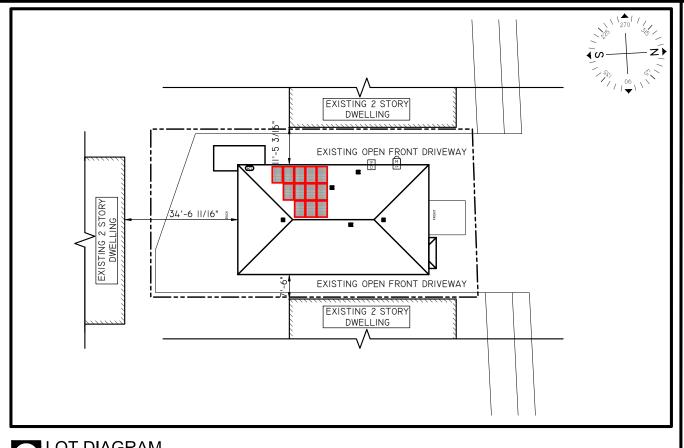
INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

122-14 22ND AVENUE FLUSHING, NY 11356









GENERAL NOTES

- 1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL FOLIPMENT 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
- 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

- 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.
- ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
- 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 PRIOR TO THE SYSTEM START UP THE
- INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS. FOR THE PROPER MAINTENANCE AND
- ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
- THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS
- 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

SATELLITE VIEW

- B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
- 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".
- ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

- 1. PV INSTALLATION TO COMPLY WITH ARTICLE 690 OF THE NEC
- 2. PV INSTALLATION TO COMPLY WITH NYSERDA REQUIREMENTS.
- 3 PV INSTALLATION TO COMPLY WITH NEW YORK STAT STANDARDIZED

1. PV INSTALLATION TO COMPLY WITH NYC ELECTRIC CODE 2011.

PLAN NOTES

1 SCOPE OF WORK IS SOLEY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM, ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE DOB

SPECIAL INSPECTIONS: STABILITY

FIRE STOP PROGRESS INSPECTIONS: **ENERGY CODE** COMPLIANCE FINAL INSPECTION VISUAL AIR SEALING

SCALE: 1"=350'

TENANT SAFETY NOTES

- 1. CONSTRUCTION WORK WILL BE CONFINED TO THE ROOF / OUTSIDE & WILL NOT CREATE DUST, DIRT OR OTHER INCONVENIENCES TO NEIGHBORING PROPERTIES OR APARTMENT UNITS WITHIN THE BUILDING.
- 2. CONSTRUCTION WORK WILL NOT BLOCK HALLWAYS OR MEANS OF EGRESS FOR NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING.
- 3. CONSTRUCTION WORK WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER OR ELECTRIC SERVICES TO NEIGHBORING PROPERTIES OR TENANTS OF THE BUILDING
- 4. CONSTRUCTION WORK WILL BE CONFINED TO NORMAL WORKING HOURS, 8AM - 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS.

TENANT PROTECTION PLAN

ROPOSED VALUE:

ND ECC TABLE R402.4.2

ESCRIBED IN SECTION ECC

PENETRATIONS AS

R402.4.2

UILDING STRUCTURE BY

DI TING TO STRUCTURAL

MFMBERS, AND SHOWN ON

ABBREVIATIONS

ALTERNATING CURRENT ALUMINUM AMP. FRAME ABOVE FINISHED FLOOR AFF AFG ABOVE FINISHED GRADE AMERICAN WIRE GAUGE

CONDUIT (GENERIC TERM OF RACEWAY PROVIDE AS SPECIFIED) COMBINER BOX CKT CIRCUIT

CURRENT TRANSFORMER CU COPPER DC DISC DIRECT CURRENT DISCONNECT SWITCH

DWG DRAWING ELECTRICAL SYSTEM INSTALLER EC EMT ELECTRICAL METALLIC TUBING FUSIBLE SWITCH

FS FU FUSE GROUND GFI

GROUND FAULT INTERRUPTER FREQUENCY (CYCLES PER

DESCRIPTION:

PECTION OF OPENINGS AND PENETRATIONS IN THE

CC R402.4 AND APPROVED DRAWINGS

BUILDING ENVELOPE TO VERIEY THAT THEY ARE PROPERL

SEALED, IN ACCORDANCE WITH ECC TABLE R402.4.2, SECTION

DOCUMENTATION 01 00 SOLAR PANEL

NCHORAGE DETAILS AND

SPECIAL PRECAUTION SHALL BE TAKEN BY THE CONTRACTOR SO THAT EQUIPMENT ON THIS APPLICATION AND ITS INSTALLATION WILL NOT AFFECT THE FALLOWING

A. TENANT EGRESS TO AND FROM THE BUILDING. B. FIRE SAFETY, OR CREATE A FIRE HAZARD.

- C. STRUCTURAL SAFETY OF THE BUILDING.
- D. ACCUMULATION OF DUST. THE CONTRACTOR SHALL LEAVE THE WORK SITE BROOM CLEAN EACH DAY. IN THE EVENT THAT ASBESTOS IS FOUND ON THE JOBSITE, ITS REMOVAL SHALL TAKE PLACE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS OF O.S.H.A SECTION 1901.1, INCLUDING STAT AND FEDERAL DUMPING GROUNDS

APPLICATION TYPE: ALT-2 SCOPE OF WORK: INSTALL NEW ROOF MOUNTED SOLAR ELECTRICITY (PV-PHOTOVOLTAIC) GENERATING SYSTEM

THAT SHOWN IN THIS ENERGY ANALYSIS. HAS BEEN INCLUDED IN AN ASSOCIATED PLAN APPROVAL AND WORK PERMIT APPLICATION

RESCRIPTIVE VALUE

WEATHERSTRIPPING OR OTHER

MATERIALS IN ACCORDANCE

AND CITATION:

CERTIFY THAT ANY BUILDING CONSTRUCTION ASSOCIATED WITH THE INSTALLATION OF THE SOLAR ELECTRIC GENERATING SYSTEM, OTHER THAN

THERE SHALL BE NO CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 8AM TO 5PM MONDAY THRU FRIDAY EXCEPT LEGAL HOLIDAYS

ABBREVIATIONS CONTINUED

JUNCTION BOX THOUSAND CIRCULAR MILS KILO-VOLT AMPERE kVA KILO-WATT kWH KILO-WATT HOUR MAIN CIRCUIT BREAKER

MDP MAIN DISTRIBUTION PANEL MLO MAIN LUG ONLY MOUNTED MTG MOUNTING NEUTRAL NATIONAL ELECTRICAL CODE

NIC NOT IN CONTRACT NO# NUMBER NOT TO SCALE OVER CURRENT PROTECTION OCP

POLE PB PULL BOX PHASE

POLY-VINYL CHLORIDE CONDUIT POWER QTY QUANTITY

RIGID GALVANIZED STEEL

JSWBD SWITCHBOARD TYPICAL U.O.I. UNLESS OTHERWISE INDICATED WEATHERPROOF XFMR TRANSFORMER +72 MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

T-001.00 - COVER SHEET S- 001.00 - ROOF LAYOUT S- 002 00 - FLEVATION DRAWING S- 003.00 - ELEVATION DRAWING E-001.00 - ELECTRICAL 3-LINE DRAWING

DEPARTMENT OF BUILDING NOTES NYC FC504 EXEMPT - PITCH GREATER THAN 5/12 BC 109.3.3

28-116.2.4.2 AND DIRECTIVE 14 OF 1975 RCNY 101-10

1. SCOPE OF WORK IS SOLEY FOR THE INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM, ALL OTHER WORK IS NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE DOE

ABBREVIATIONS CONTINUED

System Information: DC SYSTEM SIZE

TOTAL MODULE COUNT MODULES USED: MODULE SPEC #: UTILITY COMPANY: RCNY 5000-01 (H) (IA6) IIA6) UTILITY ACCT #:

PLAN NOTES

DWG No: T-001.00



PAGE: 1 OF 5

Issued / Revisions

ISSUED TO TOWNSHIP FOR PERMIT

DESCRIPTION

THADATHIL, SIMON 2ND FLOOR TRINITY ACCT #: 2018-02-231255

122-14 22ND AVENUE

FLUSHING, NY 11356

40.779940,-73.845474

COVER SHEET

2/16/2018

IC / DMR

3.54kW

2 76kW

HANWHA 295

CON EDISON

DIVIDEND SOLAR

O.PEAK-BLK G4.1 295

23-3503-4340-0702-9

DMR

Project Title:

Project Address:

Drawing Title:

DRAWING DATE

AC SYSTEM SIZE:

UTILITY METER #

DEAL TYPE

DRAWN BY

REVISED BY

Drawing Information

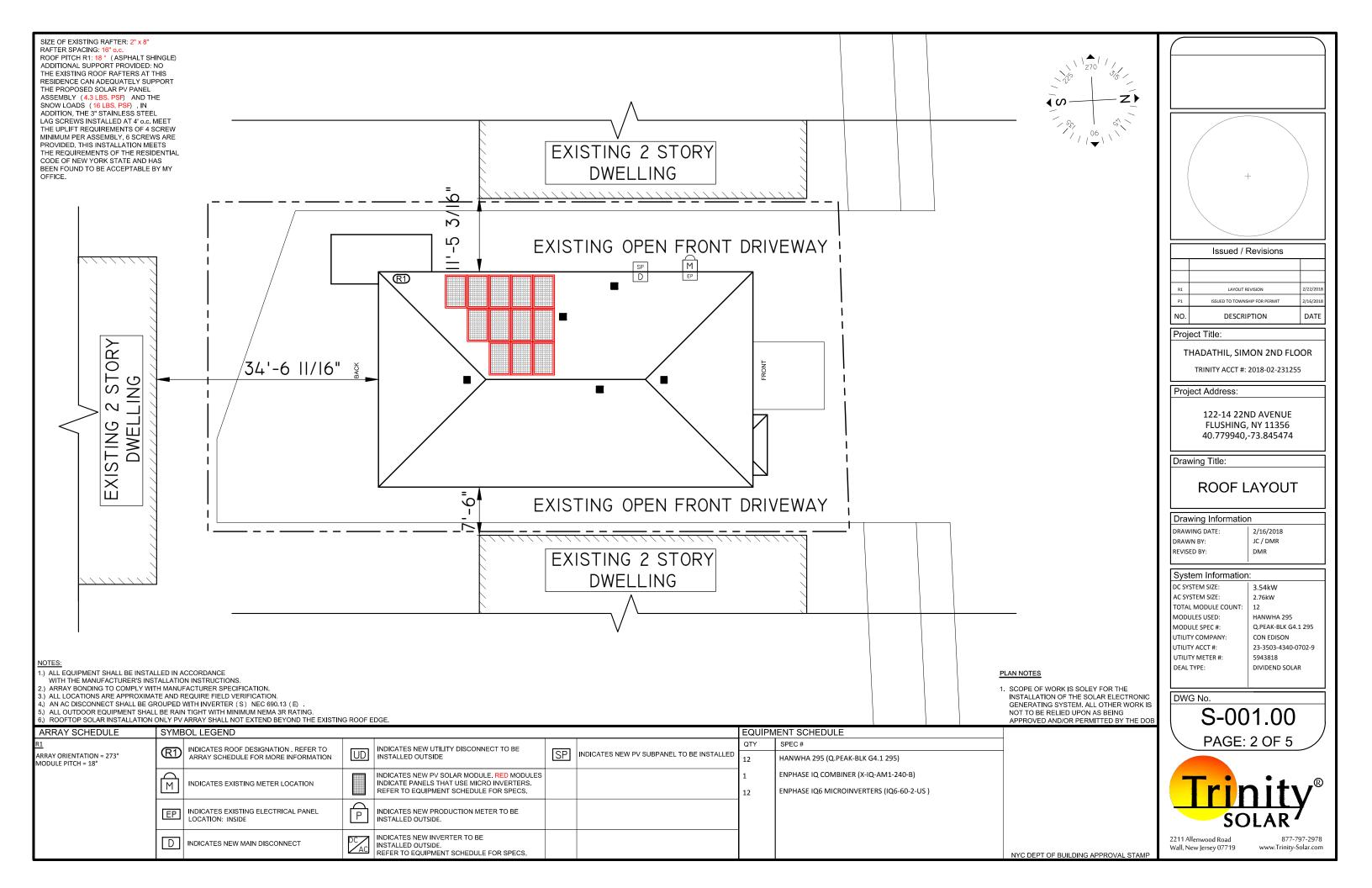
