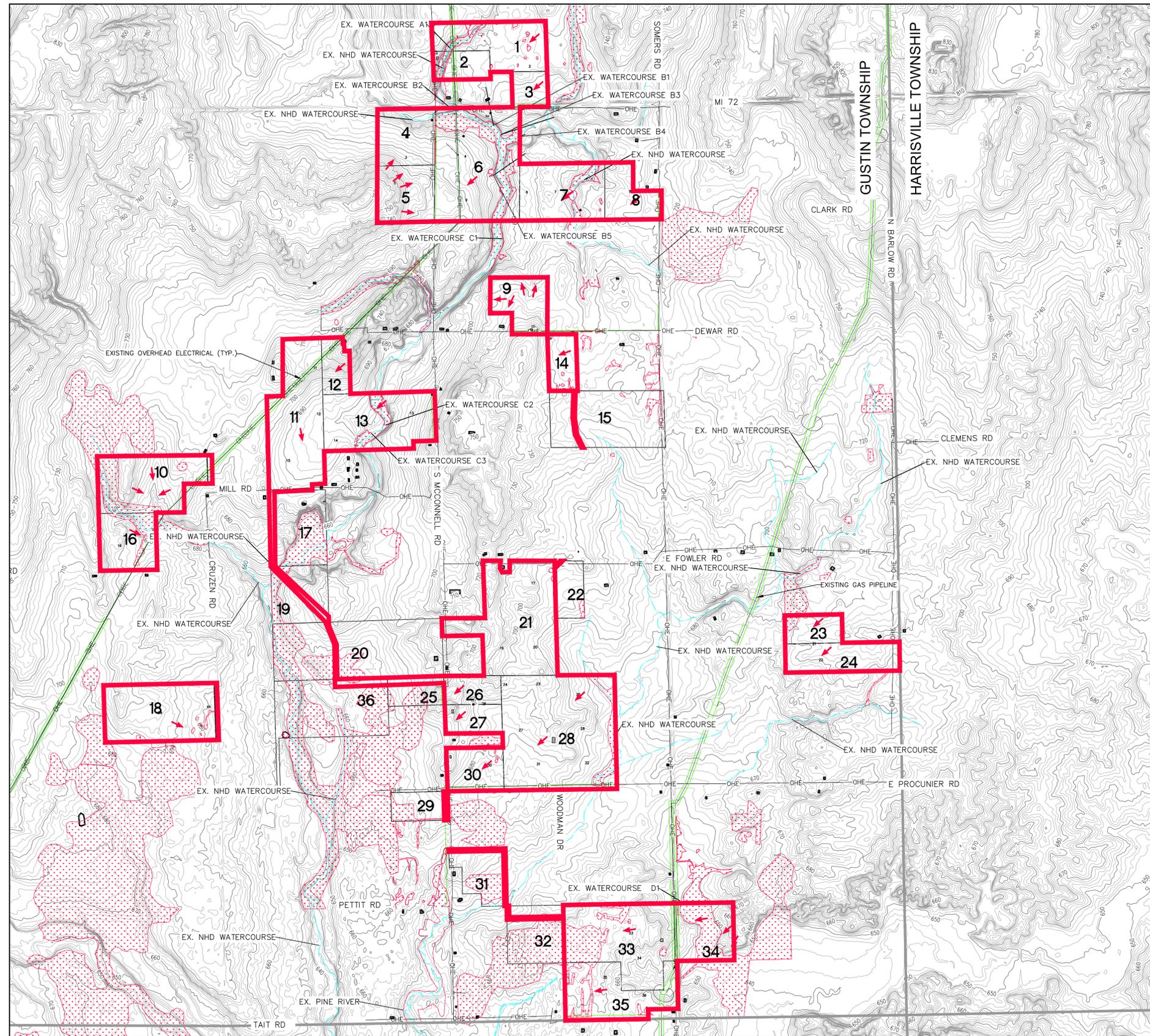


PRELIMINARY PLANS - NOT FOR CONSTRUCTION



LEGEND

-  EXIST. WATERCOURSE CENTERLINE
-  EXIST. WETLAND
-  EXIST. UTILITY EASEMENT
-  EXIST. ROAD R.O.W.
-  EXIST. ROAD CENTERLINE
-  EXIST. SECTION / QUARTER SECTION
-  EXIST. TOWNSHIP BOUNDARY
-  PARCEL BOUNDARY
-  PROJECT AREA
-  EXIST. OVERHEAD ELECTRICAL
-  EXIST. GAS PIPELINE
-  EXIST. RESIDENCE
-  EXIST. CULVERT
-  EXIST. CONTOUR MINOR
-  EXIST. CONTOUR MAJOR
-  EXIST. WATER WELL
-  FLOW ARROWS
-  PARCEL ID (SEE SHEET 03)



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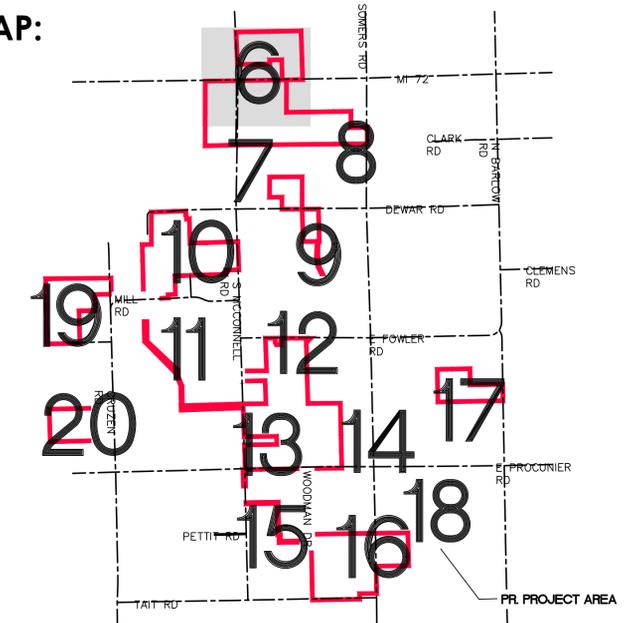
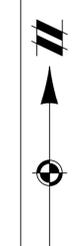
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SECTIONS: 11, 13-15, 22-27, 34-36;	TOWN, RANGE: T26N, R08E	GUSTIN TOWNSHIP	ALCONA COUNTY, MICHIGAN
CLIENT: SAPLING SOLAR, LLC	PROJECT: SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS		
EXISTING CONDITIONS - OVERALL			
DATE: AUGUST 1, 2024			
REVISIONS			
SCALE: 0 600 1200			
1" = 1200 FEET			
DR. GS	CH. ES		
P.M. ES			
BOOK: --			
JOB: 23008071			
SHEET NO. 04			

CAD FILE: 23008071-02-EC.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

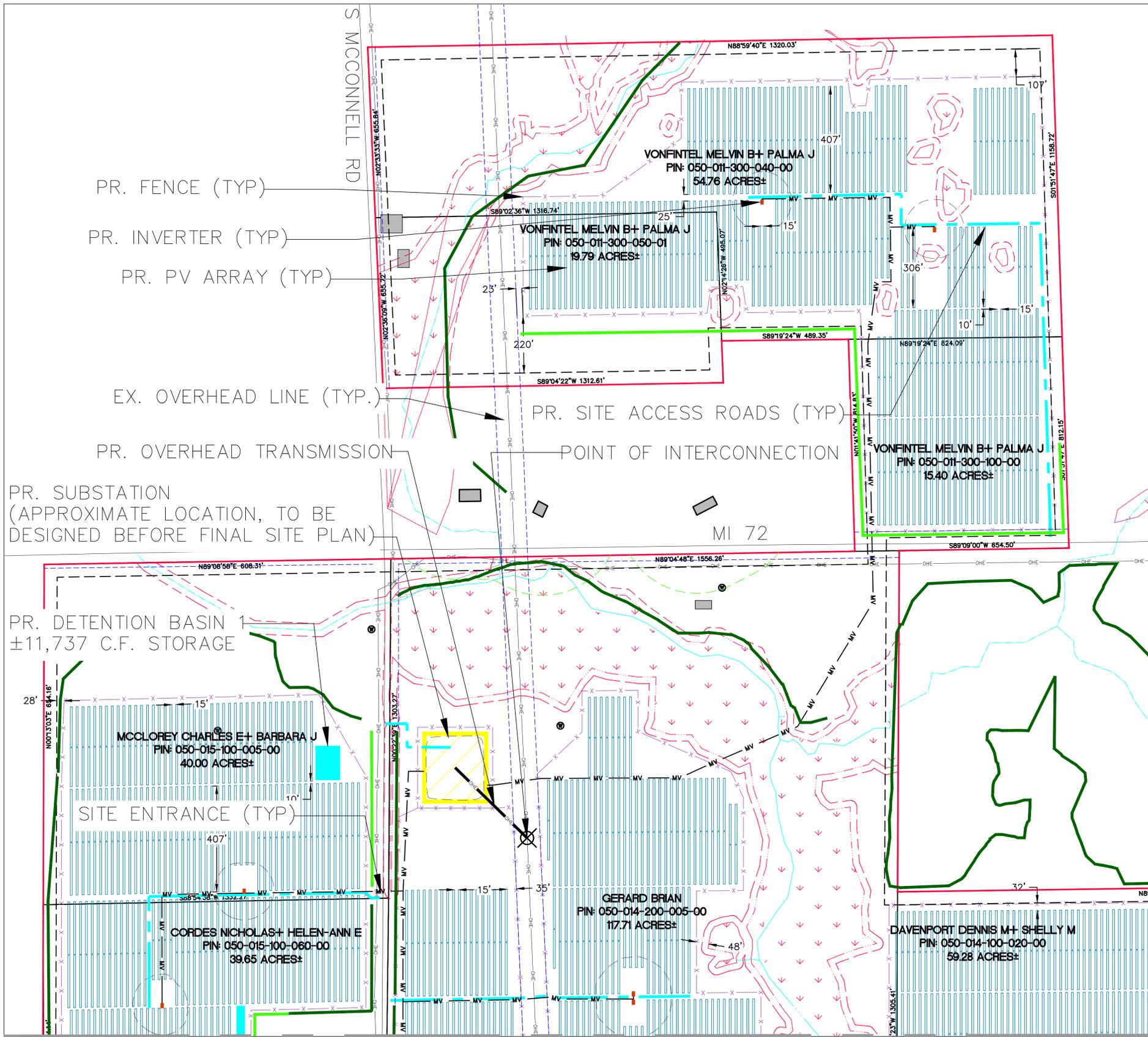
KEY MAP:



LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
- EXIST. CONTOUR MAJOR
- EXIST. WATER WELL
- PROP. UNDERGROUND COLLECTION
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	- - - - -
WETLAND/WATERCOURSE (VOLUNTARY)	25'	- - - - -
INHABITED NON-PARTICIPATING RESIDENCE	300'	---



PR. FENCE (TYP)

PR. INVERTER (TYP)

PR. PV ARRAY (TYP)

EX. OVERHEAD LINE (TYP.)

