



PLAN DETAILED REPORT PL-ADR-2024-0030 FOR CITY OF CONCORD

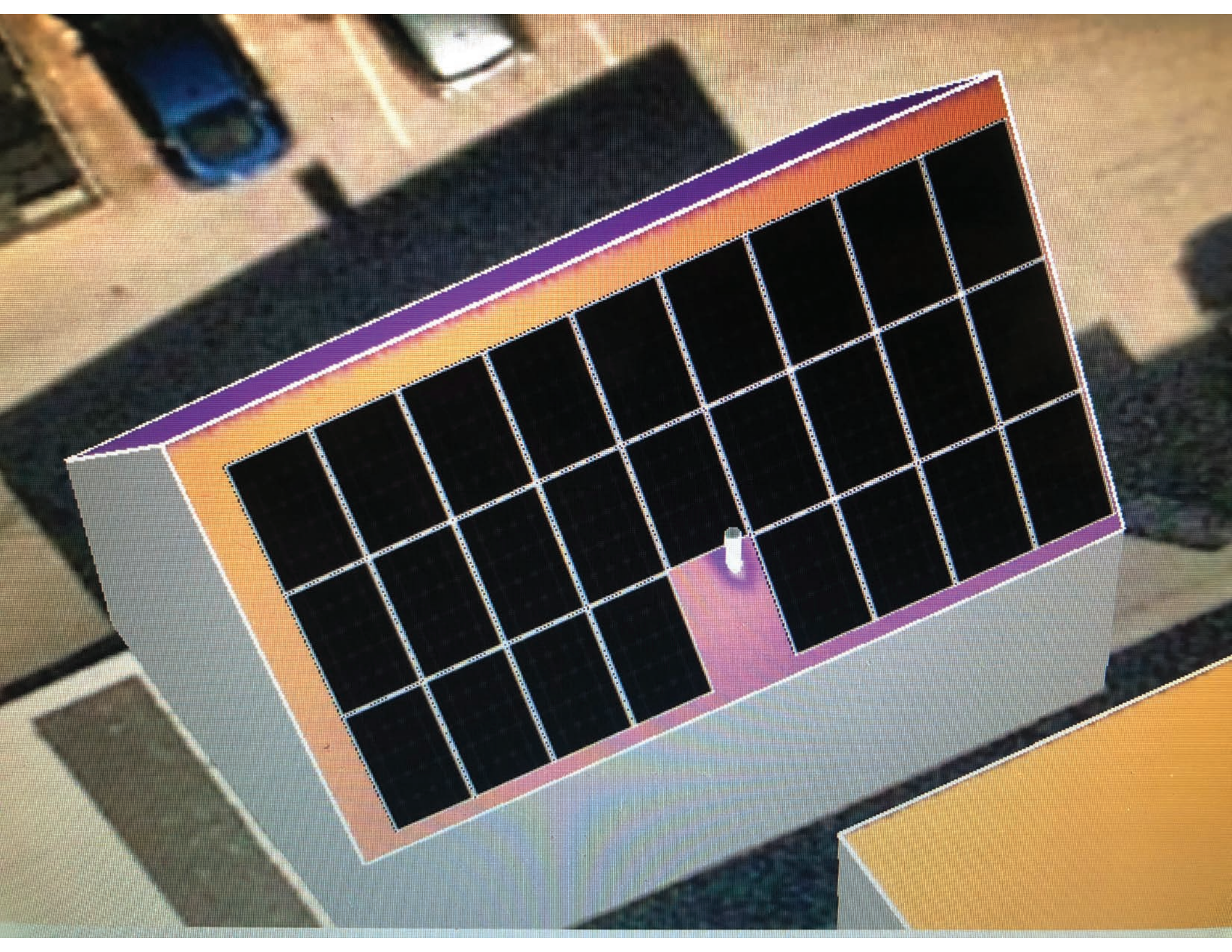
Plan Type: PLAN - Architectural Design Review	Project: 2024-035 41 S Main St ADR	App Date: 05/29/2024
Work Class: Architectural Design Review	District: City of Concord, NH	Exp Date: NOT AVAILABLE
Status: In Review	Square Feet: 0.00	Completed: NOT COMPLETED
Valuation: \$0.00	Assigned To: Alec Bass	Approval Expire Date:

Description: We are Adding a solar array to the roof of the office. I am submitting this, as a just in case. The building and Solar will also be submitted. I do not have some of the forms you asked for. I also do not know if they are needed. I gave you everything we have.

Parcel: 2166	Main	Address: 41 S Main St Concord, NH	Main	Zone: CBP(Central Business Performance Distr
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Applicant/Agent Josh Koehler P.O. BOX 470 Candia, NH 03034 Business: (603) 540-4243 Mobile: (603) 540-4243	Owner Mike Abbott Home: (603) 491-1435
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Invoice No.	Fee	Fee Amount	Amount Paid
INV-00009192	PD - Application Fee - \$150	\$150.00	\$150.00
Total for Invoice INV-00009192		\$150.00	\$150.00
Grand Total for Plan		\$150.00	\$150.00





May 22, 2024

SRSolarNH

PO Box 470

Candia, NH 03034

RE The Abbott Bennett Group LLC Residence

41 South Main st, Concord, NH 03301

Client Project #:41THE

PFE Project #: 242006

On behalf of SRSolarNH, Penn Fusion Engineering LLC (PFE) performed a structural analysis of the roof at the above referenced location. The purpose of our analysis was to determine if the existing roof system is structurally sufficient to support the new photovoltaic modules in addition to the code required design loads. Our analysis is based on the information provided by SRSolarNH and is limited only to the areas where the modules are intended to be placed.

System Specifications

Panel Specs: (26) Hanwha - Q Cells

Racking System: IronRidge - Rails

The modules are to be located on the following roof planes:

Roof Planes						
Mounting Plane	Member Size	Member Spacing	Horizontal Span	Sheathing	Roofing Type	Roofing Layers
1	2x8	16"	9'-9"	CDX 1/2"	Asphalt Shingles	1

Design Criteria		
Building Code(s)	Ground Snow P _g	Wind Speed V
<ul style="list-style-type: none"> ASCE 7-16 Residential Code of New Hampshire 	70 psf	115 mph

Analysis Results			
Mounting Plane	Attachment Hardware	Max Attachment Spacing	Rafter Pass/Fail
1	5/16" lag bolts	48"	Pass

This office has determined that the existing roof as specified above will meet the structural requirements of the above referenced codes in addition to the PV load when installed in accordance with the manufacture's instructions.

If you have any questions regarding this analysis, please feel free to contact us.

Best Regards,
Penn Fusion Engineering, LLC

Andrew D. Leone, P.E.
Principal





Abbott Bennett

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About Benches



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