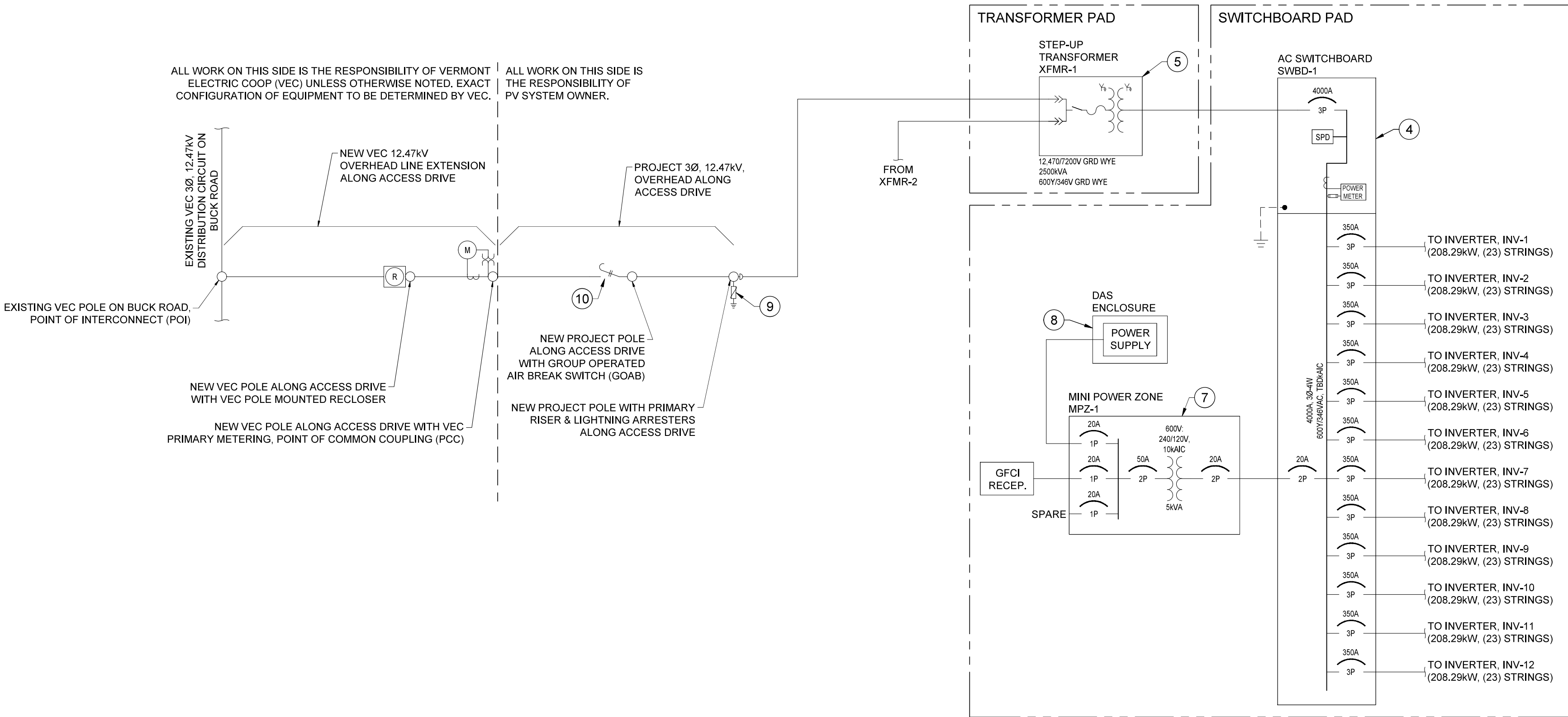


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PV SYSTEM RATING		
MODULE MANUFACTURER	HT-SAAE	
MODULE PART #	HT72-18X(ND)-F	
MODULE WATTAGE	590	WATTS
TOTAL # MODULES	13800	MODULES
TOTAL STC POWER RATING kW (DC)	8142.00	KWDC
TOTAL SYSTEM RATING kW (AC)	4999.00	KWAC
PV SERIES STRING RATINGS		
# OF SERIES IN STRING	25	MODULES
MAX Voc @ -28°C	1450.10	VOLTS
MAX STRING CURRENT (Isc)	15.17	AMPS
STC POWER RATING (PER STRING)	14,750	WATTS

