612-803-9000 SOLAR@APADANATECHNOLOGY.COM

ENGINEER OF RECORD:

NOT FOR CONSTRUCTION

DRAWING TITLE:

SPEC SHEETS

SCALE:

NTS



Raising the bar in innovative DC MLPE solar power systems



# RSD-S-PLC

- Means NEC 2007 & 2020 MRS 125 redeferrer
- · Executes regal statements consistent When Transmitter PLC signal is about

The RBD-S-PLC means Surfage: requirements, maintaining normal function by confinually receiving a heartbest signal from the Afforder. Transmitter. The RBD exposites rapid system shubdown when the Transmitter signal is obsert. Uters can manually execute rapid shubdown using Transmitter benefits which benefits which the review shubble benefits which is reported by the results of the results of

### RSD-S-PLC TECHNICAL DATA

FC C

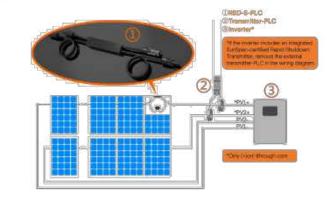
Competible with Flat & Pitched Roofs

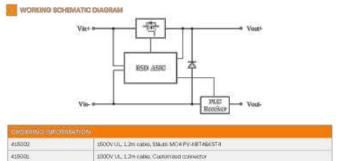
MODEL RPUYDATA (SC)	MSD-S-PLC
host Operating Votage flange	8-80V
Meximum Cont. Hput Current (mex)	254
Miximum Short Circuit Current (Isc.)	25A
OUTPUT DATA (DC)	
Culput Operating Voltage Renge	8-807
Maximum System Voltage	1000V/1500V
Meetings Series Fuse Reting	3OA
MISCHAMICAL DATA	
Ciperating Amexical Temperature Range	-40°F to +185°F (-40°C-to +85°C)
Dimensions (Without cable & connections)	5' x 1.2' x 06'(129 mm x 30 mm x 16 mm)
Cable Length	Hput 250mm/Cutput 1200mm
Cable Cross Section Size	UL:124WG
Connector	Stauce MC4 PV KBT4BKST4 or Custombre
Enclosure Rating	NEMA Type 6F/IP68
Over Temperature Protection:	Yes
FERTURES & CONFLIANCE	
Communication	R.C.
Safety Compilance	MEC 2017 8 2020 (89032); UL3741; OSA C22 2 No. 530-37; EC/ENEQ359-3; 2PF02306
EMC Complance	FCC Part 15: ICES-000 IEC/EN61000-6-1/-2/-3/-4

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# **APsmart**

RSD-S-PLC WIRING DIAGRAM





### **APsmart**

600 Enokeen Ave NE, Suite 200 Seettle, WA 98110 | +1-737-218-8486 | +1-888-374-8538 | aupport@AParentOlobel.com | APamertGlobel.com

160

80-90

REV 2.3 - 2021-11-11

# **APsmart**

Raising the bar in innovative DC MLPE solar power systems

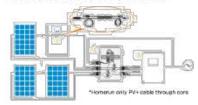


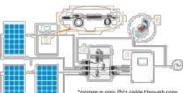
# TRANSMITTER-PLC **OUTDOOR KIT**

The APeriest Read Shutdown System Transletter-PLC is part of a rapid shutdown solution when pailed with APeriest RSO, a PV module splid shutdown unit. While powered on, the Transletter-PLC sends a laigned to the RSO units to keep their PV modules corrected and accepting energy.

RSO units automatically enter racid shutdown mode when the Transmitter-RLC is switched off and resume energy production when power is restored to the Transmitter-RLC. The colutions complies with NEC 69032 specifications for 2017, 202082023 and supported the Strippies spanishly model shutdown.

Tensantter-PLC Dutdoor KR includes a Tensantter-PLC with one or two cores, outdoor enclosure, 65-264WAC or WC-650WAC power supply. It could be used in residential or commercial project.

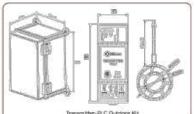




(I) Transmitter-PLC Outdoor Kit

coptionally. Press the envergency stop-button, the tremunitier AC power supply is disconnected, the RSD closes the atout, and the waters rapid abutdow

Rev2.8 2023-10-07



Main electrical data

Input Current

**Power Supply** 

Core data

Residential Coptions

Max. System Voltage

Number Of Strings Par I

Dimensions (W x H x D)

Peatures & Compliance

8627 N Mopec Eapy, Suris 90, Austin, TX 76798 | +1-757-768-8486 | +1-866-574-6588 | support8 APImertGlobal com | ADamset Table

Temperature

Structure data

EHC Compliance

408007

Internal Opening for Wires/Outside Dir

Max Number Of Strings Per Core



85-254VAC input, IZVDC Output, 90 mm x 175 mm x 58.4 mm

180-350VAC Input, 1250C Output, 125/2 mm x 32 mm x 102 mm

1500 YOC

198.5 mm x 298 mm x 179 mm

NEC 2017, 2020&2023 (69012); UL 174b; CSA C22-2 No. 330-17

FCC Partilit ICES-001

Single Core Transmitter-PLC-Outdoor KIL 180-550VAC Power Supply Dual Core Transmitter-PLC-Outdoor Kit, WD-850VAC Power Supply

Single Core Transmitter-PLC-Dutcloor RII, BS-264VAC Power Supply

Dual Core Trynenither-PLC-Outdoor Hit, 180-550VAC Power Supply, Emergency button Single Core Transmitter-PLC Outstoor Kit, IIS-284VAC Power Supply, Emergency button Qual Core Transmitter-PLC Outstoor Kit, IIS-264VAC Power Supply. Emergency button

Dual Core Transmitter-PLC-Outdoor Kit, 85-064YAC Power Supply

614

PC @

Rev2.8 2023-10-07



(30) ZNSHINE SOLAR 415W ZXM7-SHLDD108-415 (80) ZNSHINE SOLAR 550W ZXM7-SHLDD144-550 (4) SOLARK 30KW 30K-3P-208V (208V, 3PH) (8) ESP-R12-E BESS RACKS (64) ESP-5K-HL BESS MODULES (30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS IRON RIDGE RACKING

**MARK MOORHOUSE** 

SYSTEM INFORMATION: DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW

DC/AC RATIO: 0.47

TILT: 26.56-60°

SITE INFORMATION:

ADDRESS: 7949 CR 11 INDEPENDENCE, MN 55371 AHJ: MN-CITY OF INDEPENDENCE UTILITY: WRIGHT-HENNEPIN CASE NUMBER: 12914 APADANA JOB NUMBER: ARS25025

**REVISIONS** 

l	#	DESCRIPTION	DES	снк	DATE
l	1	PERMIT PLAN	СН	INTL	04/30/2025
l	2	V2 PERMIT PLANS	СН		5/5/2025
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1	7				·

# apadana - ENGINEERING



DRAWING TITLE:

SPEC SHEETS

SCALE:

