

PROJECT SUMMARY:

THE PROJECT SCOPE INCLUDES THE DESIGN, SPECIFICATION, PROCUREMENT, INSTALLATION AND COMMISSIONING OF A COMPLETE, TURN-KEY, GRID-TIED PHOTOVOLTAIC ELECTRIC SYSTEM.

MODULE TYPE	(13) Q CELL Q.PEAK-G4.1 305
INVERTER	(1) SE3800H-US
OPTIMIZER	(13) SOLAREEDGE P320
ARRAY PITCH	34°
ARRAY AZIMUTH	140°
RACKING	IRONRIDGE XRI00 ALUMINUM RAIL
ROOF ATTACHMENT	ALUMINUM L-FEET WITH SS LAG SCREWS, 3 X5/16 WITH ECOFASTEN FLASHED ROOF ATTACHMENT KITS

AUTHORITIES HAVING JURISDICTION:

BUILDING AUTHORITY	PORTLAND MAINE
ELECTRICAL AUTHORITY	PORTLAND MAINE
ZONING/PLANNING AUTHORITY	PORTLAND MAINE
ELECTRICAL UTILITY	CMP

DESIGN CRITERIA:

OCCUPANCY	RESIDENTIAL
DESIGN WIND LOAD	100 MPH
RISK CATEGORY	I
GROUND SNOW LOAD	60 PSF
EXPOSURE CATEGORY	C
ROOF HEIGHT	20' ABOVE GRADE TO EAVES
ROOF COMPOSITION	ASPHALT SHINGLES
RAFTER	3"X4" ROUGH CUT
RAFTER SPACING	16-18" O.C.









SHEET LIST:

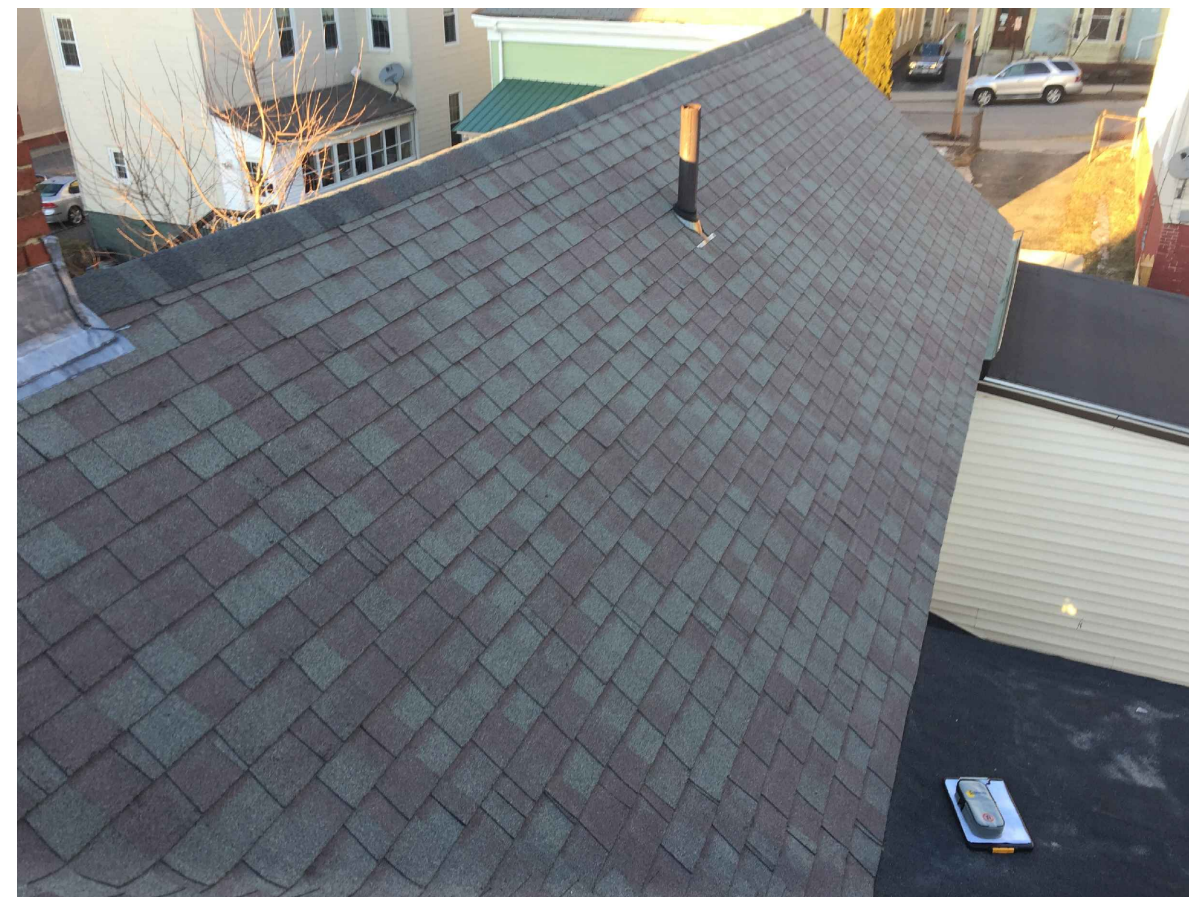
G001	TITLE SHEET
A001	SITE PLAN
A002	MODULE LAYOUT
E001	ONE-LINE DIAGRAM

GENERAL NOTES:

1. ALL WORK SHALL COMPLY WITH LOCAL AND STATE ORDINANCES AND BUILDING CODES.
2. ELECTRICAL INSTALLATION SHALL COMPLY WITH STATE AND LOCALLY ADOPTED ELECTRICAL CODE.
3. ROOFTOP PENETRATIONS SHALL BE SEALED.
4. ALL EQUIPMENT SHALL BE LISTED AND TESTED BY A RECOGNIZED LABORATORY.
5. SYSTEM SHALL CONFORM TO RAPID SHUTDOWN REQUIREMENTS PER NEC 690.
6. CONDUIT RUNS BETWEEN SUB-ARRAYS, COMBINERS, AND DISCONNECTS SHALL BE INSTALLED IN THE MOST DIRECT ROUTE POSSIBLE.
7. ELECTRICAL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN CLEARANCES REQUIRED BY NEC 110.
8. EQUIPMENT SHALL BE LABELED PER NEC 2017 REQUIREMENTS.

SYMBOLS:

 MOD	PV MODULE	 M	POWER METER
 MLPE	MODULE LEVEL POWER ELECTRONIC / OPTIMIZER		FUSED DISCONNECT SWITCH
	DC COMBINER AND DC DISCONNECT		NON-FUSED DISCONNECT SWITCH
	PV DC TO AC INVERTER		
	ENCLOSED CIRCUIT BREAKER		



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CLIENT:

CHRISTIAN MILNEIL
45 SMITH STREET
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SYSTEM TYPE:

3.965KWDC SOLAR
PHOTOVOLTAIC SYSTEM

DESIGNED BY: GJD
REVISION: 0
PRINT SIZE: 11" X 17"
DATE: 2/28/2018

DWG TITLE:

TITLE SHEET

DWG NUMBER:

G001

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THIS DIAGRAM IS PROVIDED AS A SERVICE AND IS BASED ON THE UNDERSTANDING OF THE INFORMATION SUPPLIED. IT IS SUBJECT TO CHANGE BASED ON ACTUAL CONDITIONS, APPLICABLE EDITION OF THE NATIONAL ELECTRIC CODE, AND LOCAL GOVERNMENTAL AUTHORITIES.