

Big Sky Acoustics, LLC

PROJECT PROFILE: **TRAFFIC NOISE STUDY**



PROJECT: BROADUS INTERCHANGE
Miles City, Montana

The Montana Department of Transportation (MDT) is planning to reconstruct the Broadus Interchange along I-94. BSA completed a traffic noise study to evaluate existing traffic noise levels at receptors, and predict future noise levels of either signalized or roundabout on-ramp/off-ramp intersections in the interchange design.

BSA's SERVICES AND SOLUTIONS:

- BSA identified 11 adjacent noise-sensitive receptors including residences, hotels and restaurants.
- BSA completed three noise level measurements to determine the existing noise levels, and verify that the Traffic Noise Model (TNM) computer models were accurate.
- BSA evaluated traffic noise level impacts for the No Build Alternative and the signalized and roundabout Build Alternatives.

- Traffic noise impacts were evaluated by comparing the predicted traffic noise levels in the Design Year to the calculated No Build noise levels in the Present Year.

No traffic noise impacts were predicted for either the signalized or roundabout designs, and therefore, mitigation for traffic noise was not required.

