SCDOT Feasibility and Reasonableness Worksheet

Date:		
Project Name		
Highway Traffic Noise Abatement Measure		
<u>Feasibility</u>		
Number of Impacted Receivers	Number of Benefited Receivers	
Percentage of Impacted Receivers that would achi noise abatement measure	ieve a 5 dBA reduction from the proposed	
Is the proposed noise abatement measure acoustical NOTE:SCDOT Policy indicates that 75% of the interactive at least a 5 dBA reduction for it to be acousticated as a second control of the proposed noise abatement measure acousticates that 75% of the interaction for it to be acousticated as a second control of the proposed noise abatement measure acousticates and the proposed noise acousticates are account of the proposed noise acousticates and the proposed noise acousticates are account of the proposed noise acousticates and the proposed noise account of the	npacted receivers must	
Would any of the following issues limit th	he ability of the abatement measure to achieve the noise reduction goal?	
Topography	☐ Yes ☐ No	
Safety	Yes No	
Drainage	Yes No	
Utilities	Yes No	
Maintenance	☐ Yes ☐ No	
Access	☐ Yes ☐ No	
Exposed Height of Wal	Il Yes No	
If "Yes" was marked for any of the questions above, please explain below.		

Reasonableness

According to 23 CFR 772.13(d)(2)(iv) the abatement measure must collectively achieve each of these criteria to be reasonable. Therefore if any of the three mandatory reasonable factors are not achieved, then the abatement measure is determined NOT to be reasonable. When completing the form it is not necessary to detail each of the criteria if one was determined not to be reasonable.

#1: Noise Reduction Design Goal		
Number of Benefited Receivers	Number of Benefited Receivers that achieve at least an 8 dBA reduction	
Percentage of Benefited Receivers that would achieve at least a 8 dBA reduction from the proposed noise abatement measure. NOTE: SCDOT Policy indicates that 80% of the benefited receivers must achieve at least a 8 dBA reduction for it to be reasonable.		
Is the proposed noise abatement measure acoustically feasible? Yes No		
If "Yes" is marked, continue to #2. If "No" is marked, then abatement is determined NOT to be reasonable.		
#2: Cost Effectiveness		
Estimated cost per square foot for noise abatement measure	Estimated construction cost for noise abatement measure	
Estimated cost per Benefited Receiver		
Based on the SCDOT policy of \$30,000 per Benefited Receiver, would the abatement measure be reasonable? NOTE: SCDOT Policy states that the preliminary noise analysis is based on \$35.00 per square foot and a more project- specific construction cost should be applied at a cost per square foot basis during the detailed noise abatement evaluation. Yes No		
If "Yes" is marked, continue to #3. If "No" is	marked, then abatement is determined NOT to be reasonable.	
#3: Viewpoints of the property owners and residents of the benefitted receivers		
Number of Benefited Receivers (same as above)		
Number of Benefited Receivers in support of noise abatement measure	Percentage of Benefited Receivers in support of noise abatement measure	
Number of Benefited Receivers opposed to noise abatement measure	Percentage of Benefited Receivers opposed to noise abatement measure	
Number of Benefited Receivers that did not respond to solicitation on noise abatement measure	Percentage of Benefited Receivers that did not respond to solicitation on noise abatement measure	
Based on the viewpoints of the property owners and residents of the Benefited Receivers, would the abatement measure be reasonable? NOTE: SCDOT Policy indicates that the noise abatement shall be constructed unless greater than 50% of the benefited receptors are opposed to noise abatement.		