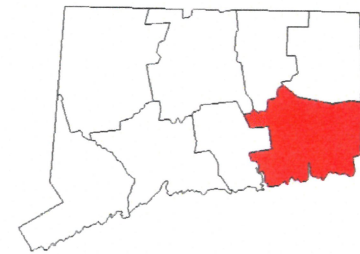


SOLAR PHOTOVOLTAIC TOTAL SYSTEM SIZE:
TOTAL RATED POWER= 1,264 kW DC (1000 kW AC)
(3200) CANADIAN BIHIKU 395W MODULES
(128) PARALLEL STRINGS OF (25) MODULES PER STRING
(8) SOLECTRIA XGI 1500-125/125
POST DRIVEN MOUNTING SYSTEM (2-HIGH PORTRAIT) @ 25° TILT



2 SITE LOCATION MAP
SCALE: N.T.S.



3 STATE COUNTY MAP
NEW LONDON COUNTY, CT



4 SAMPLE GROUND MOUNT IMAGE
SCALE: N.T.S.

REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	FOR PERMIT	AR	05/18/20
1	CLIENT COMMENTS	AR	05/01/20

PROJECT TITLE:
ELMRIDGE GOLF COURSE
SOLAR PHOTOVOLTAIC SYSTEM

SITE:
ELMRIDGE GOLF COURSE
EAST ARRAY - SYSTEM B1
PIT #33846
229 ELMRIDGE ROAD
PAWCATUCK, CT 06379

OWNER:

ADVANCED SOLAR PRODUCTS
270 SOUTH MAIN STREET
FLEMINGTON, NJ 08822
908-751-5818 (PHONE)
908-751-5819 (FAX)
Me@advancedsolarproducts.com

NJ CERTIFICATE OF AUTHORIZATION LICENSE
NO.: 24GA28102500

DRAWN: RES	DATE: 04/09/2020
CHECKED:	DATE:
SCALE: NONE	DWG. NO.: E-2
DRAWING TITLE: SITE PLAN	



FOR PERMITTING



1 SITE PLAN
SCALE: 1"=40'
(GRAPHIC SCALE: SHOWN IN FEET)

NOTES:

A) CODES AND STANDARDS:
ALL EQUIPMENT, MATERIALS, AND METHODS SHALL MEET THE FOLLOWING CODES AND STANDARDS:
- NATIONAL ELECTRICAL CODE, 2017 ED.
- UL 1741
- UL 1703
- UL 1699B
- IEEE 929-2000
- ALL OTHER APPLICABLE NATIONAL, STATE AND LOCAL CODES

B) SIGNAGE NOTES:

1. WARNING: THIS FACILITY IS SERVED BY A PHOTOVOLTAIC GENERATING SOURCE. THE PHOTOVOLTAIC AC DISCONNECT MEANS ARE LOCATED WITHIN THIS PANEL. THE PHOTOVOLTAIC DC DISCONNECT MEANS ARE LOCATED WITHIN THE INVERTERS.
2. ALL AC & DC FUSES & DISCONNECTS TO BE LABELED.
WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.
3. WARNING: IF A GROUND FAULT IS DETECTED, THE NORMALLY GROUNDED CONDUCTORS MAY BE ENERGIZED AND UNGROUNDED.
4. CAUTION - HIGH VOLTAGE - KEEP OUT
DANGER - HIGH VOLTAGE - QUALIFIED PERSONS ONLY

C) INVERTER PROTECTIVE FUNCTIONS:

1. OVER VOLTAGE, UNDER VOLTAGE, OVER FREQUENCY & UNDER FREQUENCY PROTECTIONS BUILT INTO INVERTER PER UL 1741

D) DESIGN HIGH AMBIENT TEMPERATURE = 32°C
& DESIGN LOW AMBIENT TEMPERATURE = -19°C

SOLAR PHOTOVOLTAIC TOTAL SYSTEM SIZE:

TOTAL RATED POWER= 1,264 kW DC (1000 kW AC)
(3200) CANADIAN BIHIKU 395W MODULES
(128) PARALLEL STRINGS OF (25) MODULES PER STRING
(8) SOLECTRIA XGI 1500-125/125
STRING VALUES: Vmp = 962.5 VDC; Voc = 1175 VDC; Vmax = 1325 VDC

