

ELECTR	ICAL ABBREVIATION:						
A	AMPERES	°F	DEGREE FAHRENHEIT	PNL	PANEL	PVC	POLYVINYL CHLORIDE
AF	AMPERE FRAME/AMP FUSE	DISC	DISCONNECT	W	WATT	RGS	RIGID GALVANIZED STEEL
AS	AMP SWITCH	DP	DISTRIBUTION PANEL	w	WIRE	SPDT	SINGLE POLE DOUBLE THROW
AIC	AMPS INTERRUPTING CAPACITY	KCMIL	ONE THOUSAND CIRCULAR MILS	E	EXISTING	SPST	SINGLE POLE SINGLE THROW
AT	AMP TRIP	КV	KILOVOLT	EC	EMPTY CONDUIT/ ELECTRICAL CONTRACTOR	SPEC	SPECIFICATION
ATS	AUTOMATIC TRANSFER SWITCH	KVA	KILOVOLT-AMPERES	EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
AUTO	AUTOMATIC	КW	KILOWATTS	EQUIP	EQUIPMENT	TYP	TYPICAL
AWG	AMERICAN WIRE GAUGE	МСВ	MAIN CIRCUIT BREAKER	FDR	FEEDER	U.O.N.	UNLESS OTHERWISE NOTED
С	CONDUIT	N	NEUTRAL	G	GROUND	V	VOLT/VOLTAGE
СВ	CIRCUIT BREAKER	NIC	NOT IN CONTRACT	GFI	GROUND FAULT INTERRUPTER	VA	VOLT AMPERE
СКТ	CIRCUIT	NTS	NOT TO SCALE	HZ	HERTZ	WP	WEATHERPROOF
СТ	CURRENT TRANSFORMER	Р	POLES	IC	INTERRUPTING CAPACITY	XFMR	TRANSFORMER
°C	DEGREE CELSIUS	Ø	PHASE	PP	POWER PANEL		1

INTERCONNECTION APPLICATION SET

ELECTRICAL NOTES

- 1. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED FOR FAILURE TO DO SO.
- 2. CONTRACTOR SHALL PROVIDE A WARRANTY ON ALL MATERIALS, EQUIPMENT, AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 3. ALL ELECTRICAL ACCESSORIES AND EQUIPMENT INSTALLED OUTSIDE OR EXPOSED TO WEATHER SHALL HAVE NEMA 3R ENCLOSURES AND SHALL BE TIGHTLY GASKETED FOR A COMPLETE RAINTIGHT INSTALLATION.

Y Y	TRANSFORMER, RATIN
	CIRCUIT BREAKER, RA
\sum	INVERTER, RATING AS
`	DISCONNECT SWITCH
M	ENERGY METER
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$\overleftarrow{\mathbf{X}}$	KEYED NOTE REFERE
	UNDERGROUND WIRIN
	OVERHEAD WIRING SY
<u> </u>	FUSE, SIZE AS INDICA

(12300) 485 WATT MODULE MANUFACTURER: HANWHA MODEL: Q.PEAK DUO XL-G10.3/BFG 485 (485W) (22) 225 KW 3-PHASE STRING INVERTERS MANUFACTURER: YASKAWA SOLECTRIA MODEL: SGI 225-480

