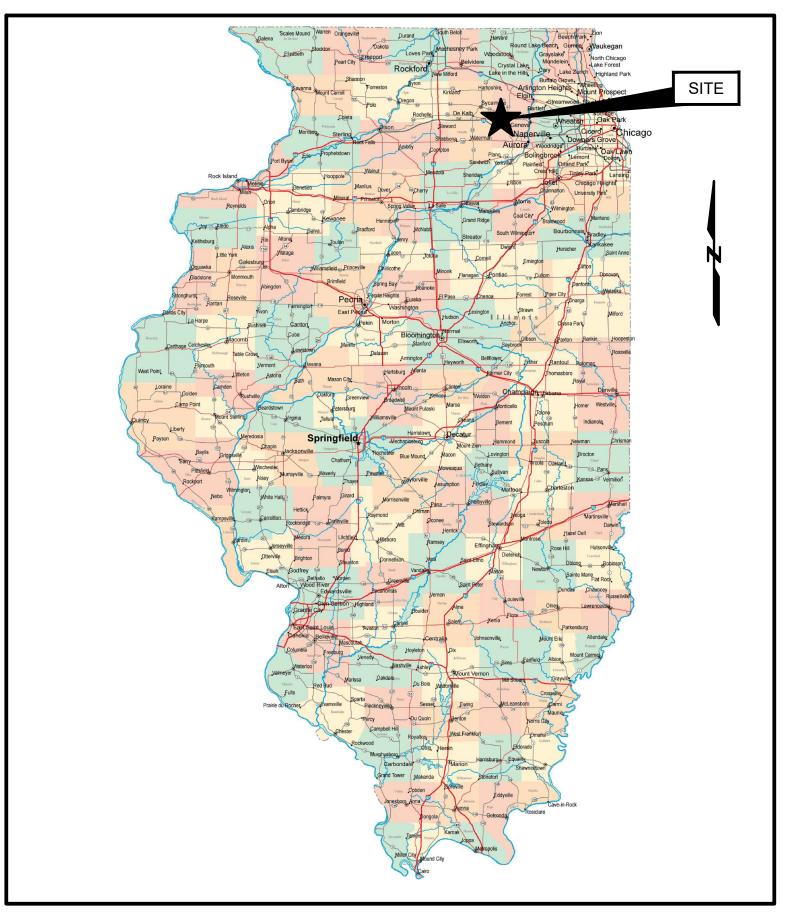
# 2.5 MW AC GROUND MOUNTED SOLAR FARM



ILLINOIS STATE MAP (NOT TO SCALE)

PROJECT DATA		
MODULE TYPE	TRINA TSM-DEG20C.20 - 585W MODULE	
MODULE DIMENSIONS (INXIN)	85.51"(L) x 51.30"(W) x 1.57"(H)	
MODULE WATTAGE (W STC)	585	
#MODULES	6400	
SYSTEM SIZE (MWDC STC)	3.74	
ARRAY TILT (DEGREES)	SINGLE AXIS TRACKER	
AZIMUTH (DEGREES)	180°	
INVERTER TYPE	CHINT CPS SCH125KTL-DO/US-600	
#INVERTERS	20	
GROSS NAMEPLATE RATING (MWAC)	2.50	
SERVICE VOLTAGE OF MAIN PANEL	13800V	
SYSTEM AC OUTPUT CURRENT	104.60A	

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KANESOLAR03 LLC - HATCH SOLAR FACILITY SECTION 4, T39N, R6E, KANEVILLE TOWNSHIP, KANE COUNTY ILLINOIS ROUTE 38, MAPLE PARK, ILLINOIS 60151



SOURCE: GOOGLE EARTH

> SITE VICINITYMAP (NOT TO SCALE)

**PREPARED FOR:** 

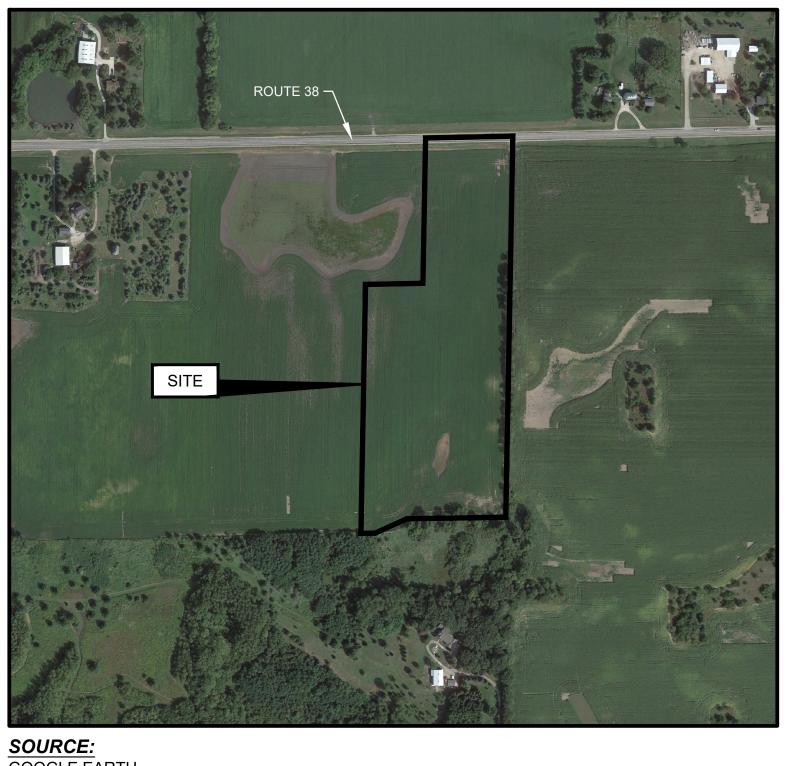
KANESOLAR02 LLC 330 W. GOETHE ST. CHICAGO, IL 60610

LANDOWNER INFO JOHN B. HATCH & MICHELLE R. HATCH 48W607 RT 38 MAPLE PARK, IL 60151

PREPARED BY:

GEI CONSULTANTS, INC. 8615 W. BRYN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312)985-0365





