



NOISE CRITERIA

Noise Abatement Criteria for Residential Area	Pennsylvania DOT	New Jersey DOT	Project
Consideration of noise abatement is warranted if EITHER of the following criteria are met for Leq(h):			
● Absolute Noise Level Approaches or Exceeds	67 dBA	67 dBA	67 dBA
● Increase Over Existing Noise Level Equals or Exceeds	10 dBA	10 dBA	10 dBA
Some factors considered in evaluating the feasibility and reasonableness of noise barriers include:			
● Range of Noise Reduction for Majority of Impacted Residences	7 to 10 dBA	5 to 10 dBA	5 to 10 dBA
● Reduce Noise Levels to	Low 60 dBA range or existing levels if possible		
● Minimum Noise Reduction for Barrier to be Considered Feasible	5 dBA for majority of impacted receptors	5 dBA	5 dBA
● Minimum Noise Reduction for a Barrier to be Considered Reasonable	3 dBA for impacted receptors; 5 dBA for non-impacted receptors	5 dBA	5 dBA for first row of impact receivers
● Achieve Noise Reductions with Average Wall Height of		16 feet	
● Maximum Wall Heights of		18 feet	18 feet
Some factors considered in evaluating cost-effectiveness of noise barriers include:			
● Maximum Barrier Cost per Impacted Residential Dwelling Unit	50,000	50,000	No Maximum
● Maximum Barrier Cost per Non-Impacted Residential Dwelling Unit	50,000	25,000	No Maximum
● Cost per Square Foot of Barrier Used in Calculations	\$25	\$50	same as defined by PennDOT and NJDOT within each state

