

APPENDIX IV

Construction

APPENDIX IV: CONSTRUCTION NOISE MODELING

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Table 1: Monthly Allocation of Equipment – Component 1, and Table 2: Monthly Allocation of Equipment – Component 2 identify the equipment expected to be used for each phase of construction and for each component of the project. From these data, the three periods of peak construction noise are established for construction of Component 1 and for Component 2. The three peak periods for each component are then modeled in the SoundPlan noise modeling software. **Table 3: Noise Modeling Results** presents the results of the noise modeling conducted for the proposed project. The results shown in Table 3 represent expected construction noise levels with the incorporation of a 15-foot-high noise barrier around the construction site.

Assumptions: Output from the model is in units of exterior dBA Leq. L10 shown in the table is estimated as Leq +3, based on Federal Highways Administration, Roadway Construction Noise Model.¹ Exterior to interior noise attenuation for buildings with double-pane windows closed (and window air conditioning units) for existing buildings was assumed to be 28 dBA.² Exterior to interior noise attenuation for the Booker T. Washington Middle School Gymnasium, with windows open, was assumed to be 10 dBA. Finally, exterior to interior noise attenuation for new buildings (e.g., Component 1 of the proposed project) with central HVAC was assumed to be 30 dBA.

NOISE BARRIER MODELING

Typically, an eight-foot-high plywood barrier is provided around active construction sites as part of the New York City construction noise control plan. For the Proposed Project, the project sponsor has committed to provide a 15-foot-high temporary noise barrier (the maximum height allowed by the New York City Noise Code), in recognition of the noise-sensitive context of the adjoining land uses. The 15-foot-high barrier was incorporated in the SoundPlan modeling software, and the effects of the barrier are included in the impact results discussed in Chapter 12: Construction. A standard eight-foot-high barrier was also modeled. **Table 4: Noise Barrier Modeling** of this appendix identifies the incremental increase over the background of noise levels received at each modeled receptor that would result from Component 1 construction activities with (1) an eight-foot-high barrier, and (2) a 15-foot-high barrier. Construction noise barriers provide substantial benefits for ground level receptors and lower stories of buildings where line of sight is completely blocked. For these receptors, noise levels are typically reduced by at least ten dBA by noise barriers. Noise barriers are not effective in reducing noise for upper stories of buildings where there is partial or direct line of sight into the construction work area.

¹ FHWA, Roadway Construction Noise Model Users Guide, available at:
https://www.fhwa.dot.gov/Environment/noise/construction_noise/rcnm/rcnm09.cfm

² New York City Department of Environmental Protection, Personal Communication.

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TABLE 1: Monthly Equipment Allocation During Construction - Component 1

		2018												2019												2020			
	Construction Phase	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28
SOE ACTIVITY	Equipment on Site																												
	Loader 175 HP	44	44	44	22	22	22	22	22	22	22														22	22	22		
	Excavator, 260 HP	44	44	44	22	22	22	22	22	22	22																		
	Backhoe/Loader 90 HP Diesel					20	20	40	20	20																			
	Backhoe w/auger 90 HP for mini piles						20																						
	Air Compressor 275 HP Diesel									20	20	20																	
	Bobcat Compact Excavator 42 HP Diesel																								20	20	20		
	Drill Rig-Rock Excavation 90 HP Diesel								15																				
	Gasoline Generator 11HP						20	40	20	20	20	20	20	20															
	Rebar Bending Machine 11 HP Diesel							20	20	20																			
BUILDING CONSTRUCTION	Vibrator Plate Compactor 6 HP Gasoline								10	10	10														10	10	10		
	Loomis 40 Ton Mobile Crane										10	10	10	10															
	JLG Lull Forklift 130 HP Gasoline								20	20	20	20	20	20	20	20	20												
	Mortar Mixer 6 HP Gasoline								20	20	20	20	20	20	20	20	20												
	Walk Behind Concrete Saw 16 HP Gasoline						20	20																		5	5		
	Cut Off Saw 4.5 HP Gasoline								20	20																	20	20	
	Welding Machine 23 HP Gasoline									20	20	20	10	5	5	5	5											20	
	On-Road Equipment																												
	Dump Truck 550 HP Arriving on Site					100	100	50																					
	Concrete Pump Trucks 460 HP Diesel						20	15																					
	Dump Truck 550 HP Arriving & Leaving	330	330	330	50			60	60	60	50	40															20	20	
	Garbage Container Trucks 370 HP Diesel Arriving & Leaving													20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
	Concrete Pump Trucks 460 HP Diesel							10	10	10	10																		
	Flat Bed Trucks 500 HP Diesel									5	5	5																	
	Delivery Box Truck 250 HP Diesel											5	5	5	5	5							5	5	5	5	5	5	
Fuel Truck 350 HP Gasoline							5	5	5	5	5	5	5	5	5	5	5												
	Total number trucks or pieces of equipment per month	418	418	418	94	164	244	319	269	294	239	145	110	105	75	70	30	20	20	20	20	25	25	25	77	102	122	65	25
						Building Activity Legend									SOE Activity														
						Excavation and Foundation										Excavation for Piles and Ramp													
						Superstructure										Drilled Piles													
						Exterior										Sheathing and Shoring													
						Interior										Lagging													
						Finishing & TCO										Underpinning													
						Garbage Pick Up										Concrete Pump Trucks													
																Generator													
						Demolition										Dump Truck													

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TABLE 2: Monthly Equipment Allocation During Construction - Component 2

[illegible]