EQUIPMENT SPECIFICATIONS

CANADIAN SOLAR CS3W-395PB-AG BIFACIAL HALF-CELL MODULE:				SOLECTRIA XGI 1500-125/125:			
PEAK POWER (+3W/-0W)	Pmax	395 W		AC MAXIMUM OUTPUT POWER		125 kW / 125 kVA	
OPERATING VOLTAGE	Vmp	38.50 V		AC OUTPUT VOLTAGE (3φ)		600 VAC	
OPERATING CURRENT	Imp	10.26 A		AC MAXIMUM OUTPUT CURRENT		120 A	
OPEN CIRCUIT VOLTAGE	Voc	47.00 V		DC MAXIMUM VOLTAGE		1500 VDC	
SHORT CIRCUIT CURRENT (RATED)	Isc	10.82 A		DC MAXIMUM CURRENT		320 A	
SHORT CIRCUIT CURRENT (5% BOOST)	Isc+	11.36 A		MPPT VOLTAGE RANGE		860-1450 VDC	

TABLE 1 - FEEDER SCHEDULE

DC FEEDERS					
FEEDER	DC CONDUCTORS	CONDUCTORS PER POLARITY	CONDUCTORS PER INVERTER	EQUIPMENT GROUND	CONDUIT(S) PER INVERTER
DCF-1	#10 AWG CU. 2KV XLPE (PV WIRE)	1	32	#6 AWG CU. BARE	1 2" SCH. 40 PVC

AC FEEDERS				
FEEDER	AC 3φ CONDUCTORS	CONDUCTORS PER PHASE	NEUTRAL (PER CONDUIT)	EQUIPMENT GROUND (PER CONDUIT)
ACF-1	#1/0 AWG CU. 1kV XLPE	1	#6 AWG CU. 1kV XPLE	#6 AWG CU. THWN-2
ACF-2	500 KCMIL CU. 1kV XPLE	4	#2/0 AWG CU. 1kV XPLE	#3/0 AWG CU. THWN-2
ACF-3	#2 AWG CU. MV-105, 15kV, 133% EPR SHIELDED PVC JACKET	1	N/A	#4 AWG CU. BARE

CONDUIT(S)				
1	2" SCH. 40 PVC	2	5" SCH. 40 PVC	3" SCH. 40 PVC

TABLE 2 - AC FEEDER CALCULATIONS

FEEDER	CONDUCTORS PER PHASE/POLARITY	CONDUIT FILL %	AMBIENT TEMP. (°C)	TEMP. CORRECTION FACTOR	CURRENT CARRYING CONDUCTORS CORRECTION FACTOR	TOTAL REQUIRED AMPACITY	REQUIRED OCPD (AMPS)	TOTAL 75°C AMPACITY	TOTAL 90°C AMPACITY	TOTAL 105°C AMPACITY	TOTAL ADJUSTED 90°C AMPACITY	TOTAL ADJUSTED 105°C AMPACITY
DCF-1	1	26	32	0.96	0.4	14	20	35	40	N/A	15	N/A
ACF-1	1	29	32	0.96	1	120	150	150	170	N/A	163	N/A
ACF-2	4	28	32	0.96	0.8	960	1200	1520	1720	N/A	1321	N/A
ACF-3	1	33	32	1.04	1	42	60	N/A	195	215	N/A	224

