Town of Plainfield,

Enclosed is the permit and permit fees (\$50.00) for the solar installation for customer Jilian Bump at 133 Main St.

When the permit is approved, please email it to jordan@granitestatesolar.com, or mail to 57 Ryan Rd Bow NH 03304, or please let us know if we must pick it up in person.

If you need anything additional, please feel free to contact us.

Thank you!

Jordan Poirier

Office Coordinator

Office: (603) 369-4318

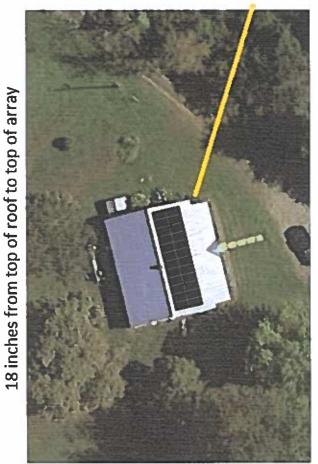
Email: jordan@granitestatesolar.com





To Whom It May Concern:
I, Jilian Bump, 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,

Jilian Bung



meter & disconnect



4/13/5055 :SS3800A

and amb One Line

4/13/5055

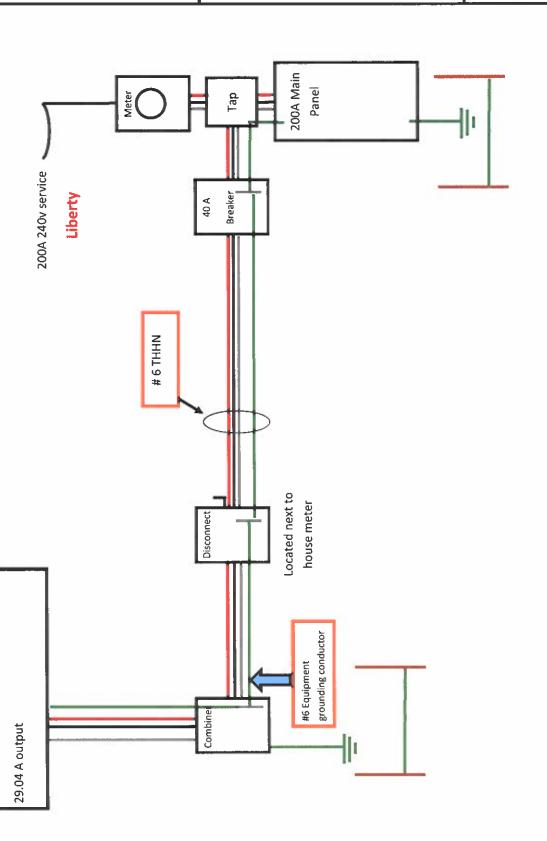
Mick Harris, Master Electrician 14961M