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TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
0a	Middle School - Auditorium - 1/3	960 COLUMBUS AVENUE	59.09	62.7	64.8	64.0	68.3	72.7	69.7	37.7	39.8	39.0	43.3	47.7	44.7
1a	Middle School - Auditorium - 2/3	960 COLUMBUS AVENUE	59.09	63.5	65.8	65.0	71.1	75.7	72.4	38.5	40.8	40.0	46.1	50.7	47.4
2a	Middle School - Auditorium - 3/3	960 COLUMBUS AVENUE	59.09	63.9	66.7	64.8	73.6	78.1	74.5	38.9	41.7	39.8	48.6	53.1	49.5
3	Sinai Pentacostal Church - 1/4	163 WEST 107 STREET	59.09	65.8	68.7	67.3	60.7	63.0	60.9	40.8	43.7	42.3	35.7	38.0	35.9
4	Sinai Pentacostal Church - 2/4	163 WEST 107 STREET	59.09	66.9	70.0	68.1	60.8	63.3	61.0	41.9	45.0	43.1	35.8	38.3	36.0
5	Sinai Pentacostal Church - 3/4	163 WEST 107 STREET	59.09	67.5	70.5	68.9	60.9	63.5	61.1	42.5	45.5	43.9	35.9	38.5	36.1
6	Sinai Pentacostal Church - 4/4	163 WEST 107 STREET	59.09	68.1	71.8	69.5	61.1	63.9	61.4	43.1	46.8	44.5	36.1	38.9	36.4
7	Kingdom of Jehovah's Witnesses - 1/2	167 WEST 107 STREET	59.09	65.4	68.4	67.1	61.4	64.1	61.7	40.4	43.4	42.1	36.4	39.1	36.7
8	Kingdom of Jehovah's Witnesses - 2/2	167 WEST 107 STREET	59.09	66.7	70.2	68.3	61.5	64.4	61.9	41.7	45.2	43.3	36.5	39.4	36.9
9	Booker T. Washington Park - 1 of 5		59.09	66.2	68.7	67.9	61.0	63.5	61.3	N/A	N/A	N/A	N/A	N/A	N/A
10	The New Jewish Home - 1 of 3 - 1/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
11	The New Jewish Home - 1 of 3 - 2/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
12	The New Jewish Home - 1 of 3 - 3/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
13	The New Jewish Home - 1 of 3 - 4/8	111 WEST 105 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
14	The New Jewish Home - 1 of 3 - 5/8	111 WEST 105 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.2	34.2	34.3	34.2	34.1	34.2	34.2
15	The New Jewish Home - 1 of 3 - 6/8	111 WEST 105 STREET	59.09	59.2	59.4	59.2	59.1	59.3	59.2	34.2	34.4	34.2	34.1	34.3	34.2
16	The New Jewish Home - 1 of 3 - 7/8	111 WEST 105 STREET	59.09	59.3	59.5	59.3	59.1	59.3	59.2	34.3	34.5	34.3	34.1	34.3	34.2
17	The New Jewish Home - 1 of 3 - 8/8	111 WEST 105 STREET	59.09	59.3	59.8	59.4	59.2	59.3	59.2	34.3	34.8	34.4	34.2	34.3	34.2
18	The New Jewish Home - 2 of 3 - 1/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
19	The New Jewish Home - 2 of 3 - 2/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
20	The New Jewish Home - 2 of 3 - 3/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
21	The New Jewish Home - 2 of 3 - 4/8	111 WEST 105 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
22	The New Jewish Home - 2 of 3 - 5/8	111 WEST 105 STREET	59.09	59.2	59.4	59.2	59.1	59.3	59.1	34.2	34.4	34.2	34.1	34.3	34.1
23	The New Jewish Home - 2 of 3 - 6/8	111 WEST 105 STREET	59.09	59.2	59.5	59.3	59.1	59.7	59.2	34.2	34.5	34.3	34.1	34.7	34.2
24	The New Jewish Home - 2 of 3 - 7/8	111 WEST 105 STREET	59.09	59.3	59.8	59.4	59.2	59.8	59.2	34.3	34.8	34.4	34.2	34.8	34.2
25	The New Jewish Home - 2 of 3 - 8/8	111 WEST 105 STREET	59.09	59.8	60.8	59.8	59.2	60.2	59.3	34.8	35.8	34.8	34.2	35.2	34.3
26	The New Jewish Home - 3 of 3 - 1/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
27	The New Jewish Home - 3 of 3 - 2/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
28	The New Jewish Home - 3 of 3 - 3/8	111 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.2	34.1	34.2	34.2	34.1	34.2	34.2
29	The New Jewish Home - 3 of 3 - 4/8	111 WEST 105 STREET	59.09	59.2	59.3	59.2	59.2	59.3	59.2	34.2	34.3	34.2	34.2	34.3	34.2
30	The New Jewish Home - 3 of 3 - 5/8	111 WEST 105 STREET	59.09	59.2	59.3	59.2	59.2	59.4	59.2	34.2	34.3	34.2	34.2	34.4	34.2
31	The New Jewish Home - 3 of 3 - 6/8	111 WEST 105 STREET	59.09	59.2	59.4	59.2	59.3	59.5	59.3	34.2	34.4	34.2	34.3	34.5	34.3
32	The New Jewish Home - 3 of 3 - 7/8	111 WEST 105 STREET	59.09	59.3	59.6	59.3	59.4	59.7	59.4	34.3	34.6	34.3	34.4	34.7	34.4
33	The New Jewish Home - 3 of 3 - 8/8	111 WEST 105 STREET	59.09	59.4	59.9	59.4	59.6	60.0	59.6	34.4	34.9	34.4	34.6	35.0	34.6
34	Saint Gerasimos Greek Orthodox - 1/2	153 WEST 105 STREET	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
35	Saint Gerasimos Greek Orthodox - 2/2	153 WEST 105 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
36	West End Presbyterian Church - 1/5	921 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
37	West End Presbyterian Church - 2/5	921 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
38	West End Presbyterian Church - 3/5	921 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
39	West End Presbyterian Church - 4/5	921 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1

