



Feature S01: Sound Mapping

Part 1: Manage Background Noise Level

WELL v2™ pilot
Q1 2020 addenda

How to use this document:

This document is intended to serve as a guide on how to create educational materials required for Part 1: Manage Background Noise Level of Feature S01: Sound Mapping. This document is meant to demonstrate an acceptable degree of detail for a documentation submission. The level of detail is up to the discretion of the project team, as long as Part 1a or 1b are sufficiently addressed.

- Part 1a: Instructions for annotating an architectural drawing have been provided.
- Part 1b: A professional narrative outline with relevant examples has been provided.

Note: The variable items are highlighted in yellow throughout the document.

The text is updated to the Q1 2020 version of WELL v2 pilot, which may vary from future versions of WELL v2.

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FEATURE S01: SOUND MAPPING

<< SELECT ONE OF THE BELOW, PART 1a or 1b >>

PART 1a: MANAGE BACKGROUND NOISE LEVEL ARCHITECTURAL DRAWING INSTRUCTIONS

- A. Procure an MEP layout drawing (preferably the most recent issuance that includes furniture layout).
- B. Clearly indicate or label all regularly occupied spaces including, but not limited to, those noted in Feature S02 (e.g., enclosed offices, conference rooms, open workspaces, dwelling units, classrooms, etc.).
- C. Clearly indicate or label all mechanical equipment, appliances, building services, and other devices that generate noise. The projected level of noise at the equipment should be labeled, if known. This information can be obtained from the product manufacturer.
- D. Identify diffusers, return air grilles, and other connections between spaces and the mechanical equipment that serves them. The projected level of noise or sound ratings of these components should be labeled, if known.
- E. Sources of typical external noise (e.g., industrial, building services, transportation, pedestrian, music, or similar) should be identified and labeled if the project team deems these sources of noise to be significant enough to increase the background noise level within the project boundary. If possible, indicate the projected noise level impact on interior locations.

PART 1b: MANAGE BACKGROUND NOISE LEVEL EXAMPLE PROFESSIONAL NARRATIVE

Example 1b.1: A Benchmarking Report by an Acoustical Consultant

Background Noise Level:

In order to assess the level of impact of HVAC equipment noise, external noise intrusion or a similar source on the overall background noise level throughout the project boundary, the project's Acoustical consultant, <<INSERT COMPANY>>, took measurements on-site and the results are as follows:

<i>Locations Measured</i>	<i>Background Noise Level (dBA)</i>
<i>Open Office (South West)</i>	<i>dBA ≤ 55</i>
<i>Open Office (West)</i>	<i>dBA ≤ 55</i>
<i>Private Office 1</i>	<i>dBA ≤ 50</i>

<i>Executive Office</i>	<i>dBA ≤ 50</i>
<i>Conference Room</i>	<i>dBA ≤ 45</i>

Example 1b.2: Noise Level Projections Report by an Acoustical Consultant

The project's acoustical consultant, <<INSERT COMPANY>> developed the following projections of background noise levels to align with Feature S02: Maximum Noise Levels. These are attributed to internal and external sources of noise, such as planned mechanical equipment systems and projected acoustical performance of windows/building envelope. The following report also includes recommendations on how to improve the acoustical performance across facade elements, such as windows.

Locations Measured	Projected Background Noise Level (NC)	Reasoning for projection	Recommendations to improve acoustical performance
SPACE 1	NC ≤ XX	INSERT	INSERT, WHERE APPLICABLE
SPACE 2	NC ≤ XX	INSERT	INSERT, WHERE APPLICABLE
SPACE 3	NC ≤ XX	INSERT	INSERT, WHERE APPLICABLE
SPACE 4	NC ≤ XX	INSERT	INSERT, WHERE APPLICABLE
SPACE 5	NC ≤ XX	INSERT	INSERT, WHERE APPLICABLE