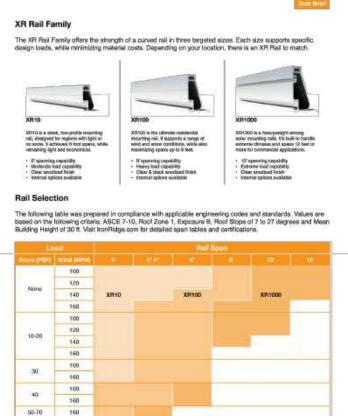
NTS

SHEET:

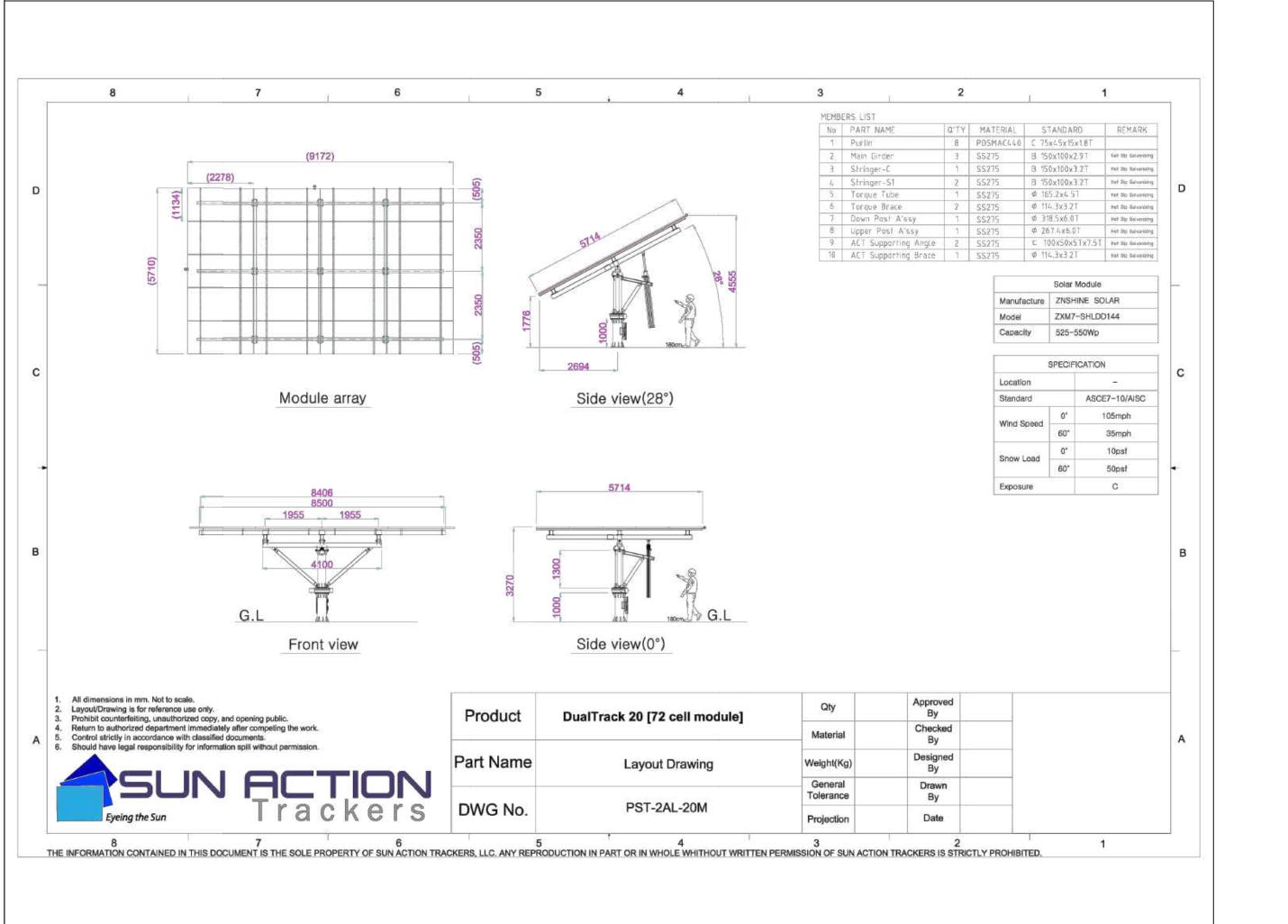


Corrosion-Resistant Materials

AFXR Fields are made of manne-grade standard roles According prevents sufficiently and prevents sufficiently sufficiently sufficiently sufficiently sufficiently sufficiently sufficiently sufficiently sufficiently sufficient







# **MARK MOORHOUSE**

SYSTEM INFORMATION:

DC SYSTEM SIZE: 56.45 kW AC SYSTEM SIZE: 120.00 kW DC/AC RATIO: 0.47 TILT: 26.56-60°

(30) ZNSHINE SOLAR 415W ZXM7-SHLDD108-415 (80) ZNSHINE SOLAR 550W ZXM7-SHLDD144-550 (4) SOLARK 30KW 30K-3P-208V (208V, 3PH) (8) ESP-R12-E BESS RACKS (64) ESP-5K-HL BESS MODULES (30) AP SYSTEMS RSD-S-PLC (4) SUN ACTION TRACKERS IRON RIDGE RACKING

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ADDRESS: 7949 CR 11 INDEPENDENCE, MN 55371 AHJ: MN-CITY OF INDEPENDENCE UTILITY: WRIGHT-HENNEPIN CASE NUMBER: 12914 APADANA JOB NUMBER: ARS25025

#### **REVISIONS**

#	DESCRIPTION	DES	СНК	DATE
1	PERMIT PLAN	СН	INTL	04/30/2025
2	V2 PERMIT PLANS	СН		5/5/2025
3				
4				
5				
6				
7				



# **APADANA ENGINEERING**

3401 NEVADA AVE N NEW HOPE, MN 55427 612-803-9000 SOLAR@APADANATECHNOLOGY.COM

ENGINEER OF RECORD:



