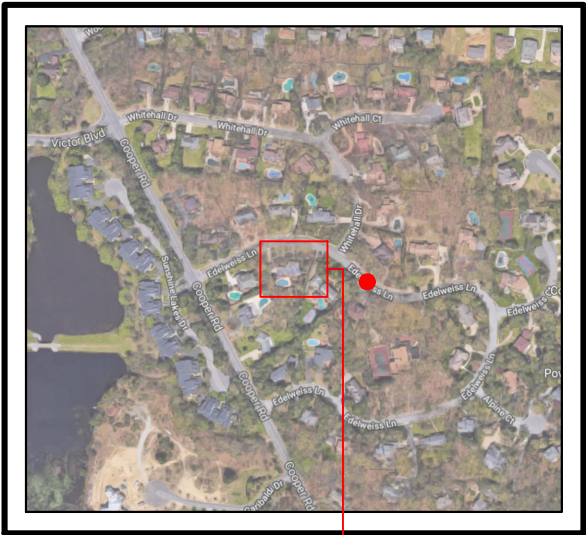


INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

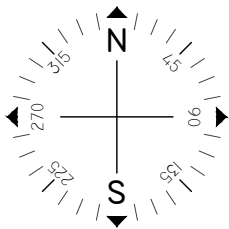
3 EDELWEISS LANE
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EDELWEISS LANE ●



 **VICINITY MAP**
SCALE: NTS

SITE



Issued / Revisions

| | | |
|-----|-------------------------------|-----------|
| A1 | AS BUILT | 4/5/2018 |
| R2 | LAYOUT REVISION | 2/20/2018 |
| R1 | LAYOUT REVISION | 2/15/2018 |
| P1 | ISSUED TO TOWNSHIP FOR PERMIT | 2/14/2018 |
| NO. | DESCRIPTION | DATE |

Project Title:

JESSE, ARNSTEIN

TRINITY ACCT #: 2018-01-223281

Project Address:

3 EDELWEISS LANE
VOORHEES, NJ 08043
39.833052,-74.932477

Drawing Title:

AS BUILT PV SOLAR SYSTEM

Drawing Information

| | |
|---------------|-----------|
| DRAWING DATE: | 2/14/2018 |
| DRAWN BY: | JC |
| REVISED BY: | JMS |

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| AC SYSTEM SIZE: | 1.84kW |
| TOTAL MODULE COUNT: | 8 |
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| MODULE SPEC #: | Q.PEAK-BLK G4.1 295 |
| UTILITY COMPANY: | ACE |
| UTILITY ACCT #: | 5500-9828-843 |
| UTILITY METER #: | NXA119926601 |
| DEAL TYPE: | CASH CONTRACT |

Rev. No.

A1

Sheet

PV - 1



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GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DRAWINGS UNTIL REVISED TO INDICATE "ISSUED FOR CONSTRUCTION".
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

| | |
|------|--------------------------------------|
| AMP | AMPERE |
| AC | ALTERNATING CURRENT |
| AL | ALUMINUM |
| AF | AMP. FRAME |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AWG | AMERICAN WIRE GAUGE |
| C | CONDUIT (GENERIC TERM OF SPECIFIED) |
| CB | COMBINER BOX |
| CKT | CIRCUIT |
| CT | CURRENT TRANSFORMER |
| CU | COPPER |
| DC | DIRECT CURRENT |
| DISC | DISCONNECT SWITCH |
| DWG | DRAWING |
| EC | ELECTRICAL SYSTEM INSTALLER |
| EMT | ELECTRICAL METALLIC TUBING |
| FS | FUSIBLE SWITCH |
| FU | FUSE |
| GND | GROUND |
| GFI | GROUND FAULT INTERRUPTER |
| HZ | FREQUENCY (CYCLES PER SECOND) |

