

AVANTACOUSTICS®

GRANDVIEW SHOOTING RANGE

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OBJECTIVES

- Compare the noise levels associated with firing activity at the new range with the noise levels associated with the old range.
- Reduce the noise levels from the new range to a level consistent with the old range.

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OLD RANGE CHARACTERISTICS

- 50-yard range.
- Earth berm at target end of range.
- Canopy/building at firing end of range.
- Earth berms around the range.

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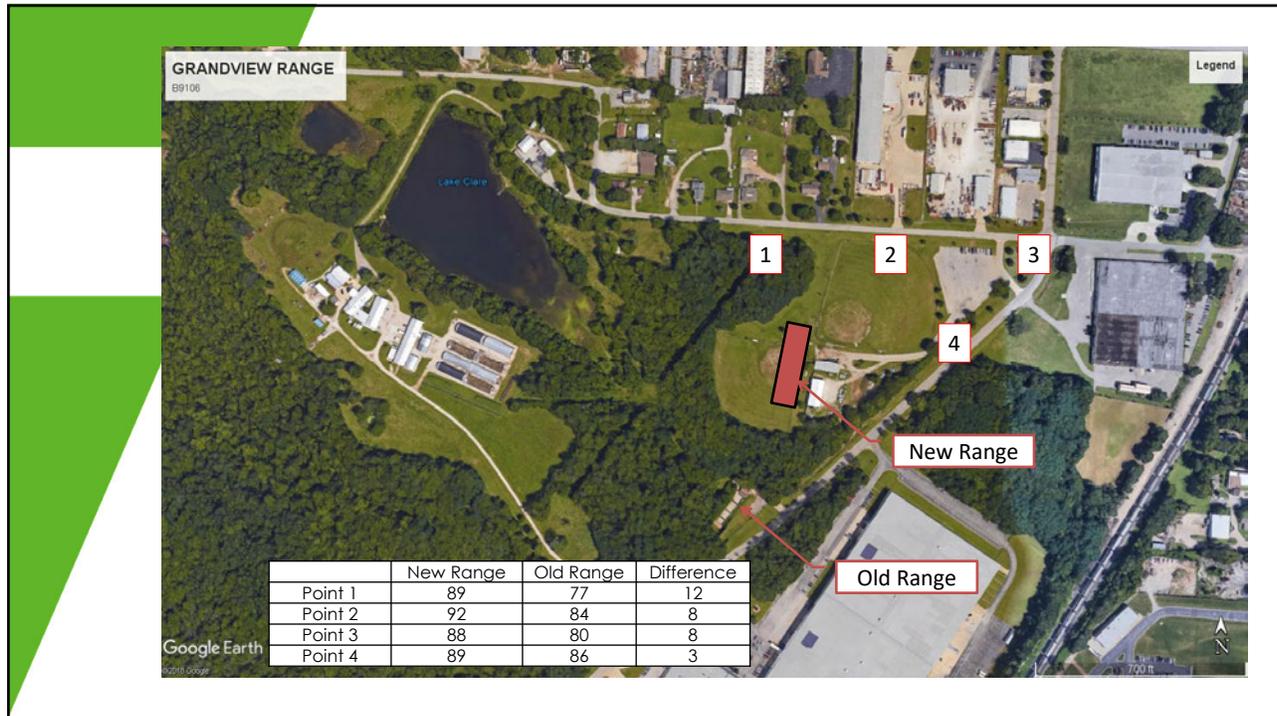
NEW RANGE CHARACTERISTICS

- 100-yard range.
- 10-ft concrete sidewalls.
- 10-ft earth berm with 20-foot concrete wall at target end of range.
- Canopy at the 100-yard firing line.

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RECOMMENDATION #1

- A new 12-ft high barrier constructed on the north end of the range.
- Anticipated Result: Reduction of 8 to 10 dB at the north property line.

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RECOMMENDATION #2

- Add acoustical absorption to the concrete wall behind the firing line.
- Anticipated Result: Reduction of 2 to 3 dB at the north property line.

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RECOMMENDATION #3

- Add acoustical absorption to the sidewalls of the range.
- Anticipated Result: Reduction of 2 to 3 dB towards the east and west.

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RECOMMENDATION #4

- Add acoustical absorption to the front and rear of the baffles.
- Anticipated Result: Reduction of 2 to 3 dB towards the north and south depending on the location of firing.

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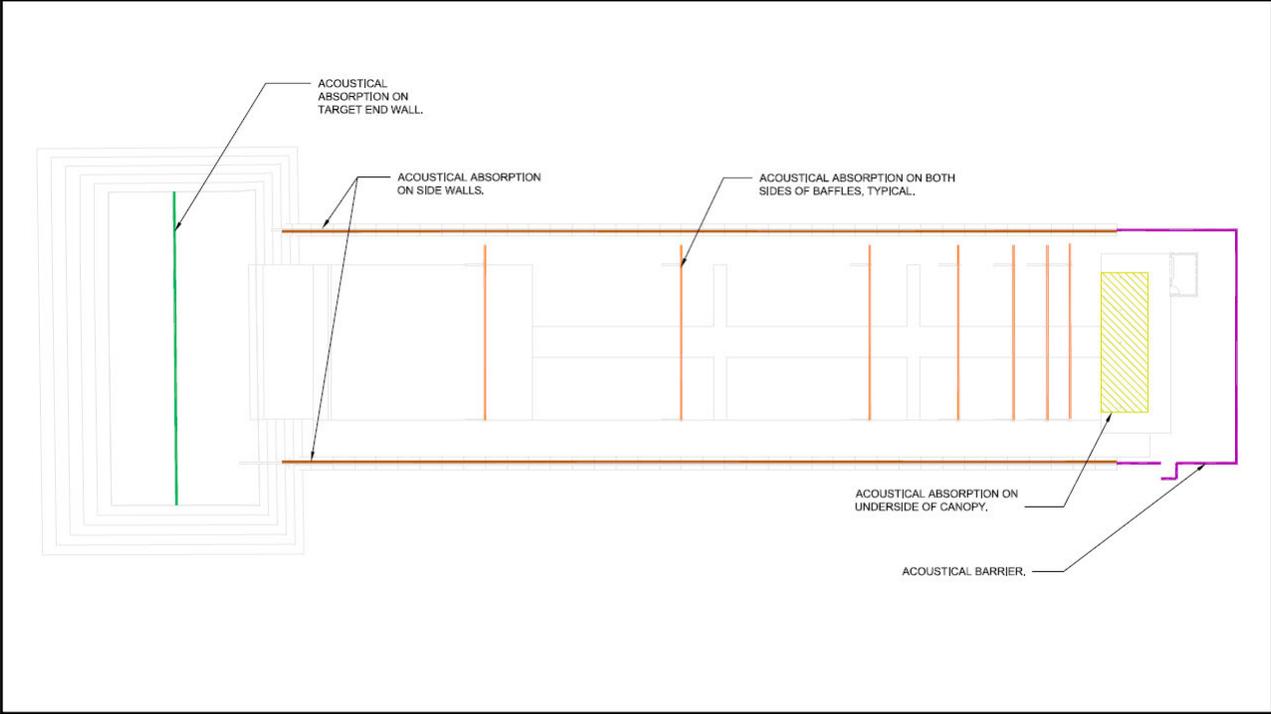
RECOMMENDATION #5

- Add acoustical absorption to the underside of the canopy.
- Anticipated Result: Reduction of 2 to 3 dB towards the north and south as well as a reduction of built-up noise at the 100-yard firing line.

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QUESTIONS?

