ROOF MOUNTED PV SOLAR SYSTEM 118 WINTER STREET TROY, NY 12180

VICINITY MAP

WINTER STREET

GENERAL NOTES

- 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 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-INSTALLATION 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

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

AMP

RACEWAY, PROVIDE AS
SPECIFIED)
CB COMBINER BOX
CKT CIRCUIT
CT CURRENT TRANSFORME

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

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

MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

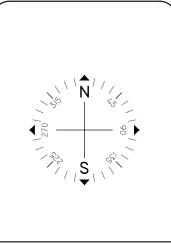
SHEET INDEX

PV-1 COVER SHEET W/ SITE INFO & NOTES

PV-2 ROOF PLAN W/ MODULE LOCATIONS

PV-3 ELECTRICAL 3 LINE DIAGRAM

AP APPENDIX



Issued / Revisions				
P1	ISSUED TO TOWNSHIP FOR PERMIT	10/9/2017		
NO.	DESCRIPTION	DATE		

Project Title:

DAVIS, NANCY

TRINITY ACCT #: 2017-09-187043

Project Address:

118 WINTER STREET TROY, NY 12180 42.698329,-73.660428

Drawing Title:

PROPOSED PV SOLAR SYSTEM

Drawing Information						
DRAWING DATE:	10/9/2017					
DRAWN BY:	JC					
REVISED BY:						

System Information:					
DC SYSTEM SIZE:	7.54kW				
AC SYSTEM SIZE:	6.8kW				
TOTAL MODULE COUNT:	26				
MODULES USED:	HANWHA 290				
MODULE SPEC #:	Q.PEAK-BLK G4.1 290				
UTILITY COMPANY:	NAT'L GRID				
UTILITY ACCT #:	05788-78118				
UTILITY METER #:	34578336				
DEAL TYPE:	SUNRUN				



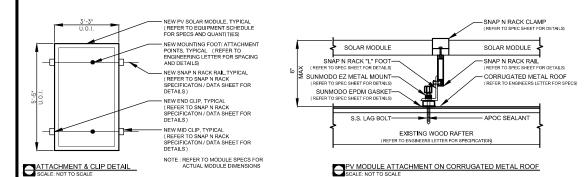
PV -

Sheet



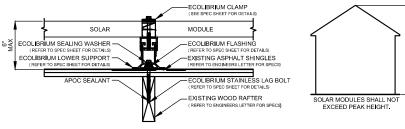
2211 Allenwood Road Wall, New Jersey 07719 877-797-2978 www.Trinity-Solar.com

GENERAL NOTES

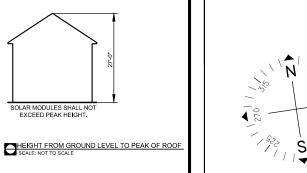


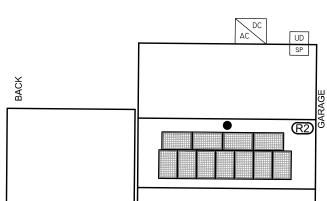
NOTES: *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
*DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE NEW ECO X ATTACHMENT KIT / CLAMP ASSEMBLY, TYPICAL (REFER TO ECO X SPECIFICATON / DATA SHEET FOR DETAILS) NEW ECO X COUPLING ASSEMBLY, TYPICAL (REFER TO ECO X SPECIFICATON / DATA SHEET FOR DETAILS) NEW PV SOLAR MODULE (S) , TYPICAL (REFER TO EQUIPMENT SCHEDULE FOR SPECS AND QUANTITIES) NEW ECO X COUPLING ASSEMBLY, TYPICAL (REFER TO ECO X SPECIFICATON / DATA SHEET FOR DETAILS) NEW ECO X ATTACHMENT KIT / CLAMP ASSEMBLY, TYPICAL (REFER TO ECO X SPECIFICATON / DATA SHEET FOR DETAILS) ATTACHMENT & CLIP DETAIL

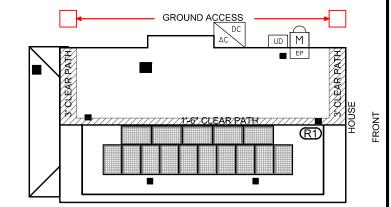
SCALE: NOT TO SCALE



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







Issued / Revisions ISSUED TO TOWNSHIP FOR PERMIT DESCRIPTION DATE NO.

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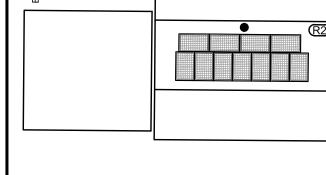
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UTILITY ACCT #:	05788-78118
UTILITY METER #:	34578336
DEAL TYPE:	SUNRUN