PR. OVERHEAD TRANSMISSION

PR. SUBSTATION
(APPROXIMATE LOCATION, TO BE DESIGNED BEFORE FINAL SITE PLAN)

PR. DETENTION BASIN 1
±11,737 C.F. STORAGE

PR. SITE ACCESS ROADS (TYP)

POINT OF INTERCONNECTION

MATCHLINE-01 (SEE SHEET 07)

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SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: SAPLING SOLAR, LLC
PROJECT: SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS
PROPOSED CONDITIONS

DATE: AUGUST 1, 2024

REVISIONS

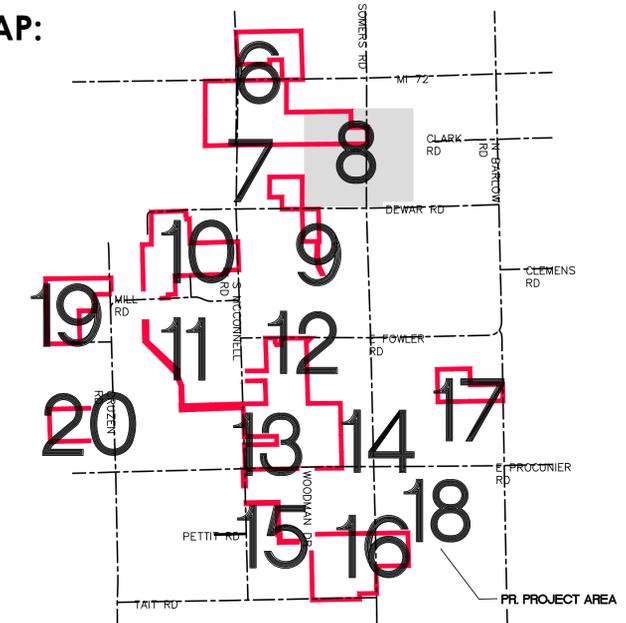
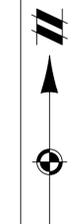
NO.	DATE	DESCRIPTION

SCALE: 0 100 200
1" = 200 FEET
DR. GS CH. ES
P.M. ES
BOOK: --
JOB: 23008071
SHEET NO.: 06

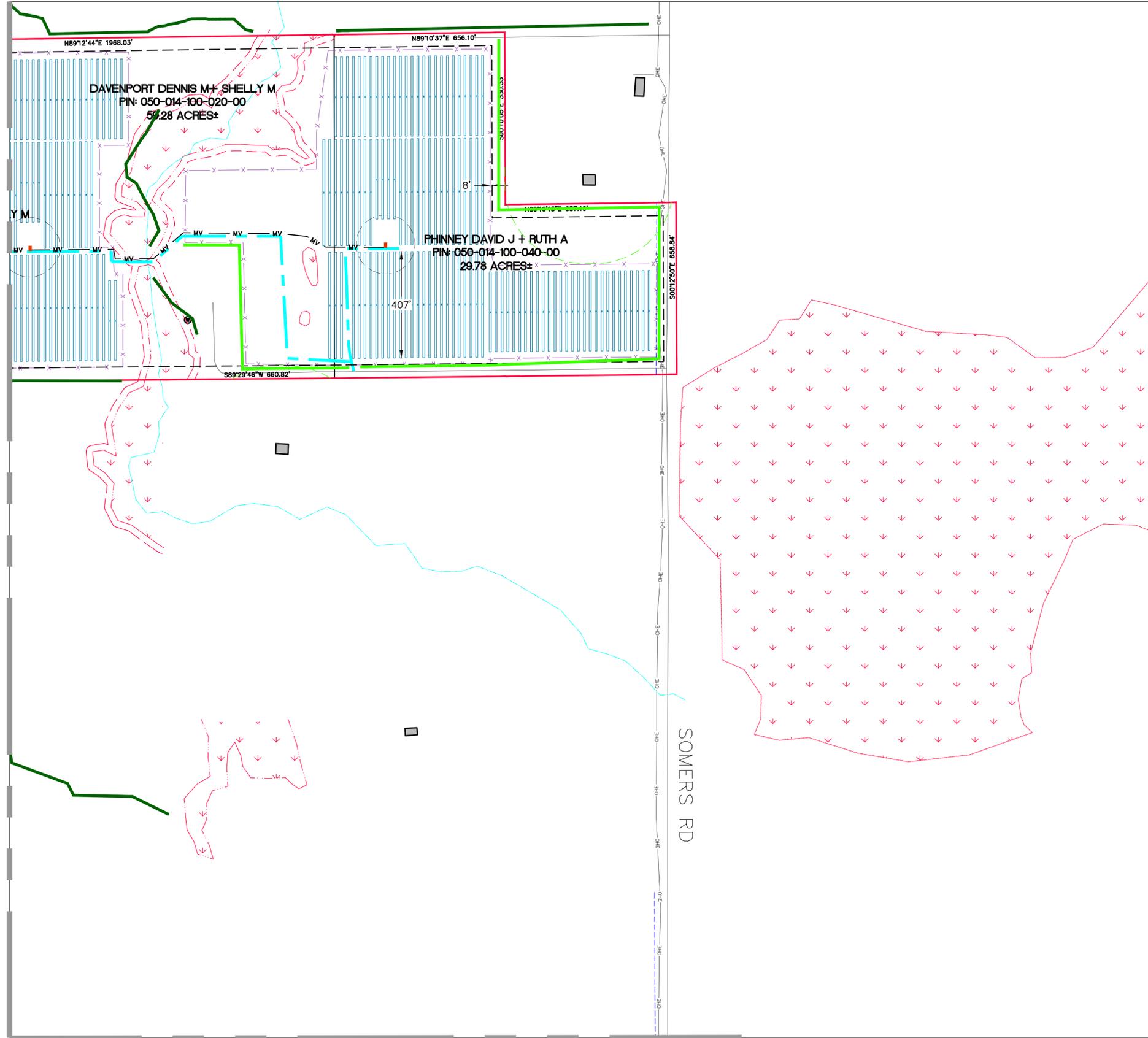
CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

KEY MAP:



MATCHLINE-02 (SEE SHEET 07)



MATCHLINE-05 (SEE SHEET 09)

LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
- EXIST. CONTOUR MAJOR
- EXIST. WATER WELL
- PROP. UNDERGROUND COLLECTION
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- 16** PARCEL ID (SEE SHEET 02)

SETBACK TABLE

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	- - - - -
WETLAND/WATERCOURSE (VOLUNTARY)	25'	- . - . - .
INHABITED NON-PARTICIPATING RESIDENCE	300'	- - - - -



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SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: **SAPLING SOLAR, LLC**
PROJECT: **SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS**

DATE: **AUGUST 1, 2024**

REVISIONS

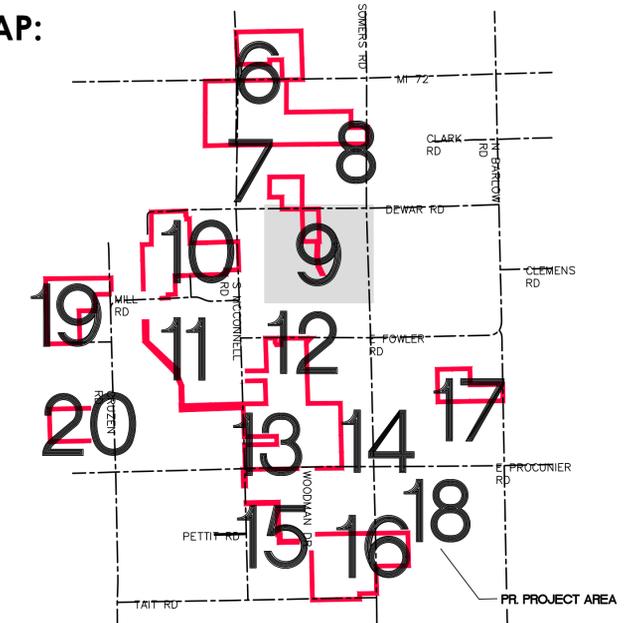
NO.	DATE	DESCRIPTION

SCALE: 0 100 200
1" = 200 FEET
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P.M. ES
BOOK: --
JOB: 23008071
SHEET NO.: **08**

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-05 (SEE SHEET 08)

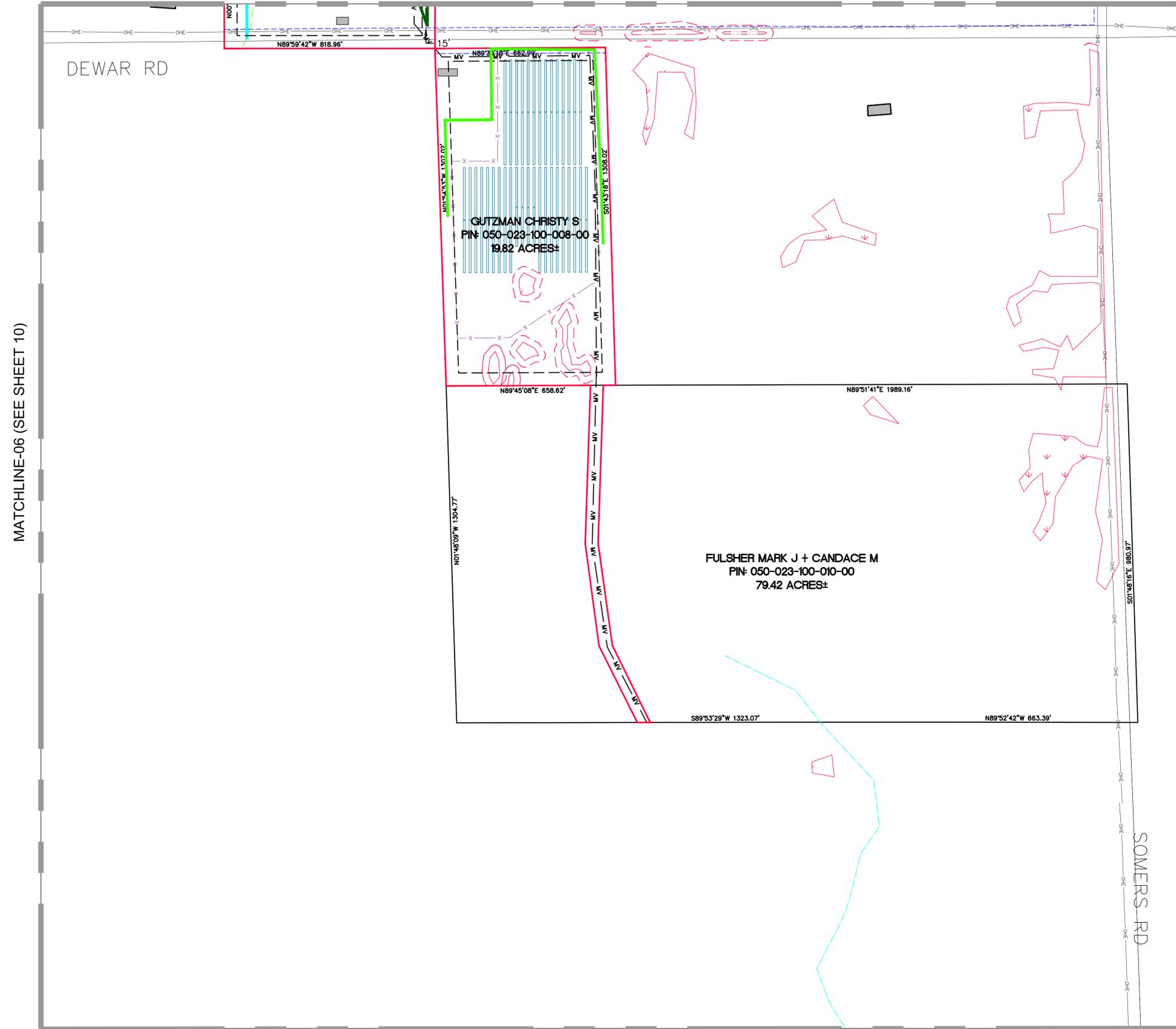
KEY MAP:



LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
- EXIST. CONTOUR MAJOR
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- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	----
ROAD CENTERLINE	50'	----
WETLAND/WATERCOURSE (VOLUNTARY)	25'	----
INHABITED NON-PARTICIPATING RESIDENCE	300'	----



MATCHLINE-07 (SEE SHEET 12)

MATCHLINE-06 (SEE SHEET 10)

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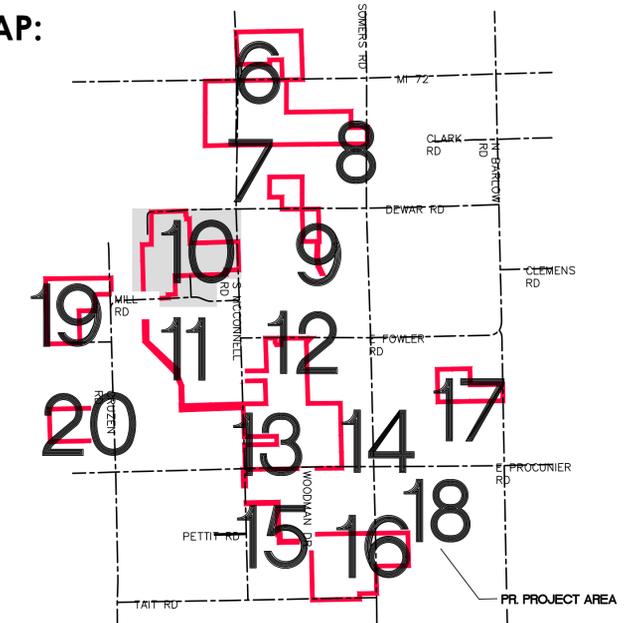
CLIENT	SAPLING SOLAR, LLC
PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS
SECTIONS:	11, 13-15, 22-27, 34-36;
TOWN, RANGE:	T26N, R08E
TOWNSHIP:	GUSTIN TOWNSHIP
COUNTY:	ALCONA COUNTY, MICHIGAN
DATE	AUGUST 1, 2024
REVISIONS	
SCALE	0 100 200 1" = 200 FEET
DR.	GS CH. ES
P.M.	ES
BOOK	--
JOB	23008071
SHEET NO.	09

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-03 (SEE SHEET 07)

KEY MAP:

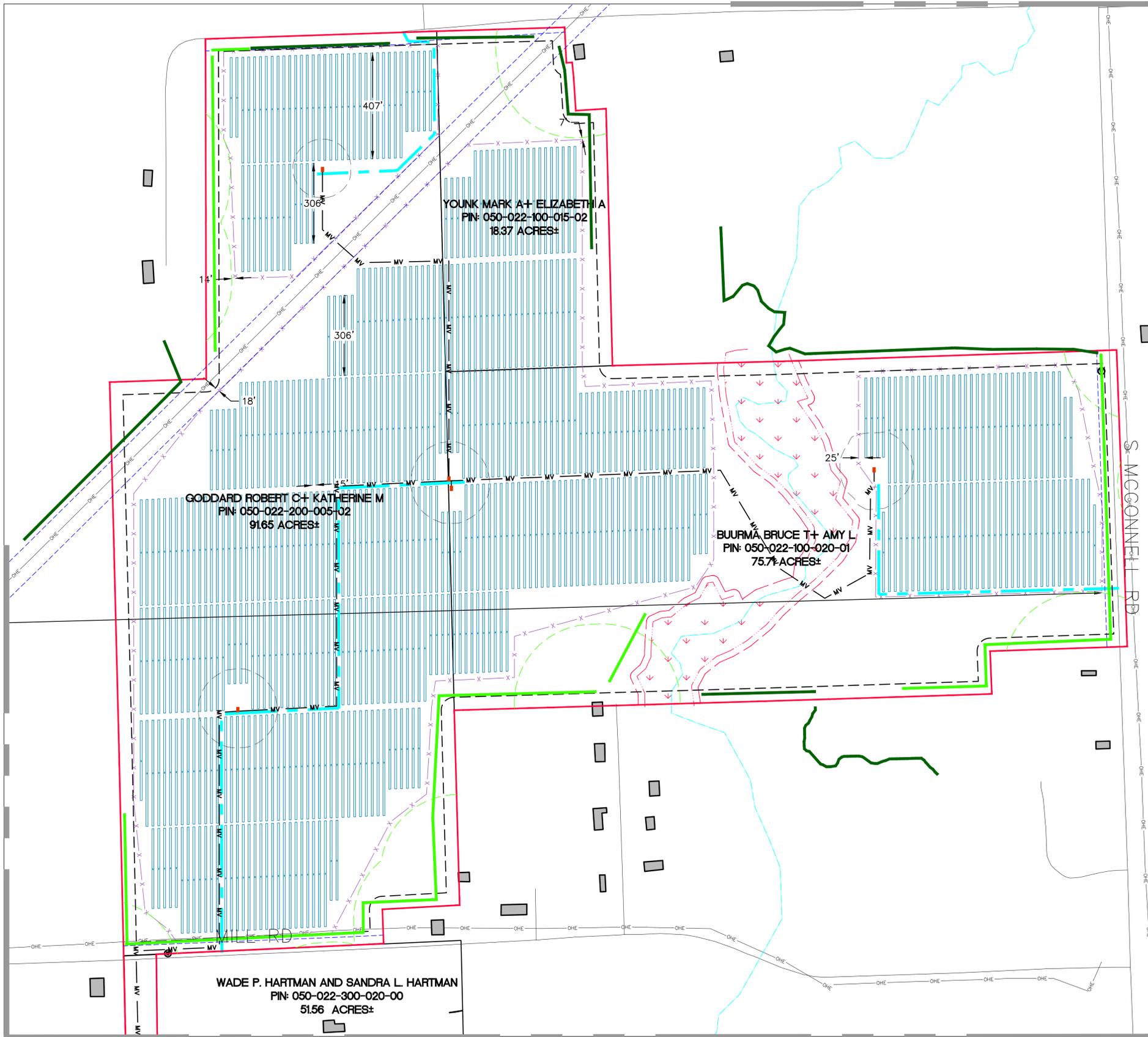


LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
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- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---

MATCHLINE-20 (SEE SHEET 19)



MATCHLINE-08 (SEE SHEET 11)

MATCHLINE-06 (SEE SHEET 09)

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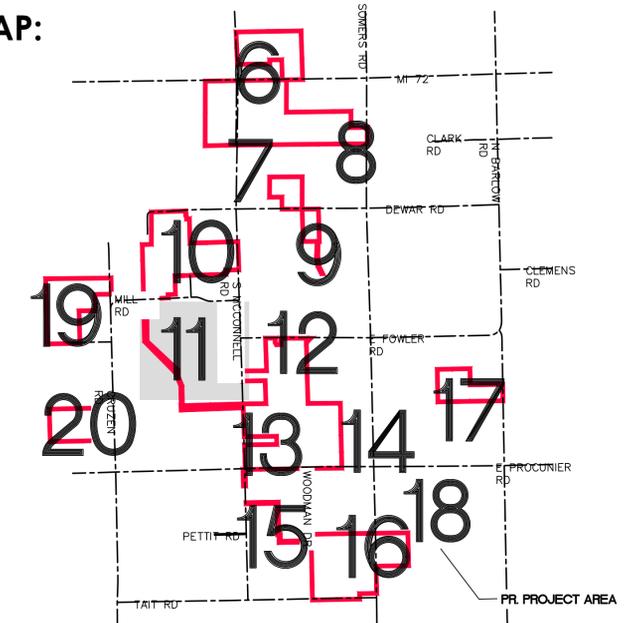
CLIENT	SAPLING SOLAR, LLC
PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS
SECTIONS:	11, 13-15, 22-27, 34-36;
TOWN, RANGE:	T26N, R08E
TOWNSHIP:	GUSTIN TOWNSHIP
COUNTY:	ALCONA COUNTY, MICHIGAN
DATE	AUGUST 1, 2024
REVISIONS	
SCALE	0 100 200 1" = 200 FEET
DR.	GS CH. ES
P.M.	ES
BOOK	--
JOB	23008071
SHEET NO.	10

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-08 (SEE SHEET 10)

KEY MAP:

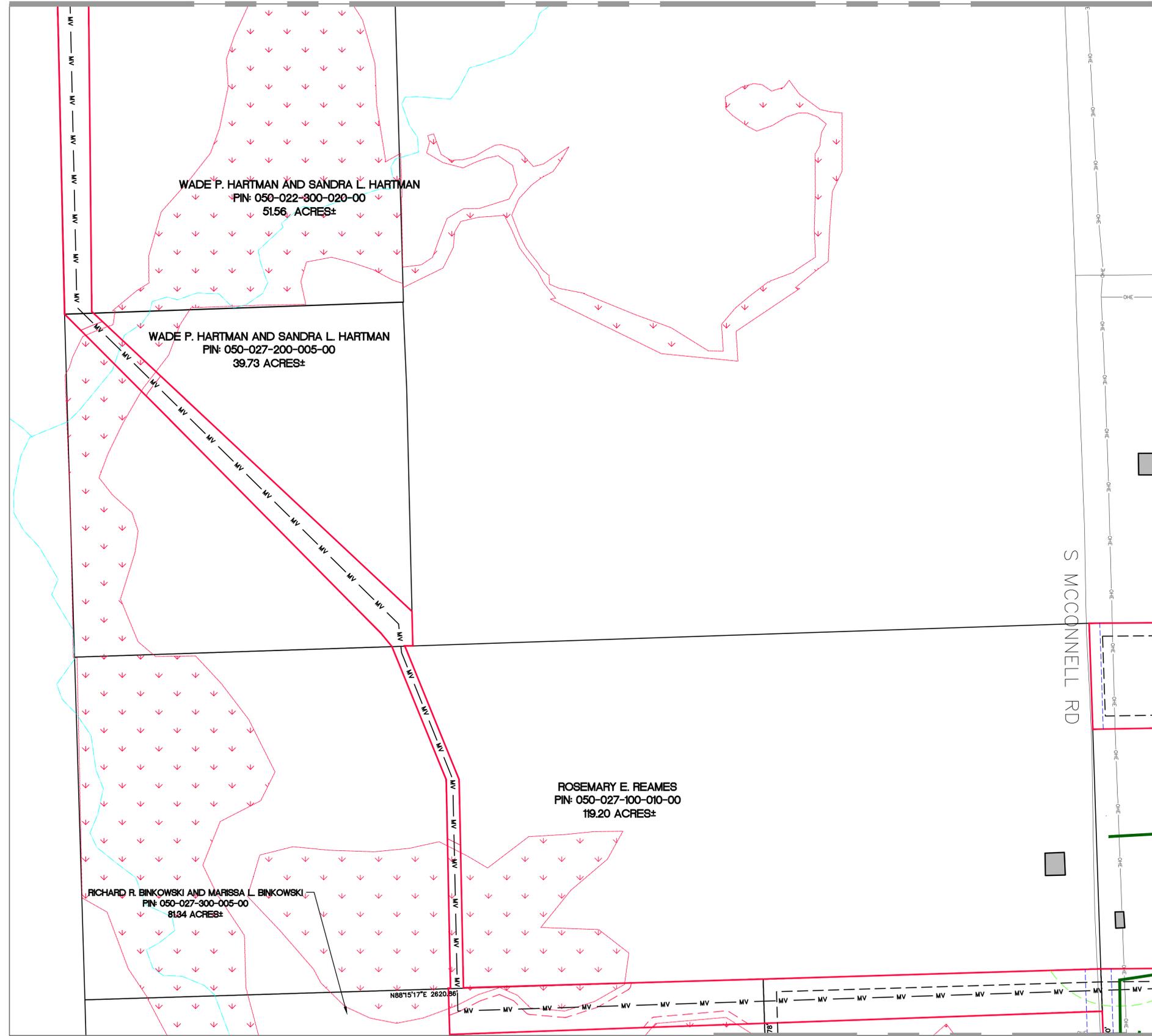


LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
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- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

MATCHLINE-09 (SEE SHEET 12)

S MCCONNELL RD



MATCHLINE-20 (SEE SHEET 13)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---

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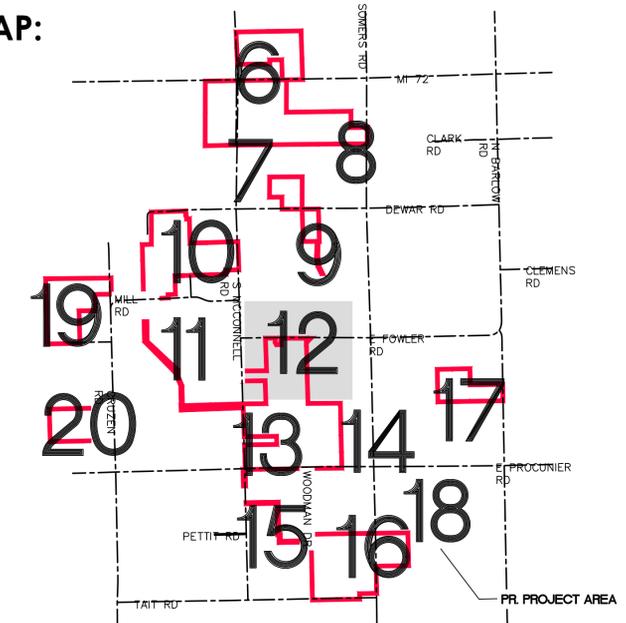
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PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS
SECTIONS:	11, 13-15, 22-27, 34-36;
TOWN, RANGE:	T26N, R08E
TOWNSHIP:	GUSTIN TOWNSHIP
COUNTY:	ALCONA COUNTY, MICHIGAN
DATE	AUGUST 1, 2024
REVISIONS	
SCALE	0 100 200 1" = 200 FEET
DR.	GS CH. ES
P.M.	ES
BOOK	--
JOB	23008071
SHEET NO.	11