24 Enphase IQ-8+ 300w micro inverters

24 Canadian Solar 400w modules

9.6 Kw Array

: ХВ СЭЯАЧЭЯЧ



State of New Hampshire



Board of Electricians

Authorized as Electrical Corporation

Issued To

GRANITE STATE SOLAR LLC

License Number: 0366C

Expiration Date: 02/18/2015 **Expiration Date**: 05/31/2022

State of New Hampshire



Board of Electricians

<u>Authorized as</u> Electrician Master

Issued To

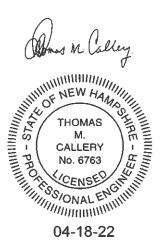
NICHOLAS M HARRIS

License Number: 14961 Active

Master/HMV Name: NICHOLAS M HARRIS

<u>Issue Date</u>: 07/21/2021 **Expiration Date**: 11/30/2024

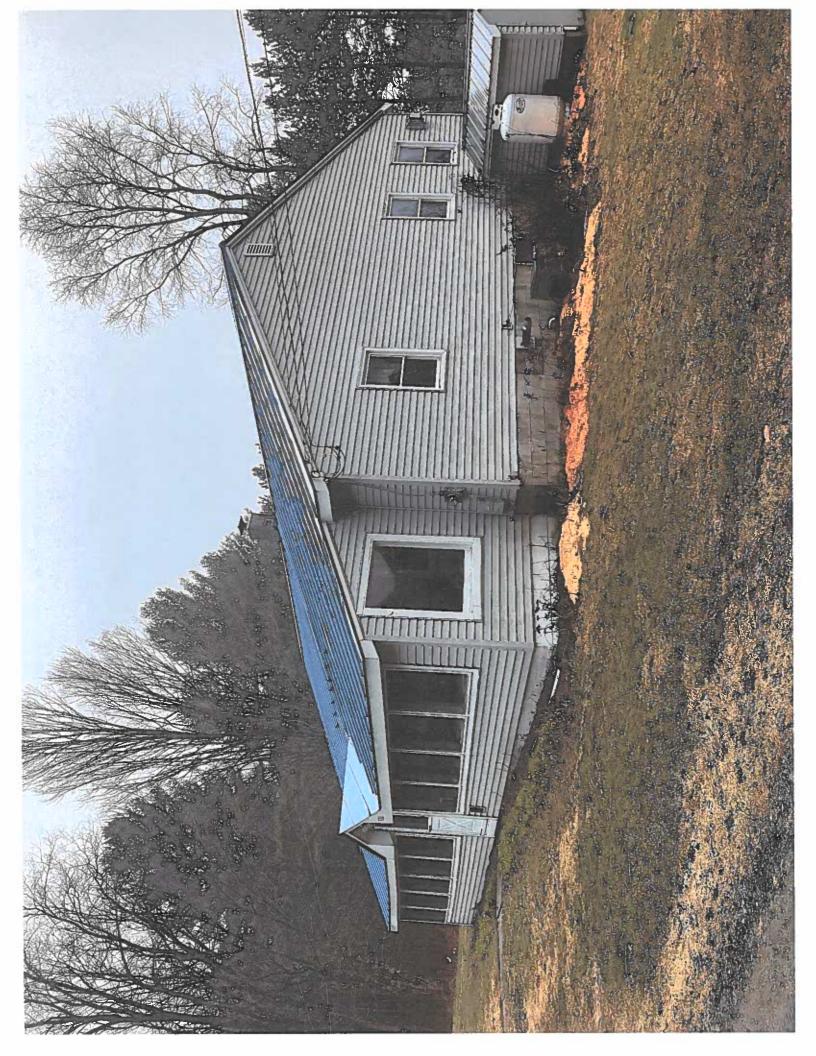
PERMIT APPLICATION PACKAGE TO INSTALL NEW SOLAR PANELS FOR JILIAN BUMP 133 MAIN STREET PLAINFIELD, NEW HAMPSHIRE

