

**Regional
Operations and
Communications
Facility Solar Array**



656

Winchester Rd,
Libertyville, IL 60048

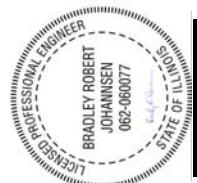


KEY SHEET NOTES:
 1. UTILITY TRANSFORMER LOCATION, ASSESS.
 PPAVA 27KV SUB-PANEL TERMINAL
 PHOTOVOLTAIC FEEDER TRANSFER
 2. THIS DRAWING IS A SITE PLACEMENT PLAN FOR
 THE PROPOSED SOLAR PANEL FIELD. THIS DRAWING
 DESCRIBES THE SOLAR PANEL FIELD LOCATIONS
 AND DESIGN, WHICH WOULD BE SUBJECT TO
 APPROVAL BY THE LOCAL ELECTRIC UTILITIES
 COMPANY PRIOR TO BE RED AT T
 3. ELECTRICAL CABLES, CONDUITS, FUSCOS AND
 BY OTHERS PROVIDED CONDUCTORS AND FUSCOS
 SWITCHED TO GROUND FAULT, AND CIRCUIT BREAKERS
 TO DISCONNECT IT AND
 INTEGRATE WITH EXISTING SYSTEMS
 4. SOLAR PANELS AND EQUIPMENT, WHETHER AS
 SHOWN OR CHANGED, SUBSTITUTE, OR ADDED,
 PROVIDED BY CONTRACTOR, CONTRACTOR
 PROVIDED BUILDING AND COORDINATION
 SHALL NOT BE REQUIRED
 5. PROVIDE PROTECTIVE SURFACE
 6. PROVIDE ELEVATION, LENGTH, QUANTITY AND
 LOCATION AS REQUIRED
 7. PROVIDE DUG-OUT FEED-TILT
 8. PROVIDE GROUND FAULT CIRCUIT
 BREAKER AND CIRCUIT BREAKERS
 FOR EACH TRAILER
 9. PROVIDE FENCING AND
 PROVIDE AS AGAR ARRAYS REFER TO
 PPAVA 27KV SUB-PANEL TRANSFER
 10. THIS SECTION IS FENCING IS ORNAMENTAL
 BY OTHERS

**WOLD ARCHITECTS
AND ENGINEERS**
 120 North Franklin Street
 Palatine, Illinois 60067
 847-241-6500
 woldarch.com

SYSTEM SPECIFICATIONS: BASE BID
 A. SYSTEM SIZE: DC: 1,123.00W
 B. SYSTEM SIZE: AC: POWER LIMITED TO 800W
 C. LOCAL MINT: 1.3
 D. ADJUST: 180 DEGREES
 E. TILT: 20 DEGREES
 F. MODULE COUNT: 1984
 G. MODULE TYPE: CEL6 Q PEAK (DCO-XG113)
 H. MODULE RATING: 360W
 I. INVERTER COUNT: 8
 J. INVERTER TYPE: CPS SCH001L-G003-48
 K. INVERTER POWER: POWER LIMITED TO 14.4 kW
 L. RACINGS: TBL
 M. MONITORING: TBD

SYSTEM SPECIFICATIONS: ALTERNATE #2
 A. SYSTEM SIZE: DC: 1,123.00W
 B. SYSTEM SIZE: AC: POWER LIMITED TO 800W
 C. LOCAL MINT: 1.321
 D. ADJUST: 180 DEGREES
 E. TILT: 20 DEGREES
 F. MODULE COUNT: 1984
 G. MODULE TYPE: CEL6 Q PEAK (DCO-XG113)
 H. MODULE RATING: 360W
 I. INVERTER COUNT: 9
 J. INVERTER TYPE: CPS SCH001L-G003-48
 K. INVERTER POWER: POWER LIMITED TO 14.4 kW
 L. RACINGS: TBL
 M. MONITORING: TBD



Licenses
Profession
Engineering
State of Illinois
06/27/2023

Comments: 1.4000.00
Date: 06/27/2023
Drawn: S. SABRIANIS
Check: B. JAHANNSEN
Scale: NTS

