

PROJECT PROFILE: OFFICE BUILDING



PROJECT: NORTHWESTERN ENERGY OFFICE
Butte, Montana

Committed to uptown Butte, NorthWestern Energy's new 5-story headquarters building for was built at the corner of Main and Park. The building was designed using sustainable building strategies with energy efficiency as a priority. To enhance the NorthWestern operations, BSA was an integral member of the design team providing Room Acoustics and Sound Isolation design services, to help ensure office functionality and productivity.

BSA's SERVICES AND SOLUTIONS:

- Developed Room Acoustics design guidelines to control reverberation and echoes in the Auditorium, Education Center, Lobby, Training Room and Board Room.
- Developed computer models of each space to predict the reverberation time, analyze the acoustical characteristics, and determine the appropriate acoustical treatments to control overall noise levels and enhance speech intelligibility.
- Determined sound-absorbing ceiling and wall panel design options, and the location, type and quantity of the required acoustical treatments. Provided the Architect numerous product choices.
- Completed Sound Isolation design services to control the transmission of airborne sound between spaces, and determined sound transmission class (STC) goals based on adjacent uses.
- Recommended wall and floor-ceiling constructions between noise-sensitive rooms.
- Determined appropriate operable partitions, doors and interior glazing assemblies to maintain the sound isolation characteristics of the wall constructions.
- Collaborated with the Architect throughout the design process to incorporate the acoustical design specifications.