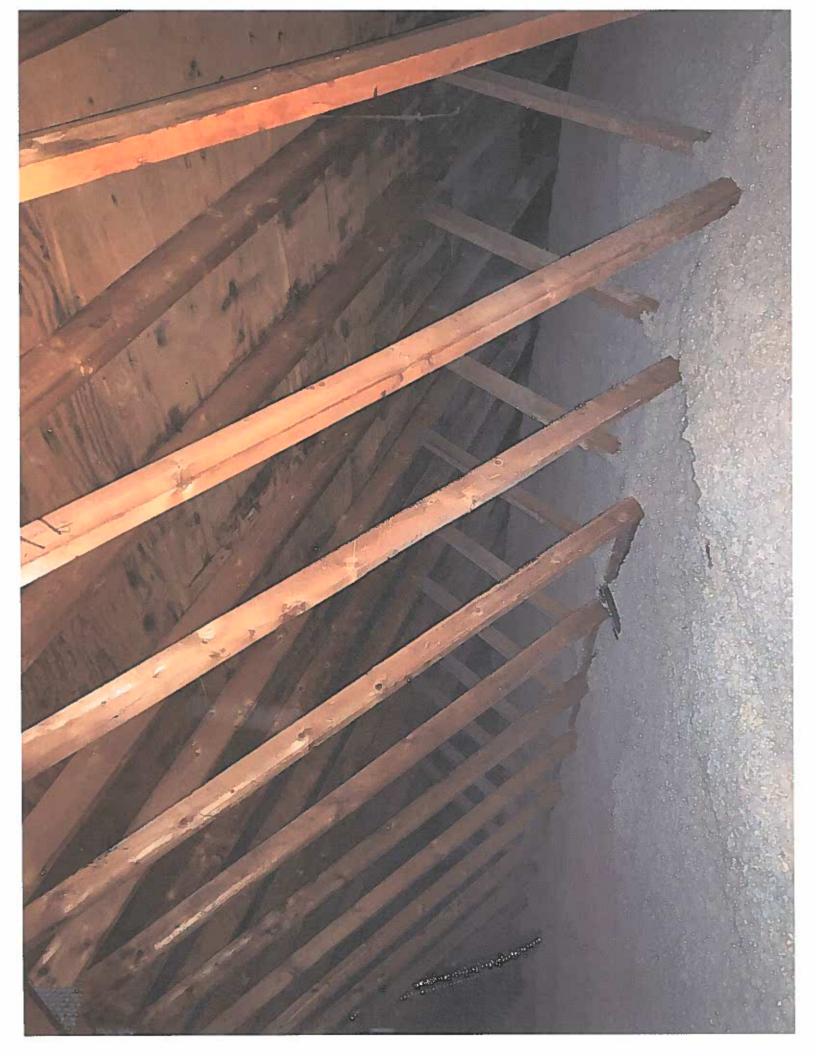


Callery Consulting, LLC PO Box 607 Pelham, New Hampshire 03076

PHOTOGRAPHS SKETCHES/MEASUREMENTS OF EXISTING STRUCTURE

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

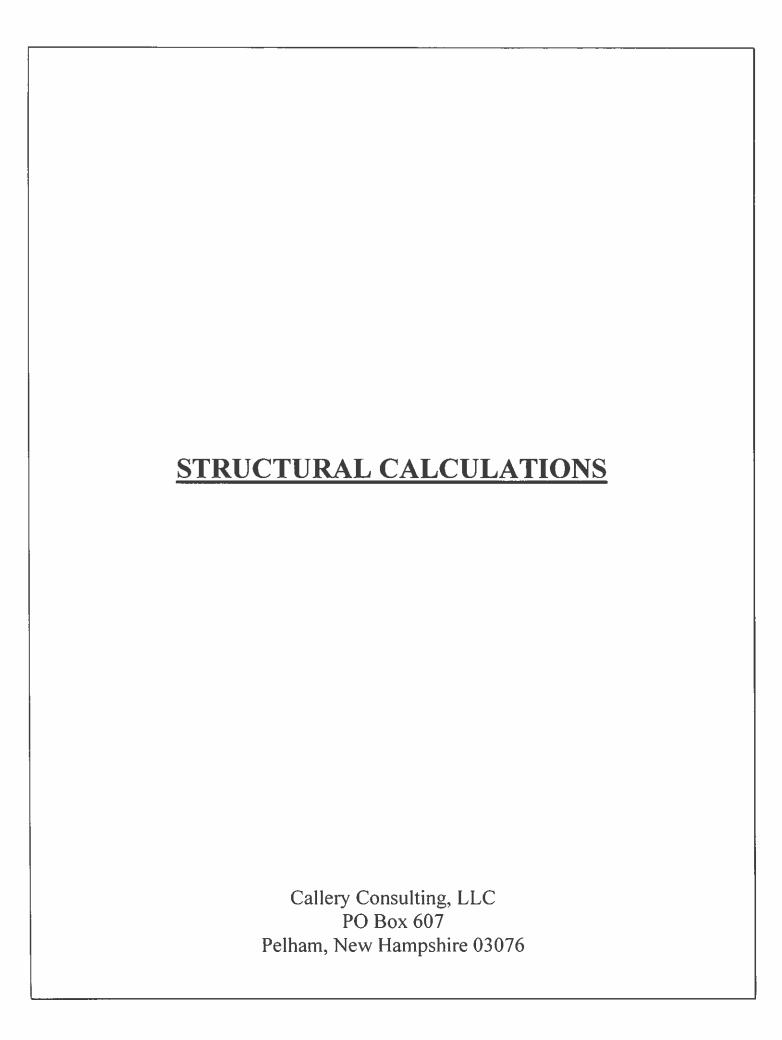






Sent proposal

	Site Review Wor	ksheet	t receive	3/3/ rel it 8/31	
Sales Advisor: En (Kilen)			Address:		
Customer Name: Jilian Bung/ Keuin		133 Main St			
Phone: 603 - 464 - 3127		Plainfield, NH 03781			
		SV Date: 3/3/122 SV Time: 9 am			
Email: jilthegsd@gmail.com Referral:		Soladeck (circle one): Yes (No)			
nerena.					
		dscape (Portrait) Tree Removal: Yes (No) Electric Detail			
Roof Detail Azimuth: 173° Pitch: 22°	Amp Rating: LOU A	Utility: Li herry kWh: 7800 (Get copy of bill)			
Layers of Shingles: N/A	Generator Present: Y	9	If Yes: Sub Panel or Whole House		
Material: Standing Seam meter	Vent pipe need to be move	d? A (M	Ground Conduit Run Ft: N/A		
Is there cell/data coverage? Y (N Conduit Run to Meter Ft: N (A			
Year House Built: 1976'	Main Panel Brand: Siem	ላን	Total Conduit Run Ft: N (A		
Septic Tank/Leach Field Y	*If Fed. Pacific, panel upgra	de must* *Main Breaker needed in panel*			
Send pic of panel label to Alec to get pricing ***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 Conduit Run Satellite Pathfinder Satellite Run Satellite Run Solution Satellite Run Solution Run Satellite Run Solution Satellite Run Solution Satellite Run Solution Solution Satellite Run Solution Satellite Run Solution Satellite Run Solution Solut					
Notes:	557			7)/	
				40 %	
				0	
240					
				77,0	
		-			
6		124			
		138			
A \$25, 50, 50, 60 , 60, 60 , 50, 50	509	1			