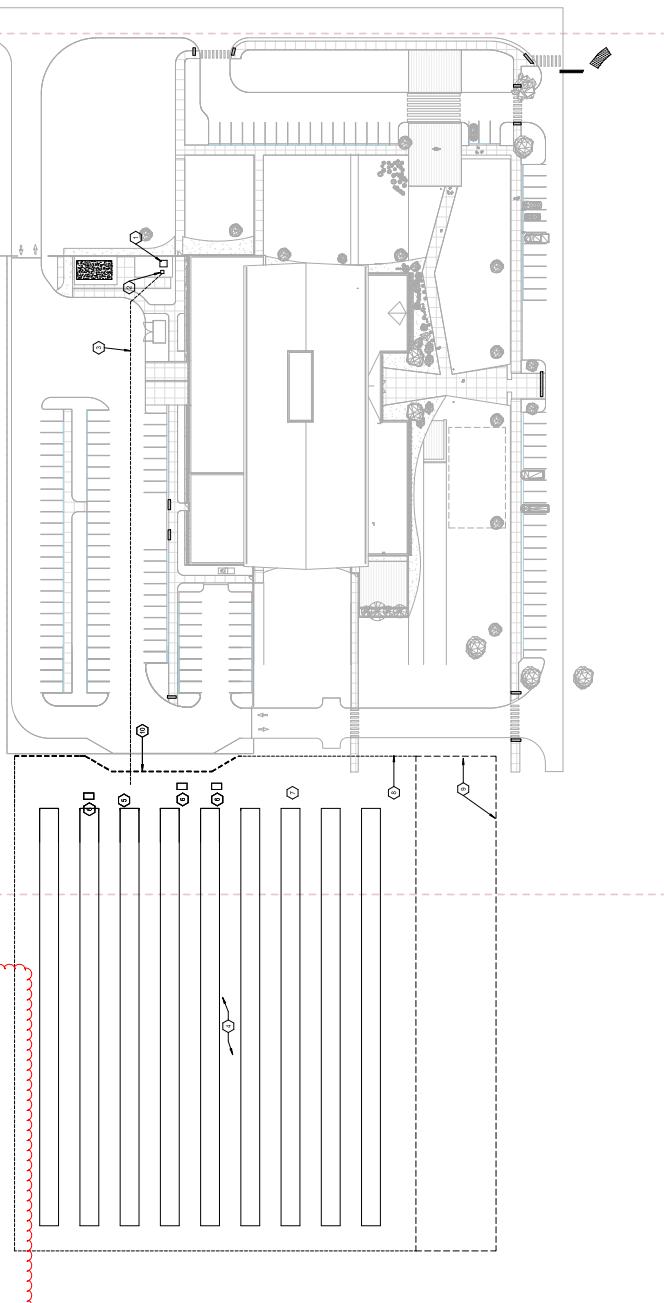
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Scale: NTS

**PHOTOVOLTAICS
PLANS**

Scale: As indicated

E1 TYPICAL FENCE POST DETAIL
NTS

E1 TYPICAL FENCING DETAIL
NTS

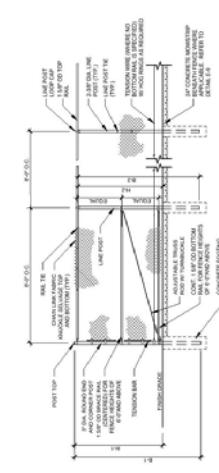


Note: The Owner has performed test pit excavations at the area of the proposed solar field. The Solar Contractor should assume in their bid organic soil material across the entire area of the solar field to an approximate depth of approximately 8' and should, as required in Section 26 31.00, include as part of their bid the design of structural foundations and support structure systems required.

The location of spread footings and pile caps, if required, shall be determined by the Solar Contractor. It is the intent of the Owner to have the Solar Contractor's professional structural engineer as part of the shop drawing process. All costs for over excavation, disposal of unsuitable soils material, and/or provision of engineered fill shall be by the Solar Contractor.

E1 PHOTOVOLTAICS PLANS

POST HEIGHT	END CAP	END COLOR	ONE POSTS
48"			48"



General Notes:
 1. FENCE LINE TO BE 20 FT FROM PROPERTY LINE.
 2. FENCE LINE TO BE 20 FT FROM PROPERTY LINE.
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 4. FENCE LINE TO BE 20 FT FROM PROPERTY LINE.
 5. FENCE LINE TO BE 20 FT FROM PROPERTY LINE.
 6. FENCE LINE TO BE 20 FT FROM PROPERTY LINE.
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