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TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
40	West End Presbyterian Church - 5/5	921 AMSTERDAM AVENUE	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
41	West Preparatory Academy - 1/3	905 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
42	West Preparatory Academy - 2/3	905 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
43	West Preparatory Academy - 3/3	905 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
44	Grosvenor Neighborhood House YMCA - 1/3	176 WEST 105 STREET	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
45	Grosvenor Neighborhood House YMCA - 2/3	176 WEST 105 STREET	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
46	Grosvenor Neighborhood House YMCA - 3/3	176 WEST 105 STREET	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
47	West Side Cluster House - 1 of 2 - 1/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
48	West Side Cluster House - 1 of 2 - 2/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
49	West Side Cluster House - 1 of 2 - 3/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
50	West Side Cluster House - 1 of 2 - 4/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
51	West Side Cluster House - 1 of 2 - 5/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
52	West Side Cluster House - 2 of 2 - 1/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
53	West Side Cluster House - 2 of 2 - 2/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
54	West Side Cluster House - 2 of 2 - 3/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
55	West Side Cluster House - 2 of 2 - 4/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
56	West Side Cluster House - 2 of 2 - 5/5	902 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
57	Ascension School - 1/4	219 WEST 107 STREET	59.09	60.2	60.4	61.1	59.6	60.3	59.6	35.2	35.4	36.1	34.6	35.3	34.6
58	Ascension School - 2/4	219 WEST 107 STREET	59.09	60.1	60.3	61.0	59.5	60.1	59.5	35.1	35.3	36.0	34.5	35.1	34.5
59	Ascension School - 3/4	219 WEST 107 STREET	59.09	60.5	61.0	61.4	59.5	60.1	59.5	35.5	36.0	36.4	34.5	35.1	34.5
60	Ascension School - 4/4	219 WEST 107 STREET	59.09	60.5	61.0	61.4	59.5	60.3	59.6	35.5	36.0	36.4	34.5	35.3	34.6
61	Church of Ascension	219 WEST 107 STREET	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
62	Ascension School Grace House - 1/5	218 WEST 108 STREET	59.09	60.0	60.4	60.8	59.5	60.3	59.6	35.0	35.4	35.8	34.5	35.3	34.6
63	Ascension School Grace House - 2/5	218 WEST 108 STREET	59.09	60.0	60.3	60.8	59.5	60.1	59.5	35.0	35.3	35.8	34.5	35.1	34.5
64	Ascension School Grace House - 3/5	218 WEST 108 STREET	59.09	60.2	60.6	61.1	59.4	60.0	59.5	35.2	35.6	36.1	34.4	35.0	34.5
65	Ascension School Grace House - 4/5	218 WEST 108 STREET	59.09	60.2	60.8	61.2	59.4	60.1	59.5	35.2	35.8	36.2	34.4	35.1	34.5
66	Ascension School Grace House - 5/5	218 WEST 108 STREET	59.09	60.3	61.0	61.1	59.5	60.1	59.6	35.3	36.0	36.1	34.5	35.1	34.6
67	PS 165 Robert E Simon - 1/5	233 WEST 108 STREET	59.09	59.6	59.9	59.8	59.2	59.5	59.4	34.6	34.9	34.8	34.2	34.5	34.4
68	PS 165 Robert E Simon - 2/5	233 WEST 108 STREET	59.09	59.5	59.8	59.7	59.2	59.4	59.3	34.5	34.8	34.7	34.2	34.4	34.3
69	PS 165 Robert E Simon - 3/5	233 WEST 108 STREET	59.09	59.6	60.0	59.9	59.2	59.5	59.3	34.6	35.0	34.9	34.2	34.5	34.3
70	PS 165 Robert E Simon - 4/5	233 WEST 108 STREET	59.09	60.0	60.5	60.9	59.3	59.7	59.4	35.0	35.5	35.9	34.3	34.7	34.4
71	PS 165 Robert E Simon - 5/5	233 WEST 108 STREET	59.09	60.3	60.9	61.1	59.4	60.0	59.5	35.3	35.9	36.1	34.4	35.0	34.5
72	The Bridge Housing - 1/6	248 WEST 108 STREET	59.09	59.5	59.7	60.1	59.3	59.6	59.4	34.5	34.7	35.1	34.3	34.6	34.4
73	The Bridge Housing - 2/6	248 WEST 108 STREET	59.09	59.5	59.7	60.0	59.3	59.7	59.4	34.5	34.7	35.0	34.3	34.7	34.4
74	The Bridge Housing - 3/6	248 WEST 108 STREET	59.09	59.4	59.6	59.9	59.3	59.6	59.3	34.4	34.6	34.9	34.3	34.6	34.3
75	The Bridge Housing - 4/6	248 WEST 108 STREET	59.09	59.5	59.7	60.0	59.3	59.6	59.3	34.5	34.7	35.0	34.3	34.6	34.3
76	The Bridge Housing - 5/6	248 WEST 108 STREET	59.09	59.6	59.8	60.1	59.3	59.6	59.3	34.6	34.8	35.1	34.3	34.6	34.3
77	The Bridge Housing - 6/6	248 WEST 108 STREET	59.09	59.5	60.0	60.0	59.3	59.6	59.3	34.5	35.0	35.0	34.3	34.6	34.3
78	Congregation Ramath Orah - 1/3	550 CATHEDRAL PARKWAY	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
79	Congregation Ramath Orah - 2/3	550 CATHEDRAL PARKWAY	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
80	Congregation Ramath Orah - 3/3	550 CATHEDRAL PARKWAY	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
81	Defenders of Christian Faith	221 WEST 109 STREET	59.09	59.1	59.2	59.1	59.1	59.2	59.1	34.1	34.2	34.1	34.1	34.2	34.1
82	West 111th Street People's Garden - 1 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
83	West 111th Street People's Garden - 2 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
84	West 111th Street People's Garden - 3 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
85	West 111th Street People's Garden - 4 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
86	The Cathedral Church of Saint John - 1 of 5 - 1/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
87	The Cathedral Church of Saint John - 1 of 5 - 2/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.2	59.2	59.1	59.2	59.1	34.2	34.2	34.2	34.1	34.2	34.1
88	The Cathedral Church of Saint John - 1 of 5 - 3/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
89	The Cathedral Church of Saint John - 1 of 5 - 4/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
90	The Cathedral Church of Saint John - 1 of 5 - 5/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
91	The Cathedral Church of Saint John - 1 of 5 - 6/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
92	The Cathedral Church of Saint John - 1 of 5 - 7/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
93	The Cathedral Church of Saint John - 1 of 5 - 8/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
94	The Cathedral Church of Saint John - 1 of 5 - 9/9	1021 AMSTERDAM AVENUE	59.09	59.4	59.6	59.5	59.1	59.2	59.1	34.4	34.6	34.5	34.1	34.2	34.1
95	The Cathedral Church of Saint John - 2 of 5 - 1/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
96	The Cathedral Church of Saint John - 2 of 5 - 2/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
97	The Cathedral Church of Saint John - 2 of 5 - 3/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
98	The Cathedral Church of Saint John - 2 of 5 - 4/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
99	The Cathedral Church of Saint John - 2 of 5 - 5/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
100	The Cathedral Church of Saint John - 2 of 5 - 6/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
101	The Cathedral Church of Saint John - 2 of 5 - 7/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
102	The Cathedral Church of Saint John - 2 of 5 - 8/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.2	59.2	59.1	59.2	59.1	34.2	34.2	34.2	34.1	34.2	34.1
103	The Cathedral Church of Saint John - 2 of 5 - 9/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.2	59.2	59.1	59.2	59.1	34.2	34.2	34.2	34.1	34.2	34.1
104	The Cathedral Church of Saint John - 3 of 5 - 1/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
105	The Cathedral Church of Saint John - 3 of 5 - 2/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
106	The Cathedral Church of Saint John - 3 of 5 - 3/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
107	The Cathedral Church of Saint John - 3 of 5 - 4/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
108	The Cathedral Church of Saint John - 3 of 5 - 5/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
109	The Cathedral Church of Saint John - 3 of 5 - 6/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
110	The Cathedral Church of Saint John - 3 of 5 - 7/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
111	The Cathedral Church of Saint John - 3 of 5 - 8/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
112	The Cathedral Church of Saint John - 3 of 5 - 9/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
113	The Cathedral Church of Saint John - 4 of 5 - 1/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
114	The Cathedral Church of Saint John - 4 of 5 - 2/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
115	The Cathedral Church of Saint John - 4 of 5 - 3/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
116	The Cathedral Church of Saint John - 4 of 5 - 4/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
117	The Cathedral Church of Saint John - 4 of 5 - 5/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
118	The Cathedral Church of Saint John - 4 of 5 - 6/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
119	The Cathedral Church of Saint John - 4 of 5 - 7/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
120	The Cathedral Church of Saint John - 4 of 5 - 8/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
121	The Cathedral Church of Saint John - 4 of 5 - 9/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1

