

Noise

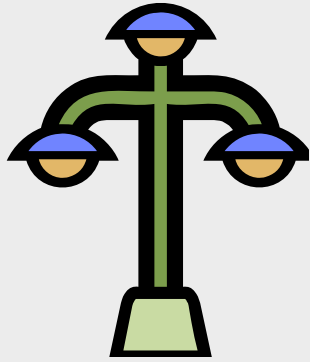
The Bogard Road Extension project will not use Federal Highway Administration (FHWA) funding, and therefore, the FHWA noise abatement regulations do not apply. However, the Borough is committed to incorporating feasible and reasonable mitigation measures into the Bogard Extension project to minimize noise impacts to the extent practicable.

The FHWA and DOT&PF guidelines will be used to develop a noise impact analysis and to help determine appropriate mitigation in locations where the analysis indicates it is warranted.

According to DOT&PF's Noise Abatement Policy, the two relevant criteria to consider when identifying and evaluating noise abatement measures are feasibility and reasonableness.

- Feasibility deals primarily with engineering considerations (i.e. Is the ability to achieve noise reduction limited by factors such as topography, access requirements, the presence of local cross streets, or other noise sources in the area?) A proposed noise barrier, which will not achieve a minimum of 5 decibels of attenuation (positive noise benefit) under given conditions, is generally not considered to be feasible.
- Reasonableness is a more subjective criterion than feasibility. Reasonableness is based on a number of factors, such as the following:
 - Amount of noise reduction provided,
 - Number of people protected,
 - Cost of abatement,
 - Views of impacted residents,
 - Future absolute traffic noise levels,
 - Difference between the future traffic noise levels and the existing noise levels,
 - Difference between future traffic noise levels for the build and the no-build alternative,
 - Amount of development that occurred before and after the initial construction of the highway,
 - Extent to which zoning or land use is changing, and
 - Effectiveness of land use controls implemented by local officials to prevent incompatible development.

DOT&PF's 1996 Noise Abatement Policy is available for review on DOT&PF's website at:
<http://www.dot.state.ak.us/stwddes/dcsenviron/resources/noise.shtml>



Roadway Lighting and Light Pollution

Improved visibility and safety are among the primary reasons to have street and roadway lighting. A common concern of lighting is “light pollution” or misdirected light.

Residents want to know that the lighting design will minimize impacts into their neighborhoods. The Borough will implement lighting practices that favor reduction of light pollution. Light pollution reduction measures will include:

- Consideration of the surrounding area during the lighting design, and selection of luminaires, locations, and orientations that minimize trespass light onto adjacent properties.
- Selection of luminaires that control the intensity (candela) distribution.
- Installation of full cut-off fixtures that shine downward with no lighting emitted above the horizontal elevation of the lamp.



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Bogard Road Extension East

Kristi Stuller
DOWL Engineers
809 South Chugach Street, Unit 4
Palmer, Alaska 99645