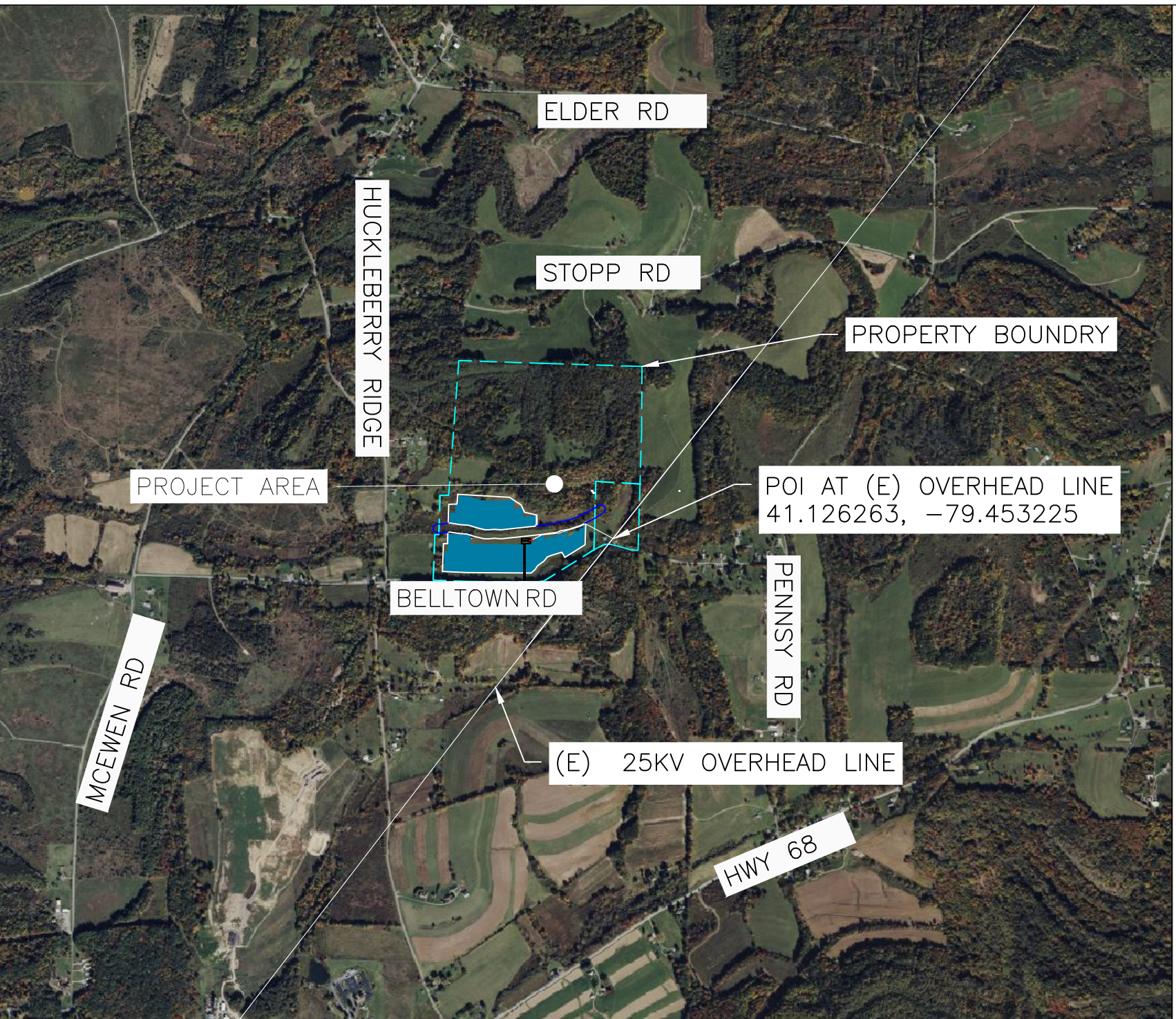