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TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
122	The Cathedral Church of Saint John - 5 of 5 - 1/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
123	The Cathedral Church of Saint John - 5 of 5 - 2/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
124	The Cathedral Church of Saint John - 5 of 5 - 3/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
125	The Cathedral Church of Saint John - 5 of 5 - 4/9	1021 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
126	The Cathedral Church of Saint John - 5 of 5 - 5/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.2	59.3	59.1	59.1	59.1	34.2	34.2	34.3	34.1	34.1	34.1
127	The Cathedral Church of Saint John - 5 of 5 - 6/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
128	The Cathedral Church of Saint John - 5 of 5 - 7/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
129	The Cathedral Church of Saint John - 5 of 5 - 8/9	1021 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
130	The Cathedral Church of Saint John - 5 of 5 - 9/9	1021 AMSTERDAM AVENUE	59.09	59.3	59.3	59.4	59.1	59.3	59.1	34.3	34.3	34.4	34.1	34.3	34.1
131	Iglesia Pentecostal Church - 1/2	209 MANHATTAN AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
132	Iglesia Pentecostal Church - 2/2	209 MANHATTAN AVENUE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
133	Booker T. Washington Park - 2 of 5		59.09	65.7	68.0	67.2	62.1	65.6	62.4	N/A	N/A	N/A	N/A	N/A	N/A
134	Booker T. Washington Park - 3 of 5		59.09	63.1	65.3	64.1	60.2	62.5	60.3	N/A	N/A	N/A	N/A	N/A	N/A
135	Booker T. Washington Park - 4 of 5		59.09	63.0	65.5	64.1	59.4	61.1	59.3	N/A	N/A	N/A	N/A	N/A	N/A
136	Booker T. Washington Park - 5 of 5		59.09	66.6	69.0	68.3	60.8	63.1	61.1	N/A	N/A	N/A	N/A	N/A	N/A
137	The Samaritan Foundation Housing - Veritas Building - 1/4	68 WEST 106 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
138	The Samaritan Foundation Housing - Veritas Building - 2/4	68 WEST 106 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
139	The Samaritan Foundation Housing - Veritas Building - 3/4	68 WEST 106 STREET	59.09	59.2	59.4	59.2	59.1	59.3	59.2	34.2	34.4	34.2	34.1	34.3	34.2
140	The Samaritan Foundation Housing - Veritas Building - 4/4	68 WEST 106 STREET	59.09	59.3	59.5	59.3	59.2	59.4	59.2	34.3	34.5	34.3	34.2	34.4	34.2
141	Southern Baptist Church - 1/3	14 WEST 108 STREET	59.09	59.5	59.7	59.8	59.3	59.9	59.6	34.5	34.7	34.8	34.3	34.9	34.6
142	Southern Baptist Church - 2/3	14 WEST 108 STREET	59.09	59.4	59.7	59.7	59.3	59.8	59.5	34.4	34.7	34.7	34.3	34.8	34.5
143	Southern Baptist Church - 3/3	14 WEST 108 STREET	59.09	59.5	59.9	59.7	59.4	60.0	59.5	34.5	34.9	34.7	34.4	35.0	34.5
144	The August Aichhorn Center for Adolescent Residential Care - 1/5	142 WEST 106 STREET	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
145	The August Aichhorn Center for Adolescent Residential Care - 2/5	142 WEST 106 STREET	59.09	59.1	59.1	59.1	59.1	59.1	59.1	34.1	34.1	34.1	34.1	34.1	34.1
146	The August Aichhorn Center for Adolescent Residential Care - 3/5	142 WEST 106 STREET	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
147	The August Aichhorn Center for Adolescent Residential Care - 4/5	142 WEST 106 STREET	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
148	The August Aichhorn Center for Adolescent Residential Care - 5/5	142 WEST 106 STREET	59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
149	Morningside Park - 1 of 4		59.09	59.1	59.1	59.1	59.1	59.2	59.1	N/A	N/A	N/A	N/A	N/A	N/A
150	Morningside Park - 2 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
151	Morningside Park - 3 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
152	Morningside Park - 4 of 4		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
153	PS 165 Robert E Simon Playground	1018800013	59.09	59.1	59.2	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
154	PS/MS 165 Playground		59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
155	Bloomingtondale Playground - 2 of 2	905 AMSTERDAM AVENUE	59.09	59.1	59.1	59.1	59.1	59.1	59.1	N/A	N/A	N/A	N/A	N/A	N/A
156	West 107th Street and Amsterdam Ave SW Block Corner - 1/6		59.09	59.2	59.3	59.2	59.1	59.1	59.1	34.2	34.3	34.2	34.1	34.1	34.1
157	West 107th Street and Amsterdam Ave SW Block Corner - 2/6		59.09	59.2	59.3	59.2	59.1	59.1	59.1	34.2	34.3	34.2	34.1	34.1	34.1

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				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
158	West 107th Street and Amsterdam Ave SW Block Corner - 3/6		59.09	59.2	59.4	59.3	59.1	59.1	59.1	34.2	34.4	34.3	34.1	34.1	34.1
159	West 107th Street and Amsterdam Ave SW Block Corner - 4/6		59.09	59.2	59.5	59.3	59.1	59.2	59.1	34.2	34.5	34.3	34.1	34.2	34.1
160	West 107th Street and Amsterdam Ave SW Block Corner - 5/6		59.09	59.3	59.6	59.4	59.1	59.2	59.1	34.3	34.6	34.4	34.1	34.2	34.1
161	West 107th Street and Amsterdam Ave SW Block Corner - 6/6		59.09	59.4	59.9	59.5	59.1	59.2	59.1	34.4	34.9	34.5	34.1	34.2	34.1
162	West 108th Street and Amsterdam Ave SW Block Corner - 1/17		59.09	61.3	62.6	62.5	59.9	61.2	60.1	36.3	37.6	37.5	34.9	36.2	35.1
163	West 108th Street and Amsterdam Ave SW Block Corner - 2/17		59.09	61.7	63.3	63.2	59.8	61.0	60.0	36.7	38.3	38.2	34.8	36.0	35.0
164	West 108th Street and Amsterdam Ave SW Block Corner - 3/17		59.09	62.0	64.0	64.1	59.8	61.0	60.0	37.0	39.0	39.1	34.8	36.0	35.0
165	West 108th Street and Amsterdam Ave SW Block Corner - 4/17		59.09	62.7	64.8	64.1	59.8	61.0	60.0	37.7	39.8	39.1	34.8	36.0	35.0
166	West 108th Street and Amsterdam Ave SW Block Corner - 5/17		59.09	63.1	65.3	64.4	59.8	61.1	60.0	38.1	40.3	39.4	34.8	36.1	35.0
167	West 108th Street and Amsterdam Ave SW Block Corner - 6/17		59.09	63.7	65.8	65.7	59.9	61.3	60.1	38.7	40.8	40.7	34.9	36.3	35.1
168	West 108th Street and Amsterdam Ave SW Block Corner - 7/17		59.09	64.1	66.2	66.4	60.1	61.6	60.3	39.1	41.2	41.4	35.1	36.6	35.3
169	West 108th Street and Amsterdam Ave SW Block Corner - 8/17		59.09	64.4	66.6	66.7	60.3	62.0	60.5	39.4	41.6	41.7	35.3	37.0	35.5
170	West 108th Street and Amsterdam Ave SW Block Corner - 9/17		59.09	64.6	66.9	67.0	60.4	62.3	60.7	39.6	41.9	42.0	35.4	37.3	35.7
171	West 108th Street and Amsterdam Ave SW Block Corner - 10/17		59.09	64.7	67.1	67.1	60.5	62.6	60.9	39.7	42.1	42.1	35.5	37.6	35.9
172	West 108th Street and Amsterdam Ave SW Block Corner - 11/17		59.09	64.7	67.2	67.1	60.6	62.7	61.0	39.7	42.2	42.1	35.6	37.7	36.0
173	West 108th Street and Amsterdam Ave SW Block Corner - 12/17		59.09	64.7	67.3	67.0	60.7	62.9	61.1	39.7	42.3	42.0	35.7	37.9	36.1
174	West 108th Street and Amsterdam Ave SW Block Corner - 13/17		59.09	64.7	67.4	67.0	60.7	63.0	61.1	39.7	42.4	42.0	35.7	38.0	36.1
175	West 108th Street and Amsterdam Ave SW Block Corner - 14/17		59.09	64.6	67.6	67.0	60.8	63.0	61.2	39.6	42.6	42.0	35.8	38.0	36.2
176	West 108th Street and Amsterdam Ave SW Block Corner - 15/17		59.09	64.6	67.7	67.0	60.8	63.0	61.2	39.6	42.7	42.0	35.8	38.0	36.2
177	West 108th Street and Amsterdam Ave SW Block Corner - 16/17		59.09	64.6	67.8	66.9	60.8	63.0	61.2	39.6	42.8	41.9	35.8	38.0	36.2
178	West 108th Street and Amsterdam Ave SW Block Corner - 17/17		59.09	64.6	67.5	66.8	60.8	63.1	61.2	39.6	42.5	41.8	35.8	38.1	36.2
179	West 109th Street and Amsterdam Ave NW Block Corner - 1/6		59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
180	West 109th Street and Amsterdam Ave NW Block Corner - 2/6		59.09	59.2	59.3	59.2	59.1	59.2	59.1	34.2	34.3	34.2	34.1	34.2	34.1
181	West 109th Street and Amsterdam Ave NW Block Corner - 3/6		59.09	59.2	59.4	59.3	59.1	59.2	59.1	34.2	34.4	34.3	34.1	34.2	34.1
182	West 109th Street and Amsterdam Ave NW Block Corner - 4/6		59.09	59.3	59.5	59.3	59.1	59.3	59.2	34.3	34.5	34.3	34.1	34.3	34.2
183	West 109th Street and Amsterdam Ave NW Block Corner - 5/6		59.09	59.4	59.6	59.4	59.2	59.3	59.2	34.4	34.6	34.4	34.2	34.3	34.2
184	West 109th Street and Amsterdam Ave NW Block Corner - 6/6		59.09	59.8	60.2	60.0	59.3	59.7	59.4	34.8	35.2	35.0	34.3	34.7	34.4

