

## **GREENBUSH COMMUTER RAIL DESIGN/BUILD**

Massachusetts Bay Transportation Authority  
Suburban Boston, MA



### **PROJECT DESCRIPTION**

Acentech provided noise and vibration mitigation design for this challenging design-build project. We performed:

- Railway noise and vibration measurements
- Detailed noise barrier and ballast mat design and specification
- Special noise and vibration mitigating trackwork specifications
- Review of vendor product data and test reports
- Review of Final Environmental Impact Report (FEIR) requirements and associated town agreements
- Analysis of rail tunnel ventilation design noise impacts
- Reanalysis of noise and vibration impacts for proposed project changes
- Construction noise and vibration monitoring and control
- Public participation meetings and presentations
- Coordination with design/build team members regarding noise and vibration mitigation element design (station and landscape architects, structural and civil engineers, project environmentalists, project quality assurance specialists, and agency staff and officials)

Acentech used such advanced analysis and design tools as three-dimensional computational noise models for rudimentary mitigation designs set forth in the FEIR. We were key in providing critical expertise to both the project engineer and project builder. As a result, all performance and aesthetic requirements established in the FEIR and all associated municipal agreements were met at the lowest practical cost.

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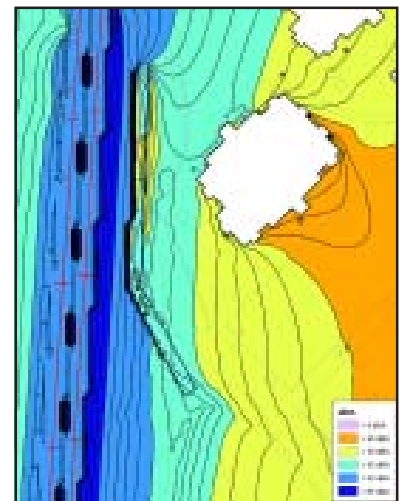
# *Acentech*

### **CONSULTING SERVICES**

- Data analysis
- Noise modeling
- Public participation
- Noise and vibration measurements and mitigation design

### **REFERENCE**

Mark Pelletier, P.E.  
STV Incorporated  
321 Summer Street  
Boston, MA 02210  
(617) 303-1113



Computer analysis for proposed noise berm.