

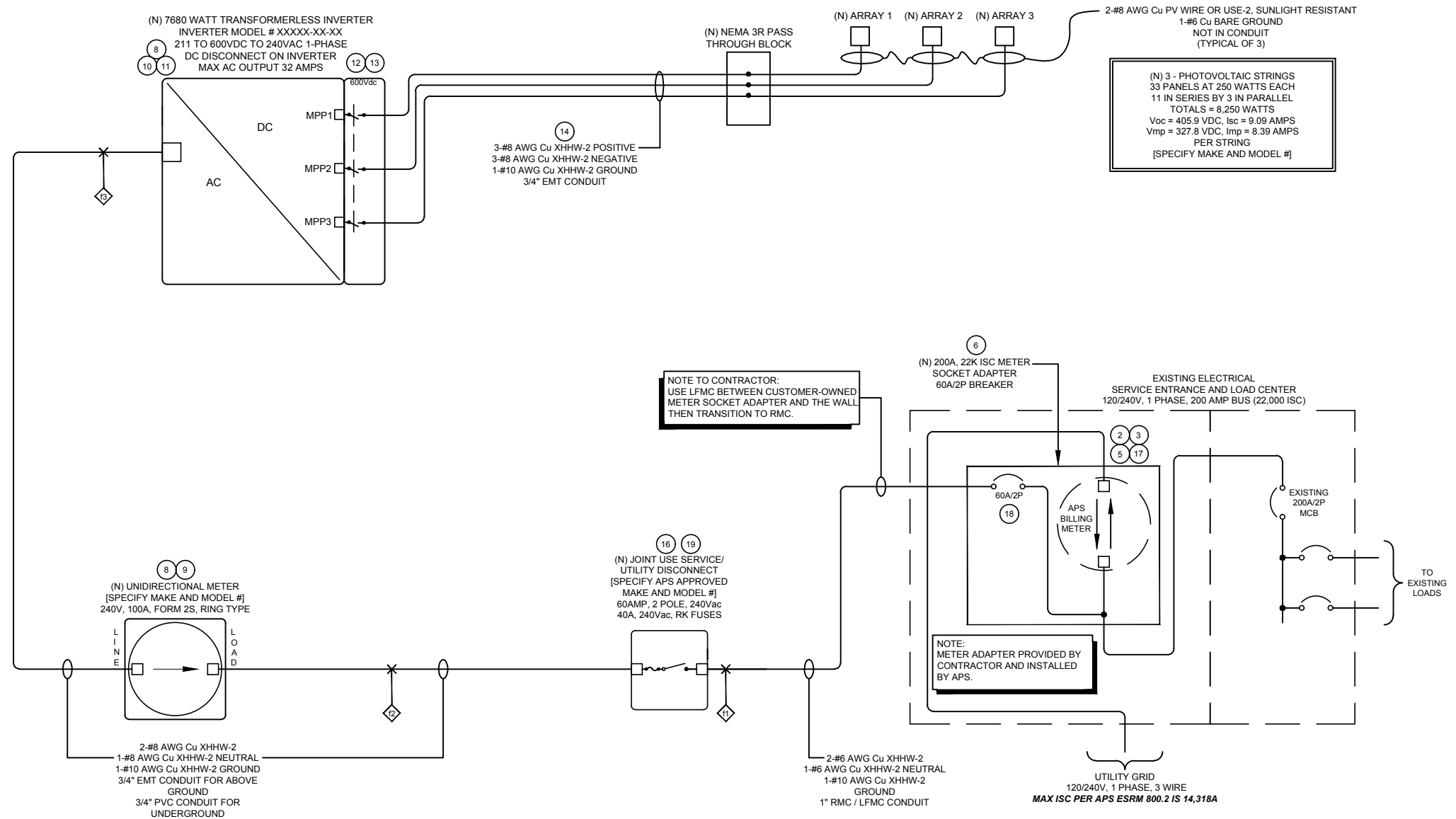
NOTES:

- 1 ALL EQUIPMENT SHALL BE INSTALLED AND LABELED IN ACCORDANCE WITH THE NEC AND ALL APPLICABLE REQUIREMENTS OF THE SERVING ELECTRIC UTILITY COMPANY AND OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2 BI-DIRECTIONAL UTILITY METER INSTALLED BY UTILITY COMPANY.
- 3 INSTALL A PLACARD AT THE SERVICE ENTRANCE WITH EXPLICIT DIRECTIONS TO THE LOCATION OF THE UTILITY DISCONNECT AND VICE-VERSA, WHEN NOT ADJACENT AS REQUIRED BY APS.
- 4 LABEL "UTILITY DISCONNECT". SWITCH COVER TO BE LOCKED AT ALL TIMES BY UTILITY. SWITCH IS TO BE VISUAL OPEN AND ACCESSIBLE PER UTILITY REQUIREMENT AND CONFORM TO NFPA 70E 120.5(3) AND NEC 705.20, AND IS RATED FOR THE AVAILABLE FAULT CURRENT.
- 5 LABEL "WARNING - A GENERATION SOURCE IS CONNECTED BETWEEN APS BILLING METER AND THE MAIN SERVICE DISCONNECTING MEANS VIA METER SOCKET ADAPTER. FOLLOW PROPER LOCKOUT/TAGOUT PROCEDURES TO ENSURE UTILITY DISCONNECT IS OPEN PRIOR TO PERFORMING WORK ON THIS DEVICE".
- 6 UTILITY SIDE CONNECTION. ANY CONNECTIONS TO UTILITY EQUIPMENT MADE WITHIN UTILITY-SEALED COMPARTMENTS NEEDS TO BE MADE BY QUALIFIED APS PERSONNEL.
- 7 PROVIDE WARNING SIGN PER NEC 690.13(B) READING "WARNING-ELECTRIC SHOCK HAZARD-TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION".
- 8 EQUIPMENT SHALL BE TESTED, LISTED AND MARKED TO WITHSTAND THE AVAILABLE SHORT CIRCUIT CURRENT.
- 9 LABEL "UNIDIRECTIONAL METER". METER SOCKET ENCLOSURE AND SOCKET PROVIDED AND INSTALLED BY CUSTOMER PER APS ESRM. METER PROVIDED AND INSTALLED BY APS.
- 10 LISTING AGENCY NAMES AND NUMBERS TO BE INDICATED ON POWER INVERTER AND SOLAR MODULES PER NEC 110.3(B).
- 11 DC ARC FAULT PROTECTION TO BE INCLUDED IN THE INVERTER PER NEC 690.11 AS REQUIRED BY MUNICIPALITY.
- 12 LABEL "PHOTOVOLTAIC ARRAY DC DISCONNECT DEVICE 1X PER NEC. LABEL WITH OPERATING CURRENT, OPERATING VOLTAGE, MAXIMUM SYSTEM VOLTAGE, AND SHORT CIRCUIT CURRENT PER NEC. SWITCH TO BE LOCKED PER NEC.
- 13 LABEL, "WARNING DO NOT OPEN FUSES UNDER LOAD."
- 14 METALLIC CONDUIT SHALL BE USED WITHIN BUILDING PER NEC 690.31.
- 15 GEC TO BE INSTALLED AS REQUIRED BY MANUFACTURER INSTRUCTIONS AND NEC 250.
- 16 LABEL "PHOTOVOLTAIC SERVICE DISCONNECT". SWITCH COVER TO BE LOCKED AT ALL TIMES BY CUSTOMER. SWITCH CONFORMS TO NEC 230 AND IS RATED FOR THE AVAILABLE FAULT CURRENT. LOCATE ADJACENT TO SES.
- 17 A PERMANENT PLACARD OR DIRECTORY IS INSTALLED PER NEC 705.10.
- 18 LABEL "METER SOCKET ADAPTER DISCONNECT - NOT SERVICE EQUIPMENT". SIMILAR TO NEC 230.82(3) LABEL FOR METER DISCONNECT. SWITCH COVER TO BE LOCKED AT ALL TIMES BY CUSTOMER. THE METER SOCKET ADAPTER DISCONNECT IS NOT LISTED, TESTED OR MARKED (REFER TO UL414) AS A SERVICE DISCONNECT. THEREFORE, THE CONDUCTORS BETWEEN THE LOAD SIDE OF THE MSA DISCONNECT AND THE FUSED SERVICE DISCONNECT ARE CONSIDERED SERVICE CONDUCTORS.
- 19 SHARED LOCK PROVIDED BY APS.