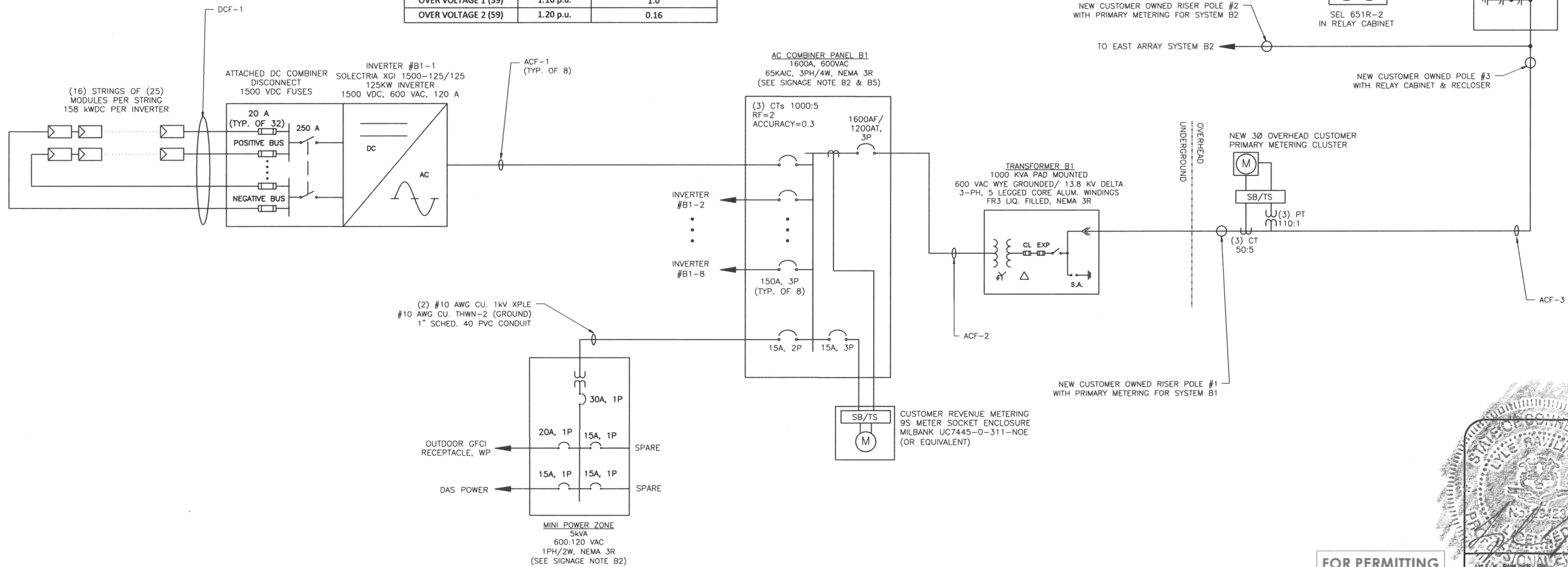
INVERTER SETTINGS

FREQUENCY

DEVICE	PICKUP	CLEARING TIME (SECONDS)
UNDER FREQUENCY 2 (81U)	57 Hz	0.16
UNDER FREQUENCY 1 (81U)	59.5 Hz	2.0
OVER FREQUENCY 1 (81O)	60.5 Hz	2.0
OVER FREQUENCY 2 (81O)	62 Hz	0.16

VOLTAGE

DEVICE	PICKUP	CLEARING TIME (SECONDS)
UNDER VOLTAGE 3 (27)	0.45 p.u.	0.16
UNDER VOLTAGE 2 (27)	0.60 p.u.	1.0
UNDER VOLTAGE 1 (27)	0.88 p.u.	2.0
OVER VOLTAGE 1 (59)	1.10 p.u.	1.0
OVER VOLTAGE 2 (59)	1.20 p.u.	0.16



REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	FOR PERMIT	AR	05/18/20
1	CLIENT COMMENTS	AR	05/11/20

PROJECT TITLE:
ELMRIDGE GOLF COURSE
SOLAR PHOTOVOLTAIC SYSTEM

SITE:
ELMRIDGE GOLF COURSE
EAST ARRAY - SYSTEM B1
INT # 33846
229 ELMRIDGE ROAD
PAWCATUCK, CT 06479

OWNER:

ADVANCED SOLAR PRODUCTS
Dedicated to Building a Sustainable Future

270 SOUTH MAIN STREET
FLEMINGTON, NJ 08822
908-751-5818 (PHONE)
908-751-5819 (FAX)
me@advanced-solarproducts.com

NJ CERTIFICATE OF AUTHORIZATION LICENSE
NO.: 24GA28102500

DRAWN: AR DATE: 04/06/2020
CHECKED: DATE:
SCALE: NONE DWG. NO.: E-3-1
DRAWING TITLE:
SINGLE-LINE AC CIRCUIT

FOR PERMITTING

CT PROFESSIONAL ENGINEER LICENSE #29423

NOTES:

A) CODES AND STANDARDS:
ALL EQUIPMENT, MATERIALS, AND METHODS SHALL MEET THE FOLLOWING CODES AND STANDARDS:
- NATIONAL ELECTRICAL CODE, 2017 ED.
- UL 1741
- UL 1699B
- IEEE 929-2000
- ALL OTHER APPLICABLE NATIONAL, STATE AND LOCAL CODES

