

## Case Studies –Condominium Generator and Roof Fans

Luxury Condominium - Miami Beach Area

Beach front property

Expansion of historic buildings

Busy street

Very high expectations of residents (no sonic disturbances at all)

### Noise complaints about music by residents near commercial district

- Restaurants
- Night clubs

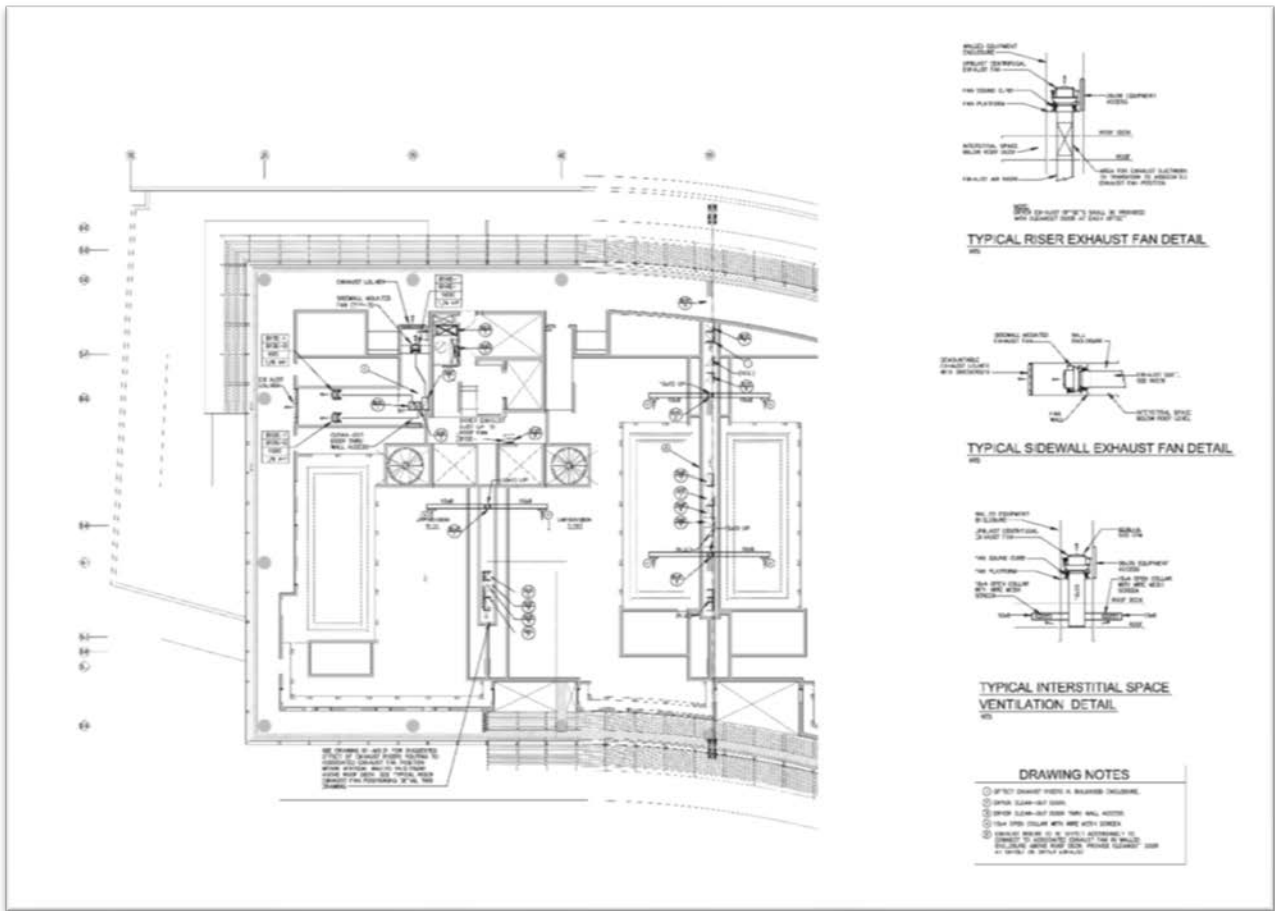






#### Luxury Condominium

- Very high expectations of residents
- Roof top lap pools located next to ventilation fan chases
- Emergency generator tested weekly
- Goal is to make equipment inaudible to occupants