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
185	West 110th Street and Amsterdam Ave SW Block Corner - 1/12		59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
186	West 110th Street and Amsterdam Ave SW Block Corner - 2/12		59.09	59.2	59.4	59.3	59.1	59.2	59.1	34.2	34.4	34.3	34.1	34.2	34.1
187	West 110th Street and Amsterdam Ave SW Block Corner - 3/12		59.09	59.2	59.4	59.3	59.1	59.2	59.2	34.2	34.4	34.3	34.1	34.2	34.2
188	West 110th Street and Amsterdam Ave SW Block Corner - 4/12		59.09	59.3	59.5	59.4	59.1	59.3	59.2	34.3	34.5	34.4	34.1	34.3	34.2
189	West 110th Street and Amsterdam Ave SW Block Corner - 5/12		59.09	59.3	59.6	59.5	59.2	59.4	59.2	34.3	34.6	34.5	34.2	34.4	34.2
190	West 110th Street and Amsterdam Ave SW Block Corner - 6/12		59.09	59.5	59.9	59.8	59.2	59.4	59.2	34.5	34.9	34.8	34.2	34.4	34.2
191	West 110th Street and Amsterdam Ave SW Block Corner - 7/12		59.09	59.5	59.8	59.7	59.2	59.4	59.3	34.5	34.8	34.7	34.2	34.4	34.3
192	West 110th Street and Amsterdam Ave SW Block Corner - 8/12		59.09	59.5	60.0	59.9	59.2	59.5	59.3	34.5	35.0	34.9	34.2	34.5	34.3
193	West 110th Street and Amsterdam Ave SW Block Corner - 9/12		59.09	59.7	60.1	60.0	59.3	59.6	59.4	34.7	35.1	35.0	34.3	34.6	34.4
194	West 110th Street and Amsterdam Ave SW Block Corner - 10/12		59.09	59.8	60.3	60.4	59.3	59.8	59.4	34.8	35.3	35.4	34.3	34.8	34.4
195	West 110th Street and Amsterdam Ave SW Block Corner - 11/12		59.09	60.0	60.5	60.7	59.4	60.0	59.5	35.0	35.5	35.7	34.4	35.0	34.5
196	West 110th Street and Amsterdam Ave SW Block Corner - 12/12		59.09	60.2	60.8	61.0	59.5	60.1	59.6	35.2	35.8	36.0	34.5	35.1	34.6
197	West 107th Street and Amsterdam Ave NW Block Corner - 1/9		59.09	59.4	60.0	59.7	59.1	59.2	59.1	34.4	35.0	34.7	34.1	34.2	34.1
198	West 107th Street and Amsterdam Ave NW Block Corner - 2/9		59.09	59.5	60.2	59.8	59.1	59.2	59.1	34.5	35.2	34.8	34.1	34.2	34.1
199	West 107th Street and Amsterdam Ave NW Block Corner - 3/9		59.09	59.6	60.4	60.0	59.2	59.3	59.2	34.6	35.4	35.0	34.2	34.3	34.2
200	West 107th Street and Amsterdam Ave NW Block Corner - 4/9		59.09	59.7	60.7	60.1	59.2	59.4	59.2	34.7	35.7	35.1	34.2	34.4	34.2
201	West 107th Street and Amsterdam Ave NW Block Corner - 5/9		59.09	59.8	60.9	60.4	59.3	59.6	59.3	34.8	35.9	35.4	34.3	34.6	34.3
202	West 107th Street and Amsterdam Ave NW Block Corner - 6/9		59.09	60.1	61.5	60.7	59.4	60.1	59.5	35.1	36.5	35.7	34.4	35.1	34.5
203	West 107th Street and Amsterdam Ave NW Block Corner - 7/9		59.09	60.8	62.4	61.4	59.8	61.1	60.0	35.8	37.4	36.4	34.8	36.1	35.0
204	West 107th Street and Amsterdam Ave NW Block Corner - 8/9		59.09	61.3	63.0	62.1	60.1	61.9	60.4	36.3	38.0	37.1	35.1	36.9	35.4
205	West 107th Street and Amsterdam Ave NW Block Corner - 9/9		59.09	62.2	63.9	62.9	60.3	62.1	60.7	37.2	38.9	37.9	35.3	37.1	35.7
206	West 109th Street and Amsterdam Ave SW Block Corner - 1/6		59.09	59.3	59.7	59.4	59.1	59.2	59.2	34.3	34.7	34.4	34.1	34.2	34.2
207	West 109th Street and Amsterdam Ave SW Block Corner - 2/6		59.09	59.4	59.8	59.4	59.1	59.3	59.2	34.4	34.8	34.4	34.1	34.3	34.2
208	West 109th Street and Amsterdam Ave SW Block Corner - 3/6		59.09	59.5	60.0	59.6	59.2	59.3	59.2	34.5	35.0	34.6	34.2	34.3	34.2
209	West 109th Street and Amsterdam Ave SW Block Corner - 4/6		59.09	59.6	60.2	59.8	59.3	59.6	59.3	34.6	35.2	34.8	34.3	34.6	34.3
210	West 109th Street and Amsterdam Ave SW Block Corner - 5/6		59.09	59.7	60.5	60.0	59.5	60.1	59.6	34.7	35.5	35.0	34.5	35.1	34.6
211	West 109th Street and Amsterdam Ave SW Block Corner - 6/6		59.09	60.1	61.1	60.4	59.8	61.0	60.0	35.1	36.1	35.4	34.8	36.0	35.0