Rev. No.	
P1	



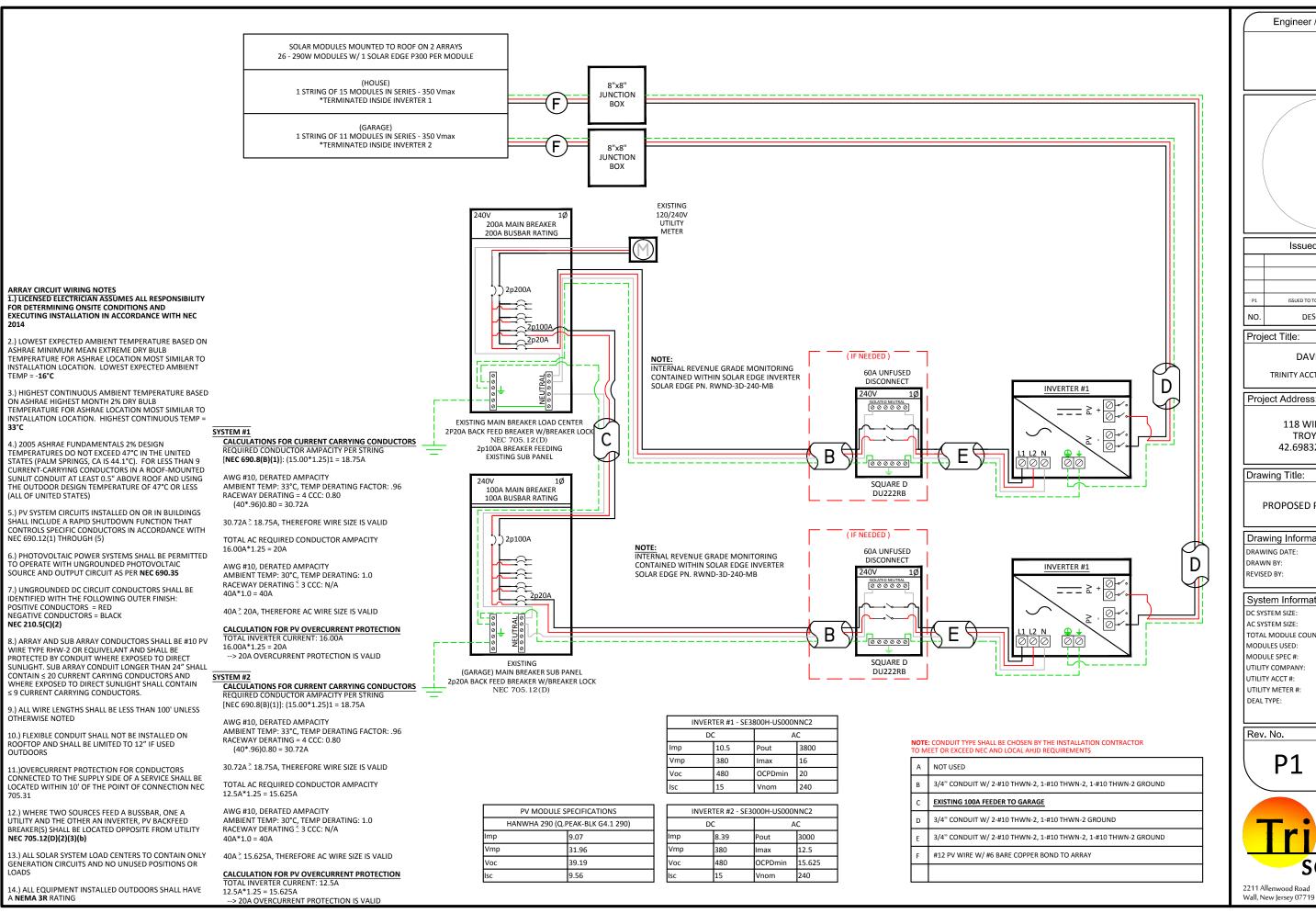
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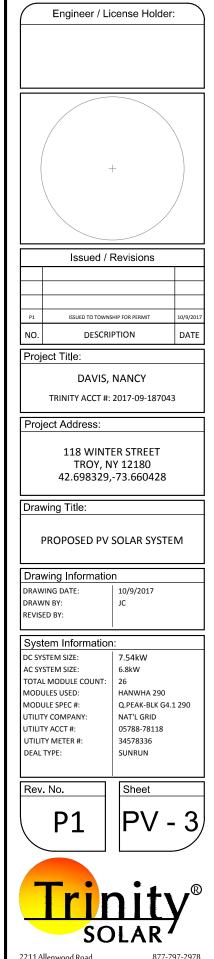
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- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE
- WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT 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	N ONLY PV	ARRAY SHALL NOT EXTEND BEYOND THE EXISTI	NG ROOF E	EDGE.						
ARRAY SCHEDULE	SYMBOL LEGEND			PLUMBING SCHEDULE	EQUIPMENT SCHEDULE		1			
<u>R1</u>		INDICATES ROOF DESIGNATION REFER TO		INDICATES NEW UTILITY DISCONNECT TO BE				QTY	SPEC#	
ARRAY ORIENTATION = 189° MODULE PITCH = 9°		INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	UD	INSTALLED OUTSIDE	SP	INDICATES EXISTING ELECTRICAL SUB PANEL		26	HANWHA 290 (Q.PEAK-BLK G4.1 290)	
<u>R2</u>		INDICATES EVICTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. RED MODULES				1	SE3800H-US000NNC2	
ARRAY ORIENTATION = 190° MODULE PITCH = 19°		INDICATES EXISTING METER LOCATION		INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.			OTHER OBSTRUCTIONS	1	SE3000H-US000NNC2	
		INDICATES EXISTING ELECTRICAL PANEL LOCATION: IN BASEMENT		INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.			OTHER OBSTRUCTIONS			
	D	INDICATES NEW MAIN DISCONNECT		INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS.						





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