B) SIGNAGE NOTES:

1. WARNING, THIS FACILITY IS SERVED BY A PHOTOVOLTAIC GENERATING SOURCE. THE PHOTOVOLTAIC AC DISCONNECT MEANS ARE LOCATED WITHIN THIS PANEL. THE PHOTOVOLTAIC DC DISCONNECT MEANS ARE LOCATED WITHIN THE INVERTERS.
2. ALL AC & DC FUSES & DISCONNECTS TO BE LABELED.
WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.
3. WARNING, IF A GROUND FAULT IS DETECTED, THE NORMALLY GROUNDING CONDUCTORS MAY BE ENERGIZED AND UNGROUNDED.
4. CAUTION - HIGH VOLTAGE - KEEP OUT
DANGER - HIGH VOLTAGE - QUALIFIED PERSONS ONLY

C) INVERTER PROTECTIVE FUNCTIONS:

1. OVER VOLTAGE, UNDER VOLTAGE, OVER FREQUENCY & UNDER FREQUENCY PROTECTIONS BUILT INTO INVERTER PER UL 1741

D) DESIGN HIGH AMBIENT TEMPERATURE = 33°C
& DESIGN LOW AMBIENT TEMPERATURE = -16°C

SOLAR PHOTOVOLTAIC TOTAL SYSTEM SIZE:

TOTAL RATED POWER= 1,264 kW DC (1000 kW AC)
(3200) CANADIAN BIIHIKU 395W MODULES
(128) PARALLEL STRINGS OF (25) MODULES PER STRING
(8) SOLECTRIA XGI 1500-125/125
STRING VALUES: Vmp = 962.5 VDC; Voc = 1175 VDC; Vmax = 1325 VDC

TABLE 1 - FEEDER SCHEDULE

DC FEEDERS					
FEEDER	DC CONDUCTORS	CONDUCTORS PER POLARITY	CONDUCTORS PER INVERTER	EQUIPMENT GROUND	CONDUIT(S) PER INVERTER
DCF-1	#10 AWG CU, 2kV XLPE (PV WIRE)	1	32	#6 AWG CU, BARE	1 2" SCH. 40 PVC
AC FEEDERS					
FEEDER	AC 3Φ CONDUCTORS	CONDUCTORS PER PHASE	NEUTRAL (PER CONDUIT)	EQUIPMENT GROUND (PER CONDUIT)	CONDUIT(S)
ACF-1	#1/0 AWG CU, 1kV XLPE	1	#6 AWG, CU 1kV XPLE	#6 AWG CU, THWN-2	1 2" SCH. 40 PVC
ACF-2	500 KCMIL CU, 1kV XLPE	4	#2/0 AWG, CU 1kV XPLE	#3/0 AWG CU, THWN-2	2 5" SCH. 40 PVC
ACF-3	#2 AWG CU, MV-105, 15kV, 133% EPR SHIELDED PVC JACKET	1	N/A	#4 AWG CU, BARE	1 3" SCH. 40 PVC

TABLE 2 - AC FEEDER CALCULATIONS

FEEDER	CONDUCTORS PER PHASE/POLARITY	CONDUIT FILL %	AMBIENT TEMP. (°C)	TEMP. CORRECTION FACTOR	CURRENT CARRYING CONDUCTORS CORRECTION FACTOR	TOTAL REQUIRED AMPACITY	REQUIRED OCPD (AMPS)	TOTAL 75°C AMPACITY	TOTAL 90°C AMPACITY	TOTAL 105°C AMPACITY	TOTAL ADJUSTED 90°C AMPACITY	TOTAL ADJUSTED 105°C AMPACITY
DCF-1	1	26	32	0.96	0.4	14	20	35	40	N/A	15	N/A
ACF-1	1	29	32	0.96	1	120	150	150	170	N/A	163	N/A
ACF-2	4	28	32	0.96	0.8	960	1200	1520	1720	N/A	1321	N/A
ACF-3	1	33	32	1.04	1	42	60	N/A	195	215	N/A	224