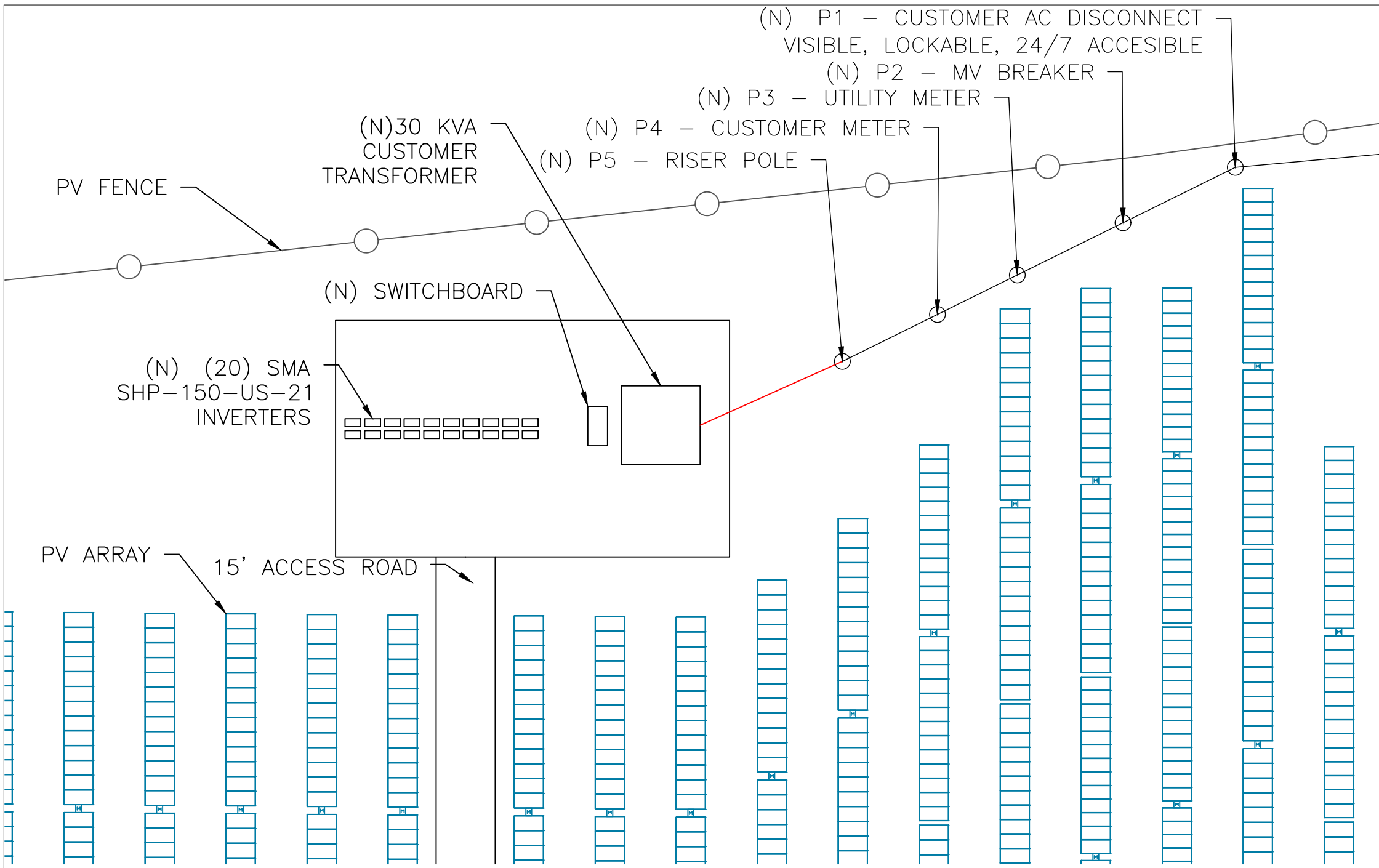