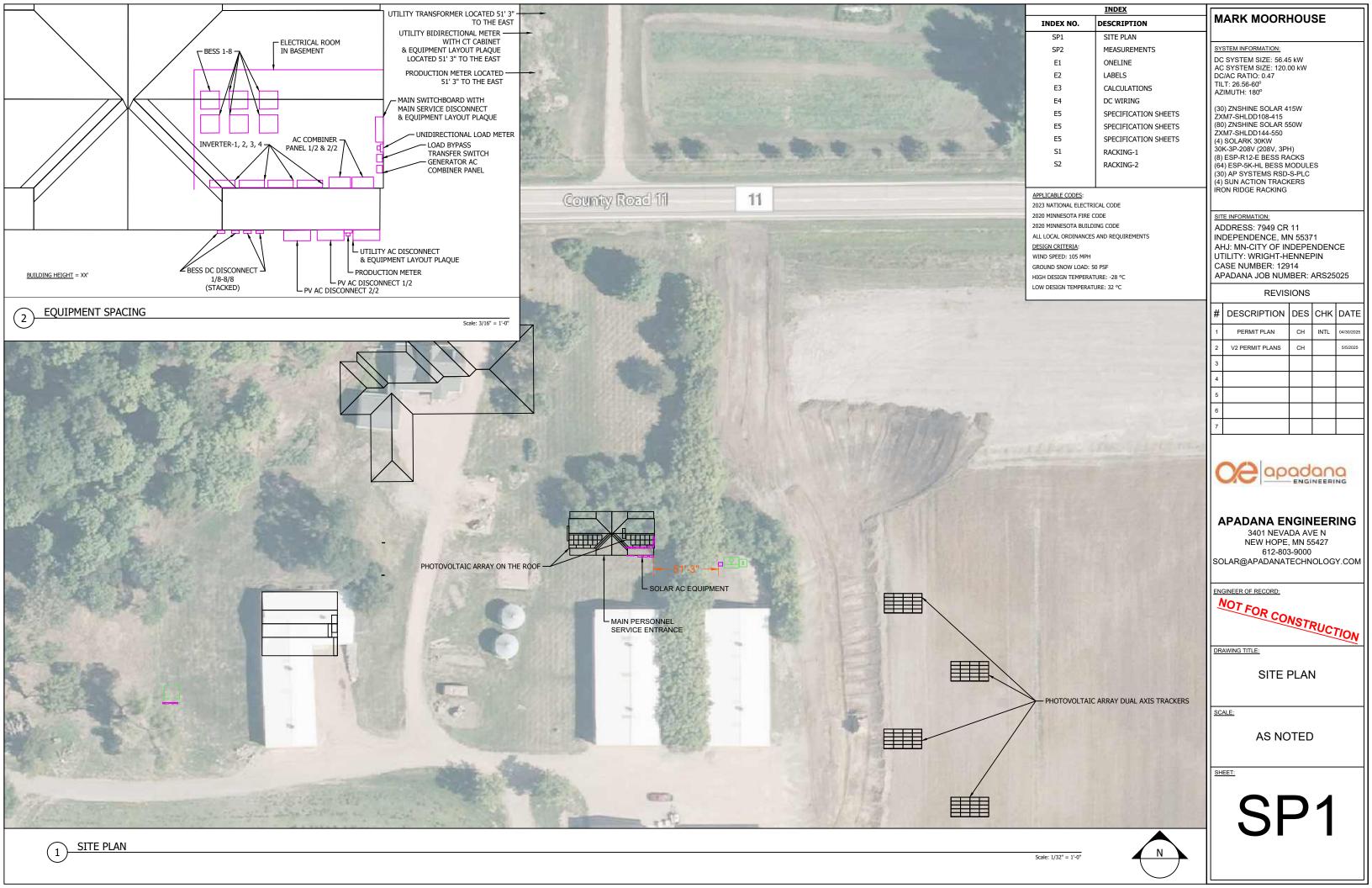
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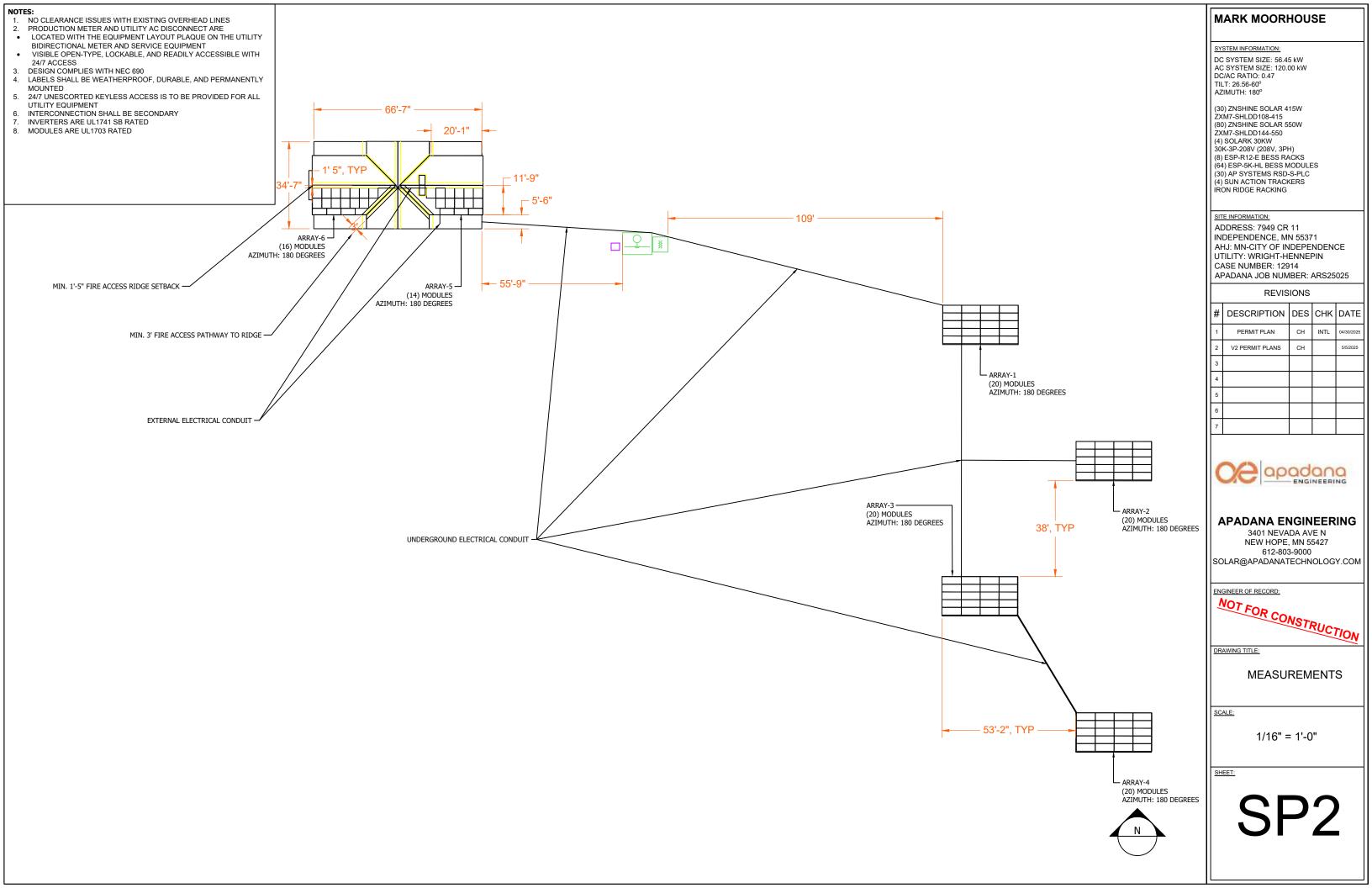
SPEC SHEETS