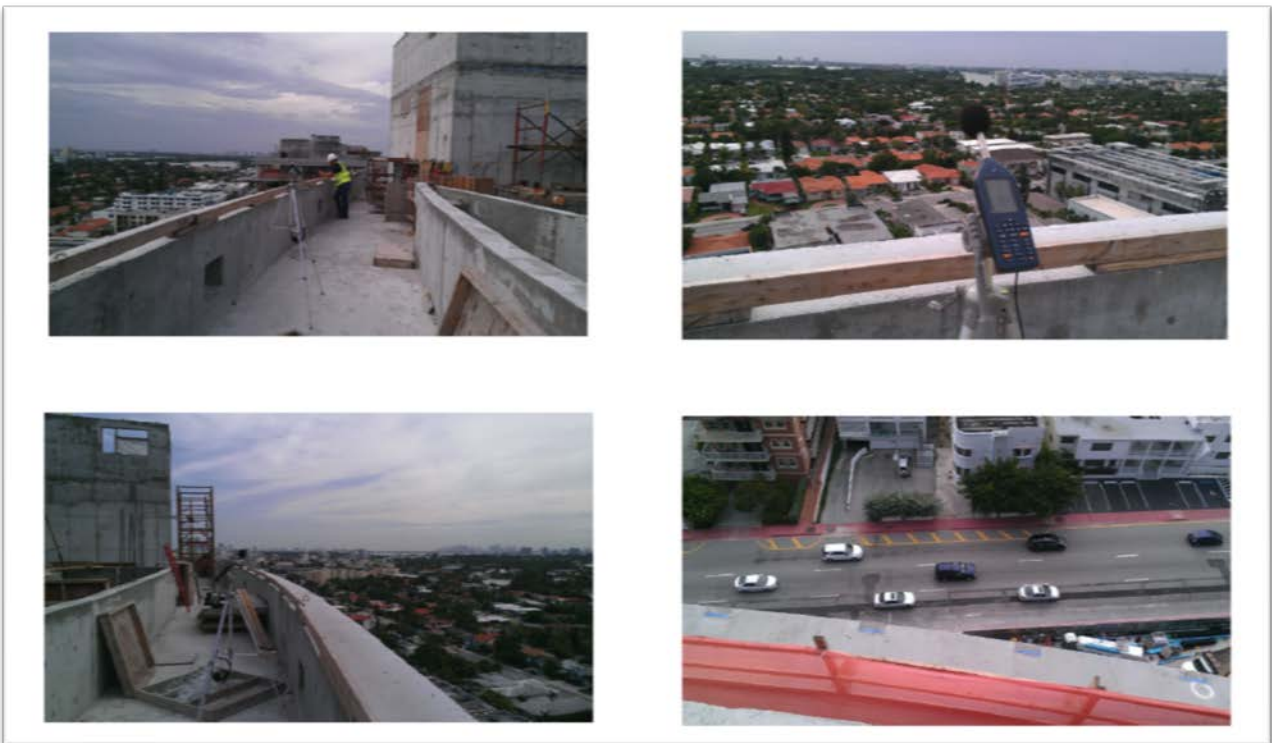


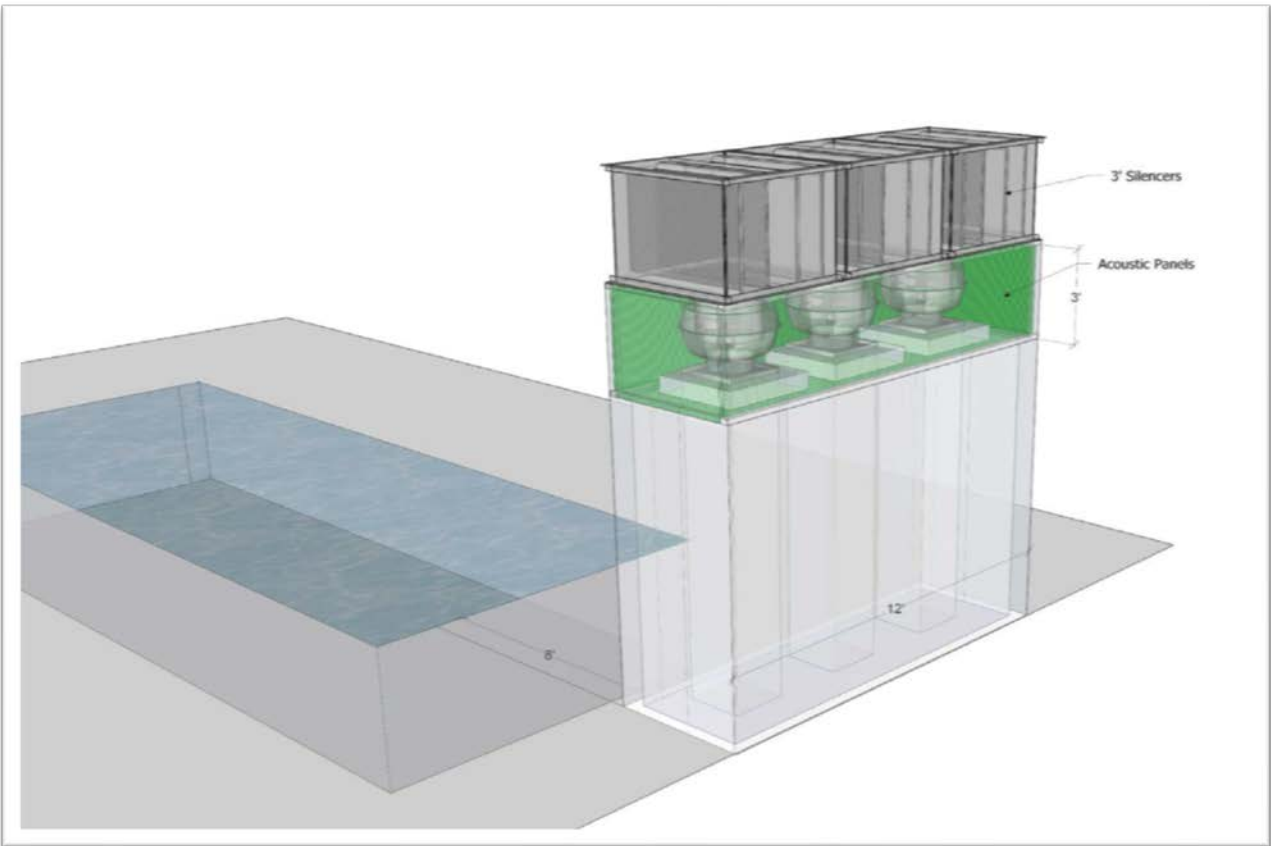




### Background Sound

- Measured traffic noise during rush hour
- Designed noise control devices to reduce sound level of equipment below BG