FAULT CALCULATIONS	
1	AVAILABLE = xx,xxx.xx AIC D = x' F = x,xxx M = x,xxx Isc = xx,xxx.xx AIC
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* SOURCE: COOPER BUSSMAN SPD MANUAL REV 2009. CALCULATIONS IN ACCORDANCE WITH NEC ARTICLE 110.9 & 110.10

NOTE: SYSTEM DESIGNED IN ACCORDANCE WITH THE 2023 NEC



THESE SAMPLE DRAWINGS ARE INTENDED FOR METER SOCKET ADAPTER PRODUCTS THAT CONNECT A RENEWABLE SOURCE TO THE SUPPLY SIDE OF THE MAIN DISCONNECT.

THESE SAMPLE DRAWINGS ARE FOR ILLUSTRATION PURPOSES ONLY AND ARE NOT TO BE USED FOR DESIGN OR CONSTRUCTION. THE DRAWINGS AND THEIR SUITABILITY FOR END USE IS NOT IMPLIED. THE INTENT IS TO ONLY ILLUSTRATE TYPICAL MINIMUM INFORMATION REQUIRED AT THE TIME OF APPLICATION TO APS. ADDITIONAL INFORMATION MAY BE REQUIRED.

SAMPLE METER SOCKET ADAPTER ONE-LINE DIAGRAM

NO.	DATE	REVISION	DWN	CHD	EXD	RVWD	APVD	W A

JOHN DOE RESIDENCE
1234 W. ABC AVENUE, PHOENIX
7.68KW(AC) & 8.25KW(DC)
ONE-LINE DIAGRAM

SCALE N.T.S. DATE 5-19-23

DWN JRL EXD **APPROVED**

CHD SRB RVWD

DWG 123456 UNIT DISC TYPE SYS NUMBER SHEET 1 OF 5

aps

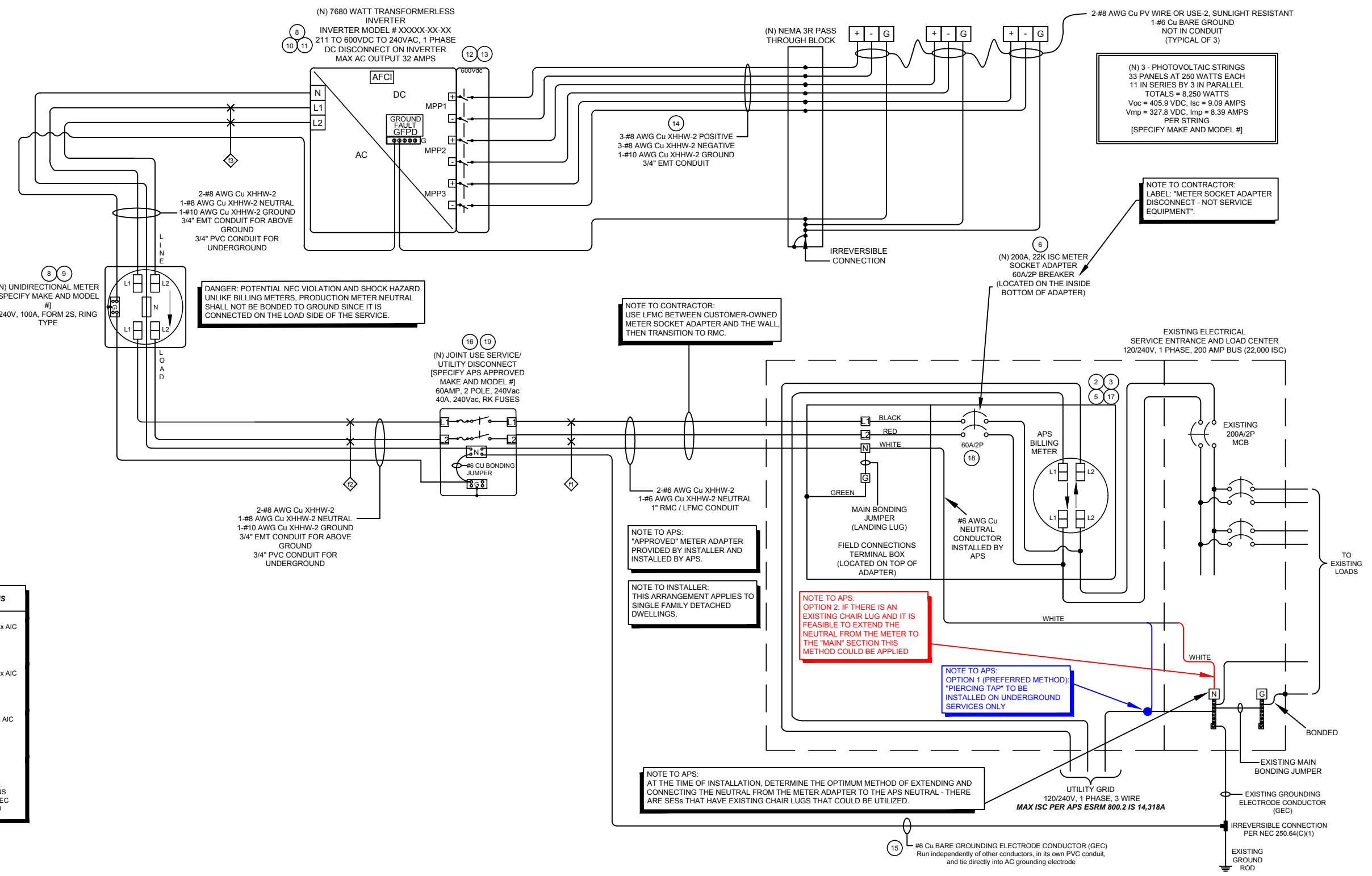
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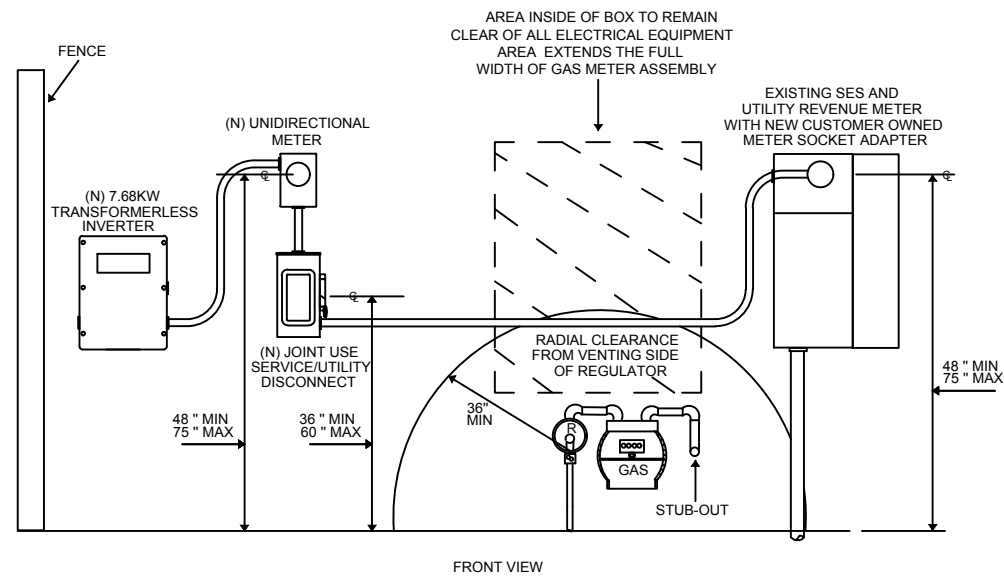
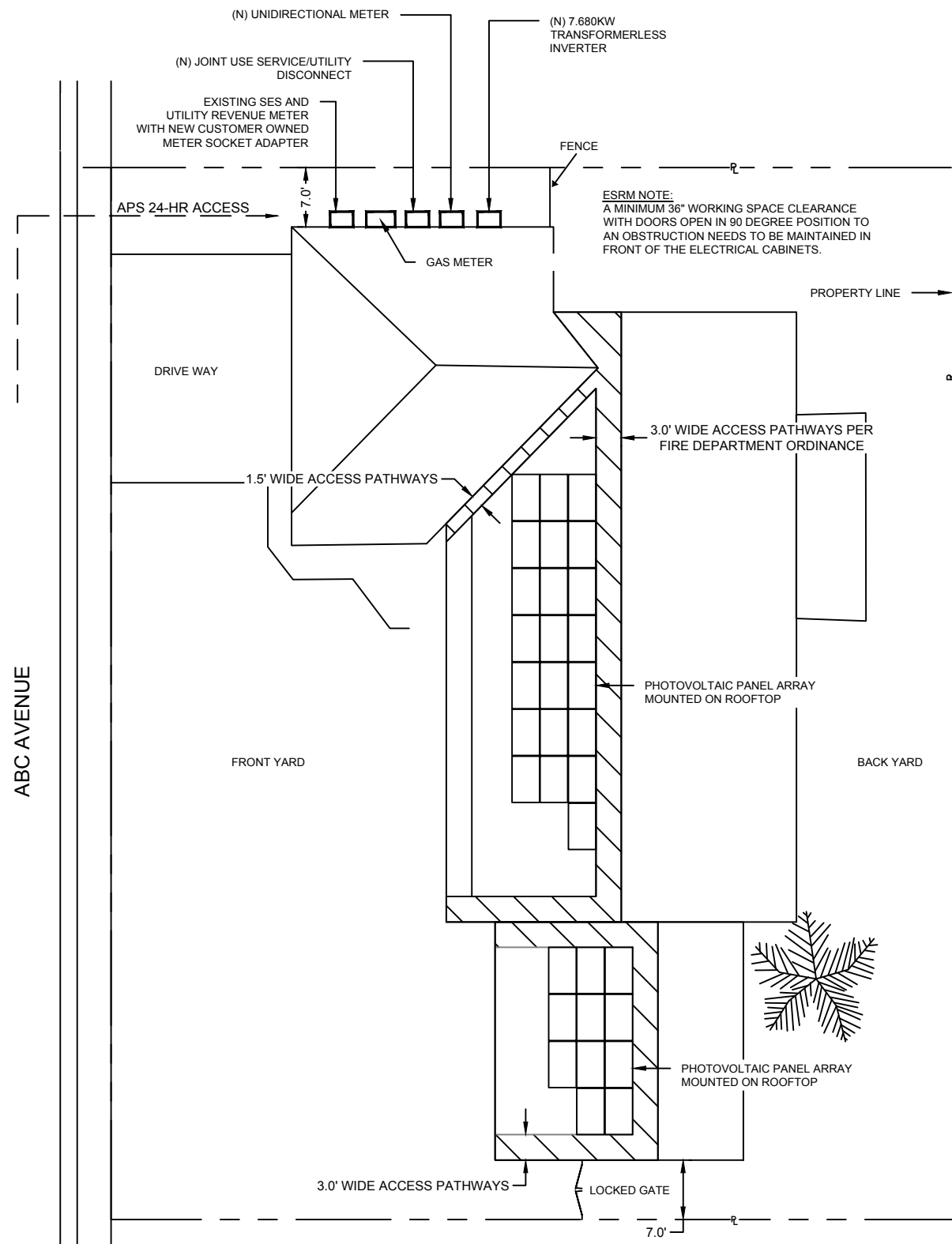
SAMPLE METER SOCKET ADAPTER THREE-LINE DIAGRAM

