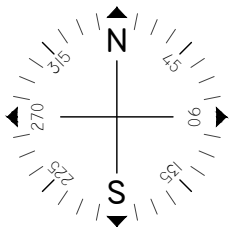
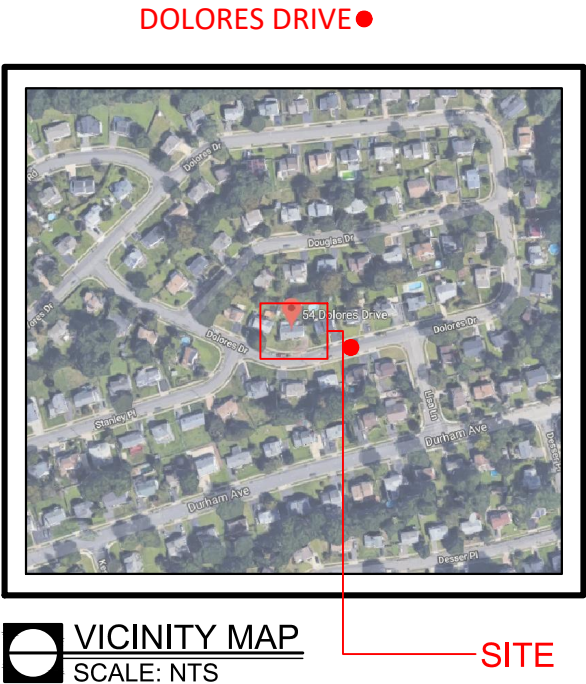


# INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

54 DOLORES DRIVE  
EDISON, NJ 08817



Issued / Revisions

A2	AS BUILT	6/12/2019
A1	AS BUILT	6/10/2019
R1	MODULE TYPE & COUNT CHANGE	5/24/2019
P1	ISSUED TO TOWNSHIP FOR PERMIT	5/1/2019
NO.	DESCRIPTION	DATE

Project Title:
GONCZI, DONALD-
TRINITY ACCT #: 2019-04-337125

Project Address:
54 DOLORES DRIVE
EDISON, NJ 08817
40.542398,-74.380900

Drawing Title:
AS BUILT PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	5/1/2019
DRAWN BY:	RF
REVISED BY:	RTC

System Information:	
DC SYSTEM SIZE:	7.965kW
AC SYSTEM SIZE:	6kW
TOTAL MODULE COUNT:	27
MODULES USED:	HANWHA 295
MODULE SPEC #:	Q.PEAK-BLK G4.1 295
UTILITY COMPANY:	PSE&G
UTILITY ACCT #:	66 772 430 01
UTILITY METER #:	1321113
DEAL TYPE:	SUNNOVA

Rev. No.	Sheet
A2	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 RACEWAY, PROVIDE AS 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)

