

**STATE OF NEW HAMPSHIRE
ELECTRICIANS BOARD**

**NAME: TROY E DIAMOND
12218 M**

EXPIRES: 06/30/2023

MASTER

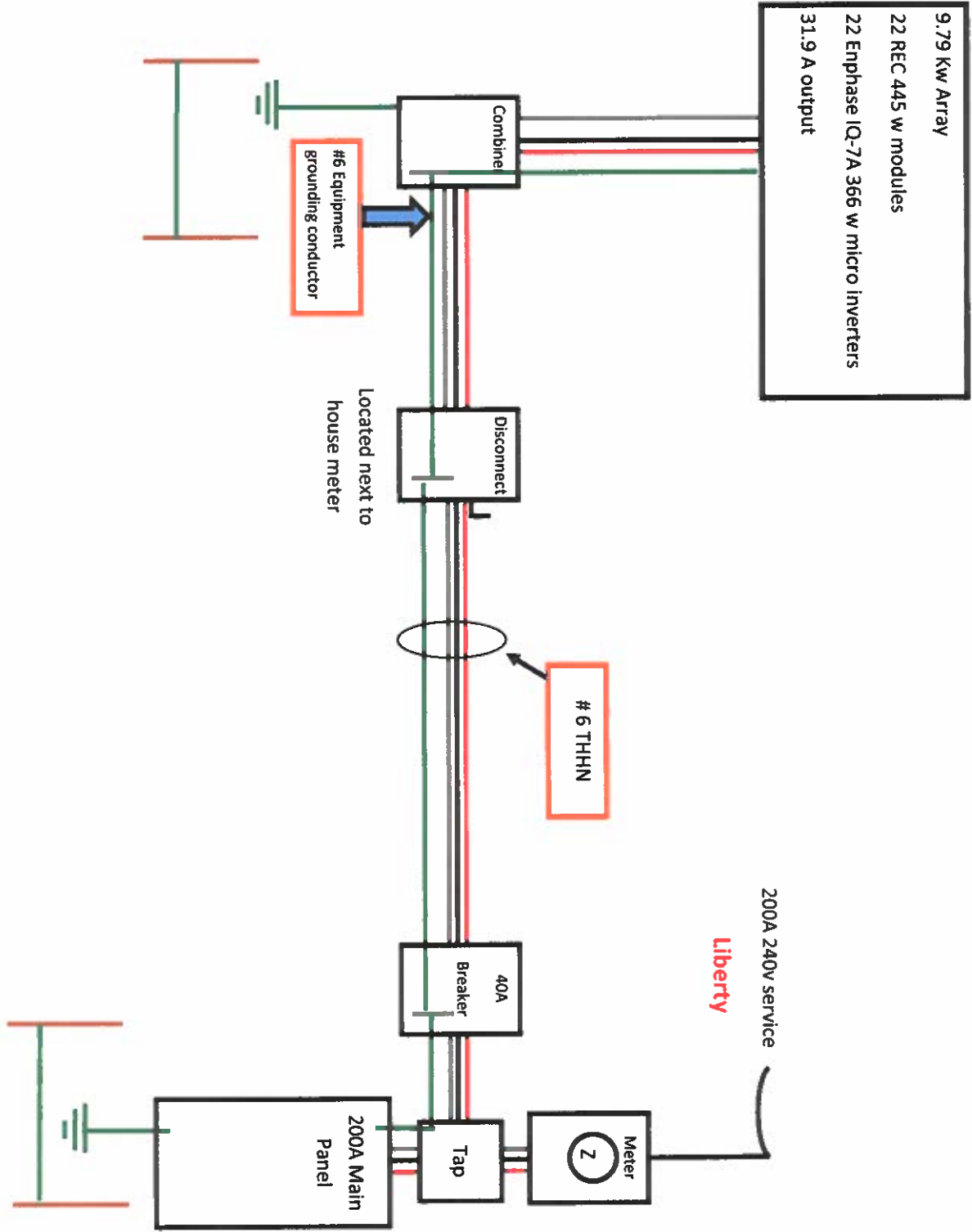



To Whom It May Concern:

I, Elizabeth Todd, authorize Granite State Solar to act as my agent and sign on my behalf all permits, and other documents related to my solar installation.

Sincerely,

A handwritten signature in black ink, appearing to be "Elizabeth Todd", written over a horizontal line.