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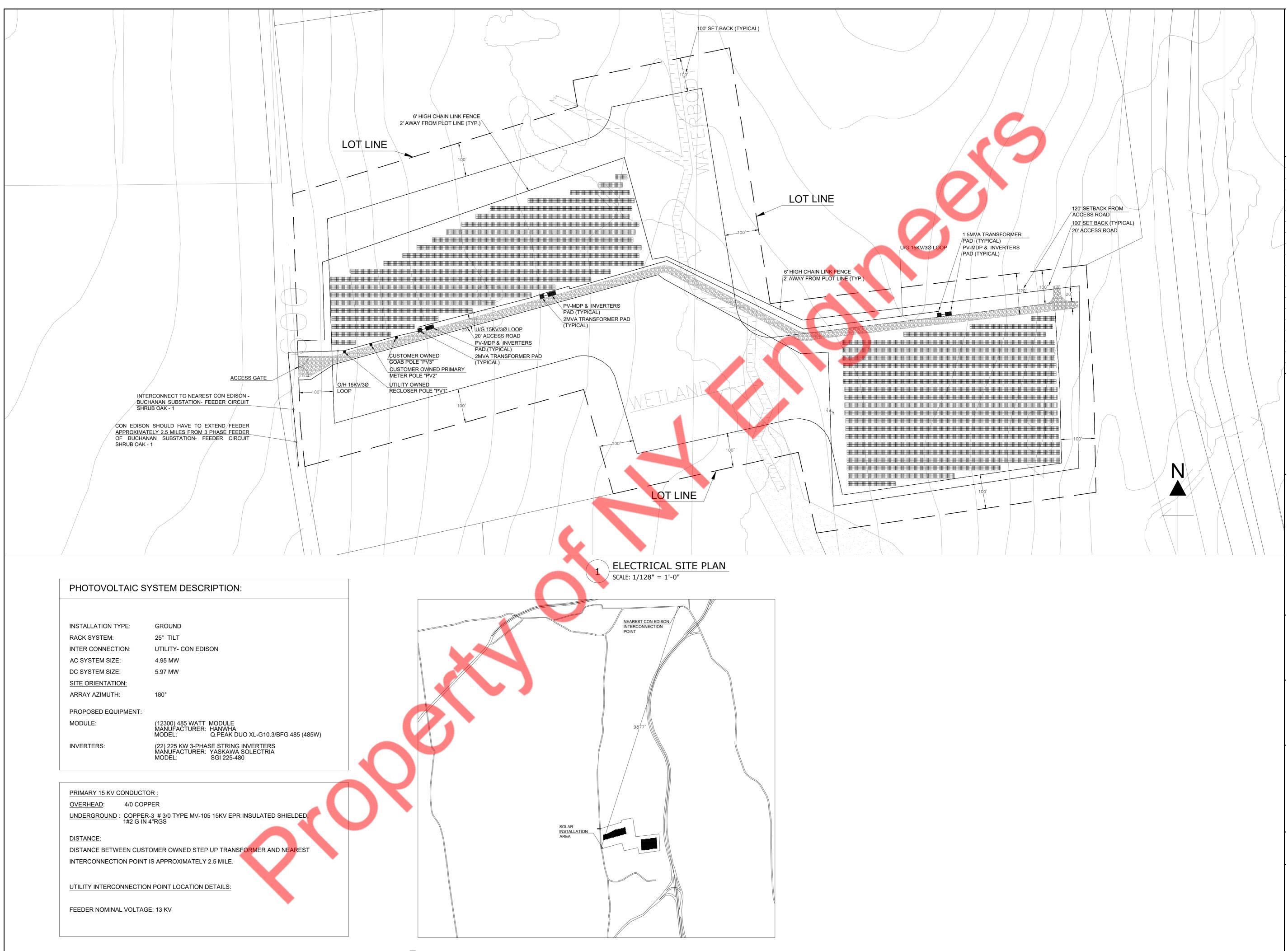
