

Appendix 12A: Barrier Mitigation Tables

Table 12A-1. Noise Abatement for Barrier 1

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at impacted residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,150	18	0	0	No	No	—	0	—	—	No

Table 12A-2. Noise Abatement for Barrier 2

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of impacted residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,550	18	0	0	No	No	—	0	—	—	No

Table 12A-3. Noise Abatement for Barrier 3

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
750	10	1	100	No	Yes	150,000	1	150,000	No	No

Table 12A-4. Noise Abatement for Barrier 4

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,800	14	10	83	Yes	No	—	—	—	—	No
	16	12	100	Yes	Yes	896,000	27	33,185	No	No
	18	12	100	Yes	Yes	1,008,000	47	21,447	Yes	Yes

Table 12A-5. Noise Abatement for Barrier 5

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,275	18	0	0	No	No	—	—	—	—	No

Table 12A-6. Noise Abatement for Barrier 6

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,175	18	0	0	No	No	—	—	—	—	No

Table 12A-7. Noise Abatement for Barrier 7

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
4,375	18	0	0	Yes	No	—	—	—	—	No

Table 12A-8. Noise Abatement for Barrier 8

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
3,000	18	0	0	Yes	No	—	—	—	—	No

Table 12A-9. Noise Abatement for Barrier 9

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,350	18	0	0	No	No	—	—	—	—	No

Table 12A-10. Noise Abatement for Barrier 10

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
3,875	18	8	44	No	Yes	—	—	—	—	No

Table 12A-11. Noise Abatement for Barrier 11

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,250	18	0	0	No	No	—	—	—	—	No

Table 12A-12. Noise Abatement for Barrier 12

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,050	14	7	100	Yes	No	—	—	—	—	No
	16	7	100	Yes	Yes	656,000	25	25,240	Yes	Yes

Table 12A-13. Noise Abatement for Barrier 13

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
4,925	18	0	0	No	No	—	—	—	—	No

Table 12A-14. Noise Abatement for Barrier 14

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,225	12	2	8	No	No	—	—	—	—	No
	14	26	100	Yes	No	—	—	—	—	No
	16	26	100	Yes	Yes	712,000	26	27,385	Yes	Yes

Table 12A-15. Noise Abatement for Barrier 15

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,550	18	0	0	No	No	—	—	—	—	No

Table 12A-16. Noise Abatement for Barrier 16

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
550	18	0	0	No	No	—	—	—	—	No

Table 12A-17. Noise Abatement for Barrier 17

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,375	18	0	0	No	No	—	—	—	—	No

Table 12A-18. Noise Abatement for Barrier 18

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,700	18	4	36	No	Yes	—	—	—	—	No

Table 12A-19. Noise Abatement for Barrier 19

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,200	18	0	0	No	No	—	—	—	—	No

Table 12A-20. Noise Abatement for Barrier 20

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,049	18	6	86	Yes	Yes	737,640	6	122,940	No	No

Table 12A-21. Noise Abatement for Barrier 21

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
700	18	0	0	No	No	—	—	—	—	No

Table 12A-22. Noise Abatement for Barrier 22

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,050	18	0	0	No	No	—	—	—	—	No

Table 12A-23. Noise Abatement for Barrier 23

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,050	18	0	0	No	No	—	—	—	—	No

Table 12A-24. Noise Abatement for Barrier 24

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,115	10	0	0	Yes	No	—	—	—	—	No
	12	0	0	Yes	No	—	—	—	—	No
	14	0	0	Yes	No	—	—	—	—	No
	16	14	41	Yes	No	—	—	—	—	No
	18	20	59	Yes	No	—	—	—	—	No

Table 12A-25. Noise Abatement for Barrier 25

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,125	10	0	0	Yes	No	—	—	—	—	No
	12	12	45	Yes	Yes	510,000	19	26,842	Yes	Yes
	14	12	45	Yes	Yes	595,000	22	27,045	Yes	Yes

Table 12A-26. Noise Abatement for Barrier 26

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,625	18	1	10	No	No	—	—	—	—	No

Table 12A-27. Noise Abatement for Barrier 27

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
3,750	18	13	57	Yes	No	—	—	—	—	No

Table 12A-28. Noise Abatement for Barrier 28

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
975	18	0	0	No	No	—	—	—	—	No

Table 12A-29. Noise Abatement for Barrier 29

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
2,350	18	0	0	No	No	—	—	—	—	No

Table 12A-30. Noise Abatement for Barrier 30

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,050	18	0	0	No	No	—	—	—	—	No

Table 12A-31. Noise Abatement for Barrier 31

Barrier Length (feet)	Barrier Height (feet)	Number of First-Row Benefiting Residences	Percent of First-Row Benefiting Residences	Is Barrier Acoustically Feasible (≥5 dBA benefit at 50% of first-row residences)?	Is Barrier Reasonable (≥7 dBA benefit at 35% of first-row residences)?	Cost (\$)	Total Number of Benefiting Residences	Cost per Benefiting Residence (\$)	Is Cost <\$30,000?	Is Barrier Feasible and Reasonable?
1,925	18	0	0	No	No	—	—	—	—	No