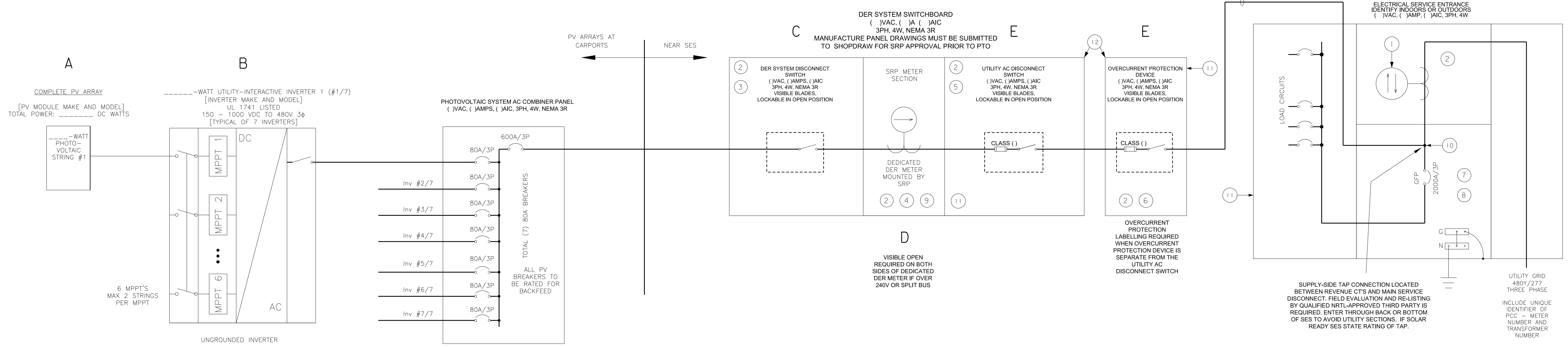
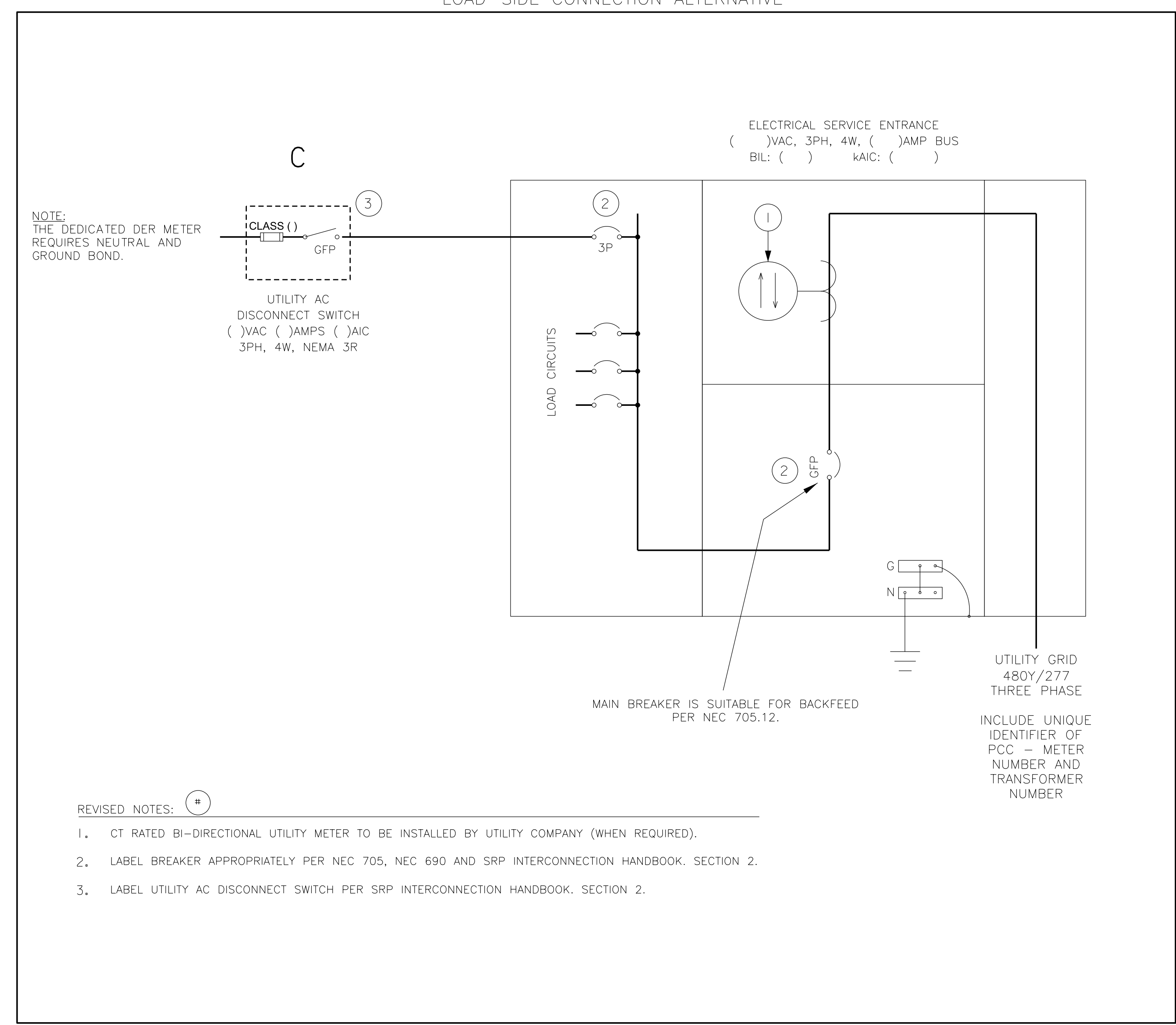