GOOGLE EARTH

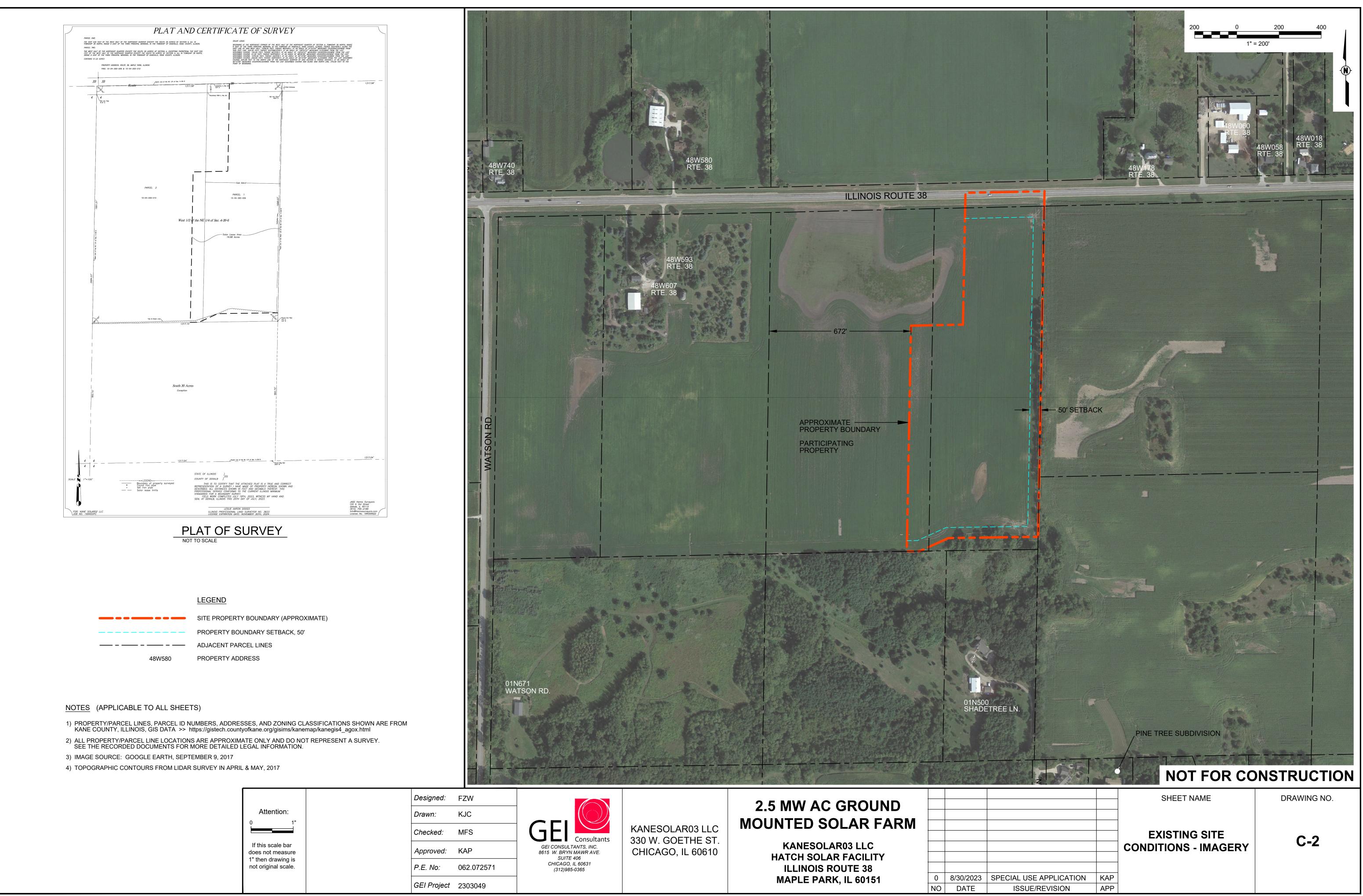
# SITE LOCATION MAP (NOT TO SCALE)

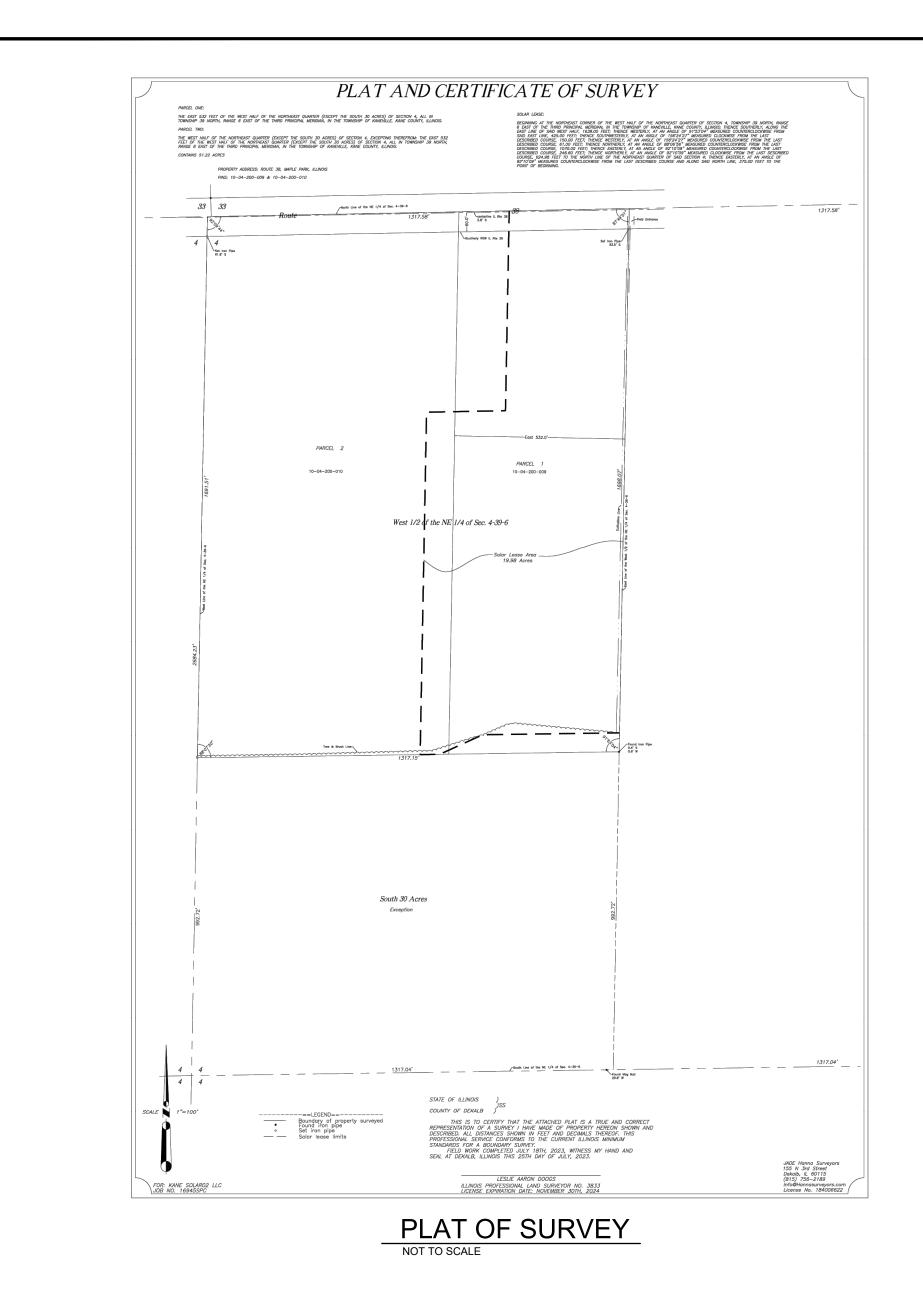
SHEET INDEX		
SHEET NO.	SHEET NO. DRAWING NO. SHEET TITLE	
1	C-1	TITLE & SHEET LIST
2	C-2	EXISTING SITE CONDITIONS - IMAGERY
3	C-3	EXISTING SITE CONDITIONS - TOPOGRAPHY
4	C-4	AREA PROPERTIES & ZONING
5	C-5	AREA DRAINAGE, FLOODWAY & WETLANDS
6	C-6	SOLAR PANEL LAYOUT PLAN
7	C-7	TYPICAL DETAILS
8	C-8	LANDSCAPING PLAN