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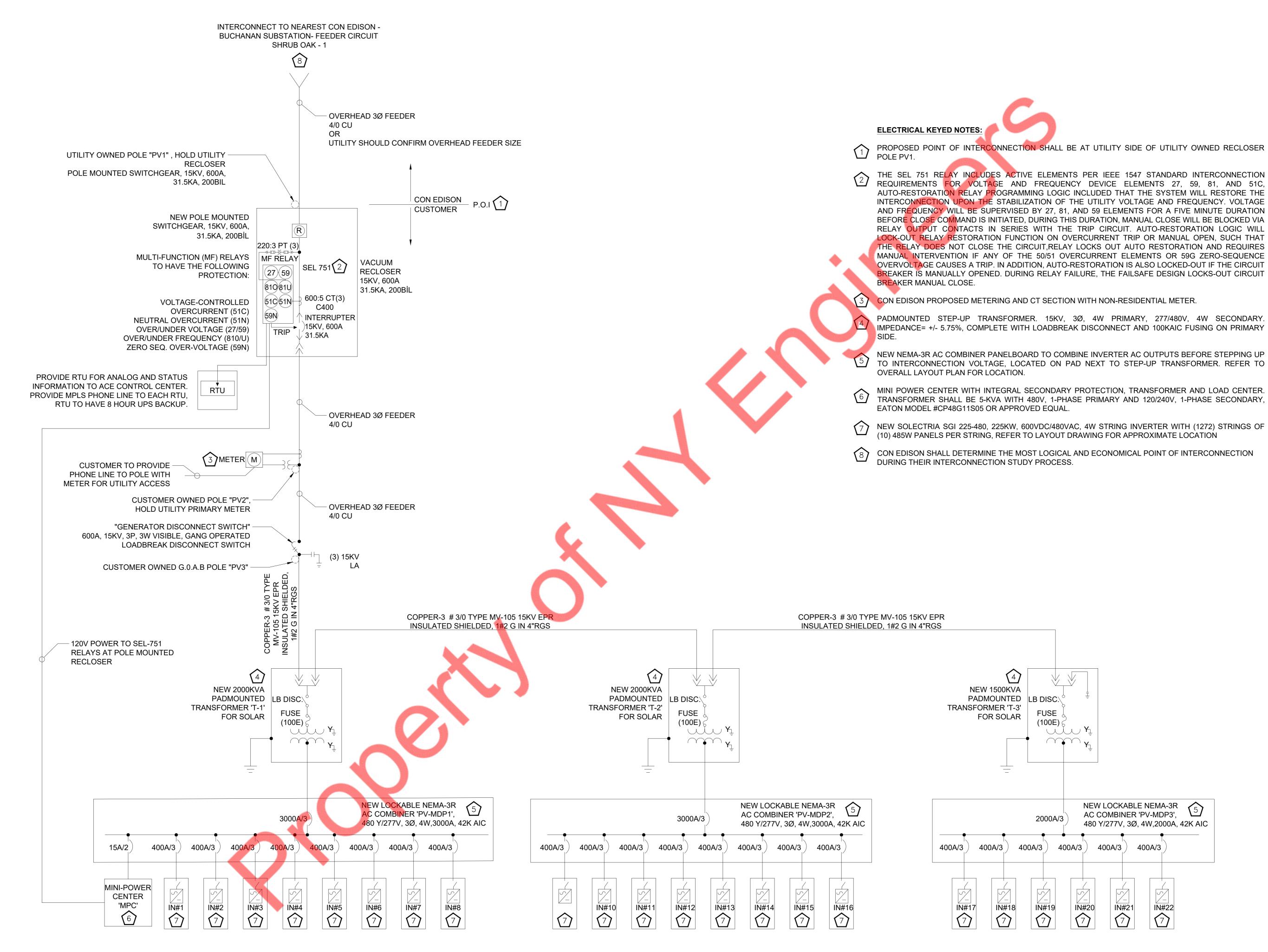
SYSTEM

