



10/8/2025

CAROLINA CONNECTIONS, 422 HUFFMAN MILL ROAD, SUITE 105, BURLINGTON, NC 27215

Subject: Structural Certification for Installation of Residential Solar

re job: NANCY SMITH WINTERS, 1000 BAPTIST GROVE RD., FUQUAY VARINA, NC 27526

Attn.: To Whom It May Concern

The existing roof structure information provided to AHZ Consulting Engineers, Inc. was determined as follows. Verification of this information is the responsibility of others

ROOF 1: Metal roofing supported by 2x4 Truss @ 24 in. OC spacing. The roof is sloped at approximately 32 degrees and has a max beam span of 6 ft between supports.

Design Criteria:

Code: 2018 NC Building Code (ASCE 7-10)

Ult Wind Speed: 116 mph

Ground Snow: 15 psf

Exposure Cat: B

Min Roof Snow: NA psf

After review of the field observation report and based on our structural capacity calculations in accordance with applicable building codes, the existing roof framing supporting the for the proposed 26 PV modules. has been determined to be:

ROOF 1: adequate to support the imposed loads. Therefore, no structural upgrades are required.

AHZ Consulting Engineers Inc.
Professional Engineer
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