# NOT FOR CONSTRUCTION



DWG. NO.
C-1
SHEET NO.
1 OF 8
REV NO.
0





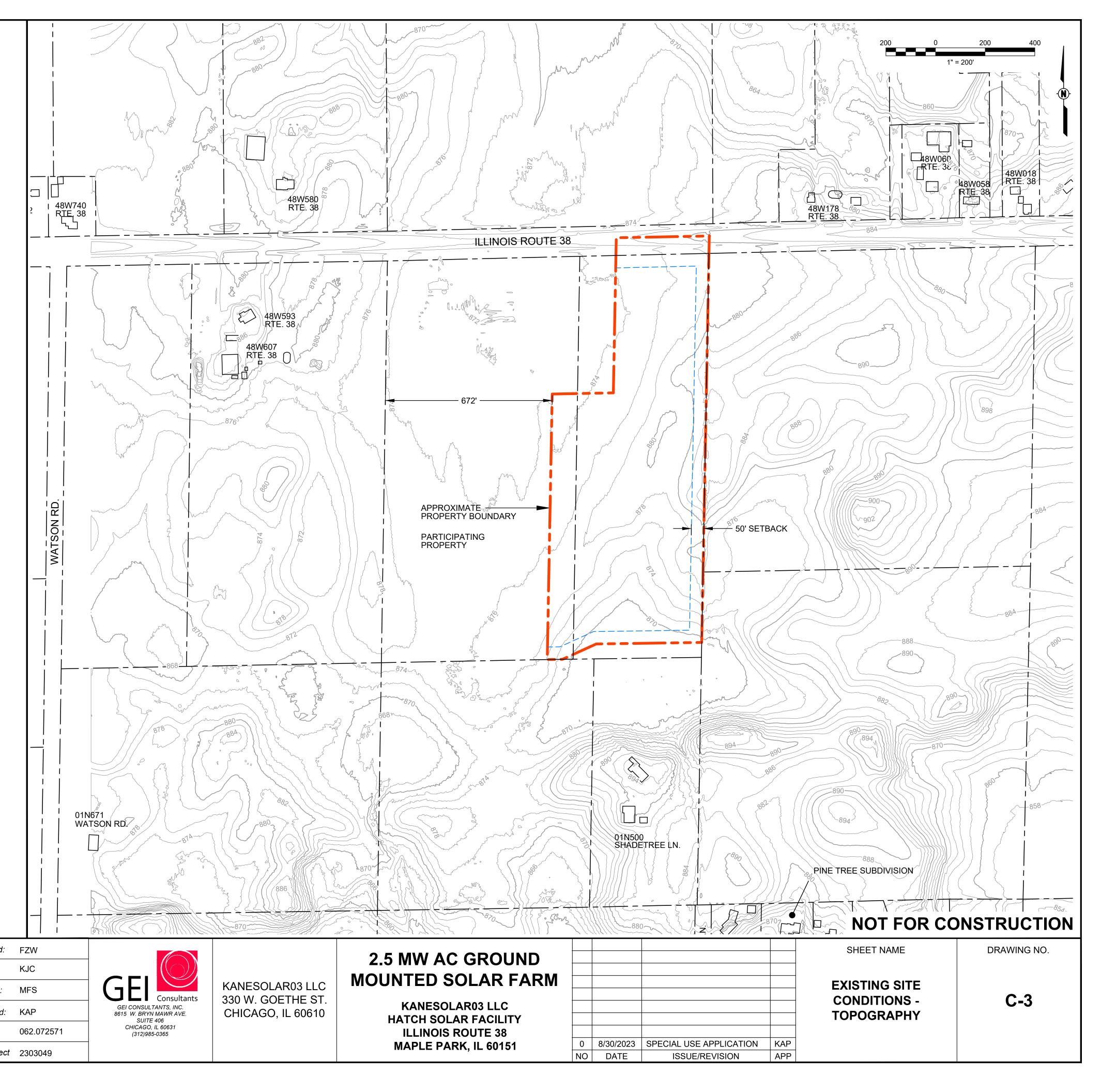
# LEGEND

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48W178

SITE PROPERTY BOUNDARY (APPROXIMATE)
PROPERTY BOUNDARY SETBACK, 50'
ADJACENT PARCEL LINES
PROPERTY ADDRESS
GROUND SURFACE CONTOUR
BUILDING

	Designed:
Attention:	Drawn:
	Checked:
If this scale bar does not measure	Approved:
1" then drawing is not original scale.	P.E. No:
	GEI Projec



## PINE TREE SUBDIVISION

PROPERTY	ADDRESS	PARCEL ID
A	01N471 SHADE TREE LN.	10-04-426-007
B	48W192 SHADE TREE CT.	10-04-426-008
©	48W150 SHADE TREE CT.	10-04-426-009
D	01N450 COUNTRY LIFE DR.	10-04-426-010
E	01N455 COUNTRY LIFE DR.	10-04-426-011
Ð	01N459 COUNTRY LIFE DR.	10-04-428-005
G	01N439 COUNTRY LIFE DR.	10-04-428-006
θ	01N413 COUNTRY LIFE DR.	10-04-428-001
	01N371 COUNTRY LIFE DR.	10-04-428-002
J	48W016 MILNAMOW DR.	10-04-428-004
ĸ	48W021 MILNAMOW DR.	10-04-478-002
	48W057 MILNAMOW DR.	10-04-478-001
	01N321 COUNTRY LIFE DR.	10-04-428-003
N	48W101 PINE TREE DR.	10-04-427-005
0	48W151 PINE TREE DR.	10-04-427-004
P	48W090 PINE TREE DR.	10-04-426-005
Q	01N408 COUNTRY LIFE DR.	10-04-426-006
R	01N438 COUNTRY LIFE DR.	10-04-426-014
S	48W153 SHADE TREE CT.	10-04-426-013
Ī	48W124 PINE TREE DR.	10-04-426-004
U	48W160 PINE TREE DR.	10-04-426-003
$\heartsuit$	48W190 PINE TREE DR.	10-04-426-002
Ŵ	01N401 SHADE TREE LN.	10-04-426-001
$\bigotimes$	48W219 SHADE TREE CT.	10-04-426-012

NOTE: ALL PROPERTIES IN PINE TREE SUBDIVISION ARE ZONED R-1.