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PHOTOVOLTAIC SYSTEM DESCRIPTION:





SINGLE LINE DIAGRAM SCALE: NTS

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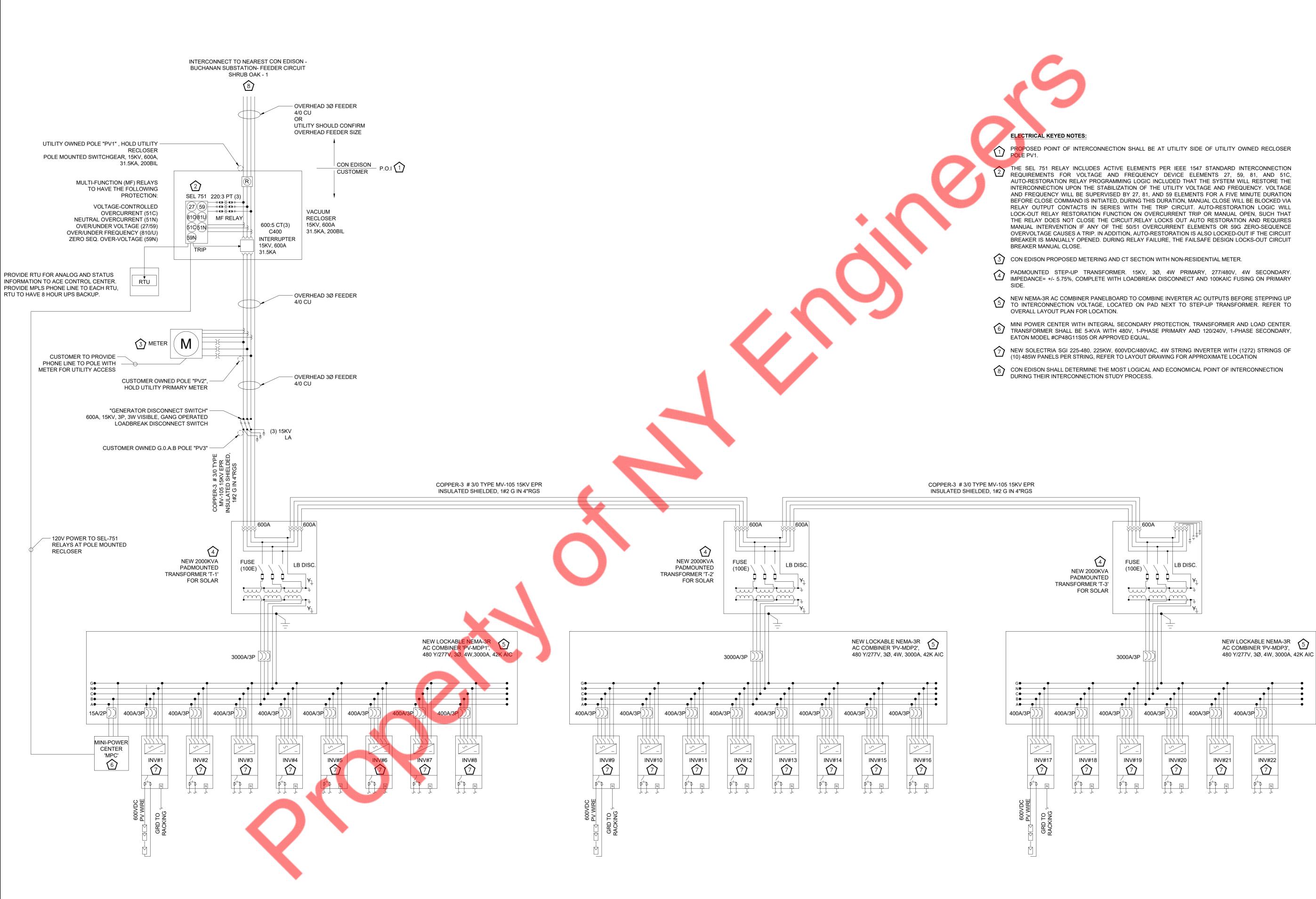