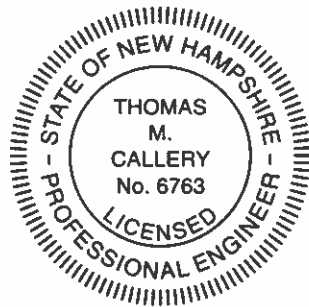
	TITLE: Elizabeth Todd One Line	PREPARED BY: Troy Diamond, Master Electrician 12218M
	DATE: 07/12/2021	ADDRESS: 70 Methodist Hill Rd. Plainfield, NH 03781



24 Inches from top of array to peak of roof.

**PERMIT APPLICATION PACKAGE
TO INSTALL
NEW SOLAR PANELS
FOR
ELIZABETH TODD
70 METHODIST HILL ROAD
PLAINFIELD, NEW HAMPSHIRE**

Thomas M. Callery



07-15-21

Callery Consulting, LLC
PO Box 607
Pelham, New Hampshire 03076

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P.O. Box 607
Pelham, NH 03076
603-508-0037
mca10904@comcast.net*

July 15, 2021

Town of Plainfield, New Hampshire
Meriden Town Hall
Building Department
110 Main Street
Plainfield, New Hampshire 03781

Subject: Elizabeth Todd Solar Installation
70 Methodist Hill Road, Plainfield, New Hampshire

Dear Building Official:

Attached please find all supporting calculations, sketches, details, photographs and supporting data for the installation of solar panels on the roof of the subject property. All calculations were performed in accordance with the "*International Building Code*" (IBC) 2015. *The roof snow load was determined by utilizing the data found in "Ground Snow Loads for New Hampshire" by the US Army Corps of Engineers, 2002.*

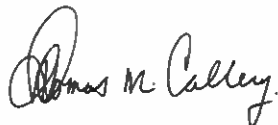
A total of (1) Solar Array (22 New Panels) will be installed on the garage roof.

The existing roof structure consists of 2" x 12" wood rafters spaced @ 16" on center. The roof pitch is 9 in 12. The maximum unsupported horizontal span of the rafters is 13'-0".

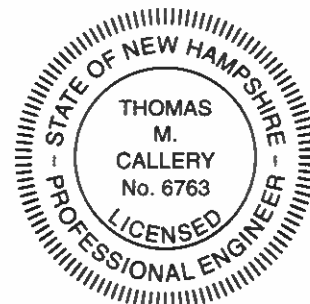
Structural calculations for the roof structure reveal that it is **OKAY AS-IS** to carry the additional weight of the solar array (3 PSF) plus all specified snow, live and dead loads.

If you have any questions or require more information, please do not hesitate to contact me.

Sincerely,



Thomas M. Callery, P.E.
Professional Civil Engineer
NH #6763



PHOTOGRAPHS
SKETCHES/MEASUREMENTS
OF
EXISTING STRUCTURE

Callery Consulting, LLC
PO Box 607
Pelham, New Hampshire 03076

**70 METHODIST HILL ROAD, PLAINFIELD, NEW HAMPSHIRE
06/23/2021**

PHOTOGRAPHS

**70 METHODIST HILL ROAD, PLAINFIELD, NEW HAMPSHIRE
06/23/2021**



Image 1: GARAGE ROOF



Image 2: BACK ELEVATION VIEW OF GARAGE ROOF



Property Card: 70 METHODIST HILL RD
 Town of Plainfield, NH



Parcel ID: 212-016-000
PID: 000212000016000000

Owner: TODD, ELIZABETH C
Co-Owner: SENSENIG, ELIZABETH C REV TR
Mailing Address: 70 METHODIST HILL RD
 PLAINFIELD, NH 03781

General Information	Assessed Value
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Map: 000212
Lot: 000016
Sub: 000000

Land Use: 1F RES
Zone: RR-RURAL RES

Land Area in Acres: 8.66
Current Use: N
Neighborhood: N-F
Frontage: 0
Waterfront: N
View Factor: N

Land: \$81,400
Buildings: \$334,800
Extra Features: \$4,900
Total: \$421,100

Sale History

Book-Page: 1845-739
Sale Date: 7/3/2012
Sale Price: \$1

Building Details

Model Description: RANCH
Total Gross Area: 2770
Year Built: 1964
Building Grade: GOOD
Stories: 1 STORY FRAME

Condition: VERY GOOD
Depreciation: 0
No. Bedrooms: 4
No. Baths: 2
Adj Bas: 0



Data shown on this report is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this report.