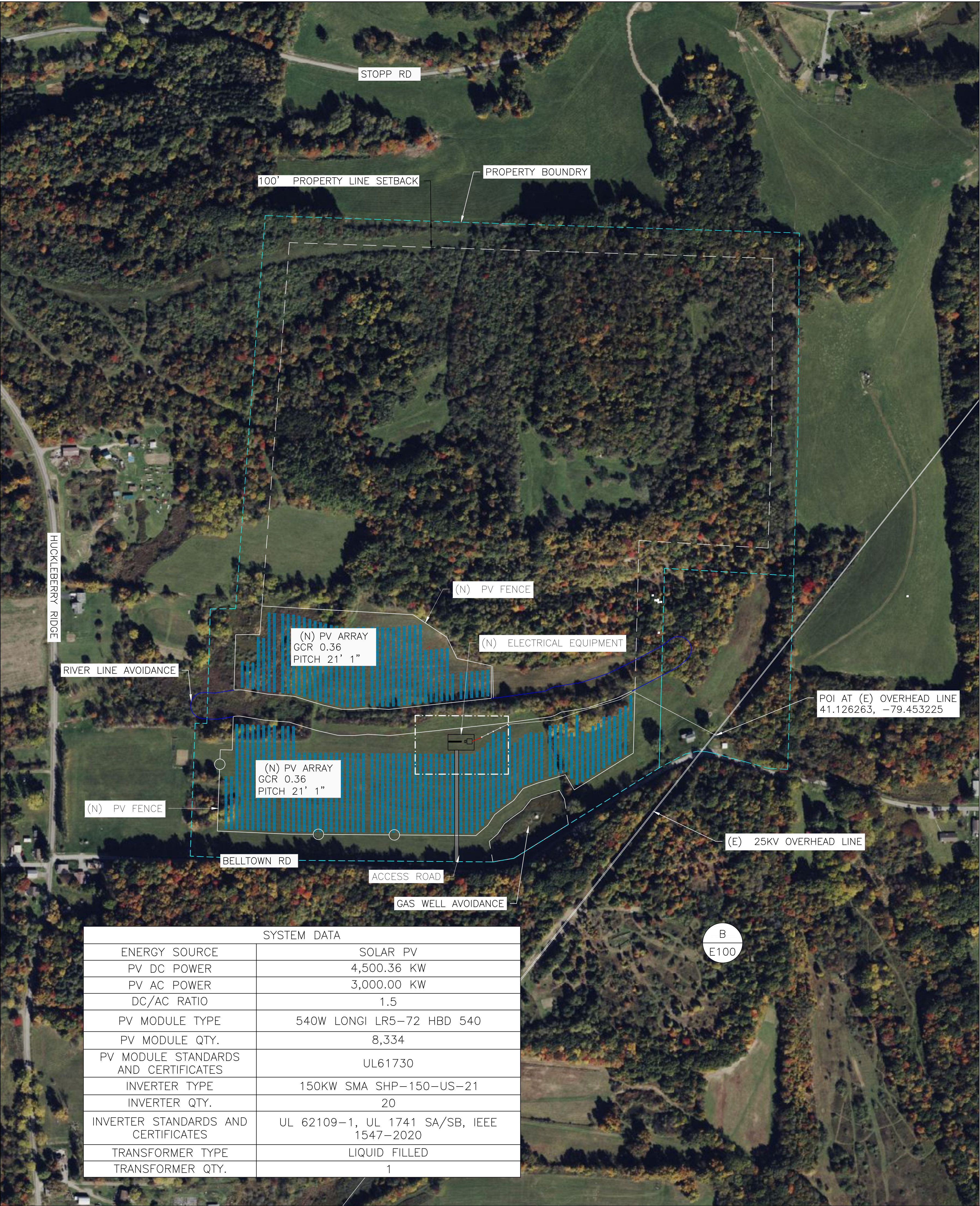
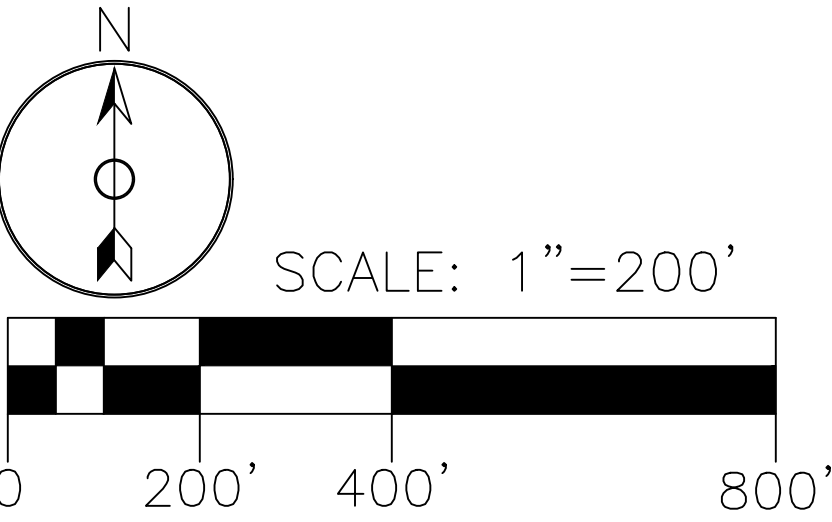
ARENA DEVELOPMENT, LLC  
ARENA ALPINE VALLEY SOLAR, LLC  
3,000KW-AC/4,500KW-DC PV