BILL OF MATERIALS (APPLIES TO PV-300 & PV-301)		
ITEM	QTY	DESCRIPTION
1	13800	PV MODULE, 590 WATT, MONOCRYSTALLINE, BIFACIAL, (144) HALF-CELLS, HT-SAAE JUPITER MODEL: HT72-18X(ND)-F MODULE SPECS: Vmp = 43.50; Imp = 13.59; Voc = 51.70; Isc = 14.55
2	24	DC COMBINER BOX, 1500VDC, 600A, (23) DC INPUTS, 25A FUSES ON POSITIVE INPUTS, LOAD BREAK DISCONNECT NEMA 3R ENCLOSURE, TERRASmart OR EQUAL
3	24	PV INVERTER, 250.0 kW, 860-1450 VDC INPUT, 900-1300 VDC MPPT, CENTRALIZED WIRE-BOX, 600Y/342V 3-PHASE GROUNDED WYE OUTPUT, CHINT POWER SYSTEMS MODEL CPS SCH250K-T-US-600, ALL INVERTERS TO BE DERATED TO OPERATE AT 208.29kWAC
4	2	AC SWITCHBOARD, 600Y/346V, 3Ø-4W, 4000A RATED BUS, INTEGRATED REVENUE GRADE METER, CABINET HEATERS, 4000A-3P MAIN BREAKER, (12) 350A-3P & (1) 20A-2P BRANCH BREAKERS, ARC ENERGY REDUCTION MAINTENANCE SWITCH, 200kA INTEGRATED SPD SURGE PROTECTION, NEMA 3R ENCLOSURE
5	2	TRANSFORMER, 2500kVA, 12.47Ø/7200V GRD WYE PRIMARY, 600Y/346V GRD WYE SECONDARY, LOOP-FEED, 600A RATED BUSHING WELLS, PRIMARY NEUTRAL BUSHING TO BE FULLY INSULATED, IMPEDANCE: 5.75% +/-7.5%, X/R: TBD
6	3	LIGHTNING ARRESTERS, 15kV RATED, 10kV/8.4kV MCOV RATED, ELBOW MOUNTED
7	2	MINI-POWER ZONE, 600V PRIMARY, 12Ø/240V 1Ø-3W SECONDARY, 5 kVA, 12-CIRCUIT, NEMA 3R ENCLOSURE
8	2	DATA ACQUISITION SYSTEM (DAS), TO INCLUDE: INVERTER DIRECT MONITORING; SWITCHBOARD POWER METER MONITORING; WEATHER STATION
9	3	LIGHTNING ARRESTERS, 15kV CLASS, 10kV/8.4kV MCOV, MOUNTED ON BRACKET WITH 12.47kV UNDERGROUND CABLE TERMINATIONS
10	1	GANG OPERATED AIR BREAK SWITCH (GOAB), 15kV, 600A, VISIBLE OPEN, LOCKABLE IN THE OPEN POSITION

GENERAL NOTE: EXACT MANUFACTURER, MODEL NUMBER AND SIZE OF THE MODULES AND INVERTERS ARE SUBJECT TO CHANGE DEPENDING ON MARKET AVAILABILITY. THE EXACT EQUIPMENT WILL NOT BE MATERIALLY DIFFERENT FROM WHAT IS SPECIFIED HERE AND TOTAL NAMEPLATE AC CAPACITY OF INVERTERS WILL NOT EXCEED 4999.0kW WITHOUT UTILITY REVIEW AND APPROVAL.

NOT FOR
CONSTRUCTION

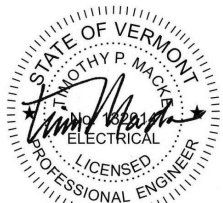
NBS-AB-4

SOLAR POWER ENGINEERING

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NOVUS BUCK SOLAR, LLC 4999.0 kWAC PV PROJECT

50 BUCK ROAD
NEWPORT, VT 05857

DATE: 11/24/2025

PROJECT #: NED_BS_1125

SCALE:

DRAWN BY: TPM

REVISIONS

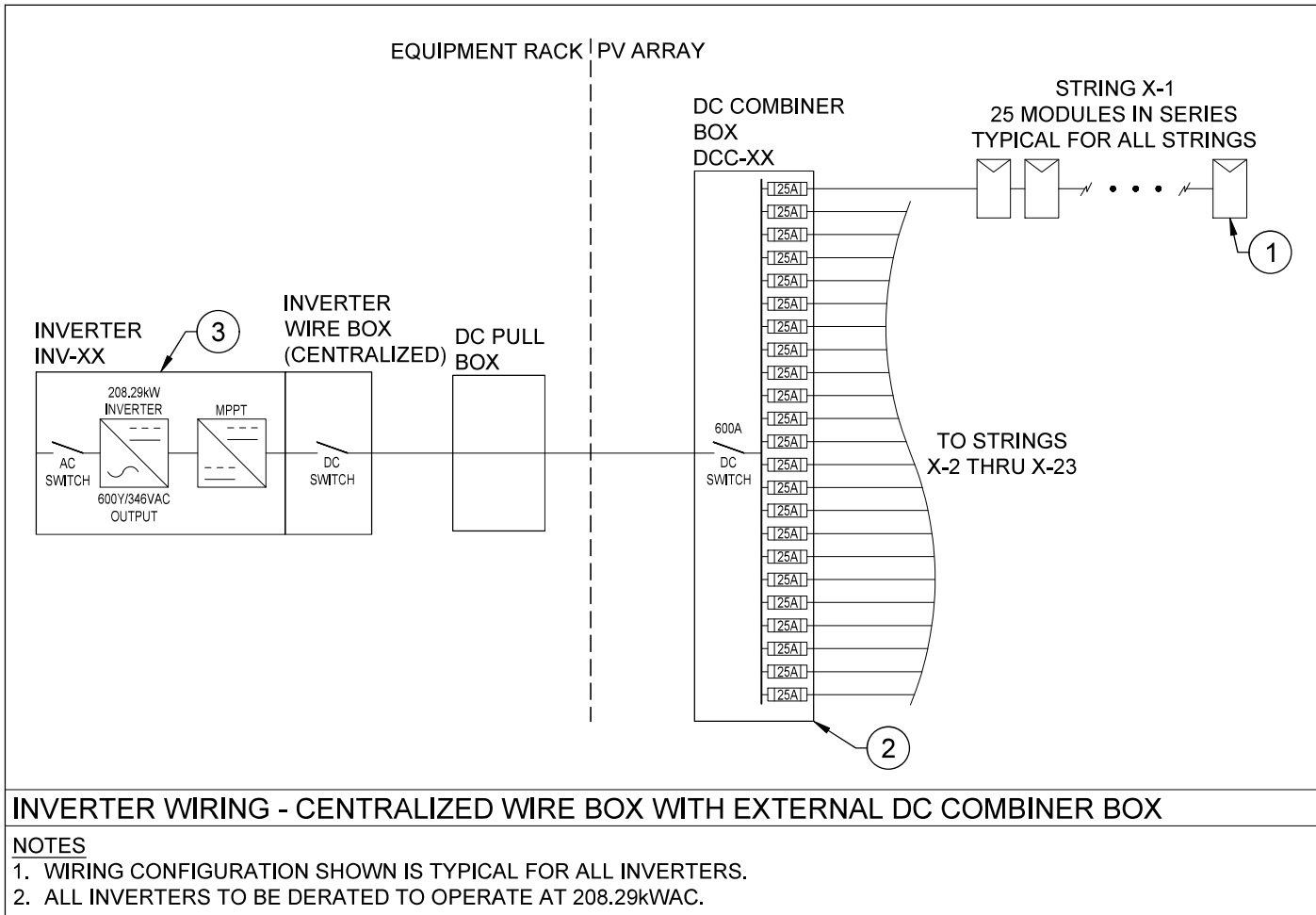
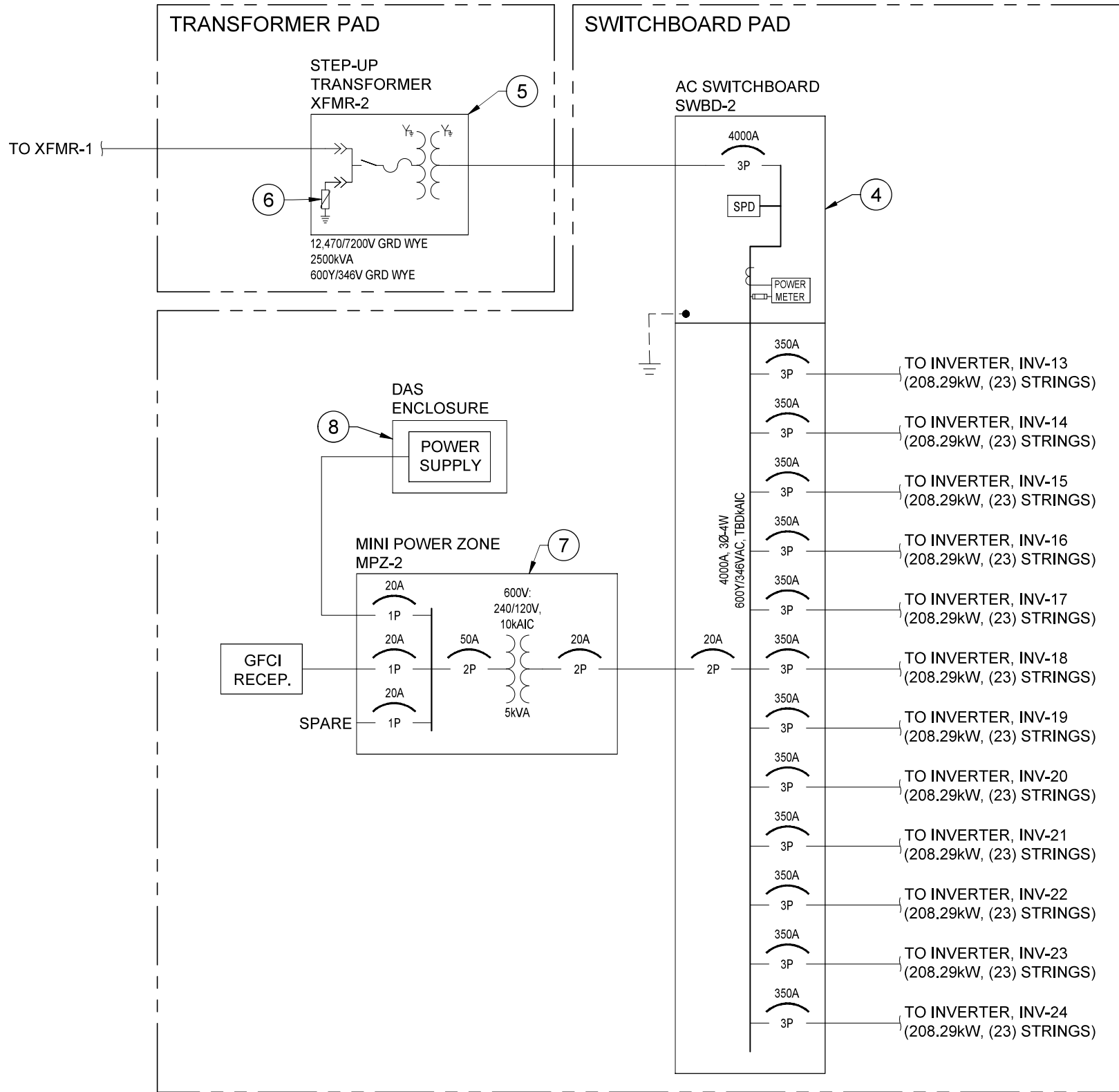
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INTERCONNECT 11/24/2025

