

## Contact PNV:

### Office Address:

5216 Chairmans Court, Suite 107  
Frederick, Maryland 21703  
Phone: 301-846-4227 Fax: 301-846-4355

Email: [info@phoenixnv.com](mailto:info@phoenixnv.com)

Website: [www.phoenixnv.com](http://www.phoenixnv.com)

### Areas of Concentration:

#### Acoustics

- Theatre/Auditorium Design
- Board Rooms

#### Transportation

- Traffic & Railway Noise Modeling
- Airport Noise Modeling
- Indoor and Outdoor Mitigation Design

#### Testing & Measurement

- Field STC & IIC
- Transportation Analysis
- Acoustical & Vibration Testing

#### Environmental Noise

- Impact Assessment
- CadnaA Modeling

#### Multifamily Buildings

- STC and IIC Specification
- HVAC Noise & Plumbing Noise

#### Mechanical

- Emergency Generators
- HVAC Units
- Chillers, AHUs

#### Vibration

- Measurements
- Structural Modeling

#### Research/Medical Facilities

- Mechanical Vibration
- Traffic Vibration
- Footfall Vibration

Licensed Professional Engineers in VA and MD

### Member:

Acoustical Society of America (ASA)  
Institute of Noise Control Engineers (INCE)  
National Council of Acoustical Consultants (NCAC)  
National Society of Professional Engineers (NSPE)  
U.S. Green Building Council (USGBC)



Working to develop better acoustical environments in living and work spaces by providing services to Architects, Engineers, Land Developers, and Zoning Attorneys

**Room Acoustics**—Whether auditoria, board rooms, or recording studios, Phoenix Noise & Vibration (PNV) provides design services to optimize the acoustical characteristics of the intended space.

**Transportation**—PNV designs noise control systems for transportation sources including highways, railways, and airports. We maintain the latest software version of FHWA's Traffic Noise Model (TNM) and have developed in-house software to design building shells for outdoor-to-indoor noise reduction.

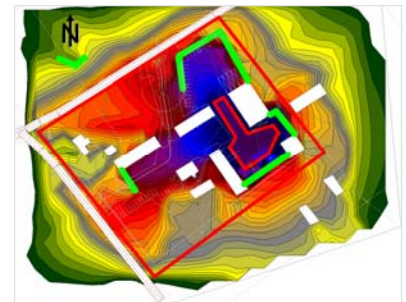
**Mechanical**—PNV analyzes and designs systems for both interior and exterior noise and vibration control, including offices and multi-family buildings.

**Multifamily Buildings**—We provide consultation in the construction of multifamily structures to minimize the transmission of noise and vibration from unit to unit. We specialize in STC and IIC designs to meet BOCA and IBC regulations and provide solutions for problematic plumbing and HVAC noise.

**Research Facilities**—PNV works with architects and structural engineers to design multi-story research facilities and hospitals with low vibration levels. We offer vibration screening of existing rooms planned for housing sensitive instrumentation such as electron and surgical microscopes.

**Testing & Measurement**—We offer on-site acoustical and vibration measurement services according to ANSI, ASTM, BOCA, IBC, and ISO standards.

**Computer Aided Design and Modeling**—Using AutoCAD LT, we are able to receive, produce, and digitally transmit drawings, plans, and details. Modeling with CadnaA (see figure below) allows us to accurately calculate environmental noise impact from a variety of sources.



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### Areas of Concentration:

#### Research Facilities

- Mechanical Vibration
- Traffic Vibration
- Footfall Vibration

#### Transportation

- Traffic Noise Modeling
- Noise Barrier Design
- Building Shell Analysis

#### HVAC

- Emergency Generator
- Rooftop HVAC Units
- Chillers
- AHU

#### Multi-Family Buildings

- STC and IIC Specification
- Plumbing Noise
- HVAC Noise

#### Testing & Measurement

- Reverberation Time
- Field STC & IIC
- Transportation
- Vibration

Licensed Professional Engineers in VA and MD

#### Member:

ASA - Acoustical Society of America

INCE - Institute of Noise Control Engineers

NCAC - National Council of Acoustical Consultants

USGBC - U.S. Green Building Council

NSPE - National Society of Professional Engineers



# Vibration Problems?

# PHOENIX

noise & vibration

**Working to eliminate noise and vibration in research facility spaces by providing services to Architects, Engineers, Research Firms, and Property Managers**

**Research Facilities**—Phoenix NV works with architects and structural engineers to design multi-story research facilities and hospitals with low vibration levels. We offer vibration screening of existing rooms planned for housing sensitive instrumentation such as electron and surgical microscopes.

**Transportation**—We design noise control systems for transportation sources including highways, railways, and airports. We maintain the latest software version of FHWA Traffic Noise Model (TNM). Phoenix NV has developed in-house software for design of building shells for outdoor-to-indoor noise reduction.

**HVAC**—PNV analyzes and designs systems for both interior and exterior noise and vibration control, including office and multi-family buildings.

**Multi-Family Buildings**—We provide consultation in the construction of multi-family structures to minimize the transmission of noise and vibration from unit to unit. We specialize in STC and IIC designs to meet BOCA and IBC regulations as well as plumbing and HVAC noise control.

**Testing & Measurement**—PNV offers on-site sound and vibration measurement services according to ANSI, ASTM, BOCA, IBC, and ISO standards.

**Computer Aided Design**—Using AutoCAD LT, we are able to receive, produce, and transmit drawings, plans, and details digitally.

**CadnaA**—Computer modeling—CadnaA accurately calculates environmental noise impact.

