

# I-64

Louisville, Kentucky

## NOISE IMPACT STUDY ADDENDUM

Prepared in accordance with Louisville Development Code  
Chapter 5 Section 1.7.E

Prepared for:

**Mindel Scott and Associates**

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### ***ANALYSIS (REVISED)***

The original noise impact study (January 2019) has been revised based on the revised plan view and proposed noise barrier berm (refer to Figure 1). Figure 1 shows a revised plan view of the project site, as provided by Mindel Scott & Associates that is located in Louisville, Kentucky. The figure includes the location of modeled receivers, proposed noise barrier berm, and the revised plan view. Figure 2 shows the TNM 2.5-generated plan view of the project site. Table 1 shows a summary of the results. In determining traffic noise impacts, a highway agency shall give primary consideration to exterior areas where frequent human use occurs based on CFR 772.11 Analysis of traffic noise impacts.

#### **Proposed Noise Barrier Berm Analysis**

The proposed noise barrier berm is sufficient to reduce the noise reduction below the Louisville Development impact criteria. All receivers are predicted to be below the

impact criteria by the proposed noise barrier berm (refer to Table 1 and Figure 1). Note that the Leq values have been rounded to the nearest whole number, in accordance with industry practice. Note that there is one receiver assigned for each building.

Table 2 shows the results of the TNM 2.5 analysis for 2029.

Table 1: Leq values in dBA.

Receiver	Leq in dBA with Noise Barrier Berm
R-01	61
R-02	61
R-03	61
R-04	64
R-05	64
R-06	63
R-07	62
R-08	62

All Receivers < 65 dB(A) Leq

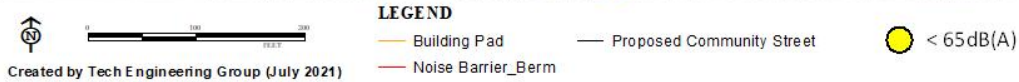
Table 2: TNM 2.5-generated noise levels results file.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier		Increase over existing		Type Impact
			dBA	Calculated	Crit'n	Calculated	Crit'n	
				dBA	dB	dB	dB	
R-01	2	1	0.0	60.8	65	60.8	0	—
R-02	3	1	0.0	61.1	65	61.1	0	—
R-03	5	1	0.0	60.8	65	60.8	0	—
R-04	6	1	0.0	63.6	65	63.6	0	—
R-05	7	1	0.0	63.6	65	63.6	0	—
R-06	8	1	0.0	62.8	65	62.8	0	—
R-07	9	1	0.0	61.8	65	61.8	0	—
R-08	10	1	0.0	62.1	65	62.1	0	—

### CONCLUSION

The proposed noise barrier berm is sufficient to reduce the noise reduction below the Louisville (KY) impact criteria. Therefore, no further analysis is required.

Figure 1: Noise Figure



Created by Tech Engineering Group (July 2021)

Figure 2: TNM 2.5-generated plan view of the project site