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
212	West 108th Street and Amsterdam Ave NW Block Corner - 1/6		59.09	59.7	60.0	59.7	59.1	59.2	59.1	34.7	35.0	34.7	34.1	34.2	34.1
213	West 108th Street and Amsterdam Ave NW Block Corner - 2/6		59.09	60.0	60.3	59.8	59.1	59.2	59.1	35.0	35.3	34.8	34.1	34.2	34.1
214	West 108th Street and Amsterdam Ave NW Block Corner - 3/6		59.09	60.4	60.8	60.0	59.2	59.3	59.2	35.4	35.8	35.0	34.2	34.3	34.2
215	West 108th Street and Amsterdam Ave NW Block Corner - 4/6		59.09	60.3	61.0	60.2	59.2	59.4	59.2	35.3	36.0	35.2	34.2	34.4	34.2
216	West 108th Street and Amsterdam Ave NW Block Corner - 5/6		59.09	60.5	61.5	60.3	59.3	59.8	59.4	35.5	36.5	35.3	34.3	34.8	34.4
217	West 108th Street and Amsterdam Ave NW Block Corner - 6/6		59.09	61.7	62.9	61.3	59.8	61.3	60.2	36.7	37.9	36.3	34.8	36.3	35.2
218	West 107th Street and Columbus Ave SE Block Corner - 1/7		59.09	59.2	59.4	59.3	59.2	59.5	59.4	34.2	34.4	34.3	34.2	34.5	34.4
219	West 107th Street and Columbus Ave SE Block Corner - 2/7		59.09	59.3	59.5	59.3	59.3	59.6	59.5	34.3	34.5	34.3	34.3	34.6	34.5
220	West 107th Street and Columbus Ave SE Block Corner - 3/7		59.09	59.3	59.7	59.4	59.3	59.8	59.6	34.3	34.7	34.4	34.3	34.8	34.6
221	West 107th Street and Columbus Ave SE Block Corner - 4/7		59.09	59.5	60.0	59.6	59.4	60.1	59.7	34.5	35.0	34.6	34.4	35.1	34.7
222	West 107th Street and Columbus Ave SE Block Corner - 5/7		59.09	59.7	60.5	59.9	59.8	60.9	60.0	34.7	35.5	34.9	34.8	35.9	35.0
223	West 107th Street and Columbus Ave SE Block Corner - 6/7		59.09	59.8	60.6	60.0	60.0	61.4	60.3	34.8	35.6	35.0	35.0	36.4	35.3
224	West 107th Street and Columbus Ave SE Block Corner - 7/7		59.09	59.9	60.8	60.2	60.2	61.8	60.5	34.9	35.8	35.2	35.2	36.8	35.5
225	West 107th Street and Columbus Ave NE Block Corner - 1/10		59.09	59.3	59.6	59.4	60.8	63.2	60.8	34.3	34.6	34.4	35.8	38.2	35.8
226	West 107th Street and Columbus Ave NE Block Corner - 2/10		59.09	59.3	59.7	59.4	61.2	63.9	61.1	34.3	34.7	34.4	36.2	38.9	36.1
227	West 107th Street and Columbus Ave NE Block Corner - 3/10		59.09	59.5	60.0	59.7	61.4	64.4	61.4	34.5	35.0	34.7	36.4	39.4	36.4
228	West 107th Street and Columbus Ave NE Block Corner - 4/10		59.09	59.9	60.9	60.2	61.8	65.1	61.6	34.9	35.9	35.2	36.8	40.1	36.6
229	West 107th Street and Columbus Ave NE Block Corner - 5/10		59.09	60.9	62.5	61.5	62.5	66.0	62.3	35.9	37.5	36.5	37.5	41.0	37.3
230	West 107th Street and Columbus Ave NE Block Corner - 6/10		59.09	61.1	62.8	61.6	63.1	66.6	62.9	36.1	37.8	36.6	38.1	41.6	37.9
231	West 107th Street and Columbus Ave NE Block Corner - 7/10		59.09	60.9	63.0	61.5	63.3	66.6	63.6	35.9	38.0	36.5	38.3	41.6	38.6
232	West 107th Street and Columbus Ave NE Block Corner - 8/10		59.09	61.3	63.3	61.8	63.9	67.1	64.1	36.3	38.3	36.8	38.9	42.1	39.1
233	West 107th Street and Columbus Ave NE Block Corner - 9/10		59.09	61.3	63.3	61.8	63.8	67.3	63.8	36.3	38.3	36.8	38.8	42.3	38.8
234	West 107th Street and Columbus Ave NE Block Corner - 10/10		59.09	61.4	63.3	62.1	63.9	67.6	63.9	36.4	38.3	37.1	38.9	42.6	38.9
235	West 108th Street and Columbus Ave SE Block Corner - 1/5		59.09	60.6	62.2	61.3	60.8	63.7	61.6	35.6	37.2	36.3	35.8	38.7	36.6
236	West 108th Street and Columbus Ave SE Block Corner - 2/5		59.09	60.6	62.1	61.3	61.8	65.1	62.4	35.6	37.1	36.3	36.8	40.1	37.4
237	West 108th Street and Columbus Ave SE Block Corner - 3/5		59.09	60.8	62.2	61.5	62.0	65.8	62.7	35.8	37.2	36.5	37.0	40.8	37.7
238	West 108th Street and Columbus Ave SE Block Corner - 4/5		59.09	61.1	62.8	61.9	62.5	66.7	63.1	36.1	37.8	36.9	37.5	41.7	38.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
239	West 108th Street and Columbus Ave SE Block Corner - 5/5		59.09	61.5	63.2	62.3	64.2	67.8	64.8	36.5	38.2	37.3	39.2	42.8	39.8
240	West 108th Street and Columbus Ave NE Block Corner - 1/5		59.09	59.8	60.6	61.0	61.0	63.2	61.9	34.8	35.6	36.0	36.0	38.2	36.9
241	West 108th Street and Columbus Ave NE Block Corner - 2/5		59.09	59.8	60.7	61.0	61.6	64.3	62.6	34.8	35.7	36.0	36.6	39.3	37.6
242	West 108th Street and Columbus Ave NE Block Corner - 3/5		59.09	60.0	61.0	61.1	62.3	65.4	63.2	35.0	36.0	36.1	37.3	40.4	38.2
243	West 108th Street and Columbus Ave NE Block Corner - 4/5		59.09	60.4	61.4	61.4	62.6	66.2	64.4	35.4	36.4	36.4	37.6	41.2	39.4
244	West 108th Street and Columbus Ave NE Block Corner - 5/5		59.09	61.0	62.5	62.0	63.8	67.0	65.6	36.0	37.5	37.0	38.8	42.0	40.6
245	West 109th Street and Columbus Ave SE Block Corner - 1/7		59.09	59.2	59.4	59.3	59.6	60.5	59.7	34.2	34.4	34.3	34.6	35.5	34.7
246	West 109th Street and Columbus Ave SE Block Corner - 2/7		59.09	59.2	59.4	59.3	59.7	60.7	59.8	34.2	34.4	34.3	34.7	35.7	34.8
247	West 109th Street and Columbus Ave SE Block Corner - 3/7		59.09	59.3	59.6	59.4	59.8	61.0	59.9	34.3	34.6	34.4	34.8	36.0	34.9
248	West 109th Street and Columbus Ave SE Block Corner - 4/7		59.09	59.4	59.9	59.6	59.9	61.3	60.1	34.4	34.9	34.6	34.9	36.3	35.1
249	West 109th Street and Columbus Ave SE Block Corner - 5/7		59.09	59.7	60.6	60.1	60.1	62.0	60.3	34.7	35.6	35.1	35.1	37.0	35.3
250	West 109th Street and Columbus Ave SE Block Corner - 6/7		59.09	60.2	61.5	60.8	60.3	62.4	60.4	35.2	36.5	35.8	35.3	37.4	35.4
251	West 109th Street and Columbus Ave SE Block Corner - 7/7		59.09	60.6	62.3	61.6	61.0	63.2	61.1	35.6	37.3	36.6	36.0	38.2	36.1
252	West 107th Street and Columbus Ave SW Block Corner - 1/6		59.09	59.3	59.6	59.3	59.2	59.6	59.3	34.3	34.6	34.3	34.2	34.6	34.3
253	West 107th Street and Columbus Ave SW Block Corner - 2/6		59.09	59.4	59.8	59.4	59.3	59.8	59.4	34.4	34.8	34.4	34.3	34.8	34.4
254	West 107th Street and Columbus Ave SW Block Corner - 3/6		59.09	59.5	60.0	59.6	59.4	60.0	59.5	34.5	35.0	34.6	34.4	35.0	34.5
255	West 107th Street and Columbus Ave SW Block Corner - 4/6		59.09	59.6	60.4	59.8	59.5	60.4	59.7	34.6	35.4	34.8	34.5	35.4	34.7
256	West 107th Street and Columbus Ave SW Block Corner - 5/6		59.09	60.0	61.1	60.2	60.1	61.8	60.7	35.0	36.1	35.2	35.1	36.8	35.7
257	West 107th Street and Columbus Ave SW Block Corner - 6/6		59.09	60.0	61.1	60.4	60.1	61.7	60.7	35.0	36.1	35.4	35.1	36.7	35.7
258	Red Oak Apartments - 1/9	149 WEST 106 STREET	59.09	62.7	65.4	63.5	59.5	61.0	59.6	37.7	40.4	38.5	34.5	36.0	34.6
259	Red Oak Apartments - 2/9	149 WEST 106 STREET	59.09	63.0	65.6	63.8	59.7	61.3	59.7	38.0	40.6	38.8	34.7	36.3	34.7
260	Red Oak Apartments - 3/9	149 WEST 106 STREET	59.09	63.2	65.8	64.1	59.9	61.9	59.9	38.2	40.8	39.1	34.9	36.9	34.9
261	Red Oak Apartments - 4/9	149 WEST 106 STREET	59.09	63.4	66.2	64.5	60.0	62.4	60.1	38.4	41.2	39.5	35.0	37.4	35.1
262	Red Oak Apartments - 5/9	149 WEST 106 STREET	59.09	63.3	66.2	64.6	60.2	62.8	60.4	38.3	41.2	39.6	35.2	37.8	35.4
263	Red Oak Apartments - 6/9	149 WEST 106 STREET	59.09	63.7	66.8	64.6	60.4	63.3	60.7	38.7	41.8	39.6	35.4	38.3	35.7
264	Red Oak Apartments - 7/9	149 WEST 106 STREET	59.09	63.5	67.1	64.5	60.7	63.7	61.0	38.5	42.1	39.5	35.7	38.7	36.0
265	Red Oak Apartments - 8/9	149 WEST 106 STREET	59.09	63.8	67.6	64.6	61.1	64.2	61.3	38.8	42.6	39.6	36.1	39.2	36.3
266	Red Oak Apartments - 9/9	149 WEST 106 STREET	59.09	64.1	67.8	64.8	61.3	64.4	61.5	39.1	42.8	39.8	36.3	39.4	36.5
267	West 107th Street and Amsterdam Ave SE Block Corner - 1/5		59.09	60.0	61.1	60.3	59.2	59.6	59.2	35.0	36.1	35.3	34.2	34.6	34.2
268	West 107th Street and Amsterdam Ave SE Block Corner - 2/5		59.09	60.3	62.1	60.9	59.5	60.3	59.3	35.3	37.1	35.9	34.5	35.3	34.3