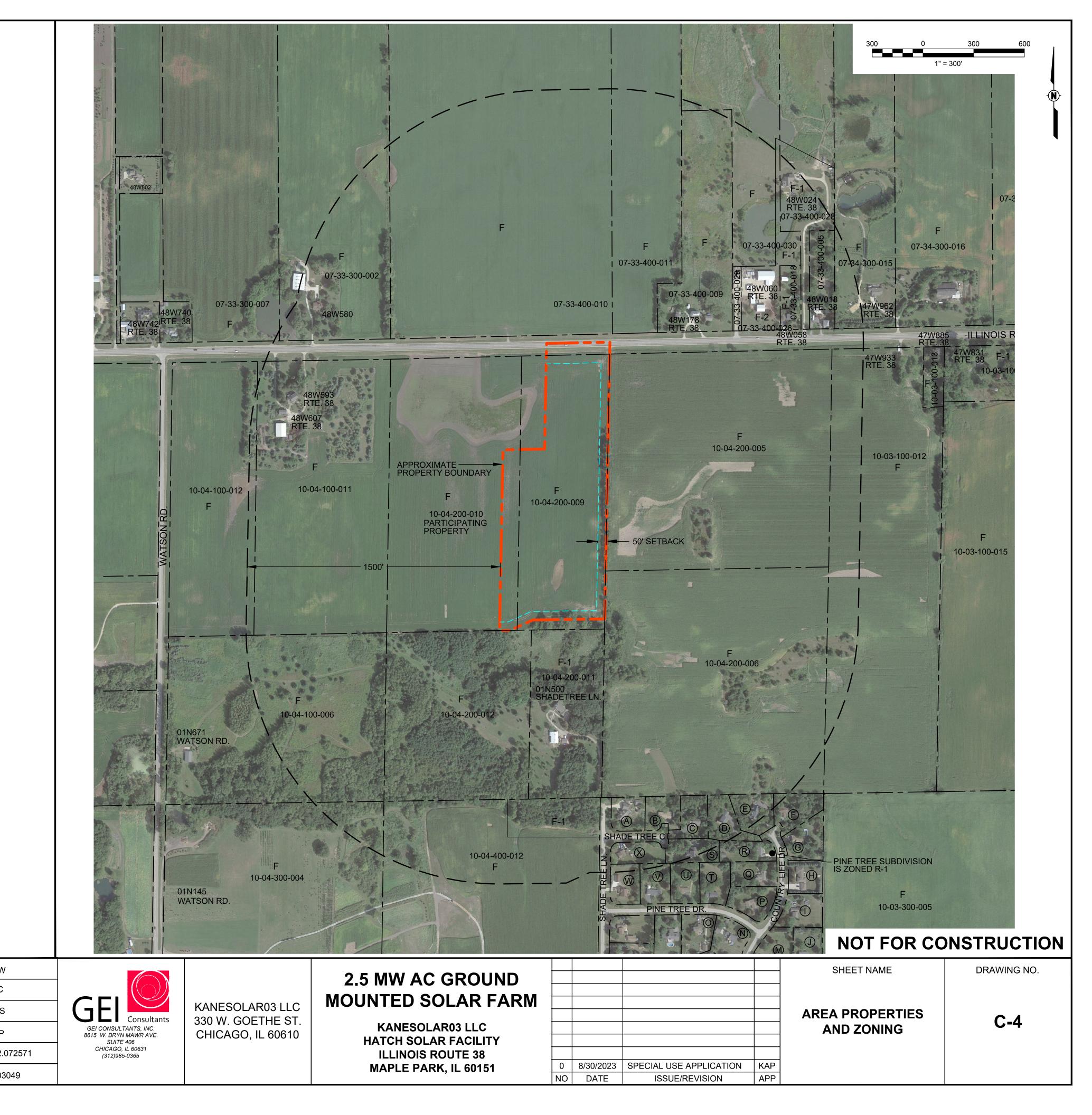
	LEGEND
	SITE PROPERTY BOUNDARY (APPROXIMATE)
	PROPERTY BOUNDARY SETBACK, 50'
	ADJACENT PARCEL LINES
10-04-200-009	PARCEL ID NUMBER
48W593	RESIDENTIAL ADDRESS NUMBER
A	PINE TREE SUBDIVISION, SEE TABLE
F, F-1, F-2, R-1	ZONING CLASSIFICATION F - FARMING, F-1 RURAL RESIDENTIAL F-2 AGRICULTURAL RELATED, R-1 ONE-FAMILY RESIDENTIAL

1500' RADIUS AROUND PROPERTY BOUNDARY

\_\_\_\_\_

\_\_\_\_

	Designed:	FZW
Attention:	Drawn:	KJC
	Checked:	MFS
If this scale bar loes not measure	Approved:	KAP
I" then drawing is not original scale.	P.E. No:	062.0
	GEI Project	2303