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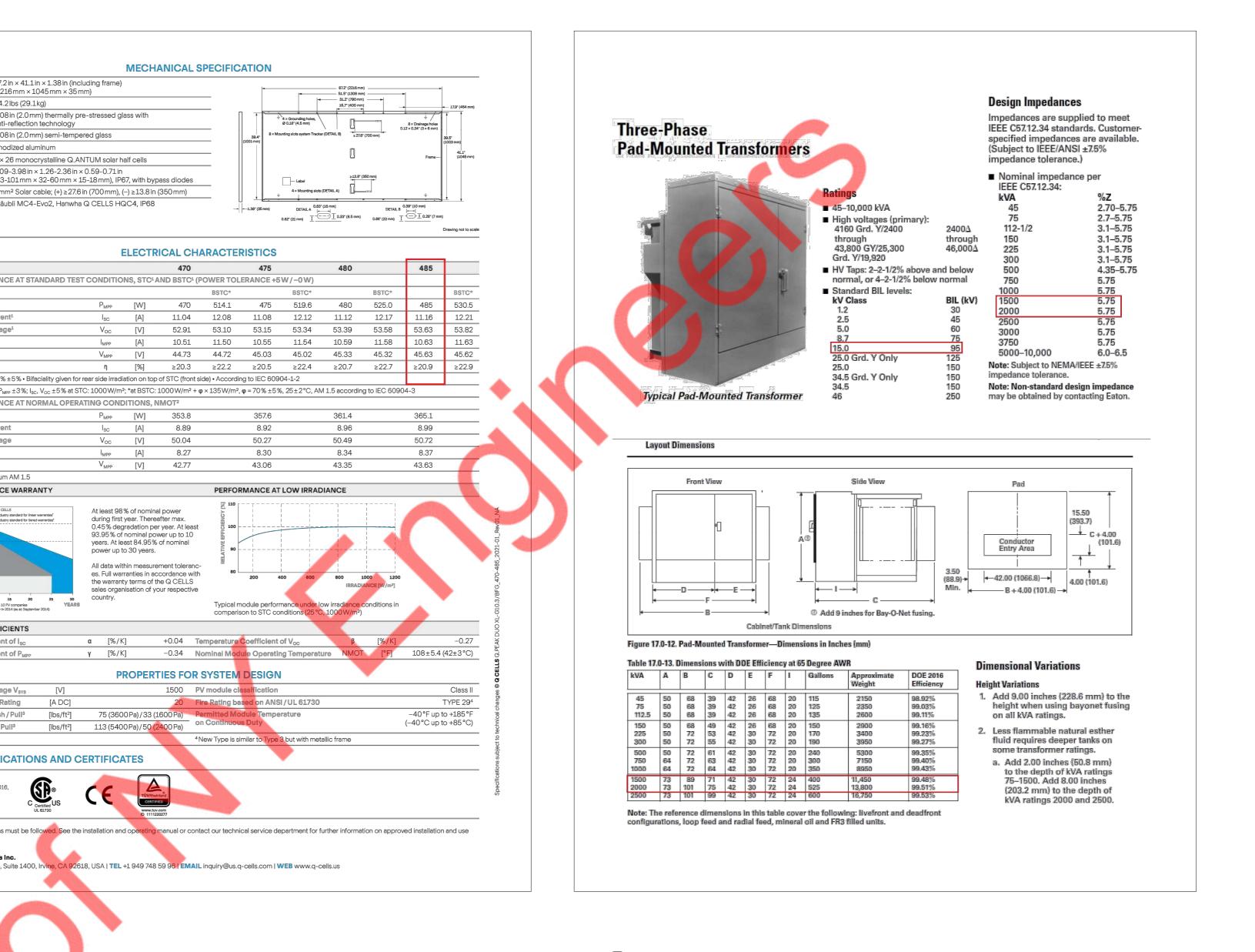
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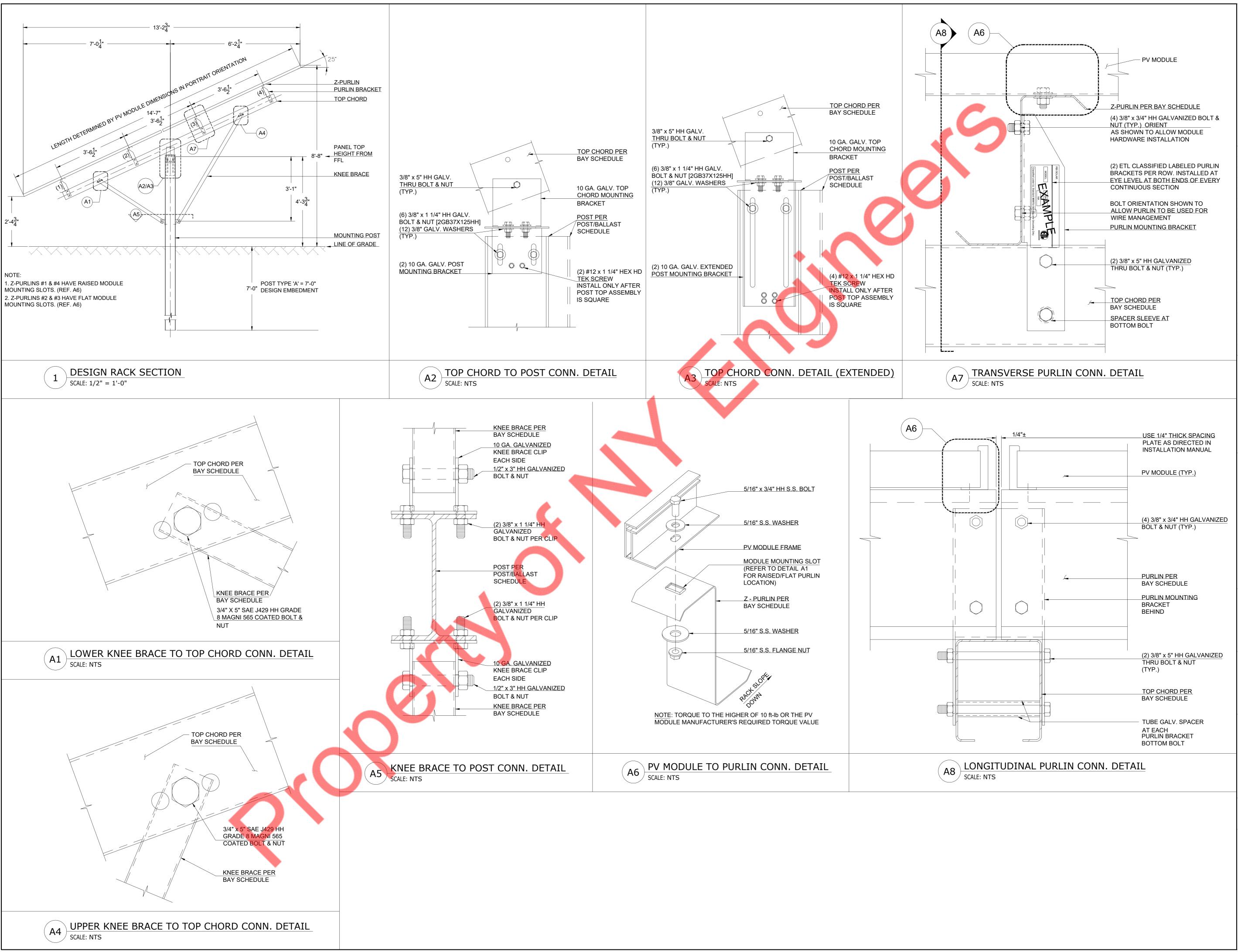