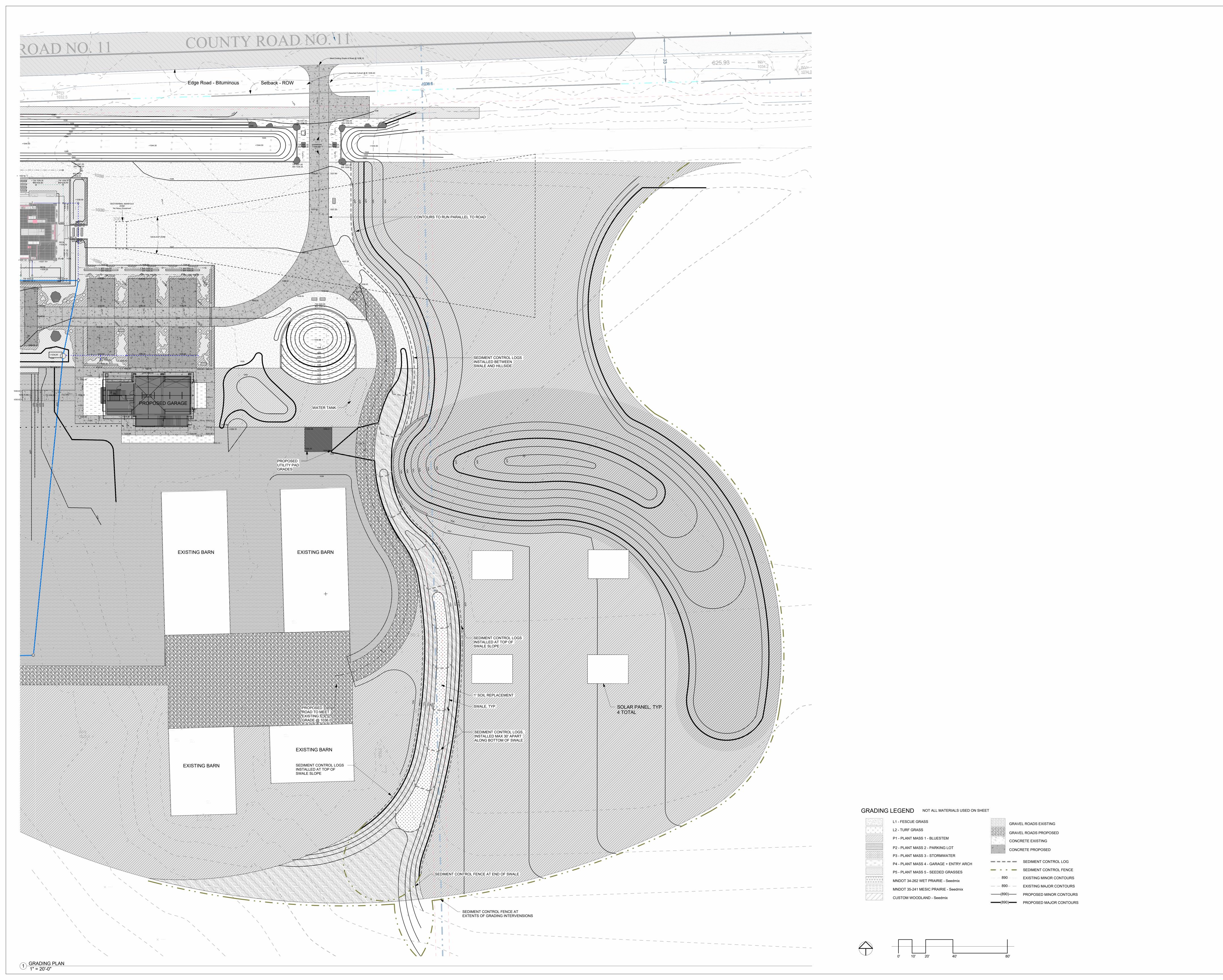
SCALE:

NTS

SHEET:







URBAN ECOSYSTEM LANDSCAPE ARCHITECT

I HEREBY CERTIFY THAT THIS
SHEET WAS PREPARED BY ME
OR UNDER MY DIRECT
SUPERVISION AND
THAT I AM A DULY LICEUSED
LANDSCAPE ARCHITECT
UNDER THE LAW OF THE
STATE OF MINNESODA.

SIGNATURE

PRINTED NAME

LICENSE NUMBER

SOLAR FIELD GRADING PLAN

> 7949 County Road 11 dependence, MN 55359

REVISIONS
DATE DESCRIPTION

DESIGN DEVELOPMENT

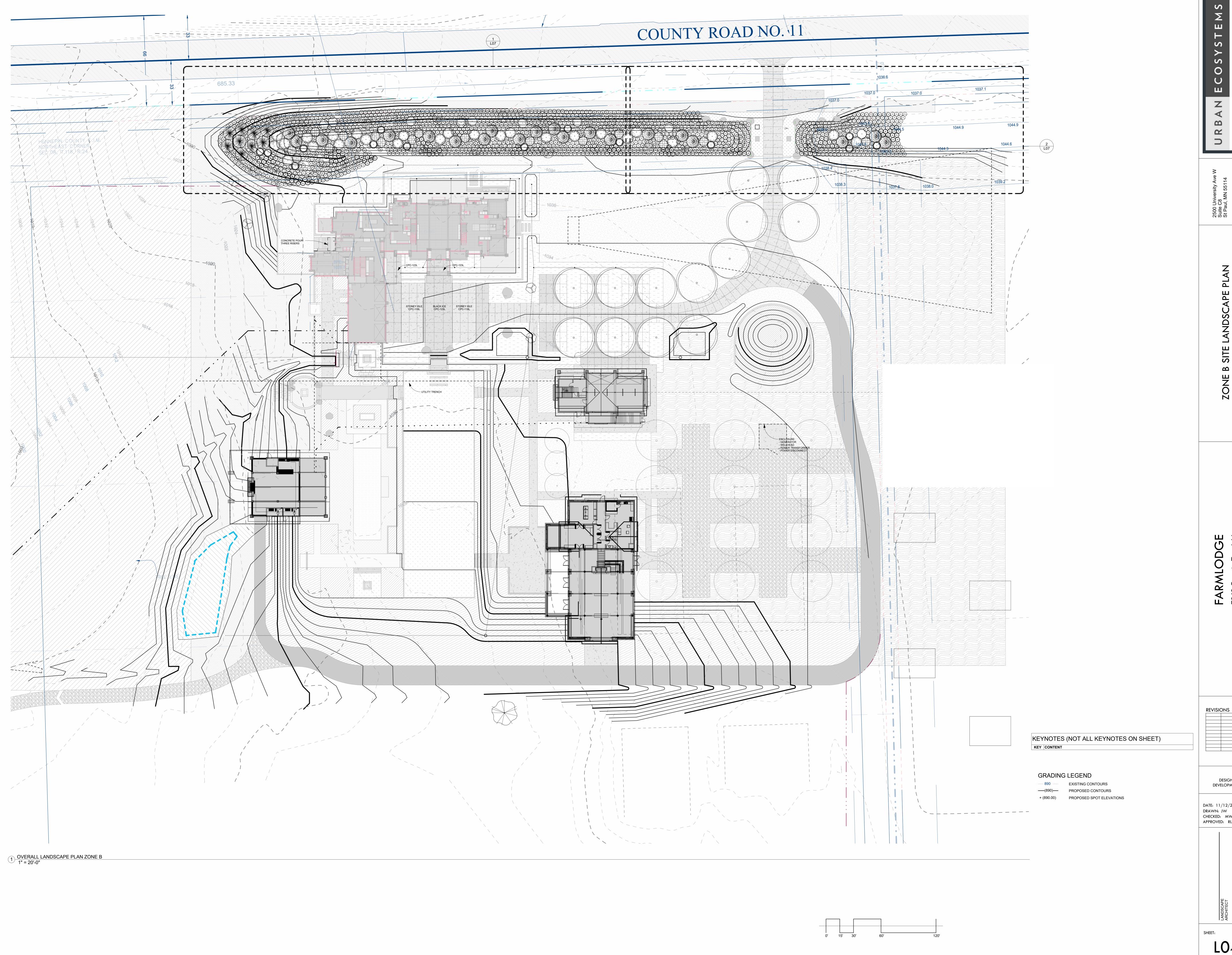
DATE: 05/07/2025
DRAWN: BJP/JAW
CHECKED: mk
APPROVED: mk
PROJECT

