

Project Name:

Heartleaf Solar, LLC

Drawing Designation:

Conditional Use Permit Design

Project County:

McHenry County

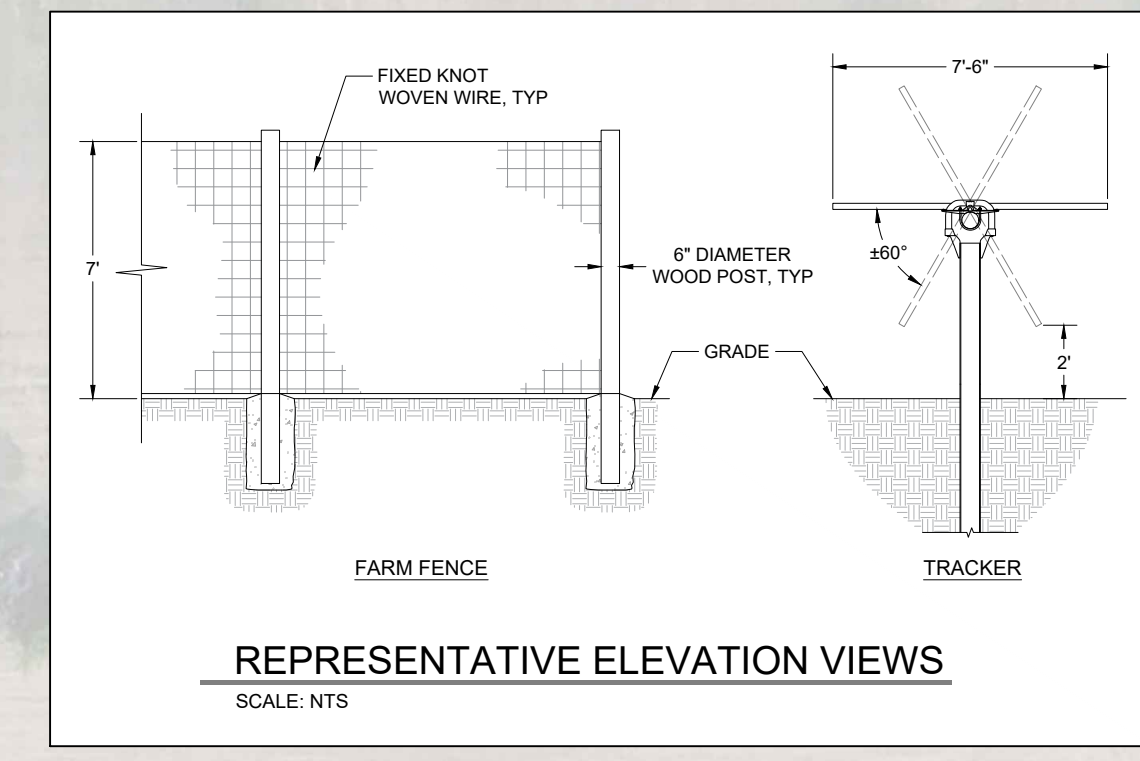