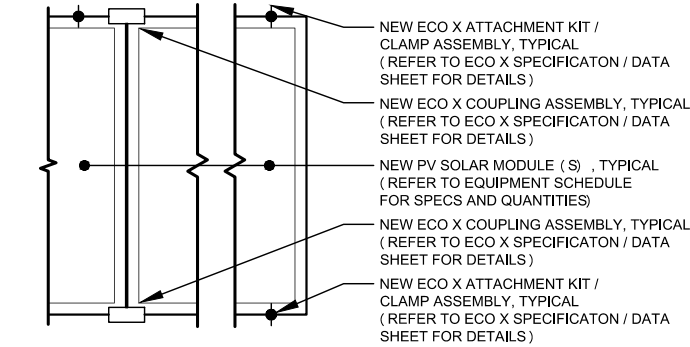
ABBREVIATIONS CONTINUED

| | |
|--------|--|
| JB | JUNCTION BOX |
| kCMIL | THOUSAND CIRCULAR MILS |
| kVA | KILO-VOLT AMPERE |
| kW | KILO-WATT |
| kWH | KILO-WATT HOUR |
| L | LINE |
| MCB | MAIN CIRCUIT BREAKER |
| MDP | MAIN DISTRIBUTION PANEL |
| MLO | MAIN LUG ONLY |
| MTD | MOUNTED |
| MTG | MOUNTING |
| N | NEUTRAL |
| NEC | NATIONAL ELECTRICAL CODE |
| NIC | NOT IN CONTRACT |
| NO # | NUMBER |
| NTS | NOT TO SCALE |
| OCP | OVER CURRENT PROTECTION |
| P | POLE |
| PB | PULL BOX |
| PH Ø | PHASE |
| PVC | POLY-VINYL CHLORIDE CONDUIT |
| PWR | POWER |
| QTY | QUANTITY |
| RGS | RIGID GALVANIZED STEEL |
| SN | SOLID NEUTRAL |
| JSWBD | SWITCHBOARD |
| TYP | TYPICAL |
| U.O.I. | UNLESS OTHERWISE INDICATED |
| WP | WEATHERPROOF |
| XFMR | TRANSFORMER |
| +72 | MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE |

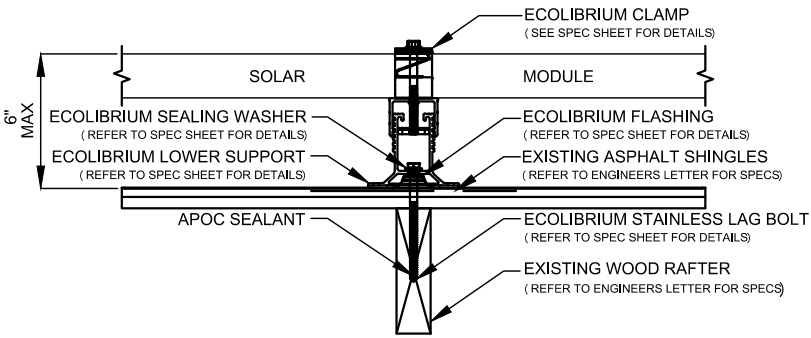
SHEET INDEX

| | |
|------|----------------------------------|
| PV-1 | COVER SHEET W/ SITE INFO & NOTES |
| PV-2 | ROOF PLAN W/ MODULE LOCATIONS |
| PV-3 | ELECTRICAL 3 LINE DIAGRAM |
| PV-4 | EXISTING ELECTRICAL DIAGRAMS |
| AP | APPENDIX |

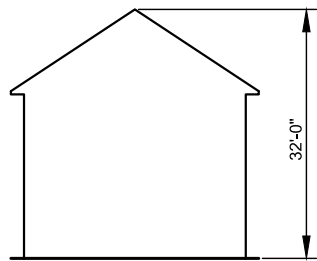
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