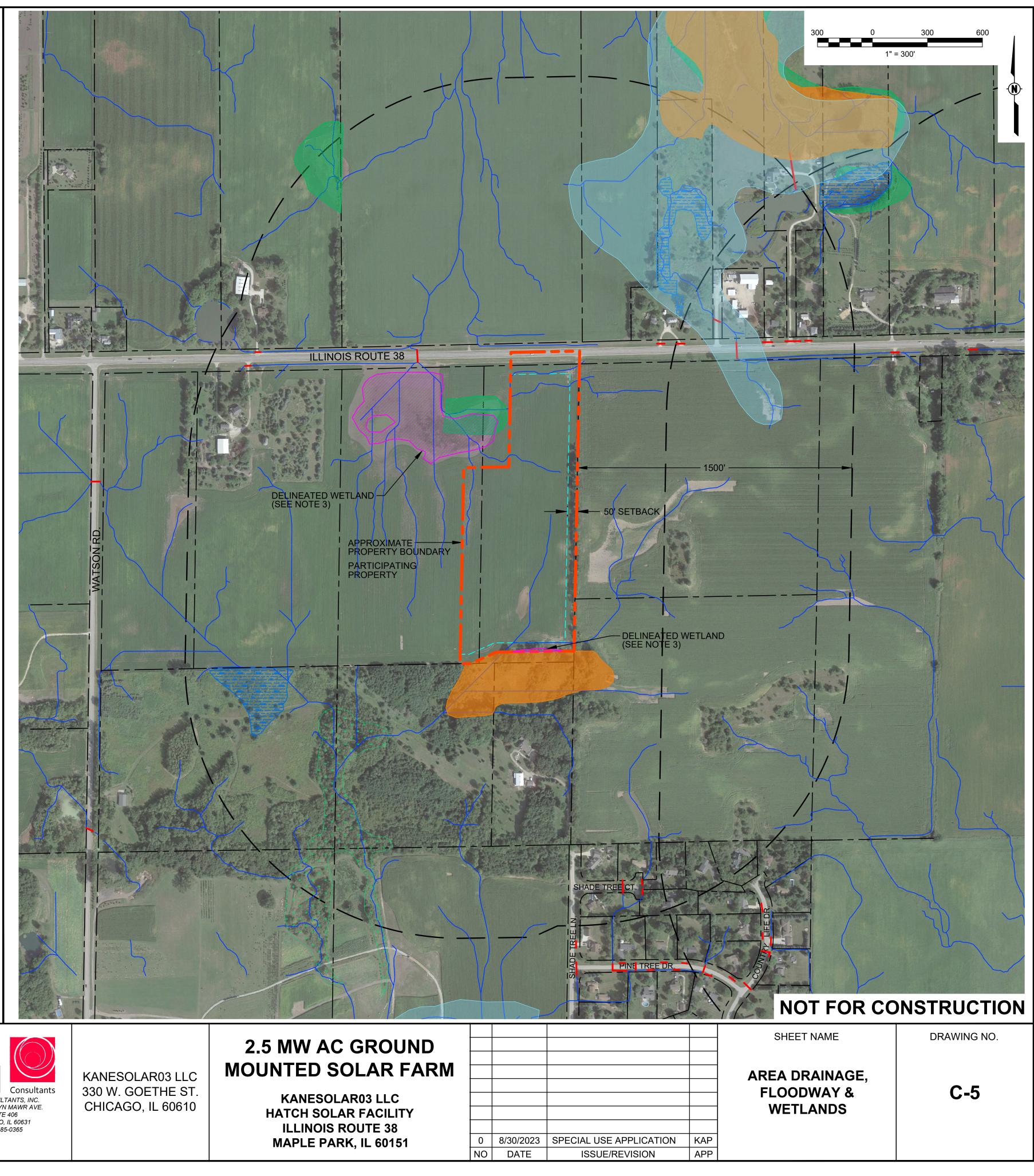
## LEGEND

	SITE PROPERTY BOUNDARY (APPROXIMATE)
	1500' RADIUS AROUND PROPERTY BOUNDARY
	PROPERTY BOUNDARY SETBACK, 50'
	ADJACENT PARCEL LINES
	SURFACE DRAINAGE
· · · · · · · · · · · · · · · · · · ·	SURFACE WATER
	CULVERT
	FLOODPLAIN, ZONE A (1% ANNUAL CHANCE)
، <u>بالہ یالہ بالہ بالہ بالہ بالہ بالہ بالہ بالہ ب</u>	WETLAND
	HIGH FUNCTIONAL VALUE WETLAND
	NRCS FARMED WETLAND
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	HIGH HABITAT VALUE WETLAND
	DELINEATED WETLAND

## NOTES

- SURFACE DRAINAGE PATHWAYS, CULVERTS & WETLANDS SHOWN ARE FROM KANE COUNTY, ILLINOIS, GIS DATA https://gistech.countyofkane.org/gisims/kanemap/kanegis4\_agox.html
- 2) WETLAND DATA PRODUCED UNDER THE ADVANCED IDENTIFICATION (ADID) PROGRAM OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY AND THE U.S. ARMY CORPS OF ENGINEERS. DESCRIPTIONS OF THE WETLAND INVENTORY METHODOLOGY AND THE WETLAND AND STREAM DESIGNATION CRITERIA ARE AVAILABLE IN THE KANE COUNTY ADID STUDY METHODOLOGY. THE WETLAND BOUNDARIES SHOWN ARE NOT JURISDICTIONAL BOUNDARIES.
- DELINEATED WETLANDS ARE FROM WATER RESOURCES DELINEATION REPORT BY DAVEY RESOURCE GROUP, INC., DATED JULY 7, 2023.
- 4) FLOODWAYS SHOWN ARE FROM FEMA MAP NUMBER 17089C0225J, REVISED JULY 17, 2012. THE FLOODWAY AREAS SHOWN ARE SPECIAL FLOOD HAZARD AREA "ZONE A". ZONE A IS SUBJECT TO A 1% ANNUAL FLOOD CHANCE (100-YEAR FLOOD). NO BASE FLOOD ELEVATIONS DETERMINED.

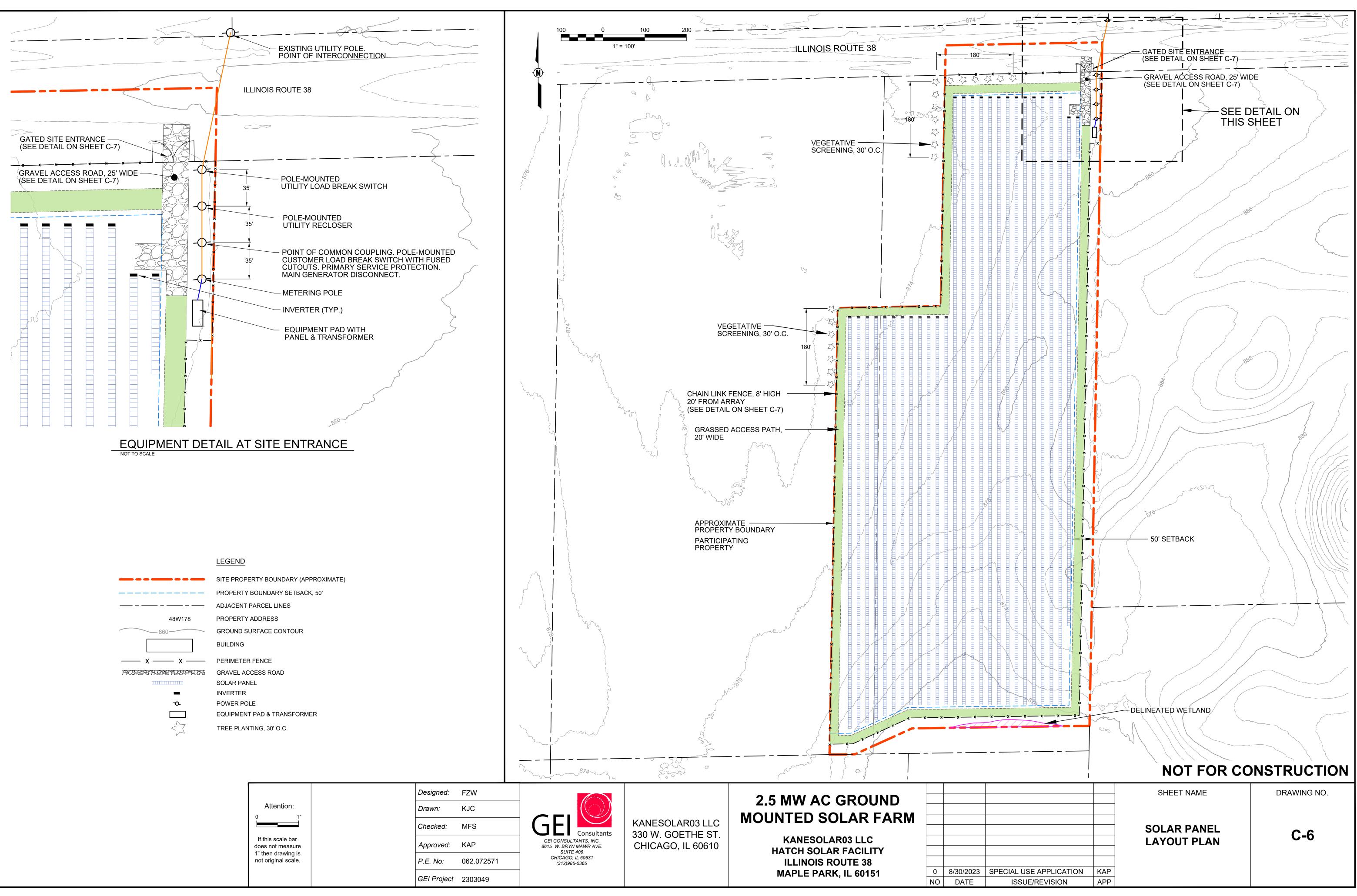
Attention:	Designed:	FZW
	Drawn:	KJC
	Checked:	MFS
If this scale bar does not measure 1" then drawing is not original scale.	Approved:	KAP
	P.E. No:	062.0
	GEI Project	23030