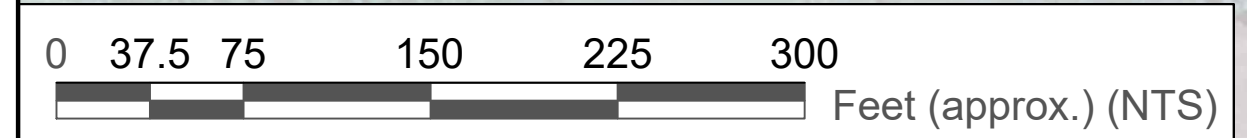
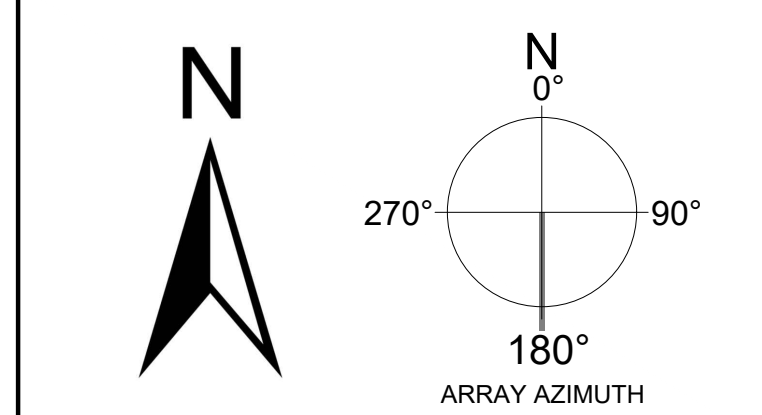
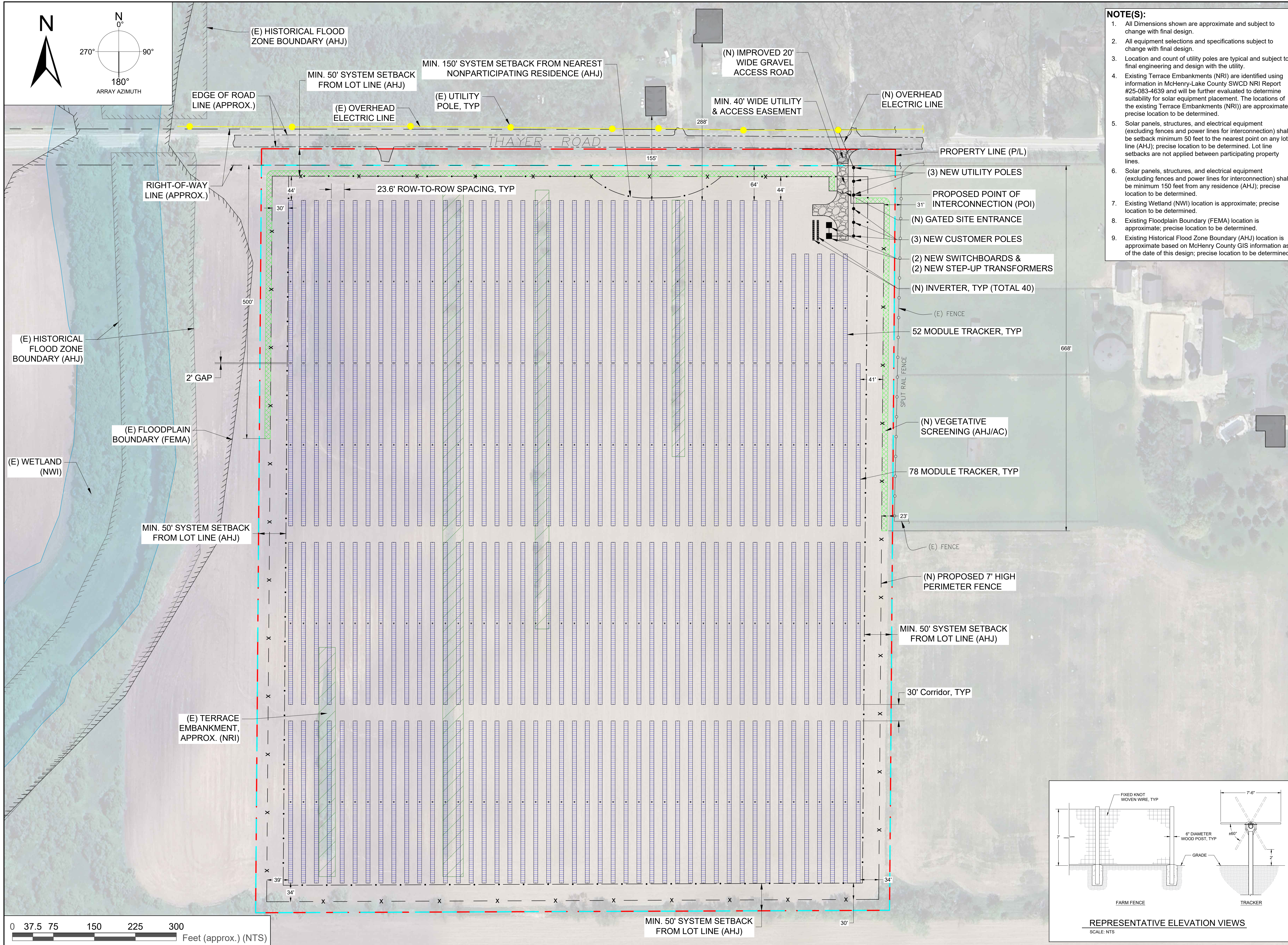
Facility Location:

42.41220°N, -88.39942°W

**SYSTEM DETAILS
(Preliminary)**

| | |
|---------------------|---------------------------|
| SITE AREA | 36.31 +/- acres (approx.) |
| DC SYSTEM SIZE | 7,746 kW |
| AC SYSTEM SIZE | 5,000 kW |
| DC/AC RATIO | 1.55 |
| POCC/POI VOLTAGE | 34.5 kV |
| ROW SPACING (GCR) | 23.6' (32%) |
| RACKING SYSTEM | Single-Axis Tracking |
| MODULE TILT | -60° to 60° |
| ARRAY AZIMUTH | 180° |
| PV MODULES | |
| MANUFACTURER | Jinko Solar |
| MODEL | JKM 560N-72HL4-BDV |
| DC POWER @ STC | 560 W |
| MAX DC SYS. VOLTAGE | 1500 V |
| MODULES PER STRING | 26 |
| MODULE COUNT | 13,832 |
| INVERTERS | |
| MANUFACTURER | Yaskawa Solectria Solar |
| MODEL | XGI 1500-125 |
| NOMINAL POWER | 125 kW |
| INVERTER COUNT | 40 |

- NOTE(S):**
- All Dimensions shown are approximate and subject to change with final design.
 - All equipment selections and specifications subject to change with final design.
 - Location and count of utility poles are typical and subject to final engineering and design with the utility.
 - Existing Terrace Embankments (NRI) are identified using information in McHenry-Lake County SWCD NRI Report #25-083-4639 and will be further evaluated to determine suitability for solar equipment placement. The locations of the existing Terrace Embankments (NRI) are approximate; precise location to be determined.
 - Solar panels, structures, and electrical equipment (excluding fences and power lines for interconnection) shall be setback minimum 50 feet to the nearest point on any lot line (AHJ); precise location to be determined. Lot line setbacks are not applied between participating property lines.
 - Solar panels, structures, and electrical equipment (excluding fences and power lines for interconnection) shall be minimum 150 feet from any residence (AHJ); precise location to be determined.
 - Existing Wetland (NWI) location is approximate; precise location to be determined.
 - Existing Floodplain Boundary (FEMA) location is approximate; precise location to be determined.
 - Existing Historical Flood Zone Boundary (AHJ) location is approximate based on McHenry County GIS information as of the date of this design; precise location to be determined.



LEGEND

- Property Line
- Site Area Boundary
- System Setback Line
- (N) Proposed 7' High Perimeter Fence
- (N) Underground Medium Voltage Line
- (N) Overhead Medium Voltage Line
- (E) Overhead Electric Line
- (E) Utility Pole
- (N) Improved 20' Wide Gravel Access Road
- (N) Vegetative Screening (AHJ/AC)
- (E) Residences
- Edge of Road Line
- Right-of-Way Line
- (E) Terrace Embankment (NRI)
- (E) Wetlands (NWI)
- (E) Floodplain Boundary (FEMA)
- (E) Historical Flood Zone Boundary (AHJ)
- (E) Fence
- (N) Solar PV Module
- (N) Inverter Rack
- (N) Transformer
- (N) Utility/Customer Pole

**PRELIMINARY
NOT FOR CONSTRUCTION**

| | | | |
|-----------|-----------|----------|------------|
| Revision: | A-2 | Date: | 10/29/2024 |
| Drawn: | Justin H. | Checked: | Molly S. |

ASCD D SIZE: 24x36"