INVERTER SETTINGS

FREQUENCY		
DEVICE	PICKUP	CLEARING TIME (SECONDS)
UNDER FREQUENCY 2 (81U)	57 Hz	0.16
UNDER FREQUENCY 1 (81U)	59.5 Hz	2.0
OVER FREQUENCY 1 (81O)	60.5 Hz	2.0
OVER FREQUENCY 2 (81O)	62 Hz	0.16
VOLTAGE		
DEVICE	PICKUP	CLEARING TIME (SECONDS)
UNDER VOLTAGE 3 (27)	0.45 p.u.	0.16
UNDER VOLTAGE 2 (27)	0.60 p.u.	1.0
UNDER VOLTAGE 1 (27)	0.88 p.u.	2.0
OVER VOLTAGE 1 (59)	1.10 p.u.	1.0
OVER VOLTAGE 2 (59)	1.20 p.u.	0.16

EQUIPMENT SPECIFICATIONS

CANADIAN SOLAR CS3W-395PB-AG BIFACIAL HALF-CELL MODULE:

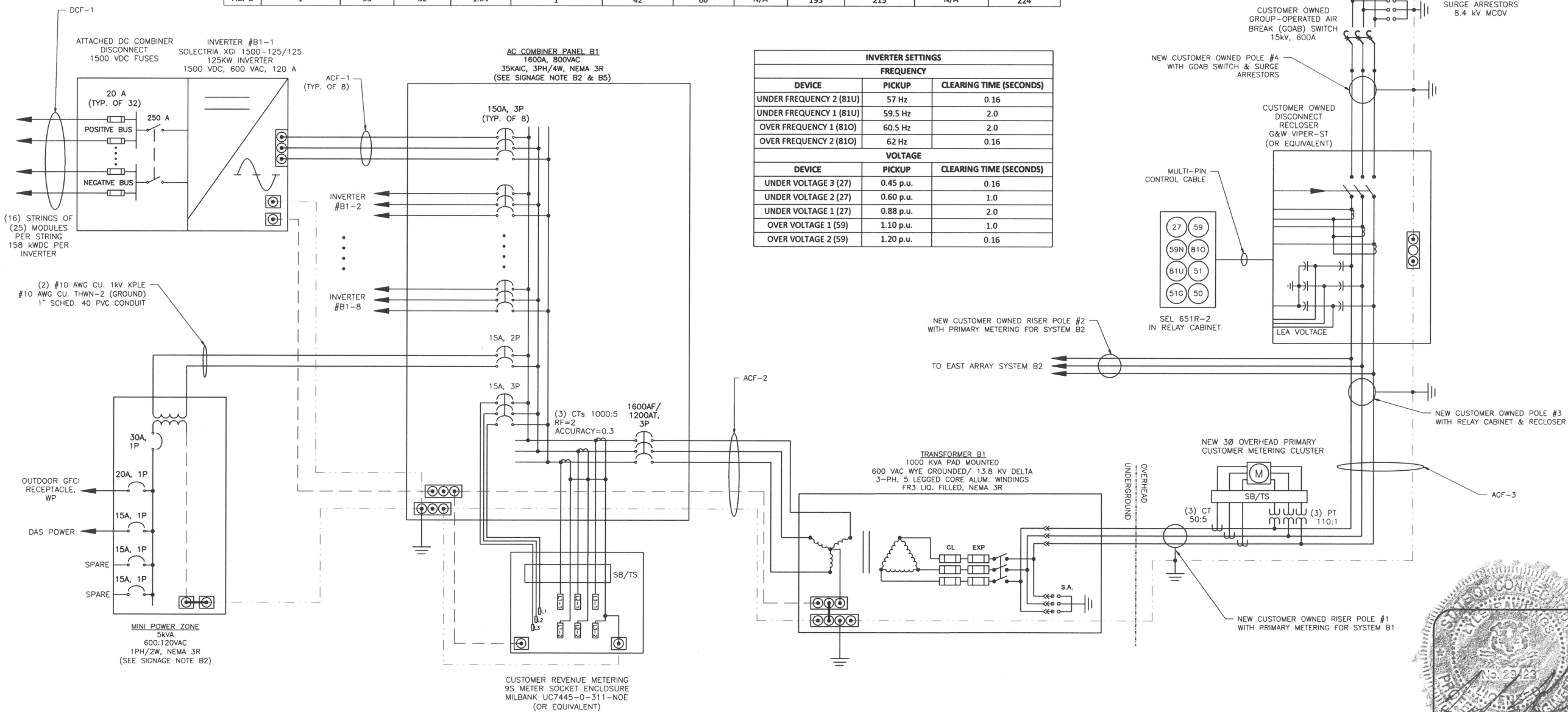
PEAK POWER (+3W/-0W) Pmax 395 W
OPERATING VOLTAGE Vmp 38.50 V
OPERATING CURRENT Imp 10.26 A
OPEN CIRCUIT VOLTAGE Voc 47.00 V
SHORT CIRCUIT CURRENT (RATED) Isc 10.82 A
SHORT CIRCUIT CURRENT (5% BOOST) Isc+ 11.36 A

