

PARKER AND WEST ENGINEERING, PLLC

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November 15, 2019

Sunrun Inc.
133 Technology Dr. Suite 100
Irvine, CA, 92618

Re: Structural Certification for Installation of Solar Panels
Sunrun Job Tracking Number: 216R-018ROGE
Client: Marie Roger
Address: 220-18 109TH AVE, QUEENS, NY, 11429

To Whom It May Concern:

A field observation of the condition of the existing framing system was performed by an audit team from Sunrun Inc. From the field observation of the property, the existing roof structure was observed as follows:

- Composite Shingles over roof plywood is supported by 2x6 @ 24" o.c. SPF #2 at ARRAY 1. The rafters are sloped at approximately 34 degrees and have a maximum projected horizontal span of 8 feet between load bearing walls.

Design Criteria:

- Applicable Codes = 2014 NYC Building Code, ASCE 7-05 & 7-10, NDS-05
- Ground Snow Load = 25 psf
- Basic Wind Speed = 98 mph, Exposure Category C.

As a result of the completed field observation and design checks:

- ARRAY 1: It is adequate to support the loading imposed by the installation of solar panels and modules. Therefore, no structural upgrades are required.

I certify that the capacity of the structural roof framing that directly supports the additional loading due to the solar panel supports and modules had been reviewed and determined to meet or exceed the requirements without structural upgrade in accordance with the 2014 NYC Building Code.

Sincerely,



Walid Abdulla, P.E.
Manager
Parker and West Engineering, PLLC

