Project Objectives

Project Description

Current Noise Environment

☐ Table(s) preferred **Noise Impacts of Alternatives**

☐ Table(s) preferred

design features.

Type 1 Trigger for Noise Analysis

including:

Noise Relevant Project Information

Number of lanes

guardrail)

Executive Summary ☐ Brief summary of project ☐ SR, MP limits jurisdiction vicinity ☐ Action triggering Type1 study ☐ Brief summary of adjacent land uses ☐ Brief summary of current impacts, if any ☐ Brief comparison of Build vs. No-Build impacts Abatement (Recommended/Not Recommended) ☐ If abatement is recommended - brief summary of wall(s) heights and general alignments ☐ If not recommended - why abatement is not recommended Introduction ☐ Typically provided by the project office, but can be summarized to include only relevant ☐ Vicinity map, including project area and state map reference maps comparing alternatives (if applicable). Typically provided by PEO and can be used for Exhibit 1 ☐ Description of Type 1 activity on this project ☐ List of items relevant to traffic noise analysis for existing, No-Build, and Build conditions, Type of roadway (elevated, depressed, at-grade) Changes to existing access Travel speeds (existing and posted) Year for Existing and Build/No-Build conditions o Project design elements that may reduce future noise levels (e.g. crash barriers vs.

Characteristics of Sound and Noise

Definition	of Sound	
	General description of sound and dBA/dB(A) metric	
Definition of Noise		
	General description of noise	
Traffic Noise Sources		
	General description of traffic noise and noise sources	
Exhibit 1: Typical Noise Levels		
	Example of noise sources to understand relative levels of traffic noise	
Sound Propagation		
	General description of sound propagation, line-of-sight, and terrain	
	affects\ Line and Point Sources	

Operational Traffic Noise

☐ Clearly describe the number of traffic noise impacts in Existing, No-build, and Build conditions for each alternative

Existing Noise Levels

Noise Discipline Report Checklist - September 2013 ☐ Summary description of Existing conditions, including impacts and other relevant information Design Year Traffic Noise Levels - No-Build ☐ Describe the general effect of not building the project on future traffic noise levels and compare design year No-Build to existing noise levels. Design Year Traffic Noise Levels -Build ☐ Describe how/why the Type 1 activity effects traffic noise levels in general terms and compare design year Build to existing noise levels. **Traffic Noise Abatement** Traffic Noise Abatement - Background ☐ Briefly state if traffic noise abatement was considered for the project, or why not. Other forms of abatement should be discussed only if they were evaluated and/or recommended for the project. Feasibility ☐ Describe feasibility ☐ Describe what abatement was evaluated. If wall, height, length, alignment ☐ Include graphic of wall/abatement evaluated, if appropriate ☐ Describe the minimum feasible abatement Reasonableness ☐ Describe reasonableness ☐ If abatement is feasible - describe reasonableness analysis of minimum feasible abatement. If reasonable, include maximum reasonable abatement and "optimized" abatement that attempts to meet WSDOT 10 dBA goal ☐ Include graphic of wall/abatement evaluated, if appropriate ☐ If abatement was not feasible, describe why reasonableness was not evaluated 1. Cost Effectiveness Describe cost-effectiveness or wall area comparison (allowed vs. required) > Table is required that includes each benefitting receiver per WSDOT reasonableness table 2. Design Goal Achievement Describe if/how abatement is able to achieve WSDOT's reasonableness design goal 3. Desire for abatement from the public within the noise study area ☐ If outreach occurs prior to report completion or if report is updated after outreach has occurred, o describe public outreach o how public opinion was solicited o whether outreach was determined that abatement was/was not desired if outreach has not occurred, clarify that outreach must occur before the abatement can be constructed Recommendation for Traffic Noise Abatement ☐ Clarify recommendation for/against abatement and clarify reasons why **Construction Noise Construction Noise Background**

☐ Describe general information on construction noise

Construction Noise Levels Limits

☐ Describe exemptions and restrictions on construction noise

Constru	ıcti	levels include table of maximum permissible levels and EDNA on Noise Variance for Night Work
		Clarify jurisdictions within project area and/or affected by potential night work briefly describe night variance/exemption requirements where applicable
Constru	ucti	on Noise Abatement
		Describe general/standard abatement considerations and any particular abatement requirements for this project
1		Include description/examples of construction noise
		Appendix B – Traffic Data
		Validation traffic counts, speeds, vehicle mix data Existing, No-build, and Build traffic volumes speeds, vehicle mix data reference document and/or contact for traffic data
		Appendix C – TNM Barrier Graphics
		Graphics for all barriers discussed in the analysis
		Appendix D - TNM Data
TNM D	ata □	Include 2 copies of CD-ROMs with all TNM v2.5 model files marked as follows: O Project Name_Validation O Project Name_Build O Project Name_NoBuild O Project Name_Existing O Project Name_BarrierX
		Appendix E – Field Data Sheets
		Include data sheets from the field that describe the validation measurement locations and conditions