SOLECTRIA XGI 1500-125/125:

AC MAXIMUM OUTPUT POWER 125 kW / 125 kVA
AC OUTPUT VOLTAGE (3Φ) 600 VAC
AC MAXIMUM OUTPUT CURRENT 120 A
DC MAXIMUM VOLTAGE 1500 VDC
DC MAXIMUM CURRENT 320 A
MPPT VOLTAGE RANGE 860-1450 VDC

KEY

NEUTRAL: - - - - -
GROUND: - - - - -



REVISIONS

NO.	DESCRIPTION	BY	DATE
2	FOR PERMIT	AR	05/18/20
1	CLIENT COMMENTS	AR	05/11/20

PROJECT TITLE:

ELMRIDGE GOLF COURSE
SOLAR PHOTOVOLTAIC SYSTEM

SITE:

ELMRIDGE GOLF COURSE
EAST ARRAY - SYSTEM B1
INT #38846
229 ELMRIDGE ROAD
PAWCAUTUCK, CT 06379

OWNER:

ADVANCED SOLAR PRODUCTS

270 SOUTH MAIN STREET
FLEMINGTON, NJ 08822
908-751-5818 (PHONE)
908-751-5819 (FAX)
info@advancedsolarproducts.com

NJ CERTIFICATE OF AUTHORIZATION LICENSE

NO.: 24GA28102500

DRAWN:

AR

CHECKED:

DATE: 04/06/2020

SCALE:

NONE

DWG. NO.:

E-3-2

DRAWING TITLE:

THREE-LINE AC CIRCUIT

FOR PERMITTING

LYLE K. RAWLINGS, P.E.
CT PROFESSIONAL ENGINEER LIC #29423

NOTES:
A) CODES AND STANDARDS:
ALL EQUIPMENT, MATERIALS, AND METHODS SHALL MEET THE FOLLOWING CODES AND STANDARDS:
- NATIONAL ELECTRICAL CODE, 2017 ED.
- UL 1741
- UL 1703
- UL 1699B
- IEEE 929-2000
- ALL OTHER APPLICABLE NATIONAL, STATE AND LOCAL CODES

B) SIGNAGE NOTES:
1. WARNING, THIS FACILITY IS SERVED BY A PHOTOVOLTAIC GENERATING SOURCE. THE PHOTOVOLTAIC A.C. DISCONNECT MEANS ARE LOCATED WITHIN THIS PANEL. THE PHOTOVOLTAIC DC DISCONNECT MEANS ARE LOCATED WITHIN THE INVERTERS.
2. ALL AC & DC FUSES & DISCONNECTS TO BE LABELED.
WARNING: ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.
3. WARNING: IF A GROUND FAULT IS DETECTED, THE NORMALLY GROUNDED CONDUCTORS MAY BE ENERGIZED AND UNGROUNDED.
4. CAUTION - HIGH VOLTAGE - KEEP OUT
DANGER - HIGH VOLTAGE - QUALIFIED PERSONS ONLY

C) INVERTER PROTECTIVE FUNCTIONS:
1. OVER VOLTAGE, UNDER VOLTAGE, OVER FREQUENCY & UNDER FREQUENCY PROTECTIONS BUILT INTO INVERTER PER UL 1741