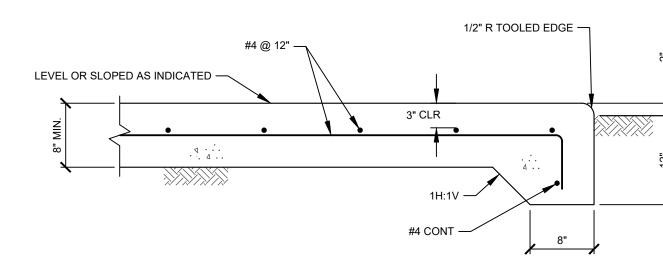


2.072571 3049



0	8/30/2023	SF
NO	DATE	

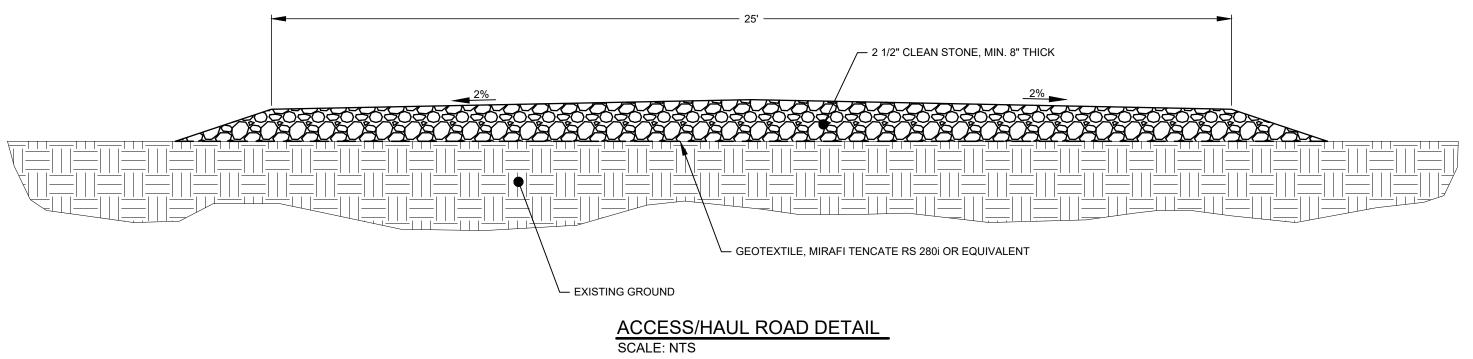




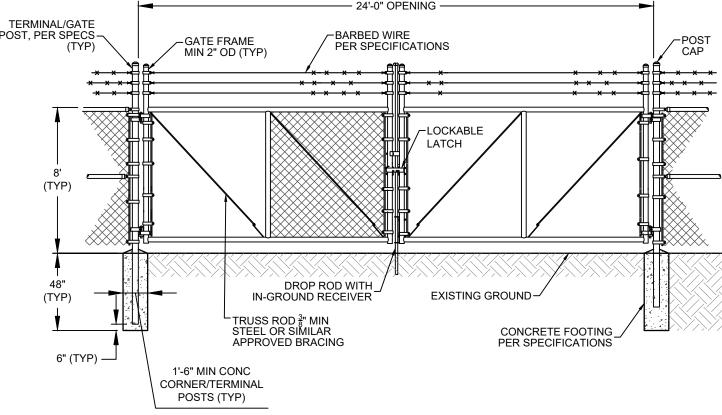
NOTE:

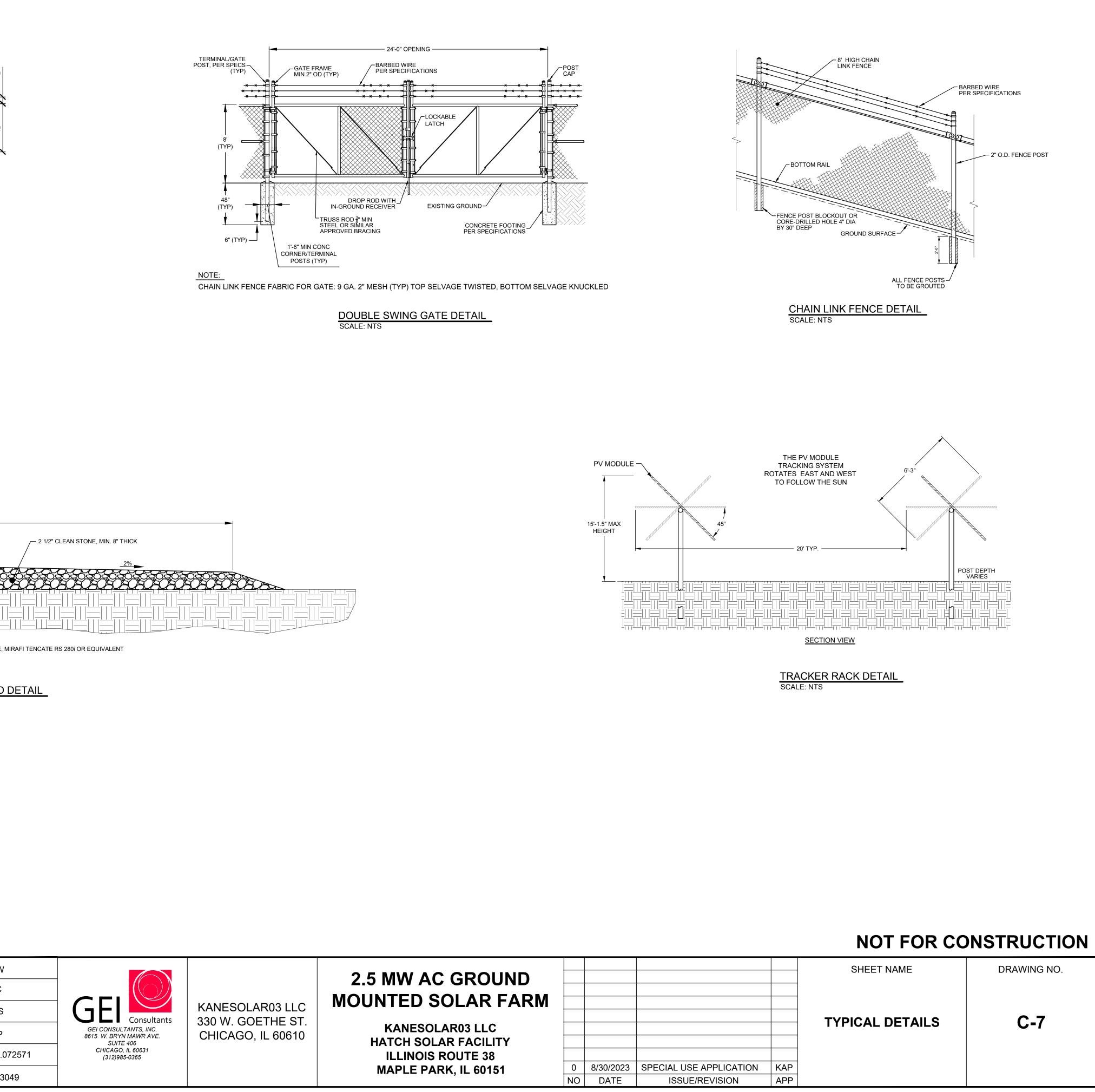
1. ELECTRICAL DESIGNER TO REVIEW SLAB ON-GRADE DESIGN FOR PAD-MOUNT EQUIPMENT AND UPDATE/REDESIGN AS NECESSARY TO SUPPORT THE APPLIED LOADS AND PROVIDE CONNECTION DETAILS BETWEEN THE EQUIPMENT AND FOUNDATIONS.