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG



811
Know what's below.
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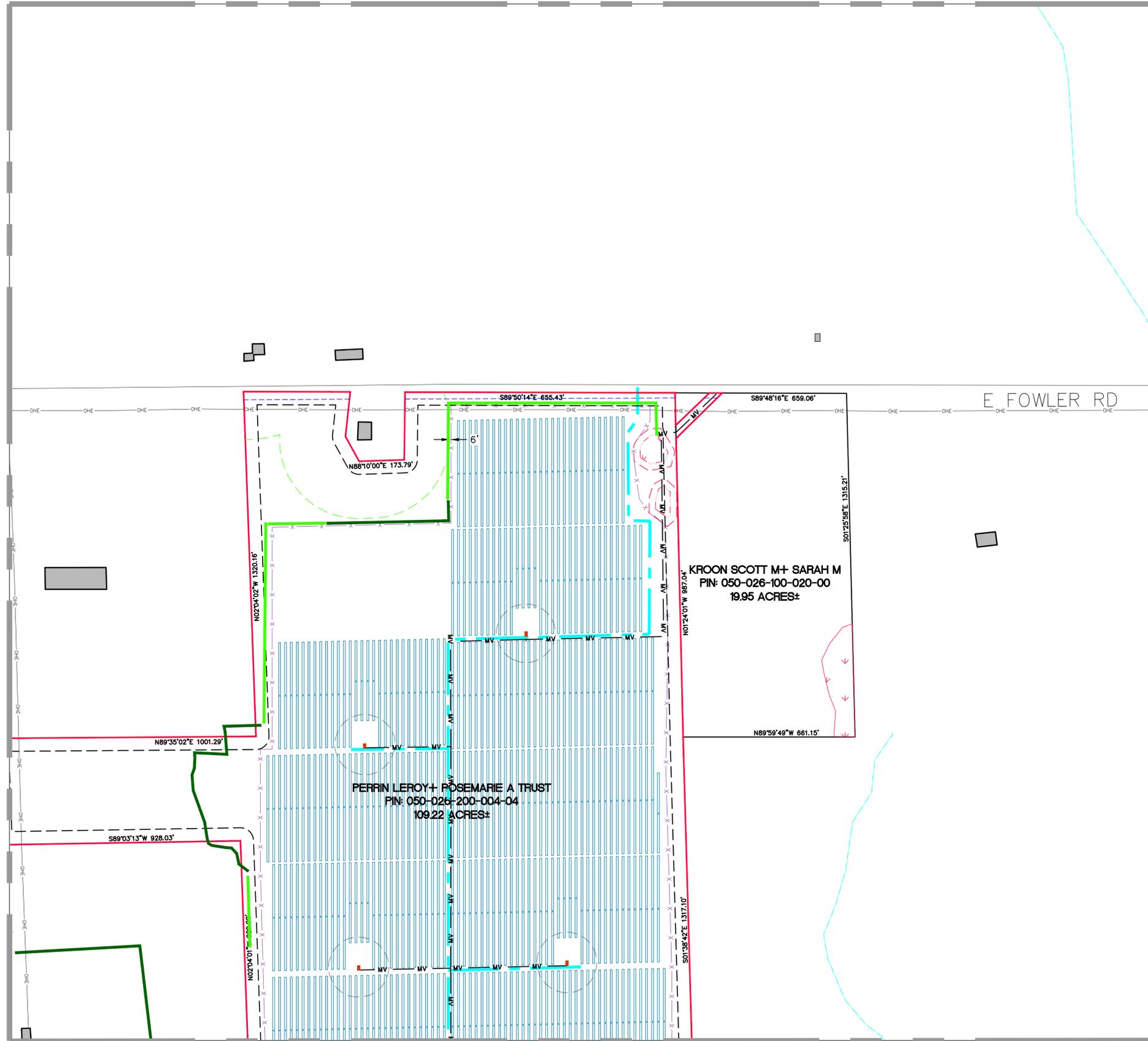
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MATCHLINE-09 (SEE SHEET 11)



MATCHLINE-10 (SEE SHEET 13)

LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
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- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- 16** PARCEL ID (SEE SHEET 02)

SETBACK TABLE

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---

SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: **SAPLING SOLAR, LLC**
PROJECT: **SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS**
PROPOSED CONDITIONS

DATE: **AUGUST 1, 2024**

REVISIONS

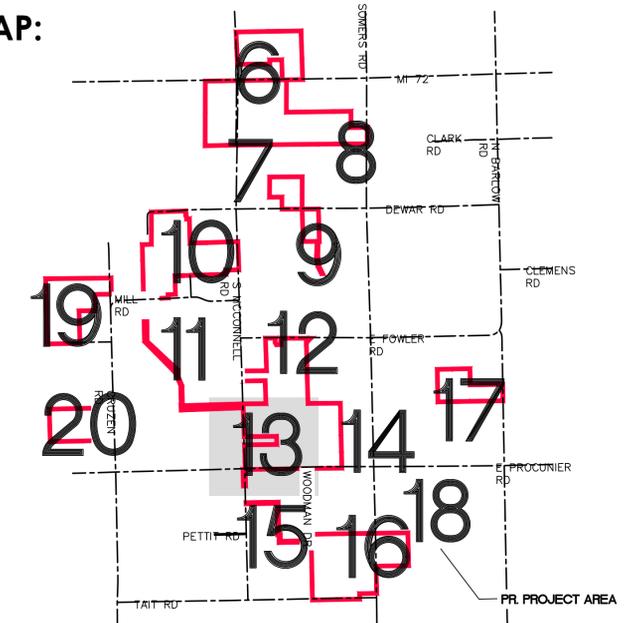
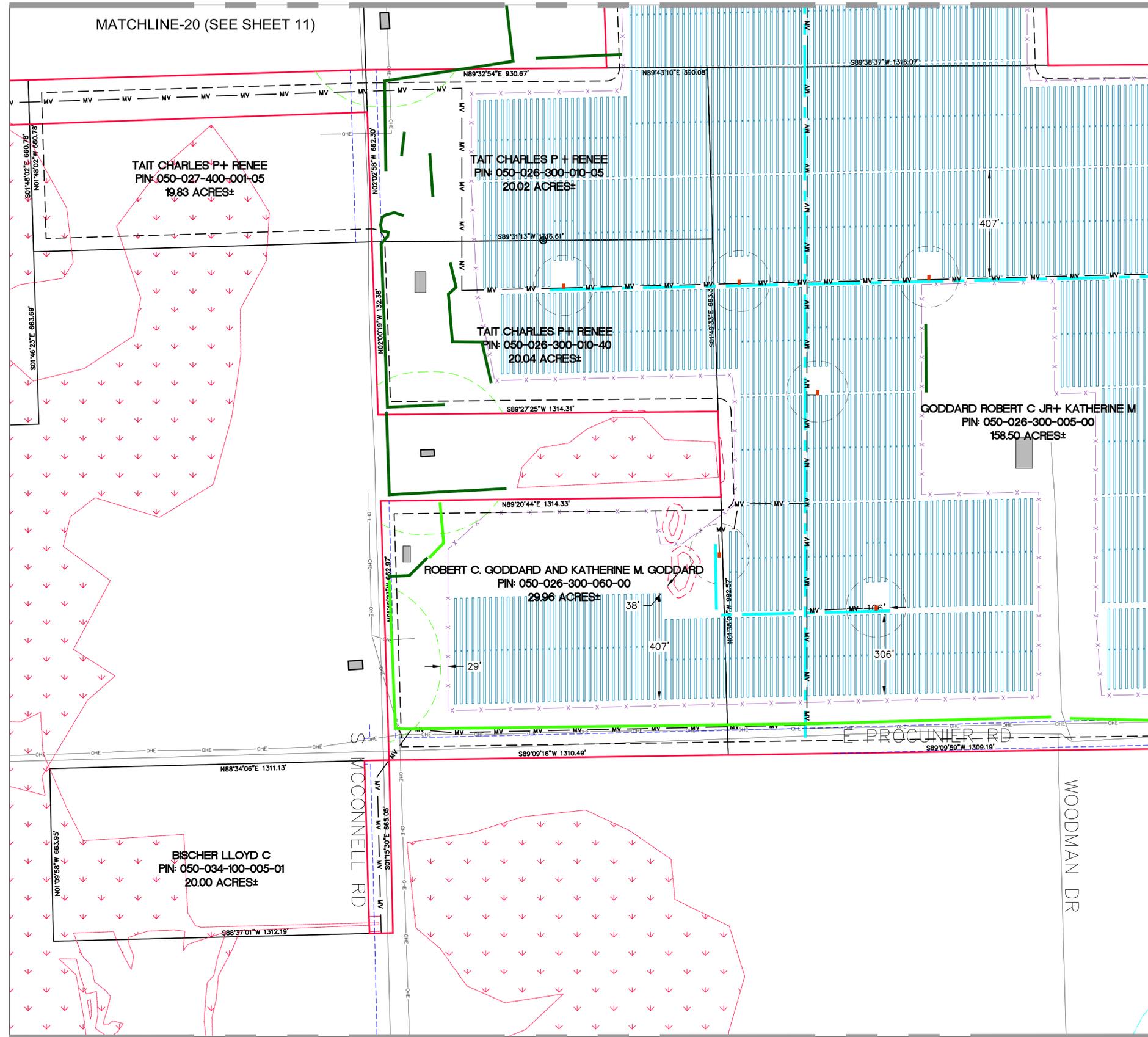
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JOB: 23008071
SHEET NO.: **12**

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-10 (SEE SHEET 12)

KEY MAP:



LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
- EXIST. CONTOUR MAJOR
- EXIST. WATER WELL
- PROP. UNDERGROUND COLLECTION
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---

Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OR OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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SOUTHFIELD, MI 48076
248.447.2000

CLIENT	SAPLING SOLAR, LLC	SECTIONS: 11, 13-15, 22-27, 34-36;	TOWN, RANGE: T26N, R08E
PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS	TOWNSHIP	GUSTIN TOWNSHIP
DATE	AUGUST 1, 2024	COUNTY	ALCONA COUNTY, MICHIGAN
REVISIONS			
SCALE	0 100 200 1" = 200 FEET		
DR.	GS	CH.	ES
P.M.	ES		
BOOK	---		
JOB	23008071		
SHEET NO.	13		

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

MATCHLINE-20 (SEE SHEET 11)

TAIT CHARLES P + RENEE
PIN: 050-027-400-001-05
19.83 ACRES±

TAIT CHARLES P + RENEE
PIN: 050-026-300-010-05
20.02 ACRES±

TAIT CHARLES P + RENEE
PIN: 050-026-300-010-40
20.04 ACRES±

GODDARD ROBERT C JR + KATHERINE M
PIN: 050-026-300-005-00
158.50 ACRES±

ROBERT C. GODDARD AND KATHERINE M. GODDARD
PIN: 050-026-300-060-00
29.96 ACRES±

BISCHER LLOYD C
PIN: 050-034-100-005-01
20.00 ACRES±

MATCHLINE-14 (SEE SHEET 15)

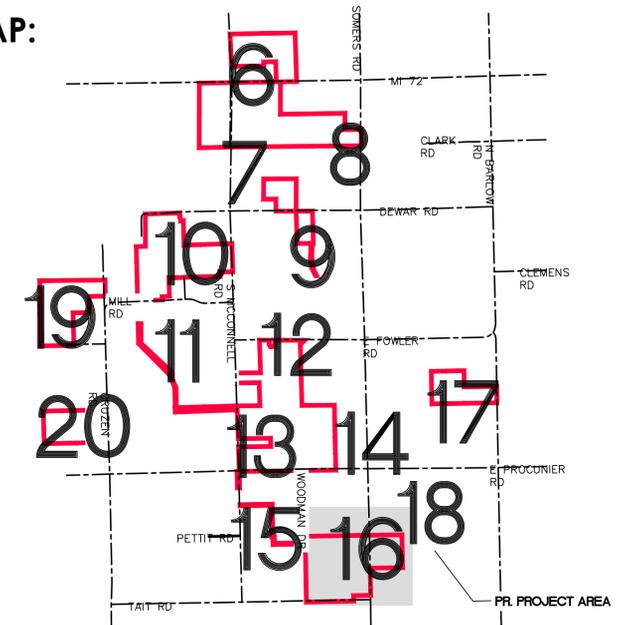
MATCHLINE-11 (SEE SHEET 14)

V:\PROJECTS\DATA\PROJECTS\23008071-04-INDIVIDUALPROPOSED.DWG 8/1/2024 9:53 AM GUSTIN, RENEE

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-15 (SEE SHEET 14)

KEY MAP:



Call what's below.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

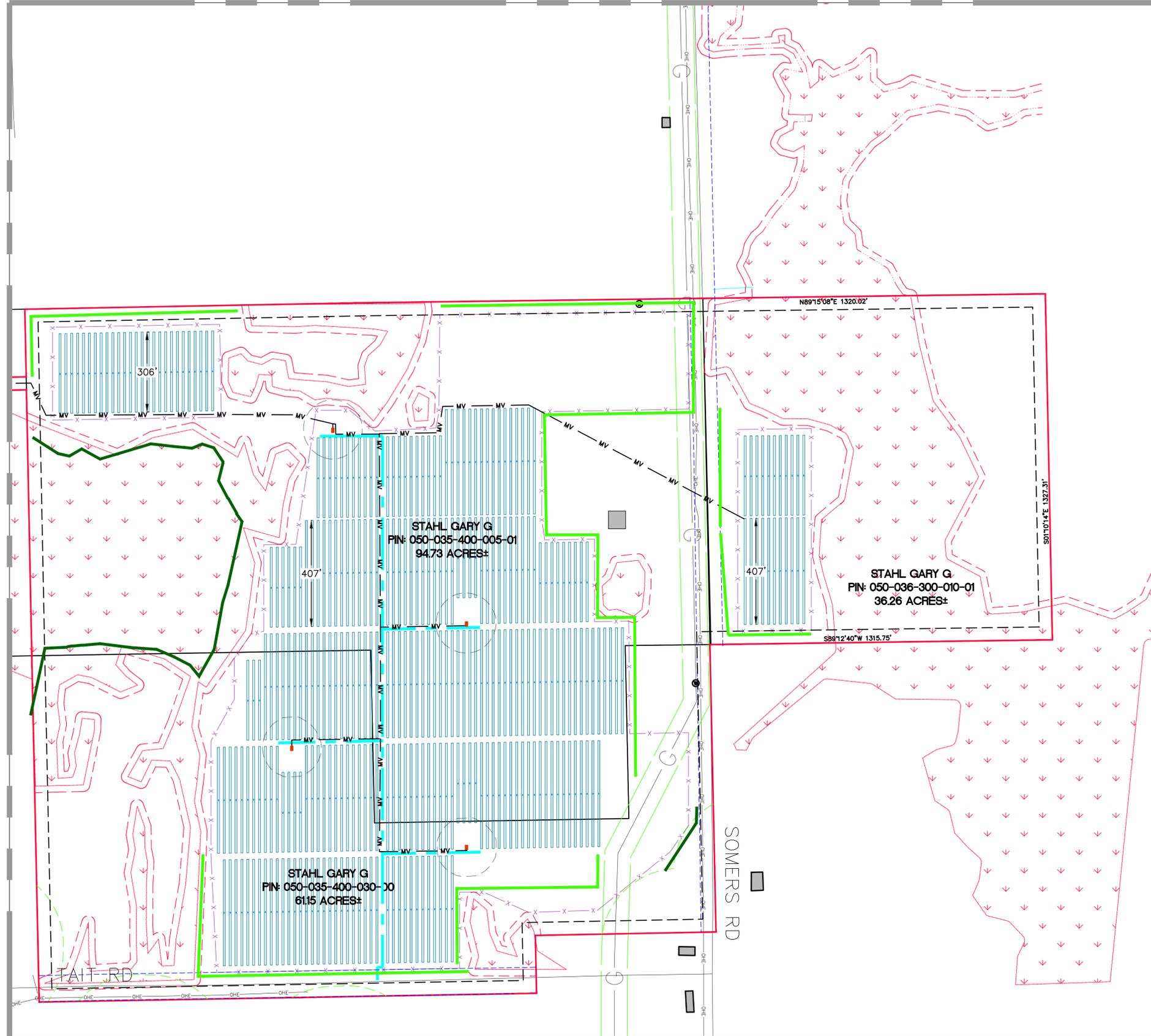
NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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MATCHLINE-17 (SEE SHEET 15)

MATCHLINE-18 (SEE SHEET 18)



LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
- EXIST. CONTOUR MINOR
- EXIST. CONTOUR MAJOR
- EXIST. WATER WELL
- PROP. UNDERGROUND COLLECTION
- PROP. SOLAR ARRAY
- PROP. FENCE
- PROP. GRAVEL ACCESS DRIVE
- EXIST. GAS PIPELINE
- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE

TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---

SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: SAPLING SOLAR, LLC
PROJECT: SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS
PROPOSED CONDITIONS

DATE: AUGUST 1, 2024

REVISIONS

NO.	DATE	DESCRIPTION

SCALE: 0 100 200
1" = 200 FEET
DR. GS CH. ES
P.M. ES
BOOK: --
JOB: 23008071
SHEET NO.: 16

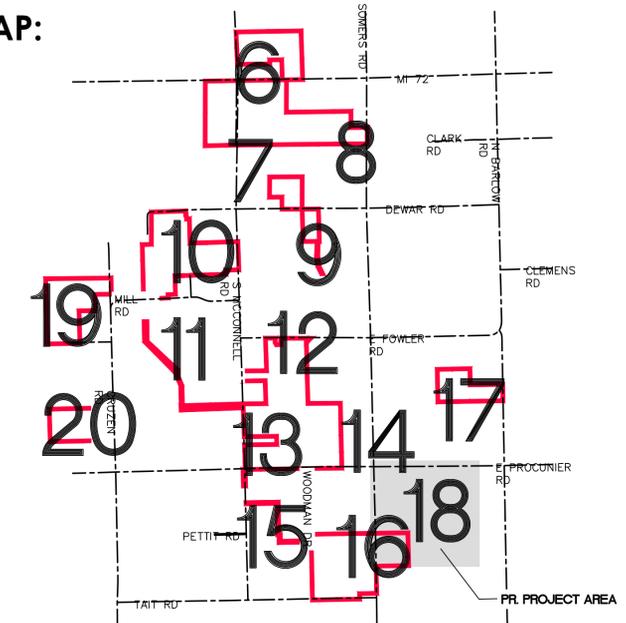
C:\PROJECTS\23008071\PROJECTS\23008071 - RANCHO PINES SAPLING SOLAR\DWG\PLANS\INDIVIDUAL\PROPOSED.DWG 8/1/2024 9:54 AM GHPTN PHELNE

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

MATCHLINE-20 (SEE SHEET 17)

KEY MAP:

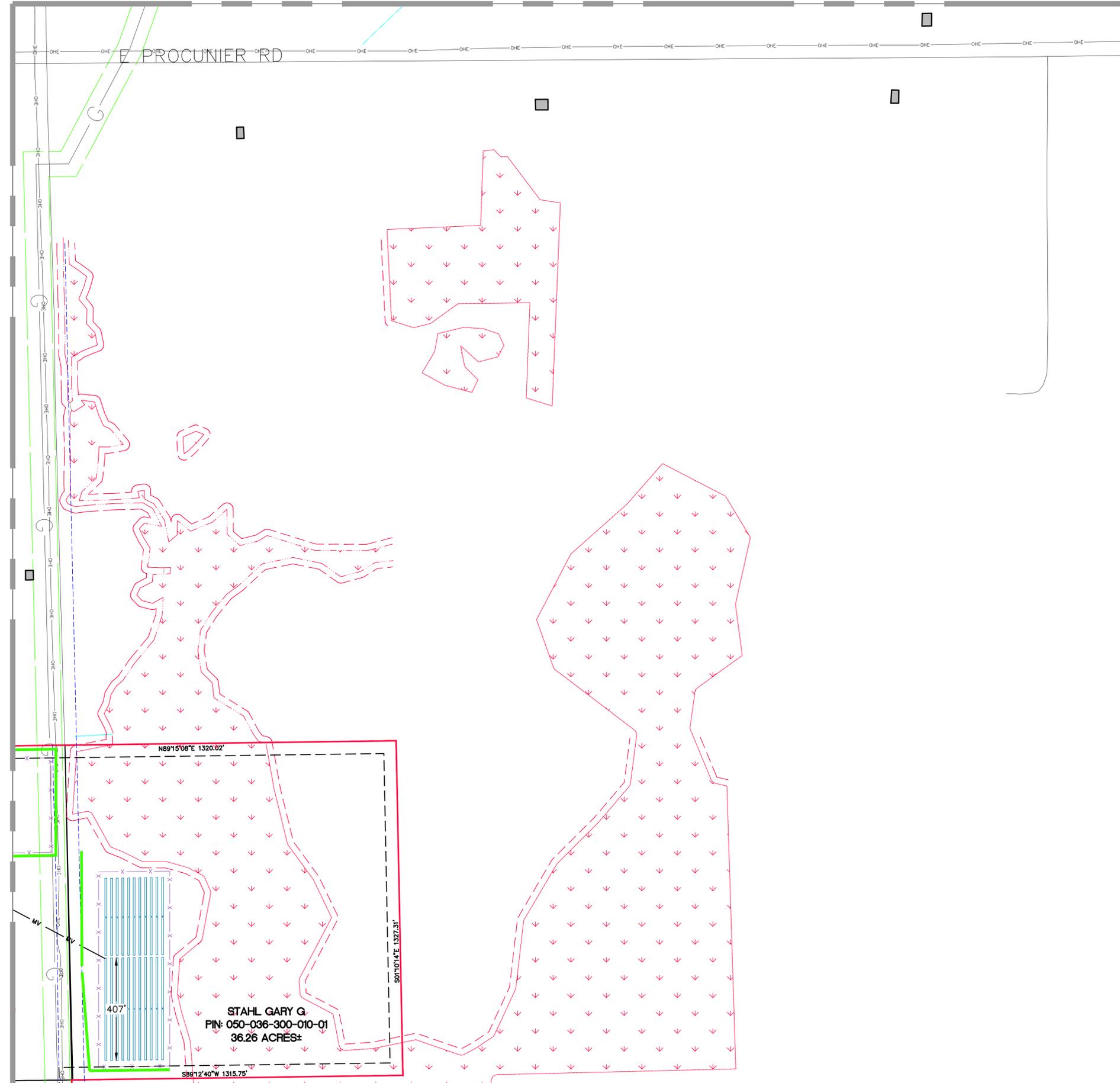


LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
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- EXIST. OVERHEAD ELECTRICAL
- EXIST. RESIDENCE
- EXIST. CULVERT
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- PROP. FENCE
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- PROP. INVERTOR
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- PROPOSED OVERHEAD TRANSMISSION 55 DBA SOUND CONTOUR
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- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	- - - -
WETLAND/WATERCOURSE (VOLUNTARY)	25'	- . - . - .
INHABITED NON-PARTICIPATING RESIDENCE	300'	- - - - -

MATCHLINE-18 (SEE SHEET 16)



STAHL GARY Q
 PIN: 050-036-300-010-01
 36.26 ACRES

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 SOUTHFIELD, MI 48076
 248.447.2000

CLIENT	SAPLING SOLAR, LLC	SECTIONS: 11, 13-15, 22-27, 34-36;	TOWN, RANGE: T26N, R08E
PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS	TOWNSHIP	GUSTIN TOWNSHIP
DATE	AUGUST 1, 2024	COUNTY	ALCONA COUNTY, MICHIGAN

REVISIONS

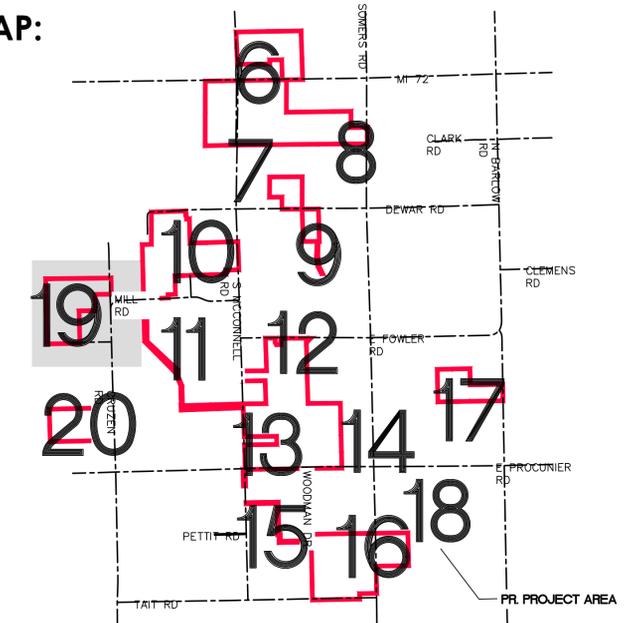
NO.	DATE	DESCRIPTION

SCALE: 0 100 200
 1" = 200 FEET
 DR. GS CH. ES
 P.M. ES
 BOOK --
 JOB 23008071
 SHEET NO. **18**

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

KEY MAP:

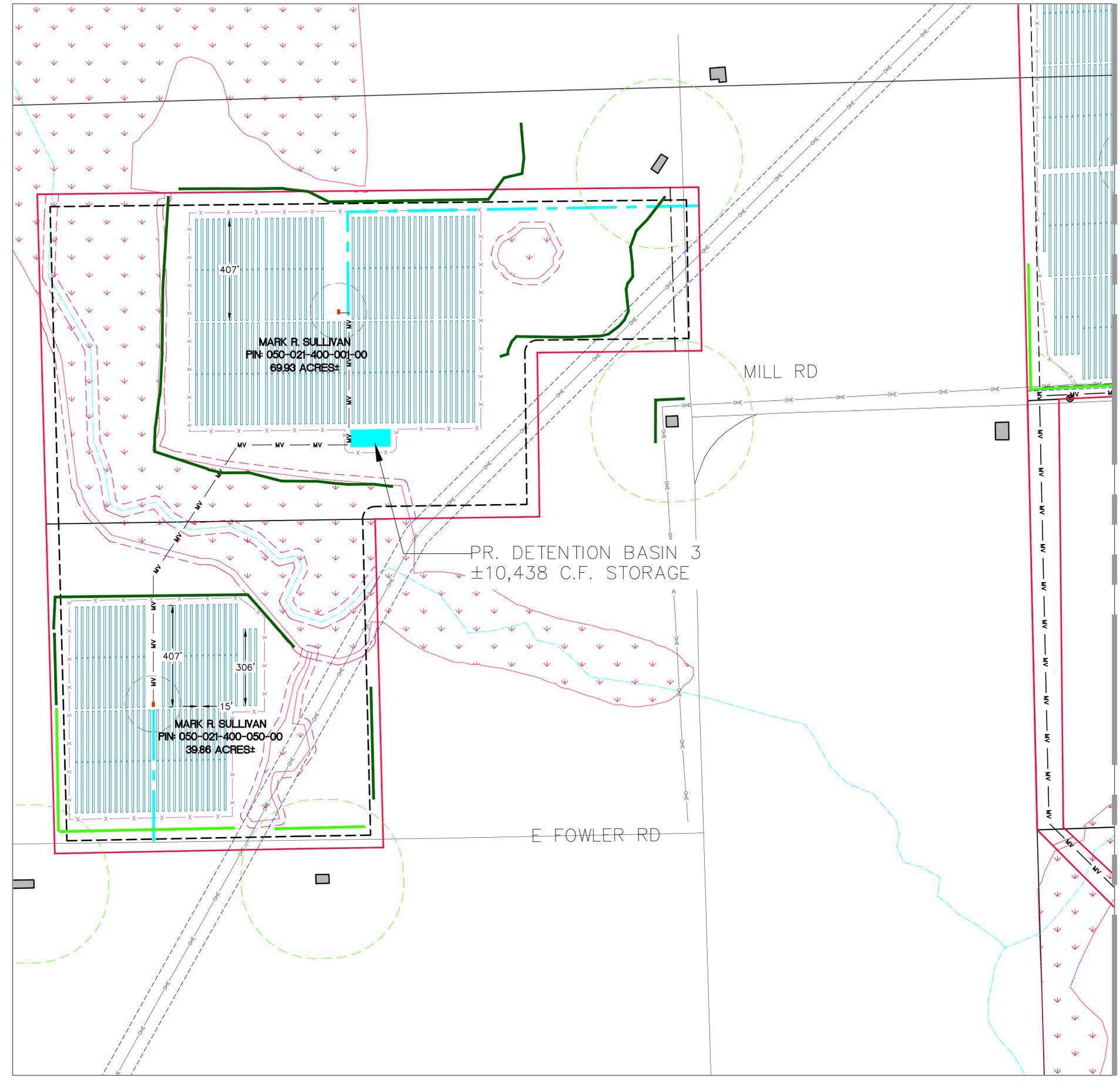


MATCHLINE-20 (SEE SHEET 10)

LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
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- POINT OF INTERCONNECTION (POI)
- PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	----
ROAD CENTERLINE	50'	- - - -
WETLAND/WATERCOURSE (VOLUNTARY)	25'	- - - -
INHABITED NON-PARTICIPATING RESIDENCE	300'	- - - -



811
Know what's below.
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SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: **SAPLING SOLAR, LLC**
PROJECT: **SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS**

DATE: **AUGUST 1, 2024**

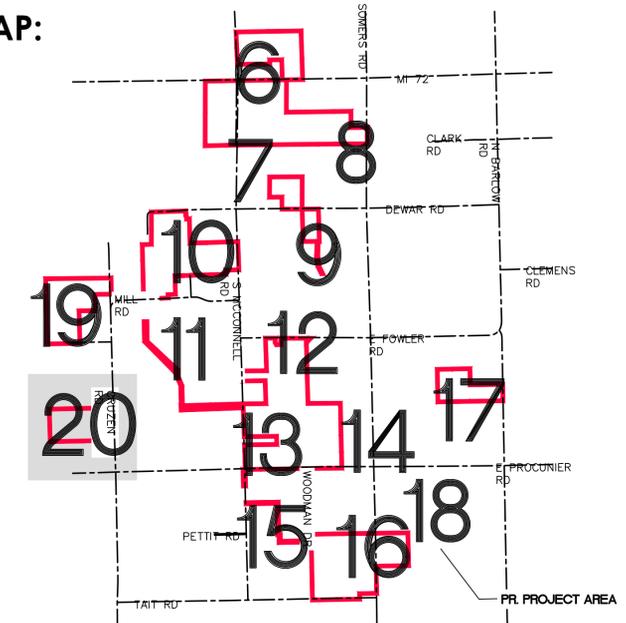
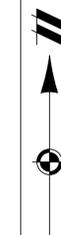
REVISIONS

SCALE: 0 100 200
1" = 200 FEET
DR. GS CH. ES
P.M. ES
BOOK --
JOB: 23008071
SHEET NO. **19**

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

KEY MAP:



LEGEND

- EXIST. WATERCOURSE CENTERLINE
- EXIST. WETLAND
- EXIST. UTILITY EASEMENT
- EXIST. ROAD R.O.W.
- EXIST. ROAD CENTERLINE
- EXIST. SECTION / QUARTER SECTION
- EXIST. TOWNSHIP BOUNDARY
- PARCEL BOUNDARY
- PROJECT AREA
- EXIST. OVERHEAD ELECTRICAL
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- PROP. INVERTOR
- EX. VEGETATION BUFFER
- PROP. VEGETATION BUFFER
- PROPOSED OVERHEAD TRANSMISSION
- 55 DBA SOUND CONTOUR
- PROPOSED SUBSTATION
- PROPOSED STORMWATER DETENTION POND
- POINT OF INTERCONNECTION (POI)
- 16** PARCEL ID (SEE SHEET 02)

SETBACK TABLE		
TYPE	DISTANCE	LINETYPE
NON-PARTICIPATING PARCELS	50'	---
ROAD CENTERLINE	50'	---
WETLAND/WATERCOURSE (VOLUNTARY)	25'	---
INHABITED NON-PARTICIPATING RESIDENCE	300'	---



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248.447.2000

CLIENT	SAPLING SOLAR, LLC
PROJECT	SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS PROPOSED CONDITIONS
DATE	AUGUST 1, 2024
SECTIONS:	11, 13-15, 22-27, 34-36;
TOWN, RANGE:	T26N, R08E
TOWNSHIP	GUSTIN TOWNSHIP
COUNTY	ALCONA COUNTY, MICHIGAN

REVISIONS

NO.	DATE	DESCRIPTION

SCALE 0 100 200
1" = 200 FEET
DR. GS CH. ES
P.M. ES
BOOK --
JOB 23008071
SHEET NO. 20

CAD FILE: 23008071-04-INDIVIDUALPROPOSED.DWG

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

SAPLING SOLAR, LLC
 EMERGENCY CONTACT: (XXX) XXX-XXXX
 OPERATOR CONTACT: (XXX) XXX-XXXX
 COMPLAINT RESOLUTION: (XXX) XXX-XXXX

NOTES:

- PHONE CONTACTS TO BE UPDATED BEFORE CONSTRUCTION.
- TOP OF SIGN TEXT 125 mm (5") MIN CLEAR SPACE FROM GATE OR DOOR JAMB (STRIKE SIDE).
- PROVIDE A BLANK PANEL FOR BACK SIDE.
- CONTRAST BETWEEN CHARACTER, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- CHARACTERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- SIGN SHALL BE 1 mm (0.04") THK (MIN) ALUMINUM SHEET.
- RAISED UPPERCASE LETTER 1 mm (1/32") TALL, MIN.
- FOR GATED ACCESS POINT ENTRANCES.

CONTACT INFORMATION SIGNAGE
NO SCALE

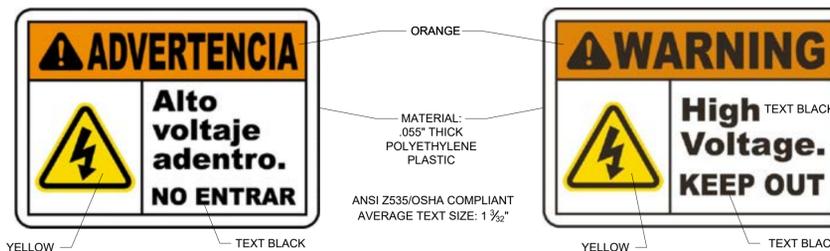
SIGNAGE DETAILS

WARNING:
 HAZARDOUS VOLTAGE
 AUTHORIZED ACCESS
 ONLY

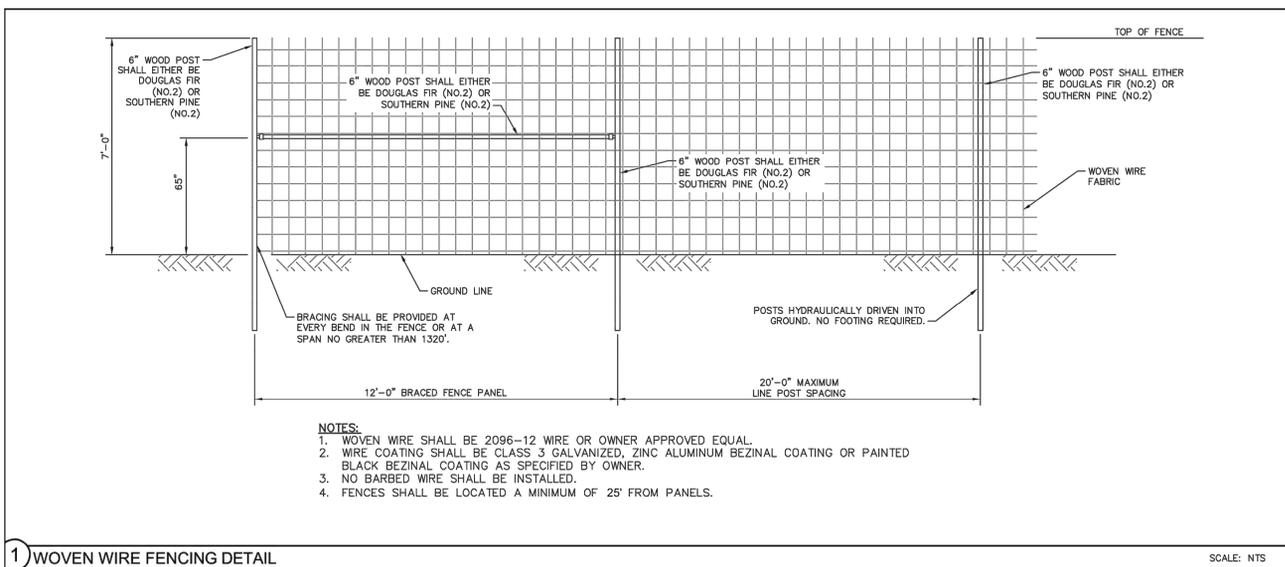
NOTES:

- TOP OF SIGN TEXT 125 mm (5") MIN CLEAR SPACE FROM GATE OR DOOR JAMB (STRIKE SIDE).
- PROVIDE A BLANK PANEL FOR BACK SIDE.
- CONTRAST BETWEEN CHARACTER, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- CHARACTERS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1:5 AND 1:10.
- SIGN SHALL BE 1 mm (0.04") THK (MIN) ALUMINUM SHEET.
- RAISED UPPERCASE LETTER 1 mm (1/32") TALL, MIN.
- FOR PCS TRANSFORMER MV COMPARTMENT.