D) DESIGN HIGH AMBIENT TEMPERATURE = 33°C
& DESIGN LOW AMBIENT TEMPERATURE = -16°C

SOLAR PHOTOVOLTAIC TOTAL SYSTEM SIZE:
TOTAL RATED POWER= 1,264 kW DC (1000 kW AC)
(3200) CANADIAN BIHIKU 395W MODULES
(128) PARALLEL STRINGS OF (25) MODULES PER STRING
(8) SOLECTRIA XGI 1500-125/125
STRING VALUES: Vmp = 962.5 VDC; Voc = 1175 VDC; Vmax = 1325 VDC

NEW

CanadianSolar

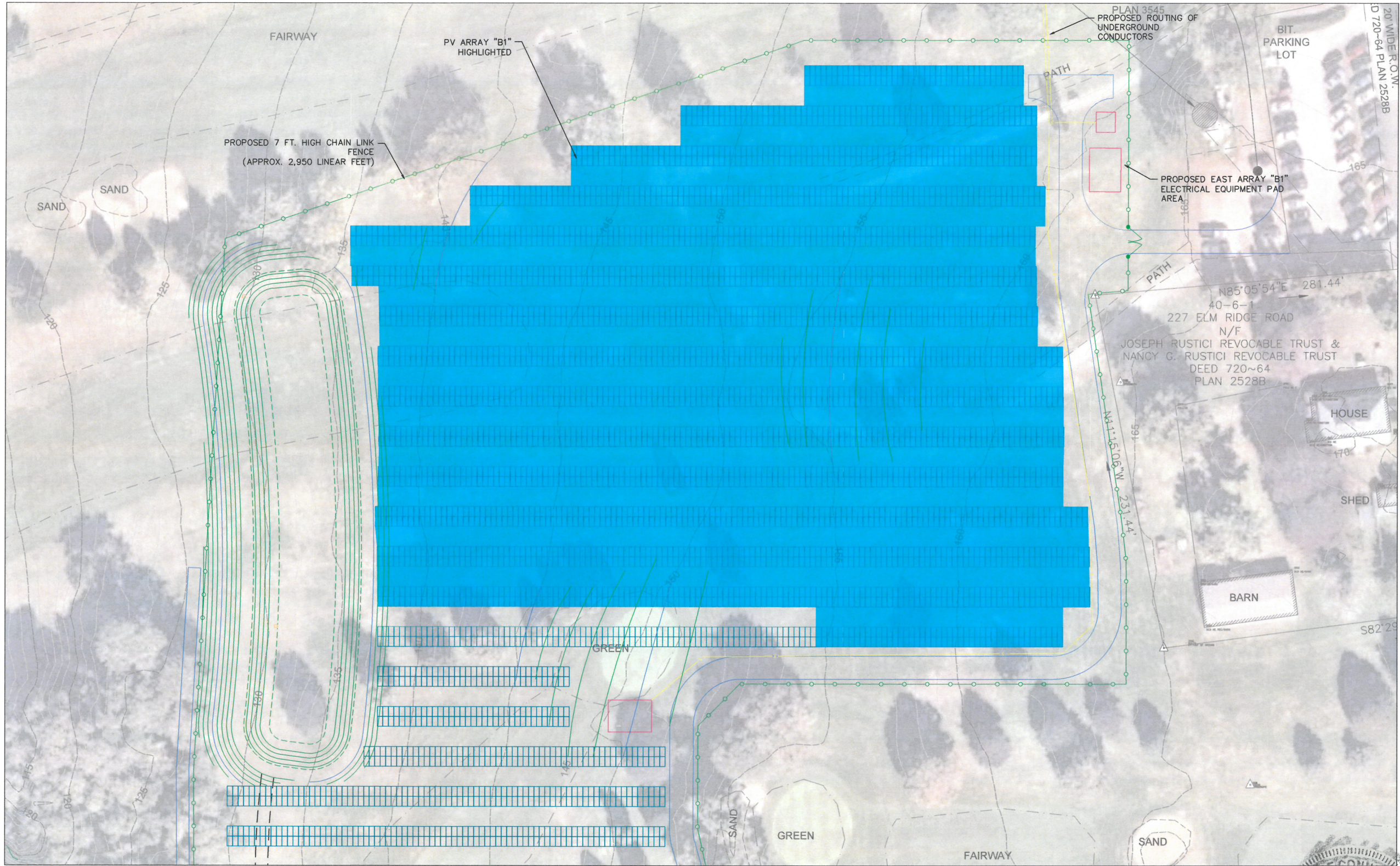
BiHiKu
SUPER HIGH POWER BIFACIAL POLY PERC MODULE
390 W - 410 W
UP TO 30% MORE POWER FROM THE BACK SIDE
CS3W-390|395|400|405|410PB-AG