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
269	West 107th Street and Amsterdam Ave SE Block Corner - 3/5		59.09	61.3	64.1	61.9	59.6	60.6	59.6	36.3	39.1	36.9	34.6	35.6	34.6
270	West 107th Street and Amsterdam Ave SE Block Corner - 4/5		59.09	62.2	65.6	63.4	59.9	61.5	59.6	37.2	40.6	38.4	34.9	36.5	34.6
271	West 107th Street and Amsterdam Ave SE Block Corner - 5/5		59.09	63.2	66.6	64.4	60.1	61.9	60.0	38.2	41.6	39.4	35.1	36.9	35.0
272	West 106th Street and Amsterdam Ave NE Block Corner - 1/5		59.09	60.7	62.5	61.7	59.6	60.5	59.4	35.7	37.5	36.7	34.6	35.5	34.4
273	West 106th Street and Amsterdam Ave NE Block Corner - 2/5		59.09	61.0	62.9	61.8	59.5	60.6	59.6	36.0	37.9	36.8	34.5	35.6	34.6
274	West 106th Street and Amsterdam Ave NE Block Corner - 3/5		59.09	61.4	63.5	62.2	59.6	60.9	59.8	36.4	38.5	37.2	34.6	35.9	34.8
275	West 106th Street and Amsterdam Ave NE Block Corner - 4/5		59.09	62.0	64.4	62.6	59.8	61.3	59.9	37.0	39.4	37.6	34.8	36.3	34.9
276	West 106th Street and Amsterdam Ave NE Block Corner - 5/5		59.09	62.0	64.9	63.0	59.9	61.4	59.9	37.0	39.9	38.0	34.9	36.4	34.9
277	Avalon Morningside Park - 1/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.1	59.1	59.2	59.1	34.1	34.2	34.1	34.1	34.2	34.1
278	Avalon Morningside Park - 2/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.1	59.1	59.2	59.1	34.1	34.2	34.1	34.1	34.2	34.1
279	Avalon Morningside Park - 3/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.1	59.1	59.2	59.1	34.1	34.2	34.1	34.1	34.2	34.1
280	Avalon Morningside Park - 4/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
281	Avalon Morningside Park - 5/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
282	Avalon Morningside Park - 6/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.2	59.1	34.1	34.2	34.2	34.1	34.2	34.1
283	Avalon Morningside Park - 7/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.3	59.2	34.1	34.2	34.2	34.1	34.3	34.2
284	Avalon Morningside Park - 8/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.3	59.2	34.1	34.2	34.2	34.1	34.3	34.2
285	Avalon Morningside Park - 9/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.3	59.2	34.1	34.2	34.2	34.1	34.3	34.2
286	Avalon Morningside Park - 10/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.1	59.4	59.2	34.1	34.2	34.2	34.1	34.4	34.2
287	Avalon Morningside Park - 11/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.2	59.4	59.2	34.1	34.2	34.2	34.2	34.4	34.2
288	Avalon Morningside Park - 12/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.2	59.5	59.2	34.1	34.2	34.2	34.2	34.5	34.2
289	Avalon Morningside Park - 13/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.2	59.6	59.3	34.1	34.2	34.2	34.2	34.6	34.3
290	Avalon Morningside Park - 14/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.3	60.0	59.4	34.1	34.2	34.2	34.3	35.0	34.4
291	Avalon Morningside Park - 15/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.4	60.4	59.5	34.1	34.2	34.2	34.4	35.4	34.5
292	Avalon Morningside Park - 16/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.4	60.8	59.6	34.1	34.2	34.2	34.4	35.8	34.6
293	Avalon Morningside Park - 17/18	1 MORNINGSIDE DRIVE	59.09	59.1	59.2	59.2	59.5	61.0	59.8	34.1	34.2	34.2	34.5	36.0	34.8
294	Avalon Morningside Park - 18/18	1 MORNINGSIDE DRIVE	59.09	59.2	59.2	59.2	59.6	61.4	60.1	34.2	34.2	34.2	34.6	36.4	35.1
295	W. 109th Street and Columbus Ave NE Block Corner - 1/15		59.09	59.1	59.2	59.2	59.2	59.4	59.3	34.1	34.2	34.2	34.2	34.4	34.3
296	W. 109th Street and Columbus Ave NE Block Corner - 2/15		59.09	59.1	59.2	59.2	59.2	59.4	59.3	34.1	34.2	34.2	34.2	34.4	34.3
297	W. 109th Street and Columbus Ave NE Block Corner - 3/15		59.09	59.2	59.2	59.2	59.2	59.5	59.3	34.2	34.2	34.2	34.2	34.5	34.3
298	W. 109th Street and Columbus Ave NE Block Corner - 4/15		59.09	59.1	59.2	59.2	59.3	59.6	59.4	34.1	34.2	34.2	34.3	34.6	34.4
299	W. 109th Street and Columbus Ave NE Block Corner - 5/15		59.09	59.2	59.2	59.2	59.3	59.7	59.4	34.2	34.2	34.2	34.3	34.7	34.4
300	W. 109th Street and Columbus Ave NE Block Corner - 6/15		59.09	59.2	59.3	59.2	59.3	59.8	59.5	34.2	34.3	34.2	34.3	34.8	34.5
301	W. 109th Street and Columbus Ave NE Block Corner - 7/15		59.09	59.2	59.3	59.3	59.4	60.0	59.6	34.2	34.3	34.3	34.4	35.0	34.6
302	W. 109th Street and Columbus Ave NE Block Corner - 8/15		59.09	59.2	59.5	59.4	59.5	60.4	59.8	34.2	34.5	34.4	34.5	35.4	34.8
303	W. 109th Street and Columbus Ave NE Block Corner - 9/15		59.09	59.4	59.6	59.6	59.8	61.1	60.2	34.4	34.6	34.6	34.8	36.1	35.2
304	W. 109th Street and Columbus Ave NE Block Corner - 10/15		59.09	59.5	59.8	59.7	60.0	61.6	60.5	34.5	34.8	34.7	35.0	36.6	35.5
305	W. 109th Street and Columbus Ave NE Block Corner - 11/15		59.09	59.5	60.0	60.0	60.2	62.2	60.9	34.5	35.0	35.0	35.2	37.2	35.9

