

December 4, 2020

Evan Becka
President
Pisgah Energy Inc.
53 Asheland Ave, Ste 103,
Asheville, NC 28801

BUNCOMBE COUNTY FIRING RANGE – 2900 RIVERSIDE DR, WOODFIN, NC 28804

Dear Mr. Becka:

At your request, Summit visited the subject property on December 1, 2020. The purpose of the site visit was to observe the existing structural framing systems and their overall condition for support of proposed solar panel assemblies as specified by Pisgah Energy Design & Development.

Original building plans for the subject property were made available to assist in the evaluation. The existing structure is a single-story concrete framed building built circa 2015. The existing roof structural system consists of a flat roof framed with precast concrete double tee beams at approximately 12 feet on center. The existing framing and associated connectors observed at time of inspection were in generally good condition. The proposed solar panels are to be supported on ballasted racks with a total assembly weight of approximately 6 pounds per square foot.

The existing structural framing was evaluated based on Section 402.3 of the *2018 NCSBC Existing Building Code*. Calculations showed that the proposed loading condition does not increase the design gravity load by more than 10 percent. Therefore, the gravity load-carrying structural elements are not required to be strengthened, supplemented, replaced, or altered.

The content of this report represents our professional opinion based on the areas observed at time of inspection. Based on the assessments noted in the previous section, it is our professional opinion that the proposed solar panel assemblies may be installed without any modifications to the existing structural system.

We appreciate the chance to assist you. Please feel free to contact us if you have any questions or require additional information.

Respectfully,

Uchenna Onwuemene, PE
Summit Design and Engineering
Structural Project Engineer