A REGIONAL MAP  
N.T.S



B ELECTRICAL EQUIPMENT  
SCALE: 1" = 30'



| SYSTEM DATA                          |   |
|--------------------------------------|---|
| ENERGY SOURCE                        | SOLAR PV                                  |
| PV DC POWER                          | 4,500.36 KW                               |
| PV AC POWER                          | 3,000.00 KW                               |
| DC/AC RATIO                          | 1.5                                       |
| PV MODULE TYPE                       | 540W LONGI LR5-72 HBD 540                 |
| PV MODULE QTY.                       | 8,334                                     |
| PV MODULE STANDARDS AND CERTIFICATES | UL61730                                   |
| INVERTER TYPE                        | 150KW SMA SHP-150-US-21                   |
| INVERTER QTY.                        | 20  |
| INVERTER STANDARDS AND CERTIFICATES  | UL 62109-1, UL 1741 SA/SB, IEEE 1547-2020 |
| TRANSFORMER TYPE                     | LIQUID FILLED                             |
| TRANSFORMER QTY.                     | 1   |



SCALE: AS NOTED  
(PRINT ON 36"X24")

|    |     |       |          |
|----|-----|-------|----------|
| SF | A   | INTXN | 04/30/25 |
| BY | REV | ISSUE | DATE     |

FIRM NAME AND ADDRESS  
HYDE RENEWABLES, INC  
4735 WALNUT ST, SUITE #110  
BOULDER, CO 80301  
INFO@HYDERENEWABLES.COM  
720-900-1009  
WWW.HYDERENEWABLES.COM

PROJECT NAME AND ADDRESS  
ARENA DEVELOPMENT, LLC  
ARENA ALPINE VALLEY SOLAR, LLC  
2382 HUCKLEBERRY RIDGE,  
SLIGO, PA 16255  
41.126263, -79.458544