DATE

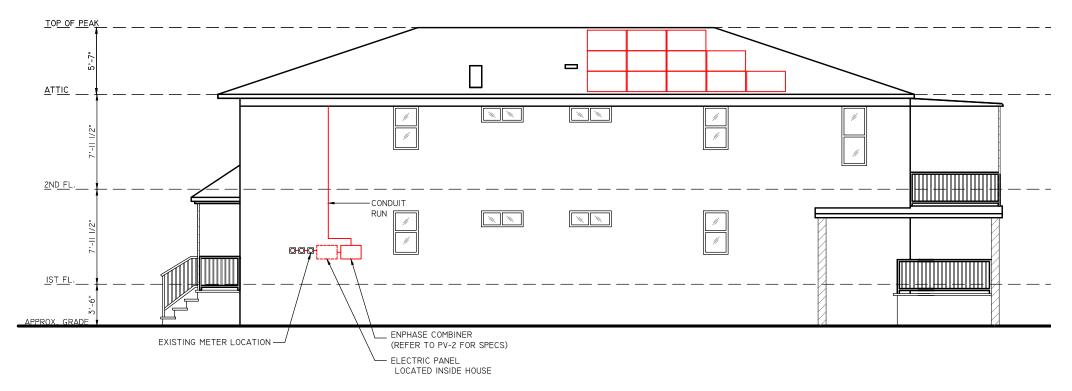
2211 Allenwood Road NYC DEPT OF BUILDING APPROVAL STAMP

Wall, New Jersey 07719

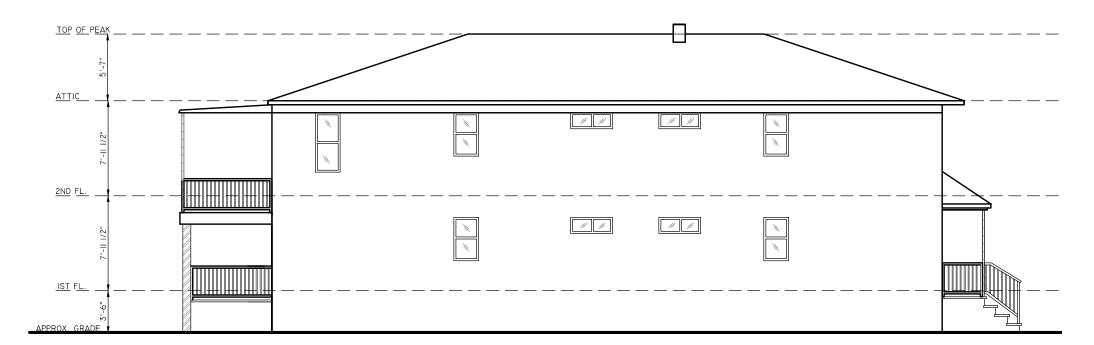
www.Trinity-Solar.com

THE WORK PROPOSED IN THIS APPLICATION IS COMPLIANT WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK CITY 2010



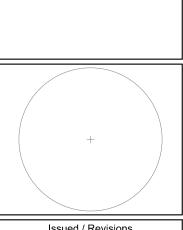






PLAN NOTES

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Issued / Revisions				
R1	LAYOUT REVISION	2/22/2018		
P1	ISSUED TO TOWNSHIP FOR PERMIT	2/16/2018		
NO.	DESCRIPTION	DATE		

