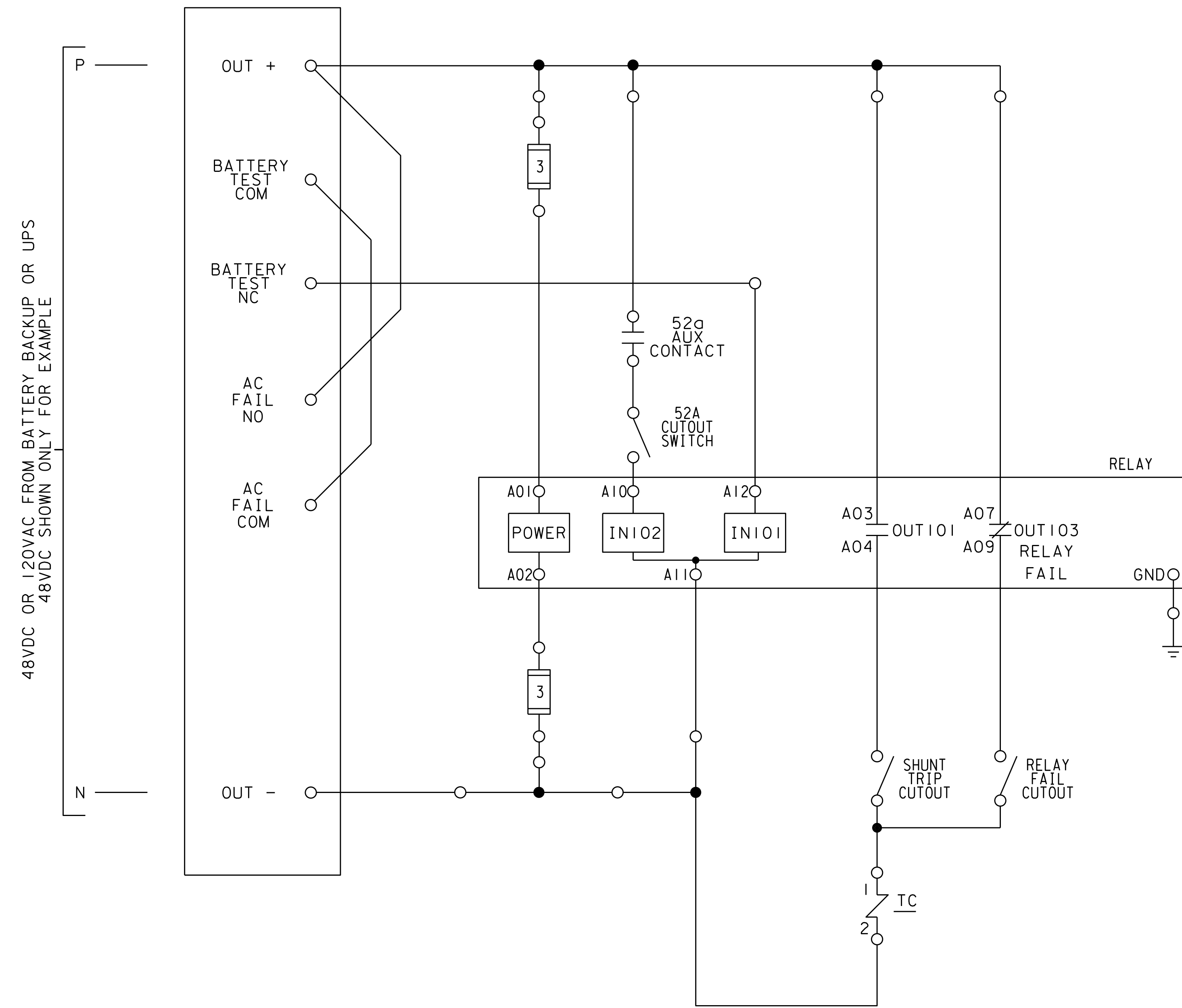


THIS SAMPLE RELAY SCHEMATIC FOR A CLASS III (1MW AND LARGER) PV SYSTEM, IS INTENDED TO SHOW THE LEVEL OF DETAIL REQUIRED TO PASS SRP TECHNICAL REVIEW.

