

## PARKER AND WEST ENGINEERING, PLLC

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February 8, 2023

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

Re: Structural Certification for Installation of Solar Panels  
Sunrun Job Tracking Number: 201R-383BOTR  
Client: FAYEZ BOTROS  
Address: 383 BROOKFIELD AVE, STATEN ISLAND, NY, 10308

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 @ 16" o.c. SPF #2 at ARRAY 1. The rafters are sloped at approximately 19 degrees and have a maximum projected horizontal span of 9 feet between load bearing supports.
- Composite Shingles over roof plywood is supported by 2x6 @ 16" o.c. SPF #2 at ARRAY 2. The rafters are sloped at approximately 19 degrees and have a maximum projected horizontal span of 11 feet between load bearing supports.

Design Criteria:

- Applicable Codes = 2022 NYC Building Code, ASCE 7-05 & 7-10, NDS-05
- Ground Snow Load = 25 psf
- Basic Wind Speed = 117 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.
- ARRAY 2: 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 2022 NYC Building Code.

Sincerely,



Walid Abdulla, P.E.

Manager

Parker and West Engineering, PLLC