NO: FarmLodge

NO: FarmLodge

SHEET:

LO5.4



DESIGN DEVELOPMENT DATE: 11/12/2024

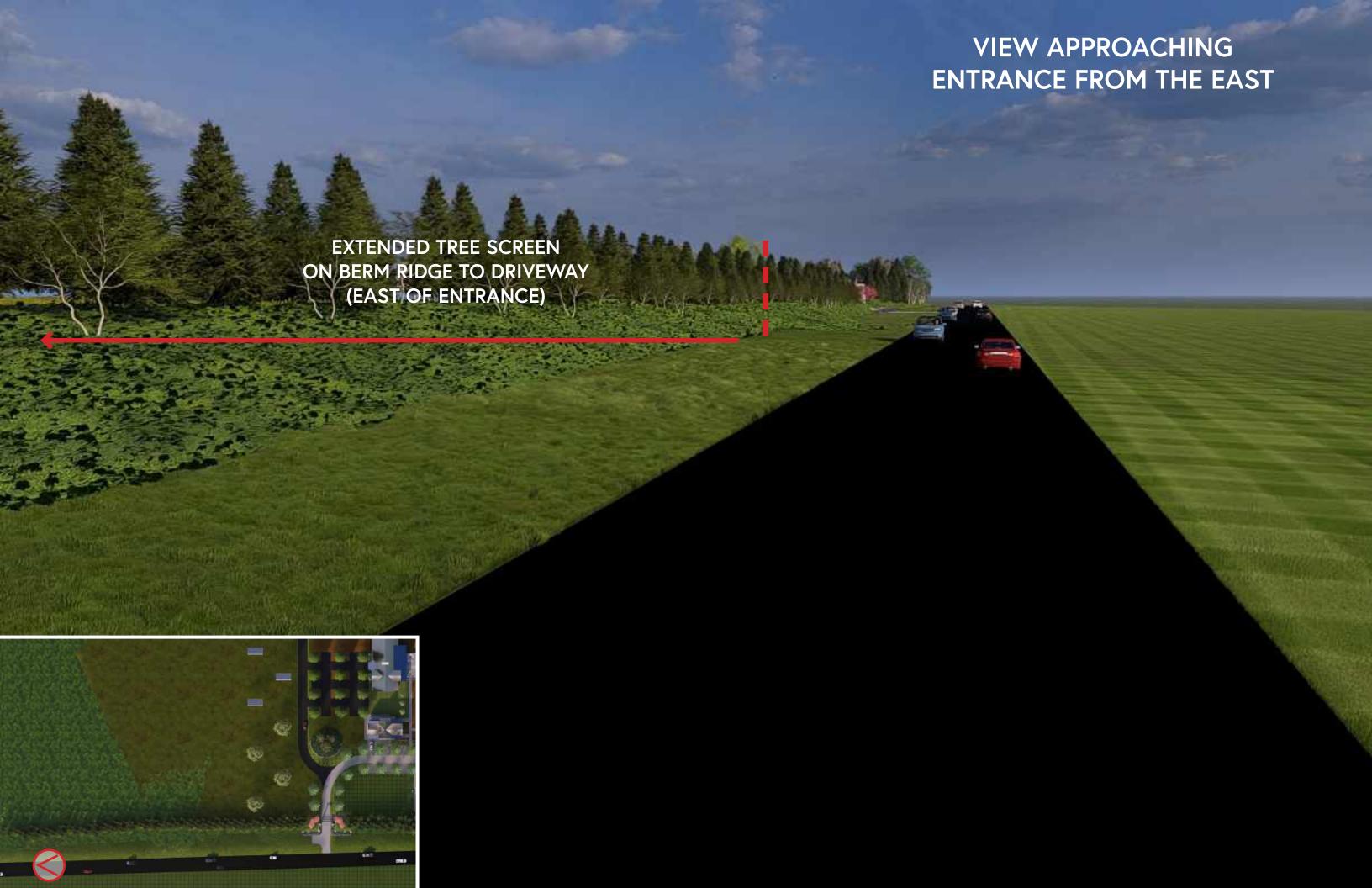
DRAWN: JW CHECKED: MWK APPROVED: RLH

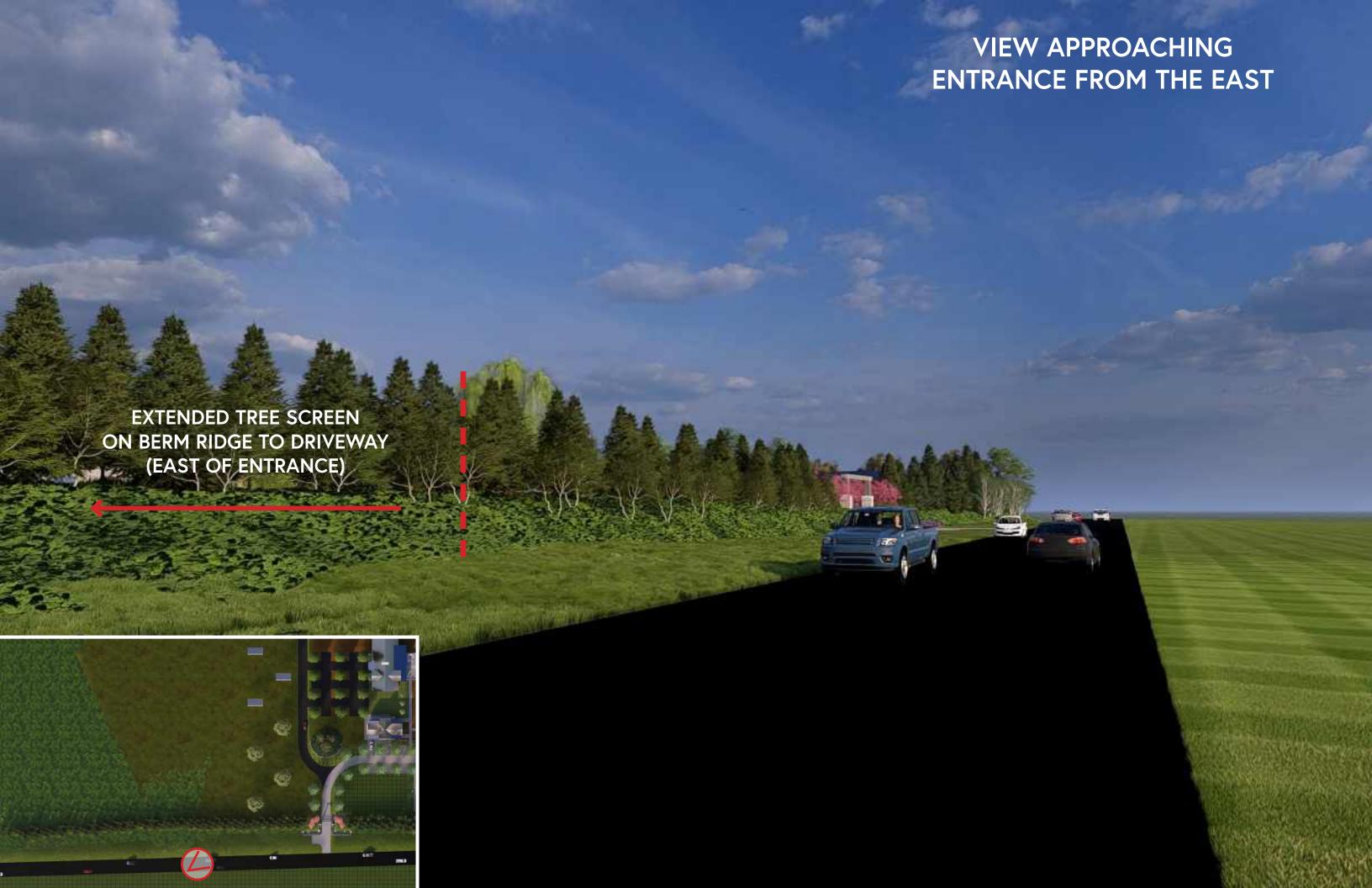
# **FARMHOUSE RESIDENCE**

INDEPENDENCE, MN

SOLAR ARRAY PLANNING NOVEMBER 2024











DIRECT VIEW AT PANELS FROM COUNTY ROAD 11







# City of Independence

# Request for a Conditional Use Permit to Construct a Ground Mounted Solar System on the Property located at 7975 County Road 6

*To:* | Planning Commission

From: | Mark Kaltsas, City Planner

Meeting Date: June 24, 2025

Applicant: Chloe Kirks

Property Owner: | Andrew Fairbairn

Location: 7975 County Road 6

### Request:

Chloe Kirks (Applicant) and Andrew Fairbairn (Owner) are requesting the following actions for the property located at 7975 County Road 6 (PID No. 33-118-24-23-0001) in the City of Independence, MN.

a. A conditional use permit (CUP) to allow a ground mounted solar system which is greater than 500 SF.

# Property/Site Information:

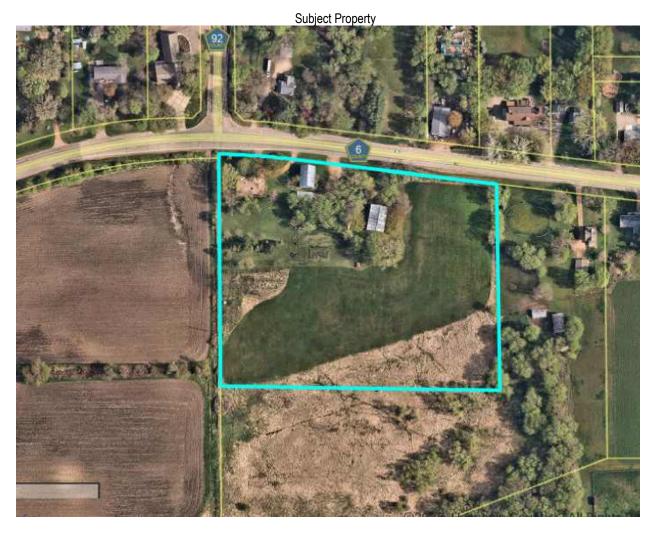
The property is located on the south side County Road 6 and just east of the intersection of County Road 92 and County Road 6. The property has an existing home and several detached accessory structures. The property has the following characteristics:

Property Information: 7975 County Road 6

Zoning: Agriculture

Comprehensive Plan: Agriculture

Acreage: 7.73 acres



## Discussion:

The applicant approached the City about the possibility of installing a ground mounted solar system on the subject property. The City provided the applicant with the requirements and discussed the process for considering ground mounted solar systems that exceed 500 SF. All ground mounted solar systems require a conditional use permit. Ground mounted solar systems are limited to a maximum square footage of 500 square feet but can now be expanded up to a total of 2,500 SF if additional criteria are satisfied by the applicant. Ground mounted solar systems have the following requirements:

<u>Subd. 5. Ground-Mounted Solar Energy Systems</u> - shall conform to the following standards:

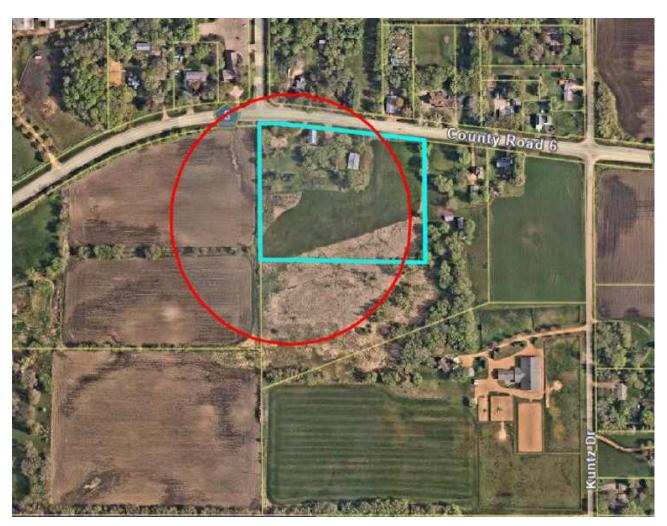