Project Title:

THADATHIL, SIMON 2ND FLOOR
TRINITY ACCT #: 2018-02-231255

Project Address:

122-14 22ND AVENUE FLUSHING, NY 11356 40.779940,-73.845474

Drawing Title:

ELEVATION DRAWING

Drawing Information		
DRAWING DATE:	2/16/2018	
DRAWN BY:	JC / DMR	
REVISED BY:	DMR	

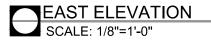
System Information: DC SYSTEM SIZE: 3.54kW AC SYSTEM SIZE: 2.76kW TOTAL MODULE COUNT: MODULES USED: HANWHA 295 MODULE SPEC #: Q.PEAK-BLK G4.1 295 UTILITY COMPANY: CON EDISON UTILITY ACCT #: 23-3503-4340-0702-9 UTILITY METER #: 5943818 DEAL TYPE: DIVIDEND SOLAR

DWG No.

S-002.00 PAGE: 3 OF 5

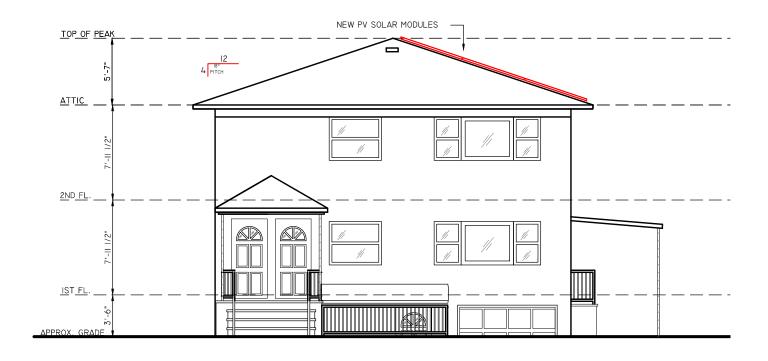


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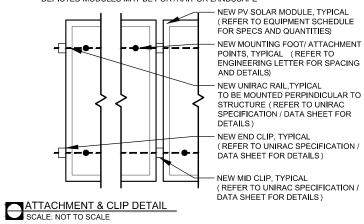
NYC DEPT OF BUILDING APPROVAL STAMP

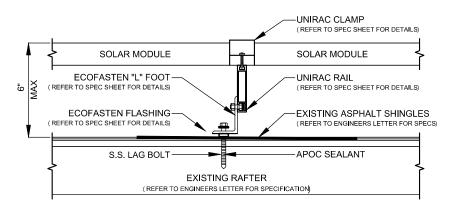
ZR 23-62 (m) - PANEL PLACEMENT COMPLIES WITH ALL SECTIONS OF ZR 23-62 (m)





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





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

PLAN NOTES

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DWG No. S-003.00 PAGE: 4 OF 5



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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**

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

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 =

4) 2005 ASHRAF 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)

5.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TÓ 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 CARYING 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

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

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*1.25)12 = 14.37A

Vmp

32.19

39.48

#6 THWN-2 GEC TO EXISTING GROUND ROD

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

3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND

3/4" CONDUIT W/ 2-#10 THWN-2, 1-#10 THWN-2 GROUND

#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY

3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2, 1-#8 THWN-2 GROUND

3/4" CONDUIT W/ 2-#10 THWN-2. 1-#10 THWN-2. 1-#10 THWN-2 GROUND

9.7

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

38.40A [>] 14.37A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY 11.50A*1.25 = 14.37A

