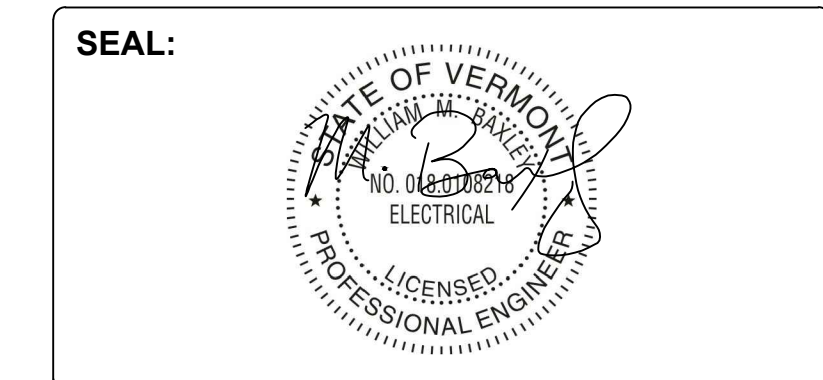




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**DEVELOPER:**  
MHG Solar LLC  
170 Bonnet Street,  
Manchester Center, VT 05255

**PROJECT:**  
Richville Solar  
3351 Richville Rd, Manchester Ctr  
VT 05743  
43°09'56"N, 73°03'13"W

REVISIONS		
#	DESCRIPTION	DATE
A	PRELIMINARY SLD	09/20/2019

**DATE:** SEPTEMBER 20, 2019

NOT FOR CONSTRUCTION

**SHEET TITLE:**  
SINGLE LINE DIAGRAM

**SHEET NO.** E4.0

SYSTEM DETAILS	
DC SYSTEM SIZE	819 KW
AC SYSTEM SIZE	500 KW
DC / AC RATIO	1.64
DC SYSTEM VOLTAGE	1,500 V
POCC / POI VOLTAGE	12.47 KV
PHOTOVOLTAIC MODULES	
MANUFACTURER	HT-SAAE
MODEL	HT72-156M(V)-375
DC POWER @ STC	375 W
MODULES PER STRING	26
TOTAL MODULES	2,184
INVERTERS	
MANUFACTURER	SMA
MODEL	SUNNY HIGHPOWER PEAK3 125-US
AC POWER RATING	125 KW
TOTAL INVERTERS	4
RACKING	
MFR / MODEL	TBD
PITCH	TBD
TILT / AZIMUTH	TBD

**SHEET NOTES:**

- UTILITY EQUIPMENT SHOWN FOR REFERENCE ONLY. COORDINATE WITH UTILITY PRIOR TO INSTALLATION.
- ALL CIRCUIT BREAKERS SHALL BE SUITABLE FOR BACKFEED OPERATION.
- LOW VOLTAGE AC WIRING SHALL BE COPPER, XHHW-2 UNLESS OTHERWISE NOTED.
- DAS/MONITORING DIAGRAM SHOWN IS DIAGRAMMATIC AND FOR REFERENCE ONLY. REFER TO ALSO ENERGY DRAWINGS FOR COMPLETE SYSTEM DETAILS.
- UTILITY INTERCONNECTION INFORMATION:  
SOLAR AC CURRENT: 604A @ 480V  
SOLAR 3Φ FAULT CURRENT: 966.4A @ 480V

**KEYED NOTES:**

- PER UTILITY INTERCONNECTION GUIDELINES, PROVIDE MANUAL DISCONNECT DEVICE WITH VISIBLE DISCONNECT TO ISOLATE GENERATING FACILITY FROM UTILITY DISTRIBUTION SYSTEM. THE DEVICE MUST BE ACCESSIBLE TO UTILITY PERSONNEL AND BE CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- MONITORING BOX WITH REVENUE GRADE METER. MONITORING SHALL BE SUPPLIED BY ALSO ENERGY OR APPROVED EQUAL.
- MODULE CONNECTORS MATED TOGETHER SHALL BE OF THE SAME TYPE AND FROM THE SAME MANUFACTURER.
- BREAKER SHALL BE 100% RATED.

**EQUIPMENT SPECS:**

- A 800A, 600V, 3P FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE, EATON/CUTLER HAMMER TYPE DH367NRK, OAE. FUSES SHALL BE CLASS RK5 WITH RATING AS INDICATED. DEVICE SHALL BE LISTED AS SUITABLE FOR SERVICE ENTRANCE EQUIPMENT AND INCLUDE GROUND KIT.
- B MAIN LUG ONLY (MLO) PANELBOARD, EATON TYPE PRL4B IN NEMA 3R WEATHERPROOF ENCLOSURE, OAE. EQUIPMENT RATINGS SHALL BE AS INDICATED. ALL CIRCUIT BREAKERS SHALL BE FULLY RATED AND BI-DIRECTIONAL.
- C 125KW, 480/277V, 3Φ, 4W STRING INVERTER, SMA SOLAR MODEL SUNNY HIGHPOWER PEAK3 125-US.
- D 1500VDC, NEMA 4 FUSED COMBINER BOX WITH INTEGRATED DC DISCONNECT SWITCH. COMBINER BOX SHALL BE SUITABLE FOR UNGROUNDED SYSTEM AND SHALL HAVE FUSED INPUTS FOR BOTH POSITIVE AND NEGATIVE CONDUCTORS. COMBINER BOX SHALL BE UL 1741 LISTED AND FUSES SHALL BE UL 2579 LISTED.
- E 375W, 1500V<sub>DC</sub> SOLAR PV MODULE, HT-SAAE SOLAR MODEL HT72-156M(V)-375.
- F THREE (3) REVENUE GRADE SPLIT CORE CURRENT TRANSFORMERS, 800:5A, 0.3 @ B-0.5; RF=1.0.