ONE-LINE DIAGRAM

INTERCONNECT & XFMR-1

PV-300

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INVERTERS - INPUT & OUTPUT RATINGS		
INVERTER DESIGNATION	ALL INVERTERS	
INVERTER POWER	208.29	kWAC
MODULE WATTAGE	590	WDC
QTY OF MODULES PER STRING	25	MODULES
QTY OF PARALLEL STRINGS	23	STRINGS
DC OPERATING INPUT VOLTAGE	1087.5	DC VOLTS
DC OPERATING INPUT CURRENT	325.9	DC AMPS
MAXIMUM SYSTEM VOLTAGE @ -28C	1450.1	DC VOLTS
MAXIMUM CIRCUIT CURRENT	436.2	DC AMPS
INVERTER OUTPUT VOLTAGE	600	AC VOLTS
INVERTER MAX OUTPUT CURRENT	241	AC AMPS

RATINGS NOTES:

1. DC CURRENT VALUES INCLUDE 4.28% BIFACIAL GAIN BASED ON SHORT CIRCUIT CURRENT CALCULATED BY CPS STRING SIZER TOOL.

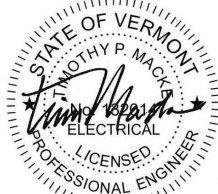
**NOT FOR
CONSTRUCTION**

**SOLAR POWER
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**NOVUS BUCK SOLAR, LLC
4999.0 kWAC PV PROJECT**

50 BUCK ROAD
NEWPORT, VT 05857

DATE: 11/24/2025
PROJECT #: NED_BS_1125
SCALE:
DRAWN BY: TPM

REVISIONS

ISSUED FOR
INTERCONNECT 11/24/2025

**ONE-LINE
DIAGRAM
XFMR-2 & INVERTER
WIRING**

PV-301