AERIAL VIEW OF
PROPOSED SOLAR
PANELS



24 Inches from top of array to peak of roof.



Site Review Worksheet

Sales Advisor: <u>Andy</u>	Address: <u>70 Methodist Hill</u>	
Customer Name: <u>Elizabeth Todd</u>		
Phone: <u>398 7031</u>	<u>Plainfield</u>	<u>03781</u>
Email: <u>etodd1998@gmail.com</u>	SV Date: <u>6/23/14</u>	SV Time: <u>12</u>
Referral:	Soladeck (circle one): Yes <input type="radio"/> No <input checked="" type="radio"/>	

Type: Roof Ground Tracker Orientation: Landscape Portrait Tree Removal: Yes No

Roof Detail		Electric Detail	
Azimuth: <u>180</u>	Pitch: <u>35°</u>	Amp Rating: <u>200</u>	Utility: <u>Liberty</u> kWh: <u>10350</u> <small>(Get copy of bill)</small>
Layers of Shingles: <u>Metal</u>	Generator Present: Y <input checked="" type="radio"/> N <input type="radio"/>	<i>If Yes: Sub Panel or Whole House</i>	
Material: <u>Standing Seam</u>	Vent pipe need to be moved? Y <input checked="" type="radio"/> N <input type="radio"/>	Ground Conduit Run Ft:	
Is there cell/ data coverage? Y <input type="radio"/> N <input checked="" type="radio"/>	Do they have internet? Y <input checked="" type="radio"/> N <input type="radio"/>	Conduit Run to Meter Ft:	
Year House Built: <u>?</u>		Total Conduit Run Ft:	
Septic Tank/Leach Field Y <input checked="" type="radio"/> N <input type="radio"/>			

GROUND MOUNTS AND TRACKERS		
Loam & seed – add \$2.50 per linear foot to cover trench:	Yes	No
Rock and stump removal, if customer needs moved, add \$200/hr:	Yes	No
All additional landscaping with machine and materials is \$200/ hr if not stated in project agreement:	Yes	No

Photograph Checklist: Post to SharePoint in Customer Folder (*ALL ARE REQUIRED*)										
✓ Front of House	System Location, including Conduit Run	Location on Satellite	Pathfinder	Transformer Pic (Over 10K)	Meter Close Up	Panoramic Picture From Roof	Roof	Main Electrical Panel (Door Open) 1. Up Close 2. Distance	Meter Drop/ Conduit Run (From Distance)	Rafters
		✓	✓	X	✓	X	✓	✓	X	✓

Notes: _____

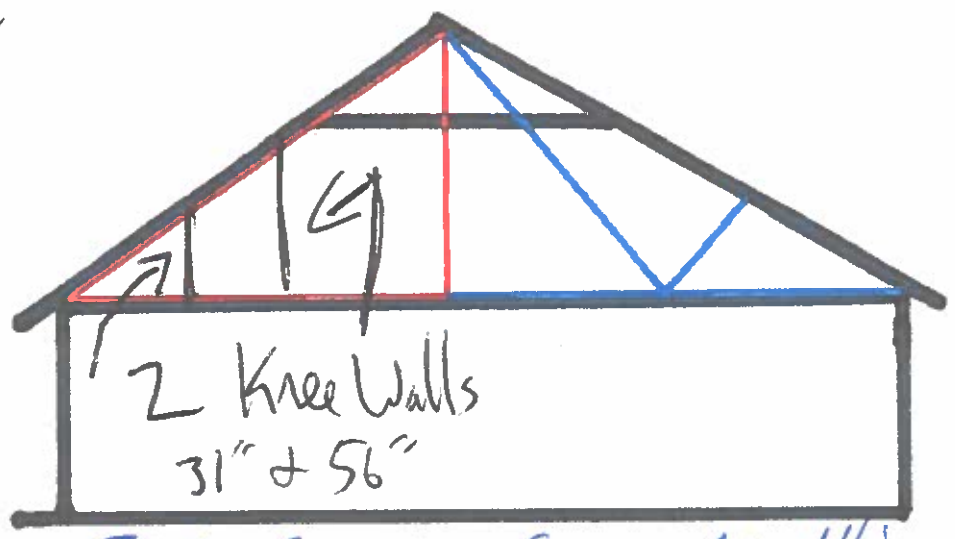
Frame Size: 2x12' @ 16"

Collar Tie Spacing: NA

L= Rafter Span
Measurement in Feet: _____

H= Roof Mean Height: ?

Roof Slope in degrees: 35°



Roof Dimensions / Drawing:

*fished space in Gorge No Attic
Access to see Collar ties.*