v5.01

unportaint. Top and bottom must be laterally supported at supports and at 4-rt max, intervals, typ wane in raminati ons nor curved Glulams, Dynamic loading not considered, Compliant with 2009 - 2003 IBC. All designs should be checked by a competent professional, All users shall comply with State Engineering Law. Injury and / or death can result from improper use of this Job Name Bump, Plainfield, NH Load and Span Diagram (Not To Scale, Pitch, if any, not shown) 150 Beam I.D. 2"x6" rafters @ 24" OC Other Info. Exist. Rafters 100 € 50 Main Span, L = 9.00 ft Load Main Span Max. Allowed Live Deft: L / 180 = 0.60 in 10 Main Span Max. Allowed Total Defl: L / 120 = 0.90 in -50 Cantilever (Overhang) Exists? No _ -100 Pitch if Sloped: 5.0:12 Span (ft) Load Duration JOUS Member? No. Add Self Wt.? O Yes Press Treated? Wet Cond? Temp Cond. For Wood and GluLams Only! Not press treated • 100 deg F & less epetitive Use? THOMAS HAMPSHILL THOMAS Full I andth of Member Reduced Live Uniform Dead Tributary Uniform Live Dead, psf Width, ft Live, psf Load, plf Load, plf Load, off. oof Loads (not including snow) 16 psf 10 psf 2.00 ft 21.7 lb/ft Roof Snow (only) 102.0 lb/ft 51 psf 2.00 ft 102.0 lb/ft (Adj'd for pitch) Floor 3 Loads Floor 2 Loads Floor Loads Wall Dead Load Other 'psf' load and trib, width 2.00 ft 6.0 lb/ft 3 psf 6.0 lb/ft Additional 'plf' Unif. Live Loads. Descrip'n, opt'l: dditional 'plf' Unif. Dead Loads. Descrip'n, opt'l: Load Subtotals 108.0 lb/ft 108.0 lb/ft 21.7 lb/ft e for LL Red'n Total Adjusted Uniform Loads 108.0 lb/ft 21.7 lb/ft W. = W_D = 5.0:12 All other beams Combined Total Uniform Load W. = 129.7 lb/ft 4x And Smaller (Lumber) 5x And Larger (Timbers) Lumber Material Timber Material Spruce Pine Fir Spruce - Pine - Fir Timber Grade Lumber Grade Select Structural Scroll Up **Acceptable Solutions Acceptable Solutions** 2 x 6 (4) 2 x 4 (2) 2 x 5 3 x 6 (3) 2 x 5 4 x 5 List properties for what An asterisk * SIf Wt=0 size lumber? 2x6 indicates a non-List properties Fb=2150 Fv=156 Fcp=425 E=1500000 Sif Wt=0 Fb=0 Ev=0 Fcp=0 E=0 acceptable sol'n. for what size? Final Member Results Final Member | Sawn Wood Bending Overdesign: 3.2% Final Member: 2 x 6, Spruce-Pine-Material Library Choose From All Sizes Of Beam Type Shear Overdesign: 62.9% ₩ Fir, Select Structural Deflection Overdesign: 8.4% Final Size: 2x6 Bearing / Buckling Overdsgn; N/A Min. Bearing Lengths ; = 1.50 in. (Left) : = 1.50 in. (Right) **Use Conditions Selected:** Reot'v Mem. Final member OK by: 3.2% Vert Diff (approx): 3.75 ft True Len (approx): Controlling criteria is: Bending Actual Member Size: 1.50" x 5.50" 9.75 ft Final Member Additional Information Live Case Bracing Reg'd For Reactions Location R - Right Max. Positive Moment, 1,313 ft-lb 4.50 ft Main Span Maximums Full Strength: Max. Negative Moment: 0 ft-lb Lateral bracing Live Load: 486 lb 486 lb 0.00 ft Main Span required at supports Dead Load: 97 lb 98 lb Max Design Shear: 524 lb 0.00 ft Main Span and at 5.92-ft, max. 583 lb 584 lb Main Span Max. Downward Total Load: 4.501 4.50 along member 0.554" / 0.665" Main / Main Deflection (Live / Total) Live Case Causing Max N/A N/A Main Span Max. Upward 0.001/0.001 0.000" / 0.000" Main / Main Deflection (Live / Total) R2 - Right R₁ - Left **Minimums** W/O Mid-Bracing: Cant. Down. Defl. (Live / Tot): N/A N/A N/A Live Load: 0 lb 0 lb N/A 0.6 or 1.0 Dead : 59 lb 59 lb Cant. Up. Defi. (Live / Tot): N/A N/A Bendina Red'n: 3.12E+07 Net Reaction 59 lb 59 lb Reg'd El, Not Incl. Self Wt.: 2.879E+07 Actual EI: 42% Allowed Moment: Live Case Causing Min N/A N/A Approx. Self Weight: N/A Approx. Tot. Wt.: N/A Min. Calc'd Bearing Lengths: = 0.92 in (Left) = 0.92 in (Right) 791 ft-lb







IQ8 and IQ8+ Microinverters

Our newest IQ8 Microinverters are the industry's first microgrid-forming, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC) which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55nm technology with high speed digital logic and has super-fast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the Enphase IQ Battery, Enphase IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to IQ8 Series Microinverters using the included Q-DCC-2 adapter cable with plug-n-play MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations, when installed according to manufacturer's instructions.

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Easy to install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produce power even when the grid is down
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest highpowered PV modules

Microgrid-forming

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) requirements





HIDM

High density MONO PERC module **400W~420W** CS1U-400|405|410|415|420MS

MORE POWER



Maximize the light absorption area, module efficiency up to 20.4 %



Low temperature coefficient (Pmax): -0.37 % / °C



Better shading tolerance

MORE RELIABLE



Lower internal current, lower hot spot temperature



Cell crack risk limited in small region, enhance the module reliability



Heavy snow load up to 5400 Pa, wind load up to 2400 Pa*





enhanced product warranty on materials and workmanship*



linear power output warranty*

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS / KS / INMETRO
IEC 61701 ED2: VDE / IEC 62716: VDE
UNI 9177 Reaction to Fire: Class 1 / Take-e-way









As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

^{*} For detail information, please refer to Installation Manual.