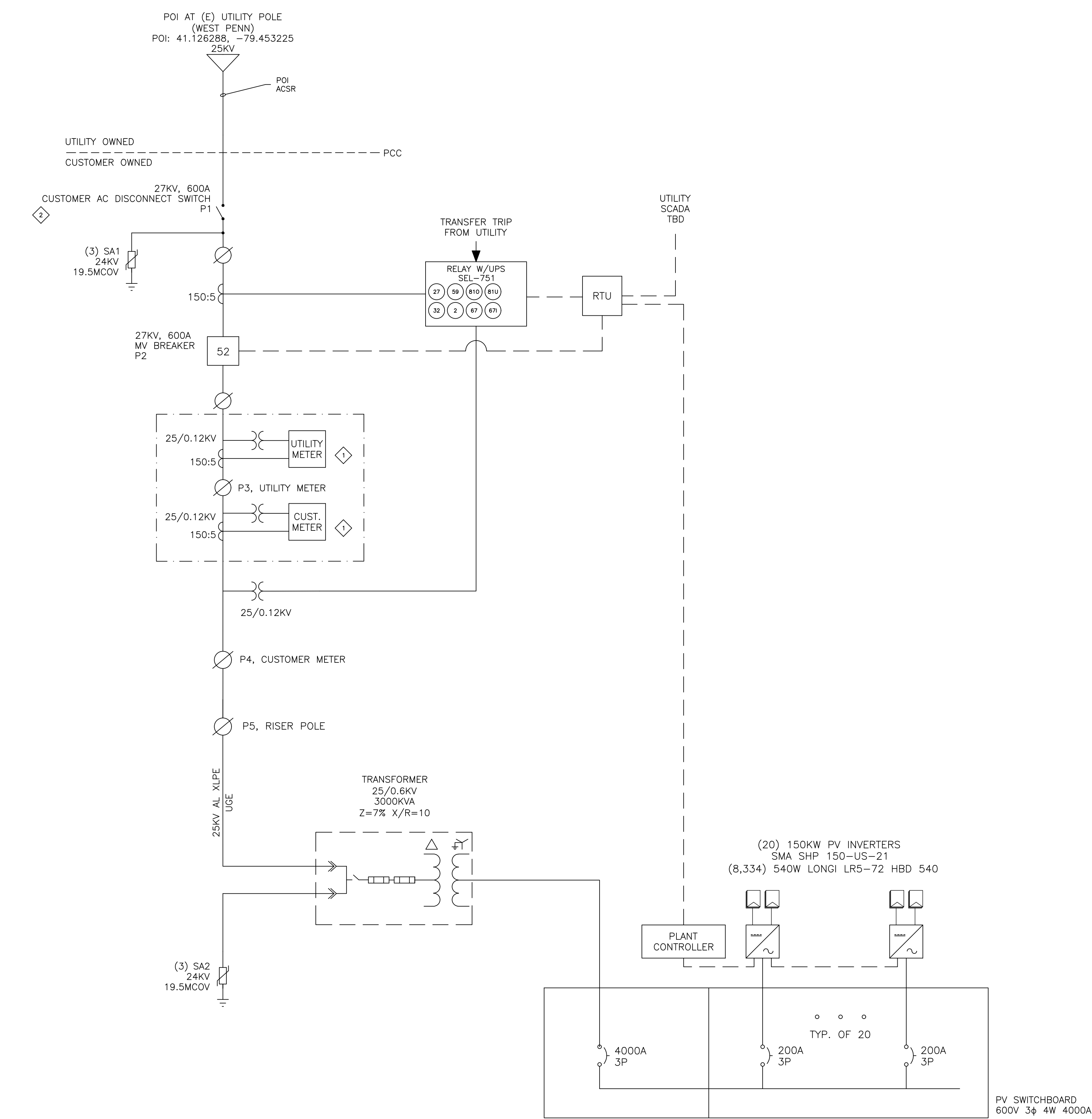
PROJECT #: 209-1057

SHEET TITLE  
SITE PLAN

|                          |                 |
|--------------------------|-----------------|
| DRAWN BY<br>SF           | SHEET #<br>E100 |
| DATE<br>04/04/25         |                 |
| CHECKED BY<br>TRIPP HYDE |                 |



