

4 February 2022

Nicholas Solley
Chair, Town of Washington Zoning Commission
Bryan Memorial Town Hall
P.O. Box 383
Washington Depot, CT 06794

RE: Mayflower Inn & Spa – Event Tent
Ambient Noise Measurements

Dear Nicholas,

Following the 24 January 2022 hearing, SH Acoustics (SHA) performed a long-term noise study to quantify the existing background noise levels at the property line separating the Mayflower Inn & Spa and 23 Wykeham Road. This is the neighboring property of focus in the 12 November 2021 Brooks Acoustics Corporation (BAC) report, Subject: Hospitality Tent Acoustical Design.

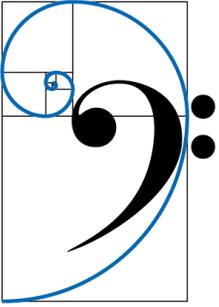
As stated in our 20 January 2022 peer review letter and discussed during the hearing, **assessing the existing sonic ambient environment is a critical step in determining the impact of any noise source.** Best practices and the Regulations of Connecticut State Agencies (RCSA) Section 22a-69-4 dictate that ambient noise levels are to be objectively represented by L90 – a statistical value which is derived from the analysis of long-term measurements of octave band noise levels.

Seeing that BAC had not included this essential analysis in their report, we felt that it would be useful to visit the site and evaluate the ambient environment as a third-party reviewer so that we may speak to its character.

We visited the site on the evening of 30 January 2022. Using instrumentation meeting the requirements set forth by RCSA Section 22a-69-4, we measured the one-third octave band noise levels from 8:30 PM – 9 PM. These measurements and the subsequent statistical analysis yielded an **L90 of 25 dBA.**

It should be noted that this is **extremely quiet.** To that end, the standards set forth by RCSA Section 22a-69-3 for nighttime noise limits and BAC's design goal of 45 dBA do not correlate to a threshold of sound that would be inaudible or undistruptive to the neighboring properties.

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SH Acoustics

The 20 dBA level differential between these criteria and the existing ambient noise levels is objectionable. Moreover, while we doubt the feasibility of achieving the resultant noise level of 35 dBA predicted by BAC, the noise would still be plainly audibly and disruptive at that level.

This concludes our comments at this time. Please do not hesitate to reach out with any additional questions or comments you may have.

Kind regards,

A handwritten signature in black ink that reads "Peri Chain". The signature is fluid and cursive, with the first name "Peri" and last name "Chain" clearly distinguishable.

Peri Chain
Acoustic/Audio Consultant