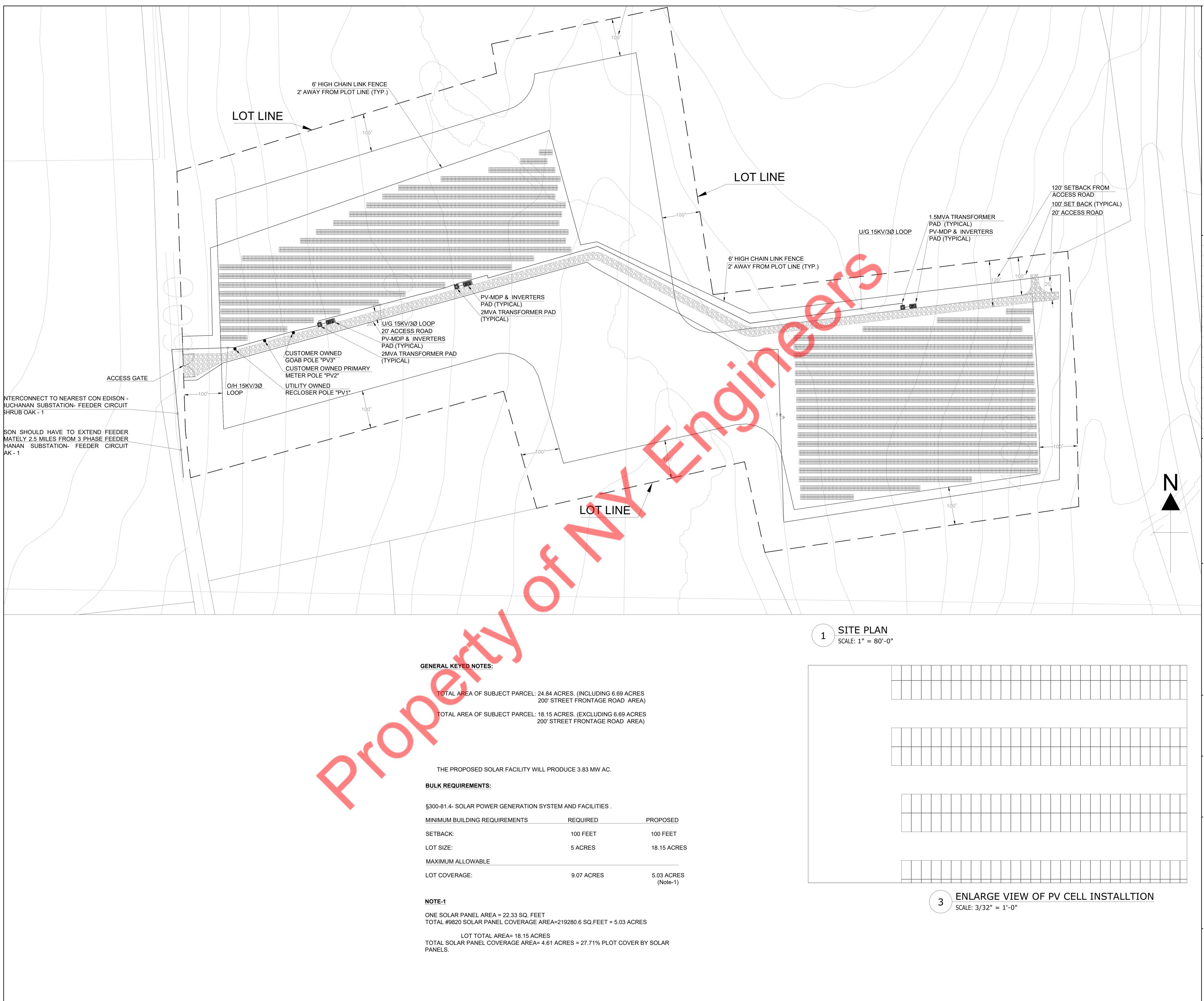
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MODULE SPECIFICATION

