

## MEMORANDUM

**DATE:** September 9, 2025

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**SUBJECT:** Application #2025-0287 - Wake Robin Inn  
Response to BAC Letter 9/8/25

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### BAC 9/8/2025 Wake Robin Inn – Aradev / Tocci material errors

The following responds to comments made in BAC letter dated 9/8/2025 to the Town of Salisbury Planning and Zoning Commission (PZC).

- Mr. Tocci used a sound power level of 95 dBA (PWL) for the sound inside the Event space.

Cavanaugh Tocci report dated April 28, 2025 only mentioned 95 dBA sound pressure level not sound power level. The appropriate characterization of music sound in the event space is sound pressure level in dB re: 20  $\mu$ Pa as has been used in our computer modeling.

Cavanaugh Tocci report dated September 2, 2025 on page 3 provides a spectrum mislabeled as sound power when in fact it is, and has been used as, sound pressure level in dB re: 20  $\mu$ Pa. The BAC letter should be revised to reflect this correction.

- The Cavanaugh-Tocci criteria

The Cavanaugh Tocci Inter Noise 2002 paper was for outdoor music venue sound transmitted to residential outdoor areas, and is a measurement method for evaluating outdoor concert sound. Its use in a paper study looking to the future instead of the present requires a computational method BAC has not mentioned, but that is available in a 1975 Journal of the Acoustical Society (JASA) paper by Kessler and Gottlieb. However, the method employed by Cavanaugh Tocci for defining a design goal for music sound is more widely used.

- Use of ambient sound +5 modifier with  $L_{90}$

The method employed by Cavanaugh Tocci in its use of the  $LAF_{90,1-hr}$  to evaluate the ambient then adding a margin of 5 dB to arrive at a design goal for music at the WRI property line is conventional for determining reasonable levels of music sound within the hours of operation proposed by WRI. Cross-Spectrum Acoustics consultant to the PZC generally concurs with this approach.

- Noise from the vehicles in the parking lots

The BAC letter states: “Neither the Applicant nor the Mr. Singleton) have seriously addressed the issue of noise from the vehicles in the parking lots. This is not true. The BAC premise is that 10 cars start and

travel simultaneously is implausible; it doesn't make sense. Moreover, an is the observation made by Cross-Spectrum Acoustics that event parking lot sound has not been observed to be a source of noise in consistent with the environment. Moreover, the nearest parking lot location is 120 feet away from the nearest residence, not 50 feet as indicated in the BAC letter.

CAVANAUGH TOCCI



Gregory C. Tocci, *Sr. Principal Consultant*

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