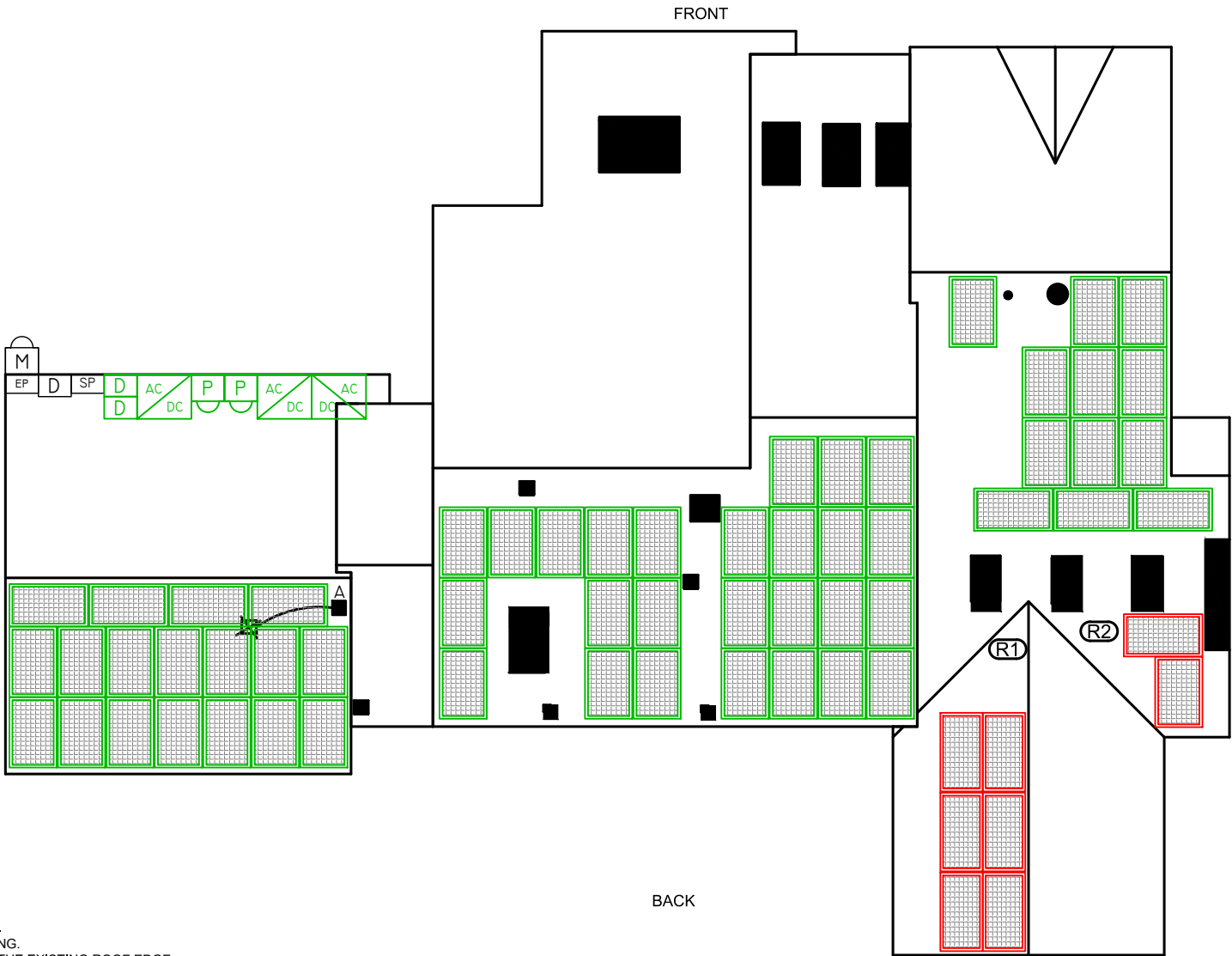
ATTACHMENT & CLIP DETAIL
SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
SCALE: NOT TO SCALE



HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
SCALE: NOT TO SCALE



NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

ARRAY SCHEDULE

R1
ARRAY ORIENTATION = 275°
MODULE PITCH = 25°

R2
ARRAY ORIENTATION = 195°
MODULE PITCH = 25°

SYMBOL LEGEND

| | | | | | |
|------|---|---------|---|------|--|
| (R1) | INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION | (UD) | INDICATES NEW UTILITY DISCONNECT TO BE INSTALLED OUTSIDE | (SP) | INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED |
| (M) | INDICATES EXISTING METER LOCATION | (S) | INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS. | | |
| (EP) | INDICATES EXISTING ELECTRICAL PANEL LOCATION: IN GARAGE | (P) | INDICATES NEW PRODUCTION METER TO BE INSTALLED IN GARAGE . | | |
| (D) | INDICATES NEW MAIN DISCONNECT | (DC/AC) | INDICATES NEW INVERTER TO BE INSTALLED IN GARAGE . REFER TO EQUIPMENT SCHEDULE FOR SPECS. | | |

PLUMBING SCHEDULE

| | |
|---------------------------|--|
| | |
| OTHER OBSTRUCTIONS | |
| A - RELOCATED 2" PVC VENT | |

EQUIPMENT SCHEDULE

| QTY | SPEC # |
|-----|---|
| 8 | HANWHA 295 (Q.PEAK-BLK G4.1 295) |
| 1 | ENPHASE IQ COMBINER (X-IQ-AM1-240-B) |
| 8 | ENPHASE IQ6 MICROINVERTERS (IQ6-60-2-US) |