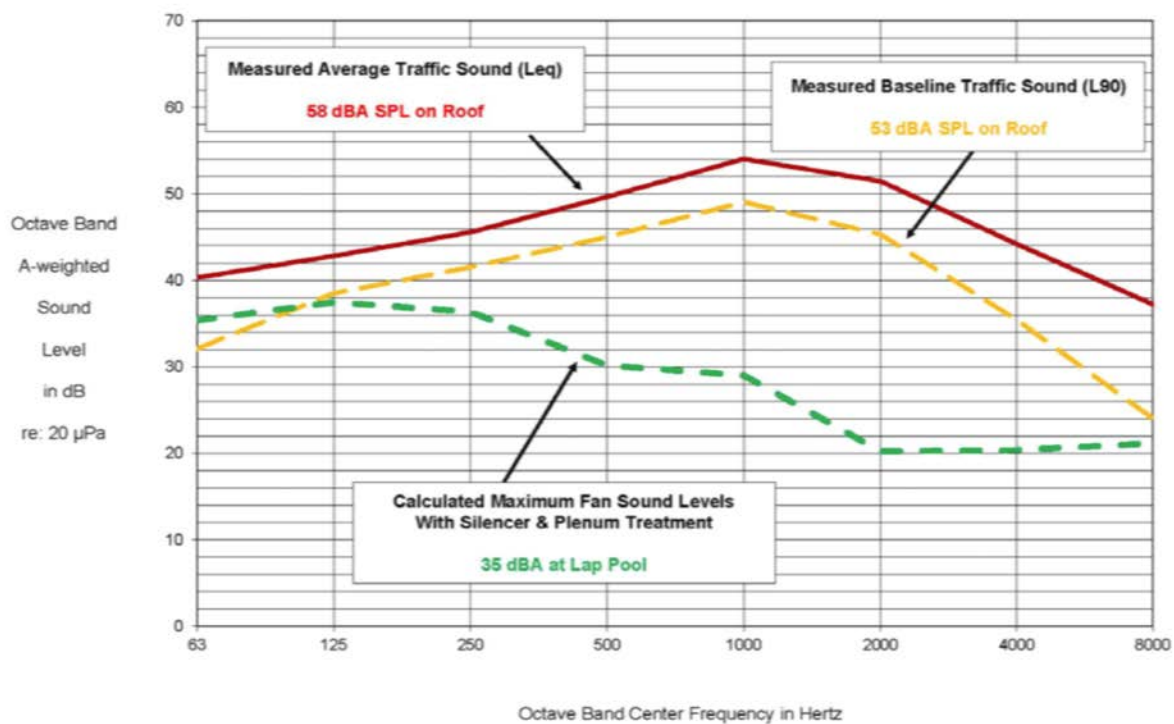




Marsh PMK  
Surf Club  
Surfside, FL

### Background Sound Compared to Roof Fan Exhausts

Greenheck Roof Fans  
Sound Levels at Lap Pool



BAC Comparison Graph OB-1

