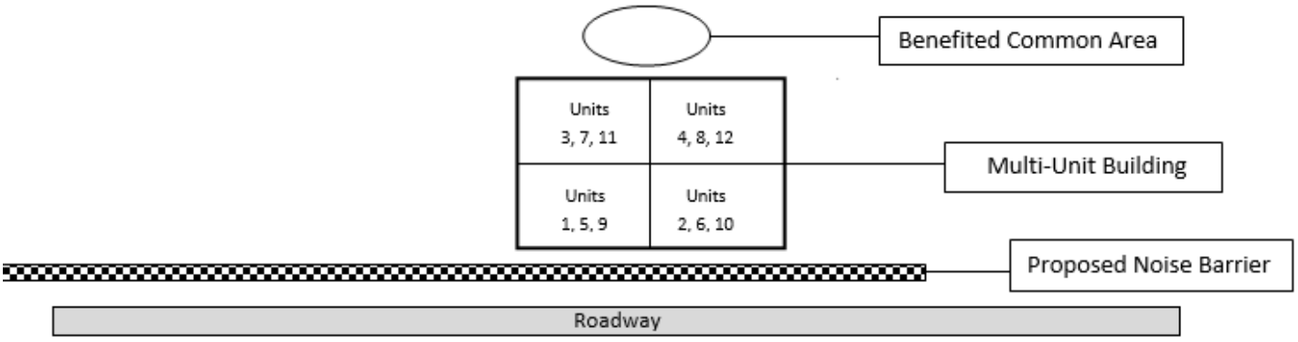
Scenario #3

Multi-Unit Building with a Benefited Common Area & Some Unit-Specific Areas of Frequent Human Use




## Assumptions for this example:

1. Three-story building with 4 units per floor (12 units total with 2 units on roadway side and 2 units on common area side of building).
2. The common area is an area of frequent human activity available to all building residents (i.e., a pool).
3. The building owner does not live in the building.
4. Units 1-8 have unit-specific areas of frequent human use (i.e. balcony or patio). Units 9-12 do not have unit-specific areas of frequent human use.
5. Applicable noise abatement criteria **are** approached or exceeded in the common area or the common area has at least a 5dBA increase with design year traffic.
6. The feasible and cost-effective noise abatement measure obtains at least a 5 dBA reduction in the noise level in the common area and at least one benefited receiver gets a 7dBA reduction.

## Table for this example:

| Voting Scenarios | | | |
|---|---|---|---|
| **Unit** | **Voting Scenario I** | **Voting Scenario II** | **Voting Scenario III** |
| 1 (Roadway side & benefited receptor) | Yea (Res. 2 pts./BR) | Yea | Nay |
| 2 (Roadway side & benefited receptor) | Yea (Res. 2 pts./BR) | Yea | Nay |
| 3 (Common area side & benefited receptor) | Yea (Res. 2 pts./BR) | Yea | Nay |
| 4 (Common area side & benefited receptor) | Yea (Res. 2 pts./BR) | Yea | Nay |
| 5 (Roadway side & benefited receptor) | No response (Res. 2 pts./BR) | Yea | Nay |
| 6 (Roadway side & benefited receptor) | No response (Res. 2 pts./BR) | Yea | Nay |
| 7 (Common area side but **not** benefited receptor) | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| 8 (Common area side but **not** benefited receptor) | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| 9 | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| 10 | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| 11 | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| 12 | Not entitled to vote. | Not entitled to vote. | Not entitled to vote. |
| Building Owner | Nay | Nay | Yea |
| Totals | | | |
| Total Possible Points (TPP) | 12 (2 pts./BR*6 BR for residents) + 28 ((4pts/BR *6 BR) + 4 pts. for benefited common area for owner) = 40 | 40 | 40 |
| Total points received | 36 | 40 | 40 |
| >25% TPP received | Yes | Yes | Yes |
| Points for Yeas | 8 | 12 | 28 |
| Points for Nays | 28 | 28 | 12 |
| Does the barrier get built? | No | No | Yes |

## Notes for this example:

1. All benefited residents in this multi-unit building are considered “first row”; including those on the common area side of the building and those on above ground floors.
2. Cost effectiveness calculation: Every unit has access to the common area and the common area is benefited, therefore, the cost threshold for the noise abatement measure is calculated as $78,500*12 units = $942,000. All of the units are, in effect, benefited receptors for purposes of establishing the cost threshold because the common area gets a 5dBA (or more)

reduction from the proposed noise abatement measure. However, only the benefited receptors that have balconies or patios are solicited for votes.
Res. = Resident, Pts. = Points, NR = No Response, BR = Benefited Resident