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JESSE, ARNSTEIN

TRINITY ACCT #: 2018-01-223281

Project Address:

3 EDELWEISS LANE
VOORHEES, NJ 08043
39.833052,-74.932477

Drawing Title:

AS BUILT PV SOLAR SYSTEM

Drawing Information

| | |
|---------------|-----------|
| DRAWING DATE: | 2/14/2018 |
| DRAWN BY: | JC |
| REVISED BY: | JMS |

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| UTILITY ACCT #: | 5500-9828-843 |
| UTILITY METER #: | NXA119926601 |
| DEAL TYPE: | CASH CONTRACT |

| Rev. No. | Sheet |
|----------|--------|
| A1 | PV - 2 |



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ARRAY CIRCUIT WIRING NOTES

1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH NEC 2014

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH NEC 690.12(1) THROUGH (5)

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT AS PER NEC 690.35

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH: POSITIVE CONDUCTORS = RED NEGATIVE CONDUCTORS = BLACK NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVELANT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION NEC 705.31

12.) WHERE TWO SOURCES FEED A BUSSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY NEC 705.12(D)(2)(3)(b)

13.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

14.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A NEMA 3R RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: $(0.96 \times 1.25) \times 8 = 9.58A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
RACEWAY DERATING = 1 CCC: 1.00
 $(40 \times .96) \times 1.00 = 38.40A$

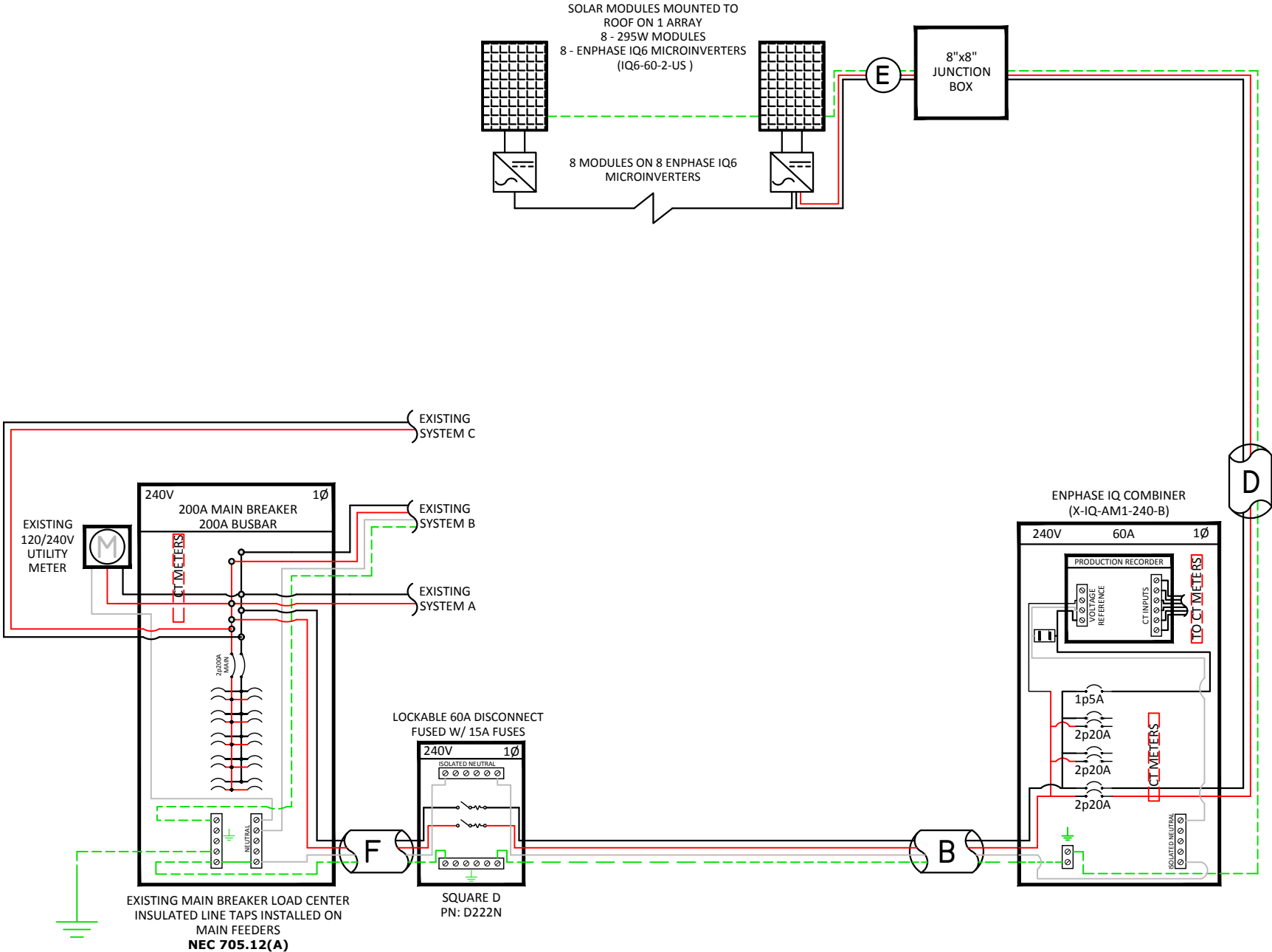
$38.40A \geq 9.58A$, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 $7.67A \times 1.25 = 9.58A$