PAD MOUNTED TRANSFORMER SPECIFICATION 3 SCALE: NTS









MINIMUM BUILDING REQUIREMENTS	REQUIRED	PROPOSED
SETBACK:	100 FEET	100 FEET
LOT SIZE:	5 ACRES	18.15 ACRES
MAXIMUM ALLOWABLE		
LOT COVERAGE:	9.07 ACRES	5.03 ACRES (Note-1)





TOTAL AREA OF SUBJECT PARCEL: 24.84 ACRES. (INCLUDING 6.69 ACRES 200' STREET FRONTAGE ROAD AREA) TOTAL AREA OF SUBJECT PARCEL: 18.15 ACRES. (EXCLUDING 6.69 ACRES 200' STREET FRONTAGE ROAD AREA)

THE PROPOSED SOLAR FACILITY WILL PRODUCE 3.83 MW AC.

BULK REQUIREMENTS:

§300-81.4- SOLAR POWER GENERATION SYSTEM AND FACILITIES .

MINIMUM BUILDING REQUIREMENTS	REQUIRED	PROPOSED
SETBACK:	100 FEET	100 FEET
LOT SIZE:	5 ACRES	18.15 ACRES
MAXIMUM ALLOWABLE		
LOT COVERAGE:	9.07 ACRES	5.03 ACRES (Note-1)

NOTE-1

ONE SOLAR PANEL AREA = 22.33 SQ. FEET

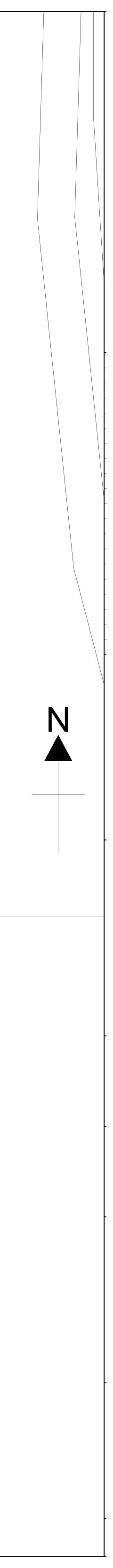
TOTAL #9820 SOLAR PANEL COVERAGE AREA=219280.6 SQ.FEET = 5.03 ACRES LOT TOTAL AREA= 18.15 ACRES

TOTAL SOLAR PANEL COVERAGE AREA= 4.61 ACRES = 27.71% PLOT COVER BY SOLAR PANELS.