SAMPLE RELAY SCHEMATIC



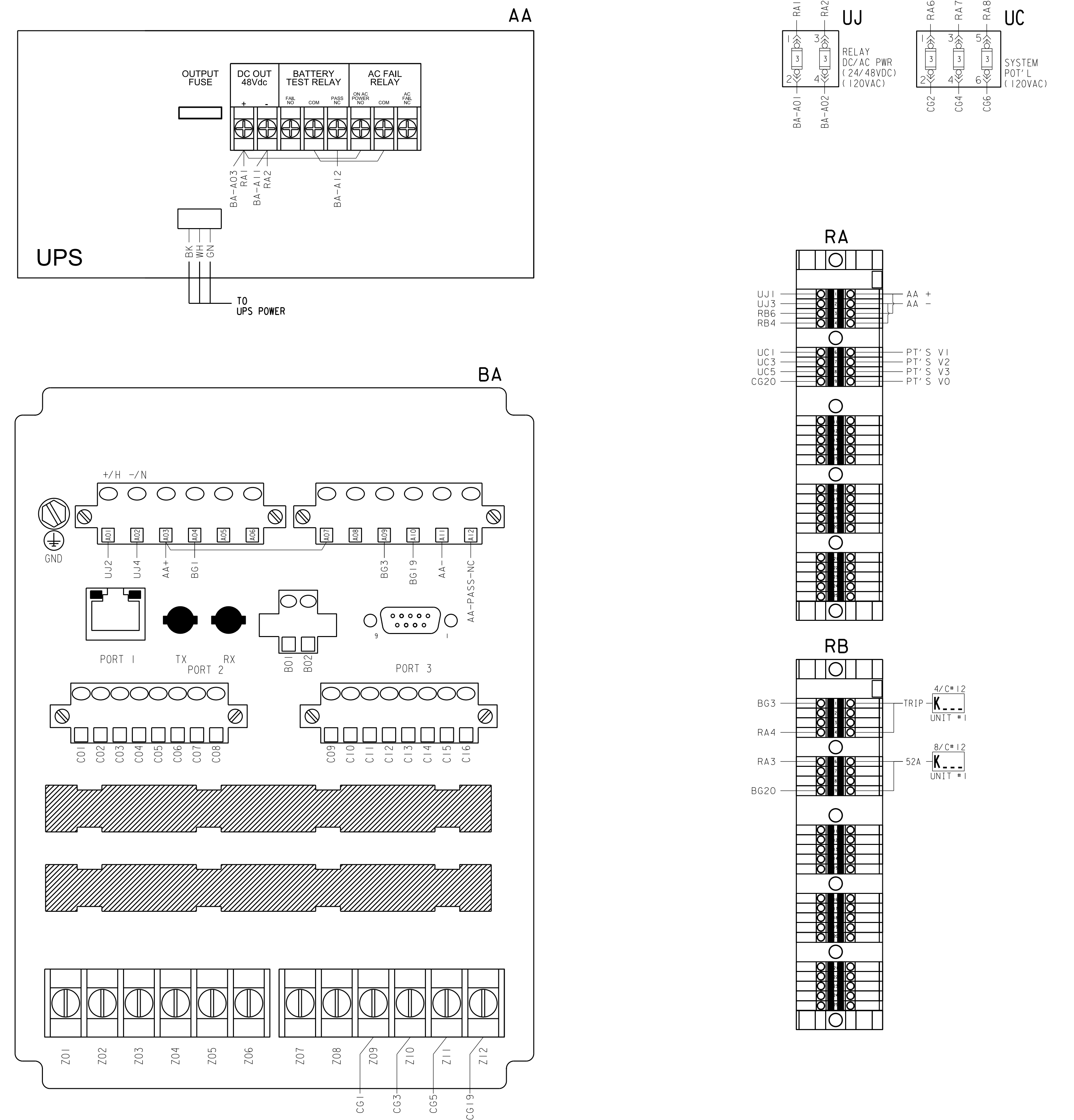
RELAY NOTES:

1. RELAY ENFORCES IEEE 1547 2018 CATEGORY-III AT THE POINT OF INTERCONNECTION.
2. IN THE CASE OF AN ANSI ELEMENT EVENT, THE RELAY WILL SHUNT TRIP THE DISCONNECT SWITCH AND PROVIDE A SOFTWARE B6 LOCKOUT.
3. THE RELAY WILL TRIP THE SYSTEM GENERATION IN THE EVENT OF RELAY FAULTS AND/OR BATTERY FAULTS.
4. LOCKOUT CAN ONLY BE CLEARED MANUALLY AFTER RESTORATION OF GRID TO ANSI THRESHOLDS.
5. PROTECTION SYSTEM TO BE TESTED EVERY 5 YEARS BY AN APPROVED TESTING AGENCY.
6. VERIFY UPS AND BATTERY VOLTAGE ARE SAME AS RELAY POWER AND CONTROL VOLTAGE. VERIFY ALARM CONTACT VOLTAGE FROM UPS IS APPROPRIATE FOR RELAY INPUT.
7. LABEL SENSING POTENTIAL CUTOUPS AS WELL AS 52A STATUS AND TRIP CUTOUPS WITH PLACARDS MOUNTED ABOVE CUTOUPS.
8. SENSING POTENTIAL TEST SWITCH SHALL BE SEPERATE FROM OTHER CUTOUPS.
9. ALL WIRES ASSOCIATED WITH RELAY SYSTEM SHALL BE LABELLED AND LANDED ON TERMINAL BOARDS. WIRE NUTS SHALL NOT BE USED IN THIS SCHEME.

NOTES:

1. WITHIN EACH INDIVIDUAL INTERCONNECTION 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 POWERCLERK.
2. 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.

SAMPLE CONNECTION DIAGRAM



001	10/2024	MCA	MCA	PCM	PCM	
REV NO.	PROJECT NO.	DATE	DSGN ENGR	DFTR	DESIGN CHECK	ISSUE APPRVD
SRP PHOENIX - ARIZONA						
XXX KW DC/ XXXKW AC PV RELAY SCHEMATIC DIAGRAM ADDRESS LINE 1 ADDRESS LINE 2						
SCALE: NONE						
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.						
01	E8	30x42	CLASS III 1MW			