NO.	DATE	REVISION	DWN	CHD	EXD	RVWD	APVD	W	A

JOHN DOE RESIDENCE
 1234 W. ABC AVENUE, PHOENIX
 7.68KW(AC) & 8.25KW(DC)
 THREE-LINE DIAGRAM



SCALE	N.T.S.	DATE	5-19-23
DWN	JRL	EXD	APPROVED
CHD	SRB	RVWD	DRAWING APPROVED BY
DWG	123456	UNIT	DISC
		TYPE	SYS
		NUMBER	SHEET
			2 OF 5



NOTE:


- UTILITY HAS 24-HR UNRESTRICTED ACCESS TO UTILITY DISCONNECT, APS METERS, AND METER DISCONNECTS.
REFERENCE SECTION 301.15 OF THE APS ESRM FOR ELECTRIC METER SEPARATION BETWEEN WATER AND GAS.
- WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH APS ESRM AND NEC REQUIREMENTS.
FOR APS REQUIREMENT, REFERENCE SECTION 300 OF THE APS ESRM AND SECTION 8.2 OF THE APS INTERSECTION REQUIREMENTS.

NOTE: SYSTEM DESIGNED IN ACCORDANCE WITH THE 2023 NEC

SAMPLE METER SOCKET ADAPTER SITE PLAN

NO.	DATE	REVISION	DWN	CHD	EXD	RVWD	APVD	W	A

JOHN DOE RESIDENCE
1234 W. ABC AVENUE
7.68KW(AC) & 8.25KW(DC)
SITE PLAN


 DATE 5-19-23

SCALE	N.T.S.	APPROVED	
DWN	JRL	EXD	RVWD
CHD	SRB	DRAWING APPROVED BY	
DWG	123456	UNIT	DISC
		TYPE	SYS
		NUMBER	SHEET
			4 OF 5