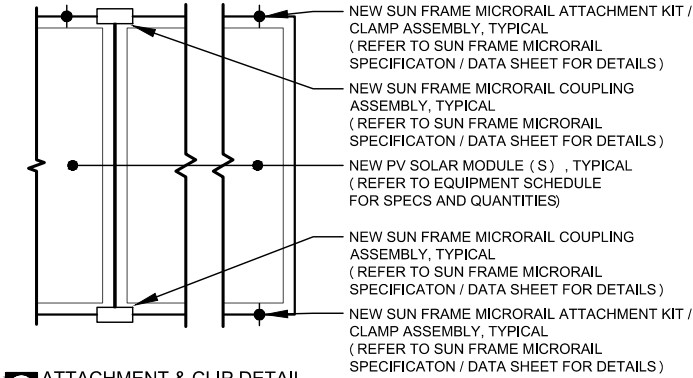
ABBREVIATIONS CONTINUED

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

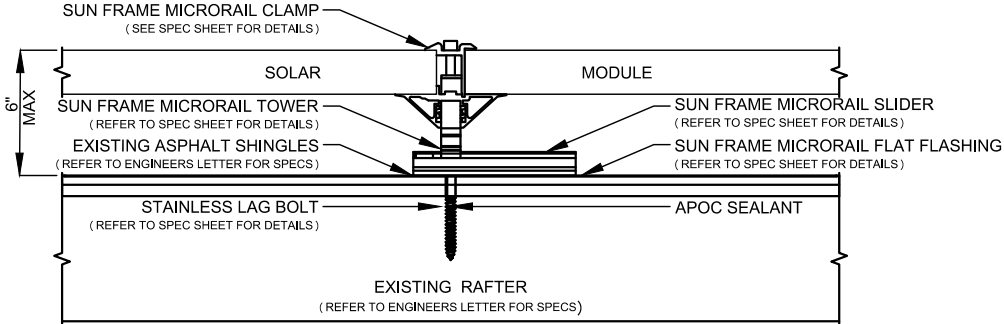
SHEET INDEX

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

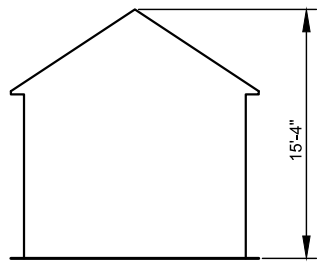
NOTES : \*REFER TO MODULE SPECS FOR MODULE DIMENSIONS  
\*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



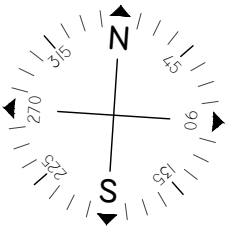
ATTACHMENT & CLIP DETAIL  
SCALE: NOT TO SCALE



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



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



ARRAY SCHEDULE

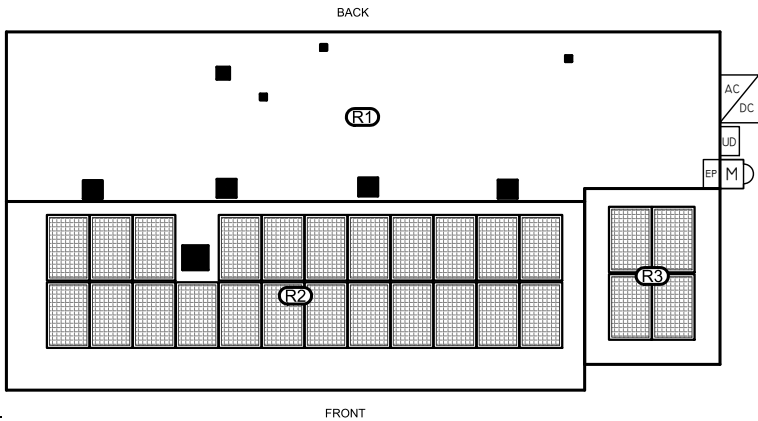
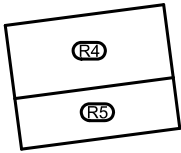
ROOF 1  
MODULES: 0  
PITCH: 18°  
ORIENTATION: 356°

ROOF 2  
MODULES: 23  
PITCH: 19°  
ORIENTATION: 176

ROOF 3  
MODULES: 4  
PITCH: 19°  
ORIENTATION: 176

ROOF 4  
MODULES: 0  
PITCH: 27°  
ORIENTATION: 349°

ROOF 5  
MODULES: 0  
PITCH: 27°  
ORIENTATION: 169°



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.

SYMBOL LEGEND

(R1)	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	(UD)	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE ( UTILITY ACCESSIBLE )	(SP)	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
(M)	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. <b>RED</b> MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.		
(EP)	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	(P)	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.		
(D)	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED INSIDE		INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS		

PLUMBING SCHEDULE

OTHER OBSTRUCTIONS	

EQUIPMENT SCHEDULE

QTY	SPEC #
27	HANWHA 295 (Q.PEAK-BLK G4.1 295)
1	SE6000H-US000NNC2

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REVISED BY:	RTC

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UTILITY ACCT #:	66 772 430 01
UTILITY METER #:	1321113
DEAL TYPE:	SUNNOVA

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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 2 PANELS

☐ REMOVE \_\_\_\_ PANELS

☐ RELOCATING PANELS

☐ CHANGE RACKING

## BUILDING NOTE:

-ADDED 2 MODULES TO SYSTEM  
-ADDED 2 MODULES TO ROOF 2

## ELECTRICAL NOTE:

=MODULE CHANGE FROM HANWHA 315 TO  
HANWHA 295  
-DC SYSTEM SIZE INCREASE FROM 7875W TO  
7965W

## 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