> SLAB ON-GRADE EQUIPMENT PAD DETAIL SCALE: NTS



	Designed:	FZW
Attention: 0 1" If this scale bar does not measure 1" then drawing is not original scale.	Drawn:	KJC
	Checked:	MFS
	Approved:	KAP
	P.E. No:	062.0 <sup>-</sup>
	GEI Project	23030





### LANDSCAPE/PLANTING NOTES:

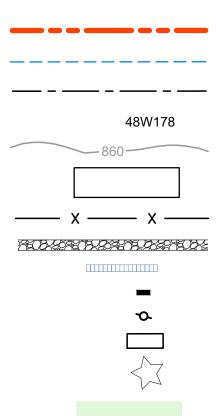
- 1. Contractor shall perform work in compliance with all environmental permits.
- 2. Contractor shall request utility mark-outs before beginning work. Contractor is advised that hand digging and shallow raking will be required in proximity to buried utilities and heavy machinery may be prohibited on site during planting operations.
- 3. Access to the site shall be through the existing driveway and vehicular paths, and location of temporary staging areas will be directed by the owner.
- 4. Site preparation shall include removal of all weeds and invasive species, surface debris, rubble, stones, and cobbles greater than 1 inch in size, and any materials deleterious to plant growth. Planting bed shall be graded to existing surrounding grades.

#### PLANTINGS:

- Plant installations shall take place during dry and unfrozen ground conditions during the following seasonal windows: March 1<sup>st</sup> to May 15<sup>th</sup>; or August 15<sup>th</sup> to November 1<sup>st</sup>.
- 2. Deliver plants immediately prior to planting on site. Temporary storage of any plant materials after delivery shall not exceed one week. Plants must remain out of direct exposure to sun and wind, and moisture of plant containers or root balls must be maintained by covering with wet straw or cloth and periodic watering until time of planting.
- 3. Handle all plant materials in a manner so as to avoid damages to the plants, root balls and containers. Do not stack plants during transport or temporary storage to avoid crushing. All plants that are damaged, not in healthy growing conditions, or lacking well developed roots shall be rejected and replaced at contractor's expense.
- It is the design intent that all plants be installed at the on-center spacing shown in the plant schedule.
   Set plants straight or plumb in locations indicated on plan, and at a level after settlement that matches the finished grade in the former growing medium.
- 6. Absorbent polymer and time release organic fertilizer with mycorrhizal inoculant should be added to plant pits during planting.
- 7. Containers and/or wire frames must be removed from the root balls before planting. Twine at the top of the root ball of balled and burlapped trees shall be cut, and the top of the burlap rolled back 1/3 to expose the soil before backfilling plant pits.
- 8. Stake trees in place as shown in the typical planting detail.
- 9. Water plants during planting operations. All plantings must be watered once per week for 3 months during the growing season to avoid transplant shock, unless the planted areas receive a minimum of 1 inch of rainfall during the week.
- 10. Contractor shall provide a 1-year guarantee to replace dead or stressed plant material.
- 11. All replacement plantings shall be completed no later than the next consecutive planting season.
- 12. Contractor shall provide routine maintenance throughout the 1-year guarantee period, which includes watering, removal of weeds and invasive species, and reinforcement of plant stakes.

#### SEEDING:

- 1. Lightly rake the seedbed to remove all weeds, surface debris, sticks, roots, rubbish and rocks greater than 1/2 inch in size.
- Seeding shall take place during dry and unfrozen ground conditions during the following seasonal windows: March 1<sup>st</sup> to May 15<sup>th</sup>; or August 15<sup>th</sup> to September 30<sup>th</sup>.
- 3. Specified pollinator seed mix, or approved equal shall applied under solar panels as shown on the landscape plan after site preparation and fine grading.
- 4. Drill seed, broadcast, hydroseed or utilize a method that will ensure uniform distribution of all seeds in the mixture.
- 5. Broadcast seeded areas shall be lightly raked or tamped after application to maximize seed/soil contact.
- 6. Apply jute mesh over all seeded areas that exceed a 3 ft. horizontal:1 ft. vertical slope.
- 7. Protect seeded areas against traffic or other use immediately after seeding by erecting barricades and placing warning signs.
- 8. Seeded areas that are damaged by runoff gullies or rills shall be repaired, re-seeded, and covered with straw mulch during the same growing season.



<u>LEGEND</u>

- SITE PROPERTY BOUNDARY (APPROXIMATE)
- PROPERTY BOUNDARY SETBACK, 50'
- ADJACENT PARCEL LINES
- PROPERTY ADDRESS
- GROUND SURFACE CONTOUR