- (a) Ground-mounted systems shall only be allowed on a parcel with an existing principal structure.
- (b) Ground-mounted systems shall be located only in rear or side yards.

- (c) Ground-mounted systems shall not be located in the Shoreland Overlay District.
- (d) Ground-mounted systems shall be wholly screened from view from the public right of way and adjacent residential structures. Methods for screening shall include berming, fencing, landscaping and/or combination thereof.
- (e) Ground-mounted systems shall be located on a parcel of at least 2.5 acres.
- (f) Ground-mounted systems shall have a maximum area of 500 SF.
- (g) Ground mounted systems shall be setback a minimum of 50 feet from all property lines.
- (h) The maximum height for any component of the system shall be 15 feet.
- (i) Ground-mounted systems shall be in compliance with any applicable local, state and federal regulatory standards, including building, electrical and plumbing codes.
- Ground-mounted systems and their support structures shall be designed by a certified professional to meet applicable professional standards for the local soil and climate conditions.
- (k) The city may permit a ground mounted solar energy system which exceeds 500 SF. if the following additional criteria are wholly satisfied:
  - 1. The ground mounted solar system does not exceed 2,500 SF.
  - 2. The ground mounted solar energy system is located on a property that is 5 acres or larger.
  - 3. The ground mounted solar energy system shall be located a minimum of 100 LF from any property line and 500 LF from any residential structure on an adjoining property.
- (I) The city will also consider the following additional criteria to determine if a ground mounted solar energy system will be permitted to exceed the maximum size limitations established in this code:
  - The ground mounted solar energy system is not visible from any public street or from adjacent properties. Screening can be used to meet this standard.
  - 2. The applicant has provided with the application, the written consent of the owners of privately or publicly owned real estate directly abutting the premises for which the permit is being requested.