AUTHORIZED PERSONNEL SIGNAGE
NO SCALE

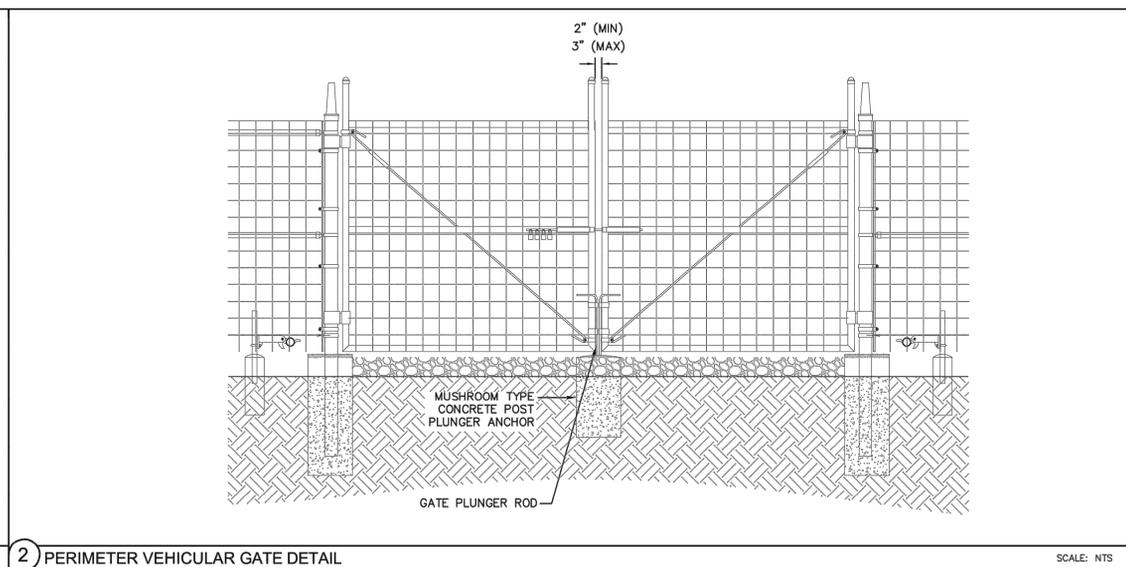


WARNING SIGNS
NO SCALE



- NOTES:
- WOVEN WIRE SHALL BE 2096-12 WIRE OR OWNER APPROVED EQUAL.
 - WIRE COATING SHALL BE CLASS 3 GALVANIZED, ZINC ALUMINUM BEZINAL COATING OR PAINTED BLACK BEZINAL COATING AS SPECIFIED BY OWNER.
 - NO BARBED WIRE SHALL BE INSTALLED.
 - FENCES SHALL BE LOCATED A MINIMUM OF 25' FROM PANELS.

1 WOVEN WIRE FENCING DETAIL
SCALE: NTS



2 PERIMETER VEHICULAR GATE DETAIL
SCALE: NTS

Product Comparison Table:

Product	Technology	Type
Streetworks	LED	Spot
UFLD Utility Flood	LED	Flood

Streetworks UFLD Utility Flood Floodlight & Sign Lighting Luminaire

Product Features: High Performance, Long Life, Easy to Install, Compact Design, Wide Beam Spread, High Output, Low Power Consumption, Durable Housing, Weather Resistant, Easy to Clean, No Maintenance, No Flicker, No Hum, No Noise, No Heat, No Vibration, No Electromagnetic Interference, No Radio Frequency Interference, No Infrared Radiation, No Ultraviolet Radiation, No Ionizing Radiation, No Radioactivity, No Toxicity, No Corrosion, No Degradation, No Aging, No Wear, No Tear, No Friction, No Adhesion, No Cohesion, No Adhesion, No Cohesion, No Adhesion, No Cohesion.

Product Certifications: CE, RoHS, FCC, ENEC, SAA, CCC, CB, PSE, VDE, UL, ETL, Intertek, TÜV, BSI, ISO 9001, ISO 14001, ISO 45001, ISO 50001, ISO 26000, ISO 27001, ISO 28000, ISO 29000, ISO 30000, ISO 31000, ISO 33000, ISO 34000, ISO 35000, ISO 36000, ISO 37000, ISO 38000, ISO 39000, ISO 40000, ISO 41000, ISO 42000, ISO 43000, ISO 44000, ISO 45000, ISO 46000, ISO 47000, ISO 48000, ISO 49000, ISO 50000, ISO 51000, ISO 52000, ISO 53000, ISO 54000, ISO 55000, ISO 56000, ISO 57000, ISO 58000, ISO 59000, ISO 60000, ISO 61000, ISO 62000, ISO 63000, ISO 64000, ISO 65000, ISO 66000, ISO 67000, ISO 68000, ISO 69000, ISO 70000, ISO 71000, ISO 72000, ISO 73000, ISO 74000, ISO 75000, ISO 76000, ISO 77000, ISO 78000, ISO 79000, ISO 80000, ISO 81000, ISO 82000, ISO 83000, ISO 84000, ISO 85000, ISO 86000, ISO 87000, ISO 88000, ISO 89000, ISO 90000, ISO 91000, ISO 92000, ISO 93000, ISO 94000, ISO 95000, ISO 96000, ISO 97000, ISO 98000, ISO 99000, ISO 100000, ISO 101000, ISO 102000, ISO 103000, ISO 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Streetworks UFLD Utility Flood

Ordering Information

Product Specifications

Mounting Details

Drilling Pattern

Optional Integrated Sensor

Accessories

Top and Side Views

Front View

Bottom View

COOPER Lighting Inc.

Streetworks UFLD Utility Flood

Energy and Performance Data

Current Draw

Lumen Maintenance

COOPER Lighting Inc.

Streetworks UFLD Utility Flood

Energy and Performance Data

Current Draw

Lumen Maintenance

COOPER Lighting Inc.

811 Know what's below. Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK, OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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ATWELL 866.850.4200 www.atwell-group.com

TWO TONNE SQUARE, SUITE 700 SOUTHFIELD, MI 48076 248.447.2000

SECTIONS: 11, 13-15, 22-27, 34-36; TOWN, RANGE: T26N, R08E GUSTIN TOWNSHIP ALCONA COUNTY, MICHIGAN

SAPLING SOLAR, LLC PROJECT: SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS SECURITY DETAILS CLIENT: DATE: AUGUST 1, 2024

REVISIONS

DR. GS CH. ES P.M. ES BOOK -- JOB: 23008071 SHEET NO. 22

NOTE: ALL DETAILS REPRESENTED ON THIS PLAN SHEET ARE CONCEPTUAL IN NATURE. PROVIDED ONLY TO INDICATE A GENERAL OVERVIEW OF PROPOSED PROJECT FACILITIES, AND ARE EXPECTED TO BE MODIFIED AND REFINED.

CAD FILE: 23008071-07-BUILDING

PRELIMINARY PLANS - NOT FOR CONSTRUCTION

www.jinkosolar.com

Jinko Solar
Building Your Future in Solar

Tiger Neo N-type
72HL4-BDV
550-570 Watt
BIFACIAL MODULE WITH DUAL GLASS

N-type
Positive power tolerance of 0~+3%

ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018: Occupational health and safety management systems

Key Features

- SMBB Technology**
Better light trapping and current collection to improve module power output and reliability.
- Hot 2.0 Technology**
The N-type module with hot 2.0 technology has better reliability and lower LID effect.
- PID Resistance**
Excellent Anti-PID performance guarantees via optimized mass-production process and materials control.
- Enhanced Mechanical Load**
Certified to withstand wind load (2400 Pascal) and snow load (1600 Pascal).
- Higher Power Output**
Module power increases 5-3% generally, bringing significantly lower LCOE and higher IRR.

Linear Performance Warranty

12 Year Product Warranty
30 Year Linear Power Warranty
0.40% Annual Degradation Over 30 years

Engineering Drawings

Electrical Performance & Temperature Dependence

Mechanical Characteristics

Packaging Configuration

SPECIFICATIONS

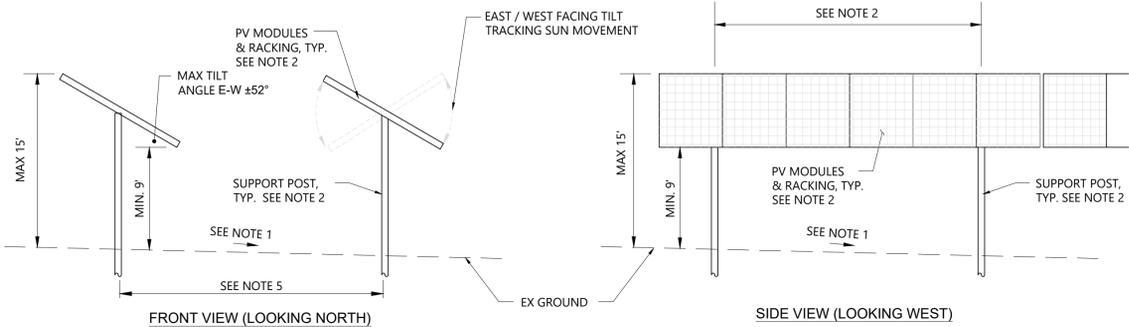
Module Size	72HL4-BDV						
	550W	560W	570W	580W	590W	600W	610W
Maximum Power (Pmax)	550W	560W	570W	580W	590W	600W	610W
Maximum Power Voltage (Vmp)	41.58V	39.12V	41.77V	39.20V	41.95V	39.25V	42.14V
Maximum Power Current (Imp)	13.23A	14.32A	13.64A	14.54A	13.98A	14.79A	14.37A
Open-circuit Voltage (Voc)	50.27V	47.25V	50.47V	47.54V	50.67V	48.15V	50.87V
Short-circuit Current (Isc)	14.55A	15.72A	14.85A	16.02A	15.15A	16.31A	15.64A
Module Efficiency STC (%)	21.29%	21.48%	21.48%	21.48%	21.85%	22.05%	22.05%

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Power Gain (%)	550W	560W	570W	580W	590W	600W	610W
1%	420W	430W	440W	450W	460W	470W	480W
2%	840W	860W	880W	900W	920W	940W	960W
3%	1260W	1290W	1320W	1350W	1380W	1410W	1440W

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MODULE DETAILS
NO SCALE



- GENERAL ARRAY NOTES:**
- SITE DRAINAGE IS INTENDED TO FOLLOW NATURAL DRAINAGE PATTERNS WITH LOCALIZED GRADING AS REQUIRED TO MEET TRACKER VENDOR REQUIREMENTS FOR MAX SLOPE AND POST HEIGHT TOLERANCES.
 - FINAL PV MODULE RACKING CONFIGURATION AND SUPPORT POST DESIGN (SIZE, EMBEDMENT DEPTH, SPACING, ETC.) TO BE DETERMINED DURING THE ENGINEERING PHASE.
 - SOLAR MODULES SHALL NOT BE INSTALLED WITHIN REQUIRED PERIMETER SETBACK AREAS.
 - PROPOSED SPACING BETWEEN ROWS ±15 FEET, SUBJECT TO CHANGE PENDING FINAL DESIGN.