AWG #10, DERATED AMPACITY
AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
RACEWAY DERATING ≤ 3 CCC: N/A
 $40A \times 1.0 = 40A$

$40A \geq 9.58A$, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION
TOTAL INVERTER CURRENT: 7.67A
 $7.67A \times 1.25 = 9.58A$
--> 15A OVERCURRENT PROTECTION IS VALID

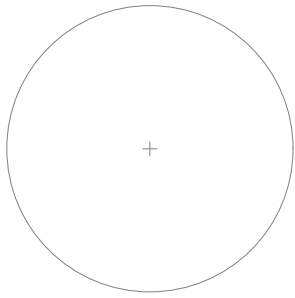


NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

| PV MODULE SPECIFICATIONS | |
|----------------------------------|-------|
| HANWHA 295 (Q.PEAK-BLK G4.1 295) | |
| Imp | 9.17 |
| Vmp | 32.19 |
| Voc | 39.48 |
| Isc | 9.7 |

| | |
|---|--|
| A | #6 THWN-2 GEC TO EXISTING GROUND ROD |
| B | 1" CONDUIT W/ 2-#6 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND |
| C | 3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND |
| D | 3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND |
| E | #10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY |
| F | 1" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND |

Engineer / License Holder:



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Rev. No.

