

Appendix G.
Noise Calculations



Appendices

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Construction generated Vibration

Nearest Sensitive Use @ 15 feet to Pool and Bathhouse

Construction generated Vibration	General Classrooms	Distance	15	
Equipment	Approximate Velocity Level at 25 ft, VdB	Approximate RMS a Velocity at 25 ft, inch/second	Approximate Velocity Level, VdB	Approximate RMS a Velocity at 180 ft, inch/second
Large bulldozer	87	0.089	91	0.1915
Small bulldozer	58	0.003	62	0.0065
Jackhammer	79	0.035	83	0.0753
Loaded Trucks	86	0.076	90	0.1635
		Criteria	78	0.2

¹ Determined based on use of jackhammers or pneumatic hammers that may be used for pavement demolition at a distance of 25 feet
 Notes: RMS velocity calculated from vibration level (VdB) using the reference of one microinch/second.
 Source: Based on methodology from the United States Department of Transportation Federal Transit Administration, *Transit Noise and Vibration Impact Assessment* (1995).

Construction generated Vibration

Vibration Annoyance Sensitivity Run

Construction generated Vibration	General Classrooms	Distance	70	
Equipment	Approximate Velocity Level at 25 ft, VdB	Approximate RMS a Velocity at 25 ft, inch/second	Approximate Velocity Level, VdB	Approximate RMS a Velocity at 180 ft, inch/second
Large bulldozer	87	0.089	78.1	0.0190
Small bulldozer	58	0.003	49.1	0.0006
Jackhammer	79	0.035	70.1	0.0075
Loaded Trucks	86	0.076	77.1	0.0162
		Criteria	78	0.2

Notes: RMS velocity calculated from vibration level (VdB) using the reference of one microinch/second.
 Source: Based on methodology from the United States Department of Transportation Federal Transit Administration, *Transit Noise and Vibration Impact Assessment* (1995).