


1. *The minimum height of the sound and safety / sound barrier wall shall be eight (8) feet measured from the roadway elevation at the centerline of the nearest travel lane, or from the centerline of the nearest future travel lane. This standard shall achieve an acceptable outdoor residential Ldn (day-night weighted average noise level) value of 65 dB (decibels) or less, and an indoor residential Ldn value of 45 dB or less, in any habitable room with windows closed.*
2. *The developer shall submit to the Planning Department an acoustics engineer's report indicating sound attenuation values and sound barrier design, for evaluation during the final map and review process. If required by the City, a safety / sound barrier wall design shall be substituted for the sound barrier design. The construction of the barrier wall shall be incorporated with construction of the subdivision improvements. If approved by the City, adjacent projects may utilize the same report and design.*
3. *The sound barrier and the top portion of the safety / sound barrier wall shall be constructed of solid nonporous materials with a mass value of at least four (4) pounds per square foot. All joints shall be sealed to prevent the passage of sound waves.*
4. *The sound barrier of the top portion of the safety / sound barrier wall shall be constructed of either concrete panel-lock, brick, concrete block, or prefab tilt-up.*
5. *Emergency access panels shall be installed in accordance with California Department of Transportation requirements.*
6. *The overall height of the barrier wall may be achieved in combination with an earth berm (subject to approval by the City).*
7. *Residential lots adjacent to the noise generating source shall have a rear yard setback of 30 feet.*
8. *Design details, signed and stamped by a registered civil engineer and a manufacturer's description of the proposed wall, shall be made part of the subdivision improvement plans and submitted prior to approval of the final map. Design of the safety / sound barrier wall shall be approved by the engineer.*

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| NO. | REVISED | BY | Sound Wall Design Criteria | APPROVED |  CITY ENGINEER RCE-28191 |
| | | | | DATE: 2-2-99 | |
| DRAWN BY: Matt | | | | CITY OF RIPON | STANDARD NO. M-11 |
| CHECKED BY: DJR | | | | | |
| SCALE: NONE | | | | | |