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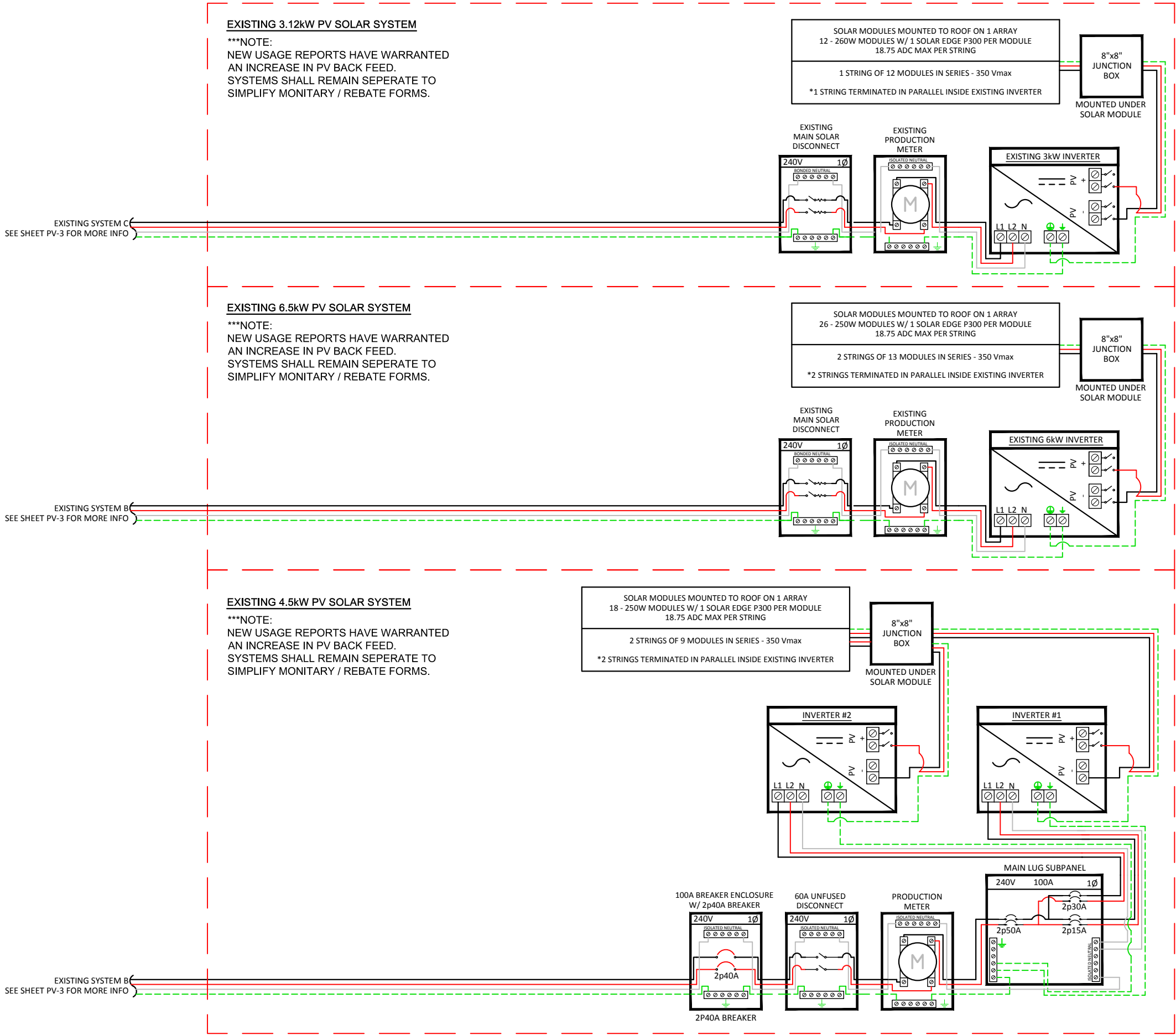
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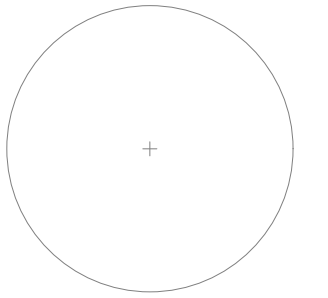


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APPLICATIONS CHANGE

(FOR INTERNAL USE ONLY)

☐ UPDATE ☐ REVISION

BUILDING

ZONING REQUIRED?

☐ YES ☐ NO

☐ UPDATE ☐ REVISION

ELECTRICAL

- ☒ REVISED LAYOUT
- ☐ REVISED ENGINEER LETTER
- ☐ ADD ____ PANELS
- ☐ REMOVE ____ PANELS
- ☒ RELOCATING PANELS
- ☐ CHANGE RACKING

BUILDING NOTE:

-2 PANELS MOVED TO NEW R2

ELECTRICAL NOTE:

-REMOVED UNFUSED DISCO

ZONING NOTE:

-

- ☐ SYSTEM SIZE INCREASE
- ☐ SYSTEM SIZE DECREASE
- ☐ ADD TAP BOX \$100
- ☐ ADD SUBPANEL \$150
- ☐ NEW METER PAN \$100
- ☐ NEW RISER \$100
- ☐ NEW MAIN PANEL \$800
(includes meter pan and riser)
- ☐ ADD INVERTER \$150
- ☐ ADD ____ AMP FUSED DISCONNECT \$50
- ☐ ADD ____ AMP BREAKER
- ☐ ADD BREAKER ENCLOSURE \$100
- ☐ ADD UNFUSED DISCONNECT \$100
- ☒ REMOVE UNFUSED DISCONNECT
- ☐ REMOVE FUSED DISCONNECT
- ☐ CHANGE POINT OF INTERCONNECTION
- ☐ CHANGE METHOD OF INTERCONNECTION
- ☐ REMOVE PRODUCTION METER
- ☐ ADD PRODUCTION METER
- ☐ DECREASE FUSE SIZE
- ☐ INCREASE FUSE SIZE
- ☐ INVERTER SIZE DECREASE
- ☐ INVERTER SIZE INCREASE