## BUILDING

PERIMETER FENCE GRAVEL ACCESS ROAD

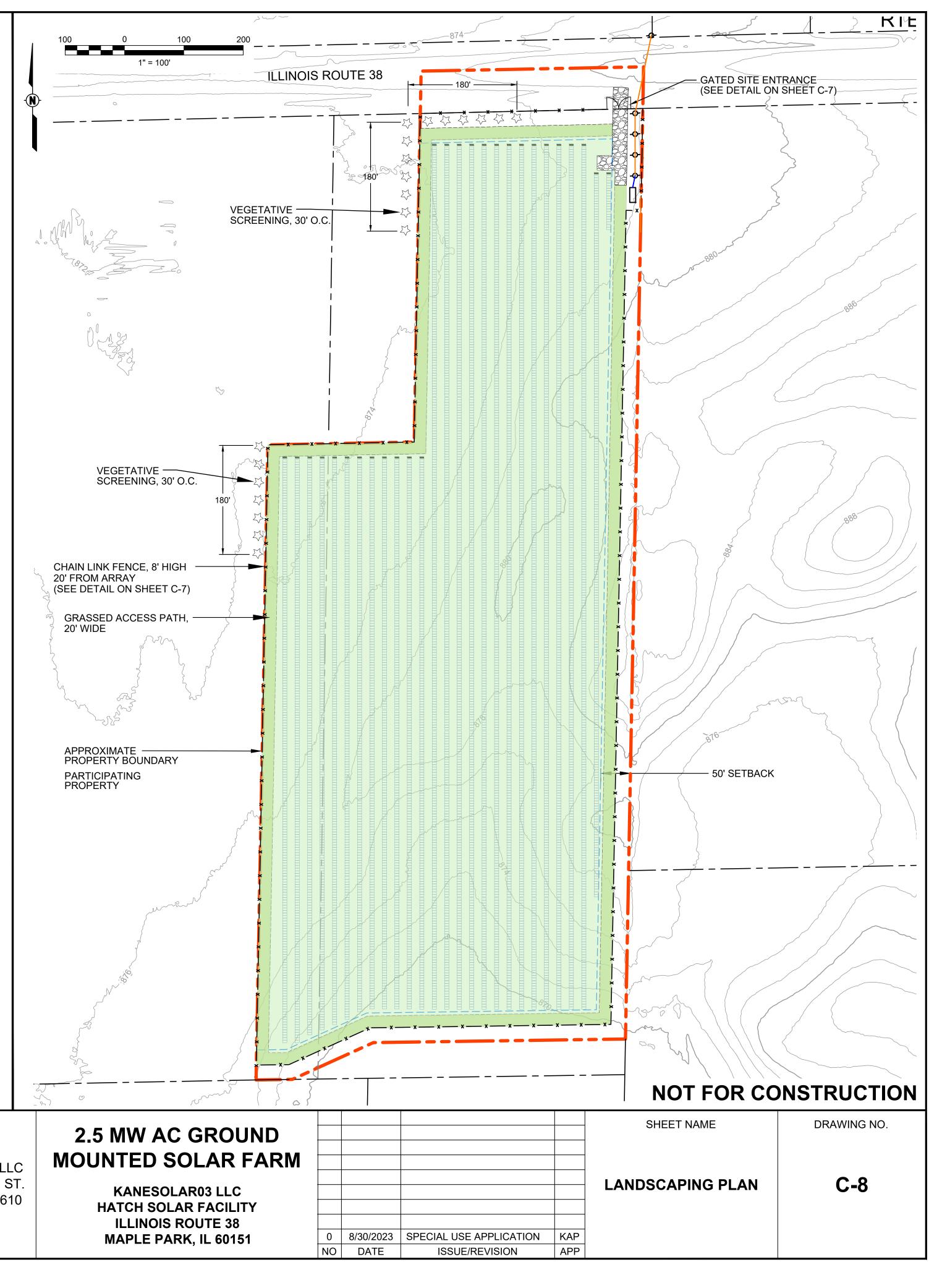
- SOLAR PANEL
- INVERTER
- POWER POLE
- EQUIPMENT PAD & TRANSFORMER

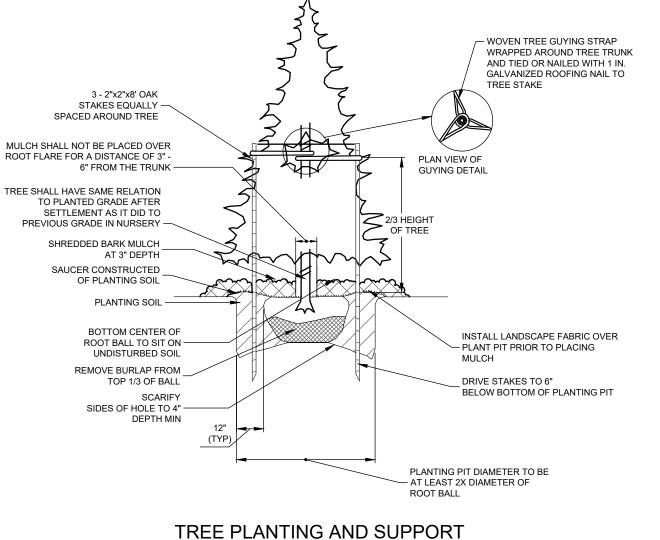
TREE PLANTING, 30' O.C., WHITE SPRUCE OR SIMILAR 4' TALL AT TIME OF PLANTING

POLLINATOR FRIENDLY NATIVE GROUND COVER

	Designed:	FZW
Attention: 1" If this scale bar does not measure 1" then drawing is not original scale.	Drawn:	KJC
	Checked:	MFS
	Approved:	KAP
	P.E. No:	062.07257
	GEI Project	2303049

POLLINATOR SEED MIXTURE APPLICATION RATE ~25 LBS/ACRE			
% BY WEIGHT	BOTANICAL NAME	COMMON NAME	MATURE HEIGHT (FT)
5.0	Agrostis perennans	Autumn Bentgrass	3.5
2.0	Eragrostis spectabilis	Purple Lovegrass	1.5
20.0	Schizachyrium scoparium	Little Bluestem	3.9
23.7	Bouteloua curtipendula	Sideoats Grama	3.2
0.5	Pestimone hirsutus	Hairy Beardtongue	2.9
2.6	Chamaecrista fasciculata	Partridge Pea	2.9
2.0	Coreopsis lanceolata	Lanceleaf Coreopsis	3.3
15.0	Gaillardia aristata	Perennial Gaillardia (Blanket Flower)	2.3
0.2	Oenthera speciosa	Showy Evening Primrose	2.0
3.0	Rudbeckia hirta	Blackeyed Susan	3.3
2.5	Aster prenanthoides	Zig Zag Aster	3.3
5.0	Monarda punctata	Spotted Beebalm	3.3
3.0	Anemone canadensis	Canadian Anemone	2.3
2.0	Aquilegia canadensis	Eastern Columbine	2.6
3.0	Asclepias tuberosa	Butterfly Milkweed	2.9
3.0	Aster laevis	Smooth Blue Aster	3.3
3.0	Aster oblongifolius	Aromatic Aster	3.3
0.2	Lupinus perennis	Perennial Blue Lupine	2.0
2.0	Coreopsis grandiflora	Large Leaf Tickseed	2.6
0.3	Pycnanthemum virginianum	Virginia Mountainmint	3.3
2.0	Conoclinium coelestinum	Blue Mistflower	3.3
100	%		





NOT TO SCALE

72571 GEI CONSULTANTS, INC. B615 W. BRYN MAWR AVE. SUITE 406 CHICAGO, IL 60631 (312)985-0365

KANESOLAR03 LLC 330 W. GOETHE ST. CHICAGO, IL 60610