GENERAL NOTES

- ARRAY SOURCE: ATWELL, LLC 7/24. THIS PLAN IS PRELIMINARY FOR PERMITTING PURPOSES. FINAL ARRAY CONFIGURATION TO BE OPTIMIZED DURING ENGINEERING PHASE.
- FINAL STRING SIZING TO BE CONFIRMED BY ENGINEER-OF-RECORD.
- MV COLLECTION CROSSINGS ARE TBD AFTER MV COLLECTION LAYOUT. ALL CROSSINGS TO BE FINALIZED BY ENGINEER OF RECORD. ALL COLLECTION LINES FROM PV ARRAYS WILL JOIN WITH PROJECT SUBSTATION ONCE PARTICIPATING LAND AND PV ARRAYS ARE FINALIZED. VEHICULAR AND PEDESTRIAN TRAFFIC, IN RELATION TO STREETS AND SIDEWALKS WILL BE SAFE AND CONVENIENT.
- CONSTRUCTION OF THE PROJECT SHALL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE (NESC), STATE CONSTRUCTION CODE, AND COUNTY BUILDING CODE.
- COMPONENTS: COMPONENTS OF THE SOLAR ARRAY SHALL BE APPROVED BY THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE), SOLAR RATING AND CERTIFICATION CORPORATION (SRCC), ELECTRONICS TESTING LABORATORY (ETL), OR OTHER CERTIFICATION ORGANIZATION OF APPROVED BY CITY.
- DISTRIBUTION, TRANSMISSION & INTERCONNECTION: ALL COLLECTION LINES FROM THE SOLAR ARRAY TO ANY ELECTRICAL COLLECTION POINT SHALL BE LOCATED AND MAINTAINED UNDERGROUND INSIDE THE FENCED ARRAY, EXCEPT IN AREAS WHERE TECHNICAL OR PHYSICAL CONSTRAINTS MAKE IT PREFERABLE TO INSTALL EQUIPMENT ABOVE GROUND. THIS REQUIREMENT EXCLUDES TRANSMISSION EQUIPMENT MEANT TO CONNECT THE PROJECT TO THE LOCAL TRANSMISSION OR DISTRIBUTION SYSTEM.
- ALL SCREENING SHALL FOLLOW TOWNSHIP ZONING ORDINANCE STANDARDS - REFER TO LANDSCAPING PLAN. VEGETATIVE COVER CAN BE SEEN ON THE BACKGROUND AERIAL IMAGE.
- THE PERIMETER OF THE ARRAY WILL BE COMPLETELY ENCLOSED BY PERIMETER FENCING.
- WATER AND SANITARY SEWER IS NOT ANTICIPATED FOR THE PROJECT. IF A WATER WELL IS REQUIRED FOR DEWATERING DURING CONSTRUCTION OR FOR AN OPERATIONS AND MAINTENANCE BUILDING, A WELL PERMIT WILL BE ACQUIRED.
- EMERGENCY VEHICLE ACCESS WITHIN THE ARRAY SHALL BE PROVIDED TO THE INVERTER STATIONS AND WILL CONSIST OF AN ADEQUATE GRAVEL SURFACING CAPABLE OF SUPPORTING EMERGENCY VEHICLES AND ALSO SHALL PROVIDE A TURNAROUND OR LOOPED ROADWAY FOR EASE OF EGRESS. KNOX BOXES AND KEYS SHALL BE PROVIDED AT EACH LOCKED ENTRANCE.
- EXISTING DRAINAGE PATTERNS WILL GENERALLY BE MAINTAINED TO FOLLOW EXISTING CONDITIONS. LOCALIZED GRADING WILL BE PERFORMED AS NECESSARY TO SMOOTH TERRAIN TO SUIT TRACKER VENDOR REQUIREMENTS AND OPTIMIZE POST HEIGHT REQUIREMENTS.
- STORMWATER RUNOFF (VOLUME AND FLOW RATE) FROM THE ARRAY WILL NOT EXCEED EXISTING AGRICULTURAL RUNOFF.
- IN AREAS WHERE ALL OR NEARLY ALL THE PROPOSED ARRAY IS SITED IN LAND CURRENTLY CATEGORIZED AS WOODED OR MEADOW, THE PROPOSED SOLAR ARRAY MAY RESULT IN A CALCULATED INCREASE IN STORMWATER RUNOFF.
- PERMANENT STORMWATER BASINS ARE APPROXIMATELY SIZED AND LOCATED BASED ON PRELIMINARY STORMWATER STUDY AND ARE NOT FINAL. THE EPC WILL BE RESPONSIBLE FOR DEVELOPING FINAL SIZE, LOCATIONS, AND OUTLET STRUCTURES UPON FINAL DESIGN.
- DURING CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH PERMITTING REQUIREMENTS OF THE AGENCY HAVING JURISDICTION.
- FINAL GROUND COVER OF THE ARRAY WILL CONSIST OF GRASSES SUITABLE FOR GROWTH IN THIS AREA WITH MINIMAL MAINTENANCE (NO IRRIGATION). MAINTENANCE WILL CONSIST OF MOWING AS NECESSARY TO AVOID SHADING ON PANELS.
- EXISTING SURVEY INFORMATION ON THESE PLANS IS BASED ON DESKTOP DATA SOURCES (GIS, ETC.) AND IS NOT SUITABLE TO BE USED FOR CONSTRUCTION. FIELD SURVEY IS REQUIRED TO BE PERFORMED PRIOR TO PROCEEDING WITH DETAILED DESIGN AND IFC DRAWINGS.
- DRIVEWAY APPROACHES TO AND/OR UTILITY CROSSINGS OF EXISTING COUNTY ROADS SHALL REQUIRE A PERMIT AND BE DESIGNED IN ACCORDANCE WITH ALCONA COUNTY ROAD COMMISSION REQUIREMENTS.
- CONNECTIONS AND/OR CROSSINGS OF EXISTING COUNTY DRAINS WILL REQUIRE A PERMIT AND BE DESIGNED IN ACCORDANCE WITH ALCONA COUNTY DRAIN COMMISSION REQUIREMENTS.
- DEVELOPER WILL WORK WITH LANDOWNERS TO CORRECT ANY DAMAGES TO DRAIN TILES ENCOUNTERED DURING PROJECT CONSTRUCTION.
- UNDERGROUND UTILITY CROSSINGS OF COUNTY ROADS, DRAINS, WATERCOURSES AND REGULATED WETLANDS SHALL BE VIA TRENCHLESS INSTALLATION TO MINIMIZE IMPACTS TO THOSE FEATURES.
- SNOW REMOVAL WILL BE PERFORMED AS NECESSARY BY A LOCAL CONTRACTOR FOR MAINTENANCE AND EMERGENCY SERVICES. SNOW WILL NOT BE STORED IN LOCATIONS THAT WILL INTERFERE WITH THE PUBLIC OR ADJACENT LANDOWNERS.

SUP/SITE PLAN NOTES
GUSTIN TOWNSHIP

- OWNER COMMITMENTS**
- DESIGN STANDARDS**
- ACCESS ROAD SIZING:
 - 16' WIDE CLEARANCE REQUIRED FOR EMERGENCY PATHWAYS LEADING TO INVERTERS.
 - 20' WIDE CLEARANCE REQUIRED FOR PATHWAYS LEADING TO SUBSTATION.

- SETBACKS**
- A MINIMUM SETBACK DISTANCE OF FIFTY (50) FEET OF THE EDGE OF THE SOLAR ARRAY TO ALL NON-PARTICIPATING PARCEL PROPERTY LINES. INTERNAL PROPERTY LINES OF PARTICIPATING PARCELS UTILIZED FOR PLACEMENT OF THE SOLAR ARRAY ARE NOT SUBJECT TO ANY SETBACKS.
 - A MINIMUM SETBACK DISTANCE OF FIFTY (50) FEET OF THE EDGE OF THE SOLAR ARRAY TO ROAD CENTERLINES.
 - A MINIMUM SETBACK DISTANCE OF THREE HUNDRED (300) FEET FROM THE SOLAR ARRAY AND EDGE OF ANY NON-PARTICIPATING DWELLING.
 - A MINIMUM VOLUNTARY SETBACK DISTANCE OF TWENTY FIVE (25) FEET FROM PROJECT INFRASTRUCTURE AND NATURAL FEATURES, WHEREVER APPLICABLE.

- GLARE STANDARDS**
- SOLAR ENERGY SYSTEMS SHALL BE LOCATED OR PLACED SO THAT CONCENTRATED SOLAR GLARE SHALL NOT BE DIRECTED TOWARD OR ONTO NEARBY PROPERTIES OR ROADWAYS AT ANY TIME OF THE DAY.

- SOUND STANDARDS**
- SOUND PRESSURE MAY NOT EXCEED 55 DB(A) AT ANY NON-PARTICIPATING RESIDENCE MEASURED AS LEQ(1 HOUR).

- LIGHTING STANDARDS**
- ANY REQUIRED LIGHTING FOR THE SOLAR FACILITY OR BUILDINGS OF THE SOLAR FACILITY SHALL BE DIRECTED AWAY AND BE SHIELDED FROM ADJACENT PROPERTIES AND PUBLIC ROADWAYS. LIGHTING MAY BE INCLUDED AT INVERTER PADS AND PROJECT SUBSTATION ONLY.

- FENCING STANDARDS**
- THE SOLAR FACILITY SHALL BE COMPLETELY ENCLOSED BY A SEVEN (7) FOOT HIGH PERIMETER FENCE TO RESTRICT UNAUTHORIZED ACCESS AS REQUIRED BY FEDERAL REGULATION.

- SAFETY & CERTIFIED COMPONENTS STANDARDS**
- ALL COMPONENTS OF THE SOLAR FACILITY WILL COMPLY WITH THE NATIONAL ELECTRIC SAFETY CODE (NESC) AND INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE).

- SOIL EROSION AND SEDIMENTATION CONTROL PLANS**
- SEPC PLANS WILL BE CREATED WITH EVERY APPLICATION TO SHOW EACH COMMUNITY HOW THEIR CONSTRUCTION ACTIVITY WILL PROTECT THE SURROUNDINGS AND STORMWATER ENCOUNTERED ONSITE. A SEPC PERMIT WITH ALCONA COUNTY WILL BE ACQUIRED FOR THE PROJECT BEFORE CONSTRUCTION.

SG4400UD-MV-US
Turnkey Station for 1500 Vdc System MV Transformer Integrated

HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99%.
- Full power operation at 40 °C(104 °F)
- Effective cooling, wide operation temperature

EASY O&M

- Integrated current, voltage and MV parameters monitoring function for online analysis and trouble shooting
- Modular design, easy for maintenance

SAVED INVESTMENT

- Low transportation and installation cost due to 20-foot container size design
- DC 1500V system, low system cost
- Integrated MV transformer and LV auxiliary power supply
- Q at night optional

GRID SUPPORT

- Compliance with standards: UL 1741, UL 1741 SA, IEEE 1547, Rule 21 and NEC code
- Low / High voltage ride through (L/HVRT), L/HFRT, soft start/stop
- Active & reactive power control and power ramp rate control

CIRCUIT DIAGRAM

EFFICIENCY CURVE

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INVERTER STATION DETAILS
NO SCALE

SUNGROW
Clean power for all

SG4400UD-MV-US

Typical Description	SG4400UD-MV-US
Input (DC)	1500V
Max. PV input voltage / Start-up input voltage	915V / 955V
Available DC Fuse Sizes	250A - 630A
MPP Voltage Range	915 - 1500V
No. of independent MPP inputs	2
No. of DC inputs	28 inputs: negative grounding (optional: 24 inputs: floating)
Max. PV input current	4 * 122A
Max. DC short-circuit current	4 * 325A
PV Array Configuration	Negative grounding or floating
Output (AC)	
AC output power	4400 kVA @ 40 °C(104 °F)
Nominal Grid Frequency / Grid Frequency Range	50/60 Hz / 45-65 Hz
Harmonic (THD)	< 3% (50 nominal power)
Power Factor at Nominal Power / Adjustable Power Factor	> 0.99 / 0.8 leading - 0.8 lagging
Efficiency	
Inverter Max. efficiency	99.1%
Inverter CEC efficiency	98.9%
Transformer	
Transformer rated power	4400 kVA
Transformer min. power	4400 kVA
LV / MV voltage	0.48/0.4V / 24.5 kV
Transformer vector	Dy1 (Optional Dy11, Dyn)
Transformer cooling type	KNAN (Optional OMAN)
Protection	
DC Input Protection	Load break switch + fuse
Inverter Output Protection	Circuit breaker
AC MV Output Protection	Load break switch + fuse
Surge protection	DC type II / AC type II
Grid Monitoring / Ground Fault Monitoring	Yes / Yes
Insulation Monitoring	Yes
Overheat Protection	Yes
General Data	
Dimensions (mm*H)	6058*2894*2438 mm, 238.5" * 114.0" * 96.0"
Weight	43637kg
Degree of Protection	NEMA 4X (Electronic for inverter) / NEMA 3R (Optional)
Auxiliary Power Supply	5kVA, 120Vac, Optional 3kVA, 480Vac/207Vac
Operating Ambient Temperature Range	-35 to 60 °C (p < 40 °C derating) / optional: -40 to 60 °C (p < 40 °C derating) / 31 to 140 °F (p < 104 °F derating) / optional: 40 to 140 °F (p < 104 °F derating)
Allowable Relative Humidity Range	0 - 100%
Cooling method	temperature controlled forced air cooling
Max. Operating Altitude	1000 m (standard) / > 1000 m (Customized) [3280.8 ft (standard) / > 3280.8 ft (Customized)]
Display	LED indicators, Wi-Fi/Watermark
Night Reactive Power Function	Optional
DC-Coupled Storage Interface	Optional
Charging Power from the Grid	Optional
Communication	Standard: RS485, Ethernet
Compliance	(UL1741, UL1741-1, CSA C22.2 107.1-01-2001, IEEE1547-2018, IEEE1547-1-2020, (UL1741 SA)58, California Rule7, IEC60381-2, IEC60381-2-2, IEC60381-2-3, IEC60381-2-4)
Grid Support	Q at night function (optional), L/HVRT, L/HFRT, Active & reactive power control, Volt-var, Frequency-watt

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Know what's below.
Call before you dig.

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

NOTICE: CONSTRUCTION SITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER SHALL BE EXPECTED TO ASSUME ANY RESPONSIBILITY FOR SAFETY OF THE WORK OF PERSONS ENGAGED IN THE WORK OF ANY NEARBY STRUCTURES, OR OF ANY OTHER PERSONS.

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TWO TOWN SQUARE, SUITE 700
SOUTHFIELD, MI 48076
248.447.2000

SECTIONS: 11, 13-15, 22-27, 34-36;
TOWN, RANGE: T26N, R08E
GUSTIN TOWNSHIP
ALCONA COUNTY, MICHIGAN

CLIENT: SAPLING SOLAR, LLC
PROJECT: SAPLING SOLAR SPECIAL LAND USE PERMIT SITE PLANS
SOLAR DETAILS

DATE: AUGUST 1, 2024

REVISIONS

DR. GS CH. ES
P.M. ES
BOOK --
JOB 23008071
SHEET NO. 25

CAD FILE: 23008071-07-DET.DWG

NOTE: ALL DETAILS REPRESENTED ON THIS PLAN SHEET ARE CONCEPTUAL IN NATURE. PROVIDED ONLY TO INDICATE A GENERAL OVERVIEW OF PROPOSED PROJECT FACILITIES, AND ARE EXPECTED TO BE MODIFIED AND REFINED.