STANDARD SINGLE LINE DRAWING TO SHOW SRP REQUIREMENTS FOR A CLASS II PV SYSTEM UNDER 1MW



LOAD-SIDE CONNECTION ALTERNATIVE



KEYED NOTES: *

- CT RATED BI-DIRECTIONAL UTILITY METER TO BE INSTALLED BY UTILITY COMPANY (WHEN REQUIRED).
- ALL LABELS TO BE MOUNTED PER SRP STANDARDS OUTLINED IN SRP'S DISTRIBUTED GENERATION INTERCONNECTION HANDBOOK, SECTION 2.
- LABEL "DER SYSTEM DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED, SWITCH TO BE VISIBLE OPEN, LOCKABLE AND 24HR ACCESSIBLE PER UTILITY REQUIREMENTS, AND CONFORM TO THE SRP INTERCONNECTION HANDBOOK.
- LABEL "DEDICATED DER METER". LABEL SHALL CONFORM TO THE SRP INTERCONNECTION HANDBOOK.
- LABEL "UTILITY AC DISCONNECT SWITCH". SWITCH COVER TO BE LOCKED, SWITCH TO BE VISIBLE OPEN, LOCKABLE AND 24HR ACCESSIBLE PER UTILITY REQUIREMENTS, AND CONFORM TO THE SRP INTERCONNECTION HANDBOOK.
- LABEL "OVERCURRENT PROTECTION DEVICE". SWITCH COVER TO BE LOCKED, SWITCH TO BE VISIBLE OPEN, LOCKABLE AND 24HR ACCESSIBLE PER UTILITY REQUIREMENTS, AND CONFORM TO THE SRP INTERCONNECTION HANDBOOK. THIS LABEL NOT NEEDED IF UTILITY AC AND DER SYSTEM DISCONNECTS ARE COMBINED.
- THE CUSTOMER SHALL CONFORM TO THE NEC AND SRP'S ESS FOR LABELING OF DER EQUIPMENT, SWITCHES, BREAKERS, ETC. FOR LABELING REQUIREMENTS REFER TO DER SIGNAGE WITHIN THE SRP DISTRIBUTED GENERATION INTERCONNECTION HANDBOOK, SECTION 2.
- A SIGN SHALL BE PLACED ON THE EXTERIOR OF THE SERVICE ENTRANCE EQUIPMENT INDICATING THE TYPE AND LOCATION OF THE ON-SITE EQUIPMENT SPECIFIED WITHIN THE LABELING REQUIREMENTS IN THE DER SIGNAGE SECTION WITHIN SRP'S DISTRIBUTED GENERATION INTERCONNECTION HANDBOOK, SECTION 2.
- METER ENCLOSURE AND SOCKET PROVIDED AND INSTALLED BY CUSTOMER. METER, CTs AND TEST SWITCHES PROVIDED BY UTILITY COMPANY WHEN REQUIRED. NOTE 1: CUSTOMER TO SUBMIT SHOP DRAWINGS OF DER CABINET TO SHOP DRAW FOR APPROVAL. NOTE 2: CT-RATED PRODUCTION METERING ENCLOSURES SHALL HAVE THE BUS IDENTIFIED WITH REFERENCE TO THE GENERATION SOURCE SIDE PRIOR TO METERING INSTALLATION WITH A TEMPORARY TAG LABELED "GENERATION SOURCE".
- SUPPLY-SIDE CONNECTION IS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SUPPLY-SIDE TAP ENTERS THROUGH BACK OR BOTTOM OF SES TO AVOID UTILITY SECTIONS. DOCUMENTATION IS INCLUDED WITH THE SRP INTERCONNECTION APPLICATION.
- EQUIPMENT SHALL BE LISTED AND RATED TO WITHSTAND THE AVAILABLE SHORT-CIRCUIT CURRENT.
- IN MOST CASES THE UTILITY AC DISCONNECT AND THE OVERCURRENT PROTECTIVE DEVICE MAY BE COMBINED. IF THE DEVICES ARE COMBINED THE INSTALLER SHALL APPLY BOTH LABELS TO THE DEVICE, UTILITY AC DISCONNECT AND OVERCURRENT PROTECTIVE DEVICE.

