

# Structural Integrity

Consulting Engineers, Inc.

May 8, 2013

Mr. Thomas Moulton  
551 Congress Street LLC  
Portland, Maine 04101

Reference:

RTU Replacement, Condenser Relocation, Added Roof Insulation and Roofing Replacement  
551 Congress Street  
Portland, Maine  
Structural Integrity Job: #13-0056

Dear Mr. Moulton,

As requested, I am writing this memo regarding the structural capacity of the existing roof at 551 Congress Street in regard to the forthcoming insulation upgrade and reroofing as well as the Roof Top HVAC Unit replacement and condenser relocation as proposed for this property.

The opinions expressed are based on limited visual observations during my multiple visits to the site and my knowledge of structures, their components, and the related building codes. No physical testing was performed to determine the adequacy of the complete structural systems. Architectural/life safety conditions are not included in this report. No warranty expressed or implied, as to the condition of the structure, is intended.

The existing roof is constructed with historic sawn rafters, 2 3/4" x 13 1/2" min. at up to 22" on center supported on a steel angle and pockets at the existing brick masonry walls. Based on my calculation I have found the existing rafters are suitable to support the code imposed loads and the roof top equipment proposed.

I have also specifically reviewed the location and installation of the Replacement RTU that is to be installed on the existing curb closest to Congress Street and found the framing supporting the RTU to be adequate.

Do not hesitate to call with any questions, comments, or if I can be of further assistance.

Sincerely,



Aaron C. Jones, P.E., SECB, LEED AP BD+C  
President