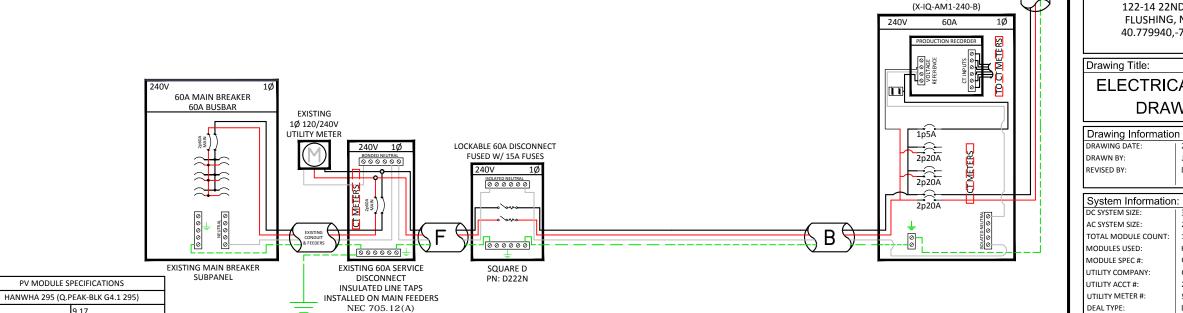
AWG #10, DERATED AMPACITY AMBIENT TEMP: 30°C, TEMP DERATING: 1.0 RACEWAY DERATING 5 3 CCC: N/A 40A*1.0 = 40A

40A - 14.37A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 11.50A 11.50A*1.25 = 14.37A

--> 15A OVERCURRENT PROTECTION IS VALID



SOLAR MODULES MOUNTED TO

ROOF ON 1 ARRAY 12 - 295W MODULES

12 - ENPHASE IO6 MICROINVERTERS

(IO6-60-2-US)

12 MODULES ON 12 ENPHASE IQ6 MICROINVERTERS

JUNCTION BOX

FC 504.4.7 - ALL CONDUITS AND PIPING INSTALLATIONS SHALL BE COLOR-CODED WITH CONTINUOUS, DURABLE, AND WEATHERPROOF REFLECTIVE OR LUMINESCENT MARKINGS AS FOLLOWS, AND FOR CONDUIT AND PIPING INSTALLED AFTER JULY 1, 2014, SHALL BE CONTINUOUSLY LABELED IN AN APPROVED MANNER TO INDICATES ITS CONTENTS:

- HIGH VOLTAGE WIRING RED
 LOW VOLTAGE WIRING ORANGE
- 3. NATURAL GAS PIPING YELLOW

FC 512.4.2 - INDOOR AND OUTDOOR DIRECT CURRENT CONDUIT, ENCLOSURE, RACEWAYS, CABLE ASSEMBLIES, JUNCTION BOXES, COMBINER BOXES, AND MAIN SERVICE AND OTHER DISCONNECTS SHALL HAVE DURABLE, RETOREFLECTIVE, AND, IF OUTDOORS, WEATHERPROOF MARKINGS, IN WHITE CAPITAL LETTERS WITH A HEIGHT OF NOT LESS THAN \$\frac{3}{8} INCH (9.5 MM) ON A RED BACKGROUND, READING "WARNING: PHOTOVOLTAIC POWER SOURCE."

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 INSTALLATION OF THE SOLAR ELECTRONIC GENERATING SYSTEM. ALL OTHER WORK IS

PLAN NOTES

ENPHASE IQ COMBINER

NOT TO BE RELIED UPON AS BEING APPROVED AND/OR PERMITTED BY THE DOM

NYC DEPT OF BUILDING APPROVAL STAMP

DWG No.

E-001.00 PAGE: 5 OF 5

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ELECTRICAL 3-LINE

DRAWING

2/16/2018

JC / DMR

2.76kW

HANWHA 295

CON FDISON

5943818

Q.PEAK-BLK G4.1 295

23-3503-4340-0702-9

DIVIDEND SOLAR

DMR

Project Title:

Project Address:

D

DATE



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