 The city finds that granting permission for a ground mounted solar energy system, that exceeds 500 SF, will not be detrimental to the public or take away from the reasonable use and enjoyment of the surrounding property.

The proposed ground mounted solar system would be located on a portion of the property that is to the south of the existing home. The proposed solar system would be comprised of one (1) ground mounted array. The total square footage of the array is proposed to be 944 SF. The array would be setback approximately 109 feet from the west (side) property line and 186 feet from the south property line (rear yard). The required setback from any property line is 100 feet.

The proposed array is also required to be located a minimum of 500 feet from any residential structure on a surrounding property. The proposed array would be located approximately 525 feet from the residential property to the north (across CSAH 6), 750 feet from the residential structure on the property to the east and 700 feet from the residential structure on the property to the southeast (see image below showing 500-foot radius).



The proposed ground mounted system would have a maximum height of approximately 12' to the top of the highest portion of the panels. The City requires systems to be wholly screened from view of the public right of way and adjacent residential structures. The proposed array is located on the property in a location that is approximately 15 feet lower than the centerline of County Road 6 (see below). There is also existing vegetation that will block the view from County Road 6 and adjacent properties to the east. The distance from the proposed solar arrays to the County Road 6 right of way is approximately 450 feet and there is a stand of trees that runs along the road.



The applicant has provided the City with a site plan and details of the proposed solar system. The system is comprised 44 panels. The panels are oriented to the south and will be installed at a 35-degree angle to the ground. The proposed panels are mounted to a galvanized metal racking system. The racking system is proposed to be secured to the ground using pilings.

The criteria for granting a conditional use permit are clearly delineated in the City's Zoning Ordinance (Section 520.11 subd. 1, a-i) as follows:

- 1. The conditional use will not adversely affect the health, safety, morals and general welfare of occupants of surrounding lands.
- 2. The proposed use will not have a detrimental effect on the use and enjoyment of other property in the immediate vicinity for the proposes already permitted or on the normal and orderly development and improvement of surrounding vacant property for uses predominant in the area.
- 3. Existing roads and proposed access roads will be adequate to accommodate anticipated traffic.
- 4. Sufficient off-street parking and loading space will be provided to serve the proposed use.
- 5. The proposed conditional use can be adequately serviced by public utilities or on-site sewage treatment, and sufficient area of suitable soils for on-site sewage treatment is available to protect the city form pollution hazards.

- 6. The proposal includes adequate provision for protection of natural drainage systems, natural topography, tree growth, water courses, wetlands, historic sites and similar ecological and environmental features.
- 7. The proposal includes adequate measures to prevent or control offensive odor, fumes, dust, noise, or vibration so that none of these will constitute a nuisance.
- 8. The proposed condition use is consistent with the comprehensive plan of the City of Independence.
- 9. The proposed use will not stimulate growth incompatible with prevailing density standards.

The proposed ground mounted solar system exceeds the City's maximum size for ground mounted solar systems; however, the city adopted provisions to allow systems to exceed 500 SF if additional conditions can be satisfied by the applicant. The energy generated by this system is estimated to be 16.89 kW (AC). The applicant has noted that the proposed system will generate enough electricity to support the electrical loads of the existing residence. There are a few additional considerations that should be noted by the City:

- The City recently updated the solar energy ordinance to allow for ground mounted systems that are larger than 500 SF if they can meet the additional criteria provided. The applicant has demonstrated that they can meet the additional criteria.
- The proposed system meets the location, setback and maximum height requirements of the zoning ordinance.
- There are no surrounding properties that appear to have any visibility into the existing site. The site sits higher than many of the surrounding properties and is buffered around the permitter by vegetative cover. The visibility of this system from the County Road 6 right of way is generally screened.
- The applicant did not provide any written consent from surrounding property owners, but it should be noted that all were notified of the public hearing.
- No additional screening is proposed by the applicant.

The City will need to consider the requested CUP as presented and determine if it meets applicable criteria and can be supported. The orientation of the proposed solar system and the relationship to the surrounding properties helps to aid in the mitigation of potential impacts relating to the ground mounted solar array.

# **Neighbor Comments:**

The City has not received any comments or questions relating to the requested CUP.

#### Recommendation:

Staff is seeking a recommendation from the Planning Commission pertaining to the request for a conditional use permit with the following findings and conditions:

- 1. The proposed conditional use permit request meets all applicable conditions and restrictions stated in Chapter V, Section 510, Zoning, in the City of Independence Zoning Ordinance.
- 2. The conditional use permit will include the following conditions:
  - a) The conditional use permit will allow a 944 SF ground mounted solar system that is installed in accordance with the approved plans attached hereto as Exhibit A.
  - b) The ground mounted solar system shall be constructed in accordance with all applicable zoning code, building code and other applicable standards.
- 3. The applicant shall pay for all costs associated with the review and recording of the resolution granting approval of the conditional use permit.

#### Attachments:

- 1. Application
- 2. Ground Mounted Solar Site Plan
- 3. Ground Mounted Solar Plans and Details



# RESOLUTION OF THE CITY OF INDEPENDENCE HENNEPIN COUNTY, MINNESOTA

#### **RESOLUTION NO. 25-0715-02**

# A RESOLUTION GRANTING APPROVAL OF A CONDITIONAL USE PERMIT TO ALLOW A GROUND MOUNTED SOLAR SYSTEM THAT EXCEEDS 500 SQUARE FEET (944 SF) AS REQUESTED FOR THE PROPERTY LOCATED AT 7975 COUNTY ROAD 6

WHEREAS, the City of Independence (the "City) is a municipal corporation under the laws of Minnesota; and

WHEREAS, the City adopted a comprehensive plan in 2022 to guide the development of the community; and

WHEREAS, the City has adopted a zoning ordinance and other official controls to assist in implementing the comprehensive plan; and

WHEREAS, Chloe Kirks ("Applicant") Andrew Fairbairn ("Owner") submitted a request for a conditional use permit to allow a ground mounted solar system that exceeds 500 SF on the property located 7975 CSAH 6 (PID No. 33-118-24-23-0001) (the "Property"); and

WHEREAS, the Property is legally described on EXHIBIT A, attached hereto; and

WHEREAS, the Property is zoned Agriculture; and

WHEREAS the requested Conditional Use Permit meets all requirements, standards and specifications of the City of Independence zoning ordinance for Agriculture lots; and

WHEREAS the Planning Commission held a public hearing on June 24, 2025, to review the application for a conditional use permit, following mailed and published noticed as required by law; and

WHEREAS, the City Council has reviewed all materials submitted by the Applicant; considered the oral and written testimony offered by the applicant and all interested parties; and has now concluded that the application is in compliance with all applicable standards and can be considered for approval; and

Fax: 763.479.0528

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF INDEPENDENCE, MINNESOTA, that it should and hereby does approve the application by Andrew Fairbairn for a conditional use permit to allow a ground mounted solar system that exceeds 500 SF on the property per the City's zoning regulations and with the findings provided within this resolution.

