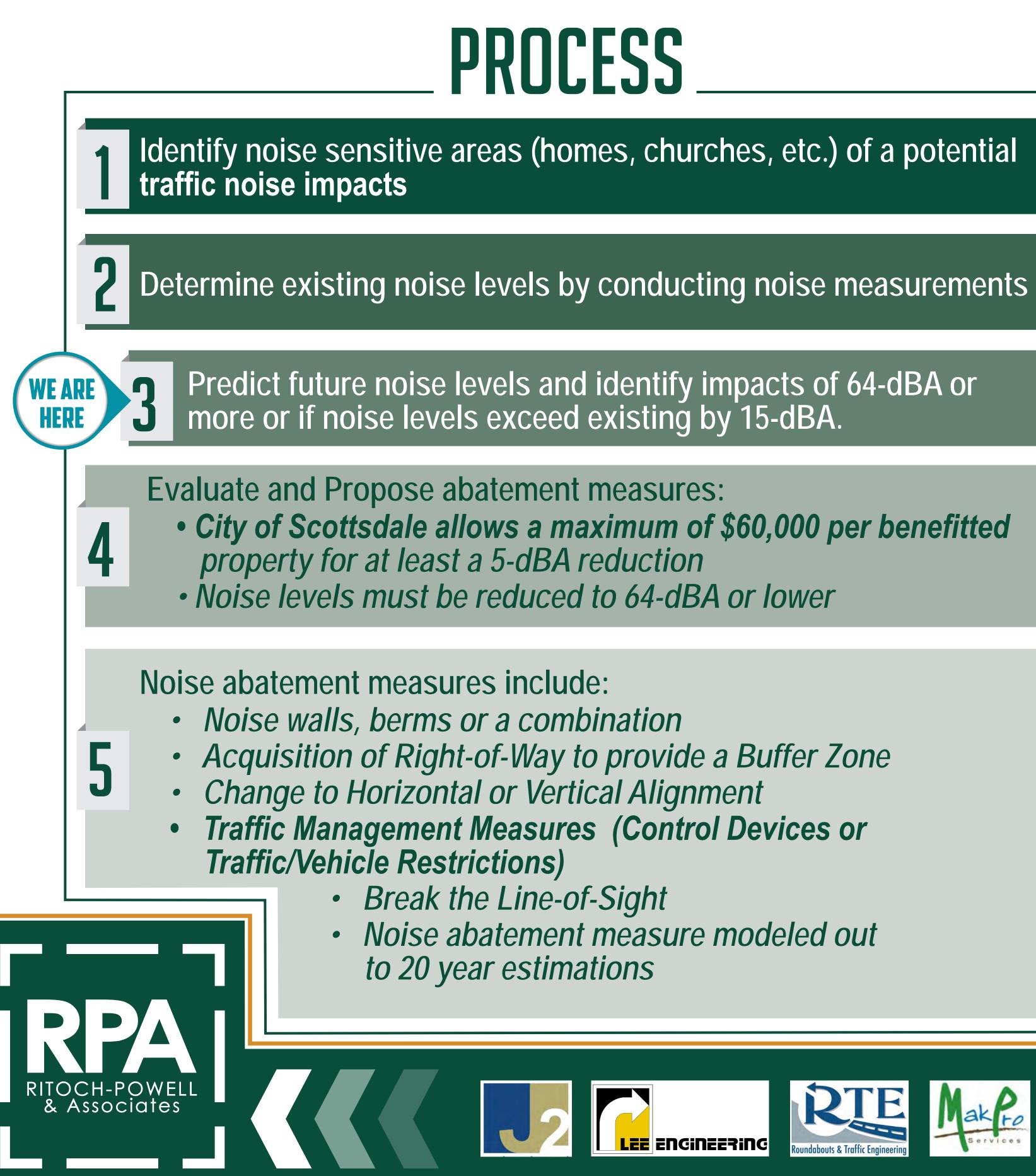
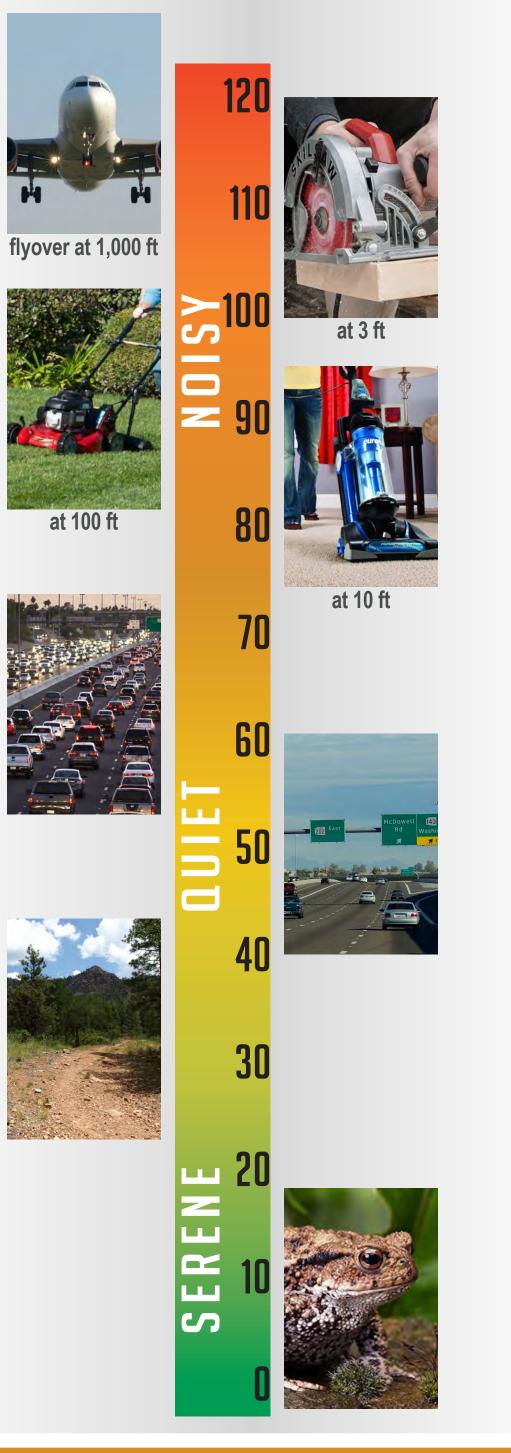
### CITY OF SCOTTSDALE



# Happy Valley Road

## NOISE ANALYSIS

### **COMMON INDOOR & OUTDOOR NOISE LEVELS**











**NOISE SOLUTIONS** 

- Barriers are designed to reduce noise to an acceptable or tolerable level.
- Noise barriers along a roadway are most effective for homes within about 300 feet of the closest travel lane.
- Noise walls range in height from 8 to 20 feet, depending on what height is needed to reduce the noise to an acceptable level.
- An earth berm (a large mound of packed dirt usually with landscaping) will provide slightly more noise reduction than a vertical barrier wall of the same height.
- Vegetation is another noise reducing element. Typical roadside landscaping does not affect noise levels.
- A noise barrier that breaks the line of sight between the source (traffic) and the receiver (residents) reduces noise by approximately 5-dBA. Each additional foot of height reduces the noise level by another half decibel.