SRP CONSTRUCTION NOTES:

- ALL SYSTEM DESIGN DRAWINGS MUST INCLUDE ALL SWITCHGEAR FROM GENERATION FUEL (SOLAR ARRAY, BATTERY, ETC.) TO UTILITY SERVICE TRANSFORMER. ALL SWITCHGEAR MUST BE IDENTIFIED WITH UNIQUE IDENTIFIERS.
- ANY CUSTOMER-SITED EQUIPMENT THAT CONSISTS OF A MAIN-TIE-MAIN MUST INCLUDE INTERLOCK DESCRIPTION AND MAIN-TIE-MAIN SCHEME.
- ABOVE GROUND CONDUIT WILL BE RIGID METAL CONDUIT (RMC) OR INTERMEDIATE METAL CONDUIT (IMC) AND INSTALLED PER NEC AND SRP ESS OR INTERCONNECTION HANDBOOK TO SERVICE DISCONNECT. RACEWAYS ARE NOT ALLOWED.
- CONDUIT AND MOUNTING STRUCTURES WILL BE CONSTRUCTED BY CUSTOMER INSTALLER.
- SPECIFICATIONS AND LOCATIONS WILL BE DETERMINED DURING INTERCONNECTION STUDY.
- REFER TO DER REQUIREMENTS BY CLASS IN SRP'S INTERCONNECTION HANDBOOK, SECTION 2.

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	PART NO.	NOTES
A	PV MODULE			
B	INVERTER			
C	AC BKR			
D	METER SOCKET			
E	AC DISC.			

NOTES:

- WITHIN EACH INDIVIDUAL POWERCLERK APPLICATION, A SITE PLAN, ONE LINE, THREE LINE, AND LABEL SHEET SPECIFIC FOR EACH PROJECT WILL NEED TO BE UPLOADED INTO POWERCLERK FOR ENGINEERING REVIEW. IN ADDITION FOR SYSTEMS OVER 1MW A UNIQUE PROTECTION SCHEMATIC WILL BE REQUIRED FOR EACH PROJECT SUBMITTED IN POWER CLERK.
- SYSTEMS INSTALLED IN AREAS WHERE THE AHJ DOES NOT PROVIDE A CITY CLEARANCE, DESIGN DRAWINGS MUST BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARIZONA, AND THE CUSTOMER MUST PROVIDE A SIGNED CERTIFICATE-IN-LIEU OF CLEARANCE FOLLOWING COMPLETION OF ALL WORK.

THIS SAMPLE DRAWING IS FOR ILLUSTRATION PURPOSES ONLY AND IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION. THIS DRAWING AND ITS SUITABILITY FOR END USE IS NOT IMPLIED. THE INTENT IS ONLY TO ILLUSTRATE TYPICAL MINIMUM INFORMATION REQUIRED AT THE TIME OF APPLICATION TO SRP. ADDITIONAL INFORMATION MAY BE REQUIRED.

001	04/2021	MCA	JD	JD
REV. NO.	PROJECT NO.	DATE	DSGN ENGR	DFTR
DESIGN CHECK		ISSUE		APPRVD
SRP PHOENIX - ARIZONA				
XXX KW DC/ XXXKW AC PV SINGLE LINE DIAGRAM ADDRESS LINE 1 ADDRESS LINE 2				
SCALE: NONE		DATE: 08-21-24		CLASS II
01	E8	30x42		