- 1. The proposed conditional use permit request meets all applicable conditions and restrictions stated in Chapter V, Section 510, Zoning, in the City of Independence Zoning Ordinance.
- 2. The conditional use permit will include the following conditions:
  - a) The conditional use permit will allow a 944 SF ground mounted solar system that is installed in accordance with the approved plans attached hereto as Exhibit A.
  - b) The ground mounted solar system shall be constructed in accordance with all applicable zoning code, building code and other applicable standards.
- 3. The applicant shall pay for all costs associated with the review and recording of the resolution granting approval of the conditional use permit.
- 4. The conditional use permit shall be recorded with Hennepin County.

This resolution was adopte 15 <sup>th</sup> day of June 2025, by a vote of	,	Council of the City of Independence on thisnays.
ATTEST:		Brad Spencer, Mayor
Mark Kaltsas, City Admin	istrator	_

# **EXHIBIT A**

(Legal Description)

Commencing at the point of intersection of the West line of the Northwest 1/4 and Center Line of County Rd No 6 Then Southerly Along Said Center Line To a Point 43.2 Ft Southerly from its Intersection.

# **EXHIBIT B**

(Approved Plans)

(Attached)



Date Submitted: 05-02-2025

Applicant Information Owner Information

Name: CHLOE KIRKS Name: Andrew Fairbairn

Address: 101 isanti parkway ne Address: 7975 County Road 6

Isanti, Minnesota 55040

Independence,
Minnesota 55359

Primary Phone: 6124124127 Primary Phone: (763) 355-2446

Email: chloe@wolfriverelectric.com Email: asfairbairn4@gmail.com

Property Address:

PID:

Planning Application Type: Conditional Use Permit

Description:

Supporting Documents: Building Plans, Construction Plans

CRloe Kirta

Signature:

# PHOTOVOLTAIC GROUND MOUNT SYSTEM

44 MODULES-GROUND MOUNTED - 17.600 kW DC, 16.896 kW AC 7975 COUNTY ROAD 6. INDEPENDENCE. MN 55359

## PHOTOVOLTAIC SYSTEM SPECIFICATIONS:

SYSTEM SIZE:

17.800 KW DC 16.896 KW AC

MODULE TYPE & AMOUNT: MODULE DIMENSIONS: (44) WAAREE ARKA SERIES WSMDI-400 [400W] (LWWH) 75.7\*/40.8\*/1.37\*

INVERTER: (44) ENPHASE IO BATTERY: (01) TESLA POW

(44) ENPHASE IQ7HS-88-M-US [240V, 1 PHASE] (01) TESLA POWERWALL 3 BATTERY

INTERCONNECTION METHOD:

WHOLE HOME BACKUP

#### GENERAL STRUCTURAL NOTES:

THE SOLAR PANELS ARE TO BE MOUNTED TO THE GROUND USING SUMMODO GROUND MOUNT RACKING.

b. DESIGN CRITERIA:

GROUND SNOW LOAD = 50 PSF

2. WIND SPEED = 105 MPH

EXPOSURE CATEGORY = C

4. RISK CATEGORY = 1

#### AUTHORITIES HAVING JURISDICTION:

BUILDING: INDEPENDENCE CITY ZONING: INDEPENDENCE CITY UTILITY: XCEL ENERGY UTILITY METER NO: N/A

#### E 1.3: WARNING LABELS E 1.4: PLACARD

SHEET INDEX:

PV 1.0:

PV 1.1:

PV 1.2:

\$ 1.0:

8.1.1:

E 1.1:

E1.2

D1.1+:

COVER SHEET

MOUNT DETAILS

MOUNT DETAILS

3-LINE DIAGRAM

3-LINE DIAGRAM

WIRE CALCULATION

EQUIPMENT SPEC SHEET

ATTACHMENT & STRING LAYOUT

EQUIPMENT ELEVATION

PLOT PLAN

SITE PLAN

**GOVERNING CODES** 

ALL WORK SHALL CONFORM TO THE FOLLOWING CODES

2023 NATIONAL ELECTRICAL GODE

2023 NATIONAL ELECTRICAL GODE

2020 MINNESOTA RESIDENTIAL CODE

c. 2020 MINNESOTA BUILDING CODE

£ 2024 MINNESOTA ENERGY CODE

e. 2020 MINNESOTA ACCESSIBILITY CODE

f. 2020 MINNESOTA MECHANICAL AND FUEL GAS CODE

2020 MINNESOTA PLUMBING CODE

h. 2020 MINNESOTA STATE FIRE CODE

ANY OTHER LOCAL AMENDMENTS

44,989283, -93,726809



1 SATELLITE VIEW
SCALE NTS



#### GENERAL ELECTRIC NOTES:

1. ALL COMPONENTS ARE ULLISTED AND NEC CERTIFIED, WHERE WARRANTED.

 THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2023.

THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED.

 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.

 WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.

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 NAID 250.60 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A ULLISTED 8 FT. GROUND ROD WITH ACORN CLAMP, GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #8 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.

PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.

 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.

 ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE, IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT, ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.

 AS SPECIFIED BY THE AHA, EQUIPMENT USED IN UNGROUNDED SYSTEMS LABELED ACCORDING TO NEC 590.35(F).

12. INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE LISTED FOR THIS USE (NEC 890.35(G)).

 THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS (NEC 690.4(C))

 ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLIDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.

 ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.

16. SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.

 PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12

 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 200 200].

19. ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31

 WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).

ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT
RUNS AS REQUIRED PER NEC.

Elizabeth Bauer Etgabeth Bauer

Sandy Henebaak Dang Harlie



TO ISANT PARKWAY AS, DUTE S SANTI, MY SSOR BLECTRICAL LICENSES EATONS BULDING LICENSES EXTONS SULDING LICENSES EXTONS CONTACT, (760) 229-4862 DUTACT, (760) 229-4862

REVISIONS					
2 surption	Date	Ami			
CADE	APR 20, 2015	00			
CND7	AHA, 33, 2005	34			
CACA	APR. 30, 3025	97			

Signature with See

Project Name &

Adden

ANDREW FAIRBAIRN RESIDENCE
7975 COUNTY ROAD 6, INDEPENDENCE, MN 55359
ANL MOGFORDAGE CITY
UTILITY, ACEL BREGOY
CASE NO: 00000751

DEBIGNED BY:

TRIVENTICAD

TRIVENT CAD SOLUTION
Sheet Name

COVER SHEET

ANDID

ANSI B 11" X 17"

PV 0.0