TOTAL OPEN PLOT AREA = 13.12 ACRES

TOTAL SOLAR SYSTEM COVERAGE AREA = 5.03 ACRES



Helioscope Generation Report

Monthly Production

Design	Design	and the second second
Module DC Nameplate	5.97 MW	
Inverter AC Nameplate	4.95 MW Load Ratio: 1.21	
Annual Production	8.242 GWh	
Performance Ratio	82.0%	
kWh/kWp	1,381.6	
Weather Dataset	TMY, 10km grid (41.35,-73.85), NREL (prospector)	
Simulator Version	8f373217c8-0c909ef297-e20c5c47cf- ae10c5cdd0	(Coogle sgery @2022 Maxar Technologies, New York O
	O Sour	ces of System Loss
 		AC System: 0.5% Inverters: 2.7% Shading:
	Clip	oping: 0.3%

1 000k 750k kWh 500k 250k 0 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Dec Nov

lismatch: 3.6% Reflection: 2.7% Temperature: 1.3% Soiling: 2.0% Irradiance: 0.6%

	Description		Output	% Delta	Description	Cond	lition Set 1						
	Annual Global Horizonta	l Irradiance	1,445.8		Weather Dataset	TMY,	10km grid (41.3	5,-73.85),	NREL (pr	ospector)			
	PO/	A Irradiance	1,684.3	16.5%	Solar Angle Location	Meteo Lat/Lng							
Irradiance (kWh/m ²)	Shadeo	d Irradiance	1,599.3	-5.0%	-	5							
	Irradiance afte	r Reflection	1,555.4	-2.7%	Transposition Model	Perez	z Model						
	Irradiance	after Soiling	1,524.3	-2.0%	Temperature Model	Sandia Model							
	Total Collector	Irradiance	1,524.3	0.0%		Rack	Туре	a	b	Temp	erature De	elta	
		Nameplate	9,093,804.0		Temperature Model Parameters	Fixed	d Tilt	-3.56	-0.075	3°C			
	Output at Irradi	ance Levels	9,036,269.8	-0.6%		Flush	n Mount	-2.81	-0.0455	0°C			
	Output at Cell Tempera	ture Derate	8,918,503.0	-1.3%		J	F M A	м	JJ	A	s o	N D	
Energy	Output Afte	r Mismatch	8,596,634.4	-3.6%	Soiling (%)						2 2		
(kWh)	Optimal	DC Output	8,532,990.2	-0.7%		2	2 2 2	2	2 2	2	2 2	2 2	
	Constrained	DC Output	8,511,490.6	-0.3%	Irradiation Variance	5%		_					
	Inve	rter Output	8,283,625.0	-2.7%	Cell Temperature	4° C					Á .		
	Ener	gy to Grid	8,242,206.7	-0.5%	Spread								
ſemperature	Metrics				Module Binning	-2.5%	to 2.5%						
	Avg. Operating Am	bient Temp		12.7 °C	Range								
	Avg. Operatin	g Cell Temp		20.5 °C	AC System Derate	0.50%	6						
Simulation M	letrics					Mod	ule			loaded	Characte	rization	
			Operating Hours	4693	Module				Ву				
		Solved Hours	4693	Characterizations	Q.Pe	Q.Peak DUO XL-G10.3/BFG 485		5			et		
			Solved Hours	4000	and the second	(Han	wha Q Cells)		пе	elloscope	Characte PAN	rization,	
					Component Characterizations	Devi	ce Uploa	aded By		Characte	rization		
🖨 Compo	onents		🛔 Wiring Z	ones									
Component	Name Co	ount	Description	(Combiner Poles		String Size		Stringi	ng Strateg	у		
Inverters	S(1 225-480 (Solectria)	2 (4.95 W)	Wiring Zone		Contraction of the local division of the loc		7-10		Along R	acking			
		272 00,406.3	III Field Seg	ments									
Strings													
Strings	ft	2,300	Description	Racking	Orientation Tilt A	zimuth	Intrarow Spa	cing Fr	ame Size	Frames	Modules	Power	