ARENA DEVELOPMENT, LLC  
ARENA ALPINE VALLEY SOLAR, LLC  
3,000kW–AC/4,500KW–DC PV



| SYSTEM DATA                          |   |
|--------------------------------------|---|
| ENERGY SOURCE                        | SOLAR PV                                  |
| PV DC POWER                          | 4,500.36 KW                               |
| PV AC POWER                          | 3,000.00 KW                               |
| DC/AC RATIO                          | 1.5                                       |
| PV MODULE TYPE                       | 540W LONGI LR5-72 HBD 540                 |
| PV MODULE QTY.                       | 8,334                                     |
| PV MODULE STANDARDS AND CERTIFICATES | UL61730                                   |
| INVERTER TYPE                        | 150KW SMA SHP-150-US-21                   |
| INVERTER QTY.                        | 20  |
| INVERTER STANDARDS AND CERTIFICATES  | UL 62109-1, UL 1741 SA/SB, IEEE 1547-2020 |
| TRANSFORMER TYPE                     | LIQUID FILLED                             |
| TRANSFORMER QTY.                     | 1   |

SHEET NOTES:

- 1 METER NUMBER #TBD.
- 2 S&C 27KV OMNI-RUPTER GOAB OR SIMILAR A/C DISCONNECT: LOCKABLE, VISIBLE BLADE WITH 24/7 ACCESS.
- 3 INVERTERS MUST MEET LATEST FIRST ENERGY SMART INVERTER SETTINGS FOR FREQUENCY DISTURBANCE, FREQUENCY DROOP, VOLTAGE DISTURBANCE, ENTER SERVICE, AND VOLTAGE SUPPORT AS PUBLISHED 12/19/2023.

GENERAL NOTES:

1. POLE 1 THRU POLE 5 DESIGNATED AS P1 THRU P5. FOR LOCATION OF POLES REFER SHEET E100 (SITE PLAN).
2. ALL EQUIPMENT PRESENT ON SLD ARE NEW, EXCEPT THOSE MARKED WITH (E).

RELAY AND INVERTER SETTINGS

| ANSI DEVICE NUMBER | FUNCTION   |
|--------------------|--|
| 27                 | UNDERVOLTAGE (PHASE, PHASE-TO-PHASE, VSYNC)      |
| 59                 | OVERVOLTAGE (PHASE, PHASE-TO-PHASE, SEQ., VSYNC) |
| 810                | OVER FREQUENCY                                   |
| 81U                | UNDER FREQUENCY                                  |
| 59                 | GROUND DETECT                                    |
| 32                 | DIRECTIONAL POWER                                |
| 67                 | DIRECTIONAL OVERCURRENT                          |
| 67I                | INSTANTANEOUS DIRECTIONAL OVERCURRENT            |

| VOLTAGE RANGE (% OF BASE) | MAXIMUM TOTAL CLEARING TIME (S) | FREQUENCY (Hz) | MAXIMUM TOTAL CLEARING TIME (S) |
|---------------------------|---------------------------------|----------------|---------------------------------|
| V<45                      | 0.16                            | <57            | 0.16                            |
| 45≤V<60                   | 1                               | <59.5          | 2                               |
| 60≤V<88                   | 2                               | >60.5          | 2                               |
| 100<V<120                 | 1                               | >62            | 0.16                            |
| V>120                     | 0.16                            |                |                                 |



SCALE: AS NOTED  
(PRINT ON 36"X24")

|    |     |       |          |
|----|-----|-------|----------|
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41.126263, -79.458544

PROJECT #: 209-1057

SHEET TITLE  
SLD

|                          |                 |
|--------------------------|-----------------|
| DRAWN BY<br>SF           | SHEET #<br>E200 |
| DATE<br>04/04/25         |                 |
| CHECKED BY<br>TRIPP HYDE |                 |