MORE POWER
Up to 30% more power from the back side
24% to more front side power than conventional modules
Low NAOT: 41 ± 3°C
Low temperature coefficient (Pmax): -0.37 W / °C
Better shading tolerance

WORKS RELIABLE
Lower internal current, lower back spot temperature
Minimizes micro-cracks and voids
Heavy stress load up to 5400 Pa, wind load up to 2400 Pa
Fire Class A and Type 1 Type 13

MANAGEMENT SYSTEM CERTIFICATIONS
ISO 9001:2015 (Quality management system)
ISO 14001:2015 (Environmental management system)
ISO 45001:2018 (Occupational health & safety management system)

PRODUCT CERTIFICATIONS
IEC 61215 (2016) IEC 61730 (2016) IEC 61646 (2016) IEC 61853 (2016) IEC 61854 (2016) IEC 61855 (2016) IEC 61856 (2016) IEC 61857 (2016) IEC 61858 (2016) IEC 61859 (2016) IEC 61860 (2016) IEC 61861 (2016) IEC 61862 (2016) IEC 61863 (2016) IEC 61864 (2016) IEC 61865 (2016) IEC 61866 (2016) IEC 61867 (2016) IEC 61868 (2016) IEC 61869 (2016) IEC 61870 (2016) IEC 61871 (2016) IEC 61872 (2016) IEC 61873 (2016) IEC 61874 (2016) IEC 61875 (2016) IEC 61876 (2016) IEC 61877 (2016) IEC 61878 (2016) IEC 61879 (2016) IEC 61880 (2016) IEC 61881 (2016) IEC 61882 (2016) IEC 61883 (2016) IEC 61884 (2016) IEC 61885 (2016) IEC 61886 (2016) IEC 61887 (2016) IEC 61888 (2016) IEC 61889 (2016) IEC 61890 (2016) IEC 61891 (2016) IEC 61892 (2016) IEC 61893 (2016) IEC 61894 (2016) IEC 61895 (2016) IEC 61896 (2016) IEC 61897 (2016) IEC 61898 (2016) IEC 61899 (2016) IEC 61900 (2016) IEC 61901 (2016) IEC 61902 (2016) IEC 61903 (2016) IEC 61904 (2016) IEC 61905 (2016) IEC 61906 (2016) IEC 61907 (2016) IEC 61908 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1 SITE PLAN
SCALE: 1"=60'

(GRAPHIC SCALE: SHOWN IN FEET)

SOLAR PHOTOVOLTAIC TOTAL SYSTEM SIZE:
TOTAL RATED POWER= 1,264 kW DC (1000 kW AC)
(3200) CANADIAN BIHIKU 395W MODULES
(128) PARALLEL STRINGS OF (25) MODULES PER STRING
(8) SOLECTRIA XGI 1500-125/125
POST DRIVEN MOUNTING SYSTEM (2-HIGH PORTRAIT) @ 25° TILT

FOR PERMITTING



REVISIONS			
NO.	DESCRIPTION	BY	DATE
2	FOR PERMIT	AR	05/18/20
1	CLIENT COMMENTS	AR	05/01/20

PROJECT TITLE:
ELMRIDGE GOLF COURSE
SOLAR PHOTOVOLTAIC SYSTEM

SITE:
ELMRIDGE GOLF COURSE
EAST ARRAY - SYSTEM B1
INT #33846
229 ELMRIDGE ROAD
PAWCATUCK, CT 06379

OWNER:

ADVANCED SOLAR PRODUCTS
Dedicated to Building a Sustainable Future
270 SOUTH MAIN STREET
FLEMINGTON, NJ 08822
908-751-5818 (PHONE)
908-751-5819 (FAX)
lkr@advancedsolarproducts.com

NJ CERTIFICATE OF AUTHORIZATION LICENSE
NO.: 24GA28102500

DRAWN: RES **DATE:** 04/09/2020

CHECKED: **DATE:**

SCALE: NONE **DWG. NO.:** E-4

DRAWING TITLE:
ARRAY LAYOUT (ENLARGED)