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
306	W. 109th Street and Columbus Ave NE Block Corner - 12/15		59.09	59.6	60.3	60.2	60.5	62.7	61.2	34.6	35.3	35.2	35.5	37.7	36.2
307	W. 109th Street and Columbus Ave NE Block Corner - 13/15		59.09	59.8	60.5	60.5	60.9	63.3	61.5	34.8	35.5	35.5	35.9	38.3	36.5
308	W. 109th Street and Columbus Ave NE Block Corner - 14/15		59.09	59.9	60.8	60.8	61.2	63.8	61.9	34.9	35.8	35.8	36.2	38.8	36.9
309	W. 109th Street and Columbus Ave NE Block Corner - 15/15		59.09	60.2	61.0	61.1	61.6	64.2	62.1	35.2	36.0	36.1	36.6	39.2	37.1
310	Single Residential Property - 1/10	1020 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
311	Single Residential Property - 2/10	1020 AMSTERDAM AVENUE	59.09	59.1	59.2	59.1	59.1	59.1	59.1	34.1	34.2	34.1	34.1	34.1	34.1
312	Single Residential Property - 3/10	1020 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
313	Single Residential Property - 4/10	1020 AMSTERDAM AVENUE	59.09	59.1	59.2	59.2	59.1	59.1	59.1	34.1	34.2	34.2	34.1	34.1	34.1
314	Single Residential Property - 5/10	1020 AMSTERDAM AVENUE	59.09	59.2	59.2	59.2	59.1	59.2	59.1	34.2	34.2	34.2	34.1	34.2	34.1
315	Single Residential Property - 6/10	1020 AMSTERDAM AVENUE	59.09	59.2	59.3	59.3	59.1	59.2	59.1	34.2	34.3	34.3	34.1	34.2	34.1
316	Single Residential Property - 7/10	1020 AMSTERDAM AVENUE	59.09	59.3	59.4	59.4	59.1	59.2	59.1	34.3	34.4	34.4	34.1	34.2	34.1
317	Single Residential Property - 8/10	1020 AMSTERDAM AVENUE	59.09	59.3	59.5	59.5	59.1	59.2	59.2	34.3	34.5	34.5	34.1	34.2	34.2
318	Single Residential Property - 9/10	1020 AMSTERDAM AVENUE	59.09	59.4	59.6	59.6	59.2	59.3	59.2	34.4	34.6	34.6	34.2	34.3	34.2
319	Single Residential Property - 10/10	1020 AMSTERDAM AVENUE	59.09	59.4	59.6	59.6	59.2	59.3	59.2	34.4	34.6	34.6	34.2	34.3	34.2
320	Single Residential Property - 1/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.3	59.7	59.4	34.2	34.3	34.2	34.3	34.7	34.4
321	Single Residential Property - 2/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.4	59.9	59.4	34.2	34.3	34.2	34.4	34.9	34.4
322	Single Residential Property - 3/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.3	59.4	60.1	59.6	34.2	34.3	34.3	34.4	35.1	34.6
323	Single Residential Property - 4/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.6	60.6	59.8	34.2	34.4	34.3	34.6	35.6	34.8
324	Single Residential Property - 5/7	400 CATHEDRAL PARKWAY	59.09	59.3	59.5	59.5	60.3	61.9	60.7	34.3	34.5	34.5	35.3	36.9	35.7
325	Single Residential Property - 6/7	400 CATHEDRAL PARKWAY	59.09	59.5	60.0	59.8	61.5	64.5	62.3	34.5	35.0	34.8	36.5	39.5	37.3
326	Single Residential Property - 7/7	400 CATHEDRAL PARKWAY	59.09	60.0	60.5	60.5	62.9	66.6	63.6	35.0	35.5	35.5	37.9	41.6	38.6
327	Single Residential Property - 1/6	107 WEST 109 STREET	59.09	59.2	59.4	59.3	59.4	60.0	59.5	34.2	34.4	34.3	34.4	35.0	34.5
328	Single Residential Property - 2/6	107 WEST 109 STREET	59.09	59.2	59.4	59.3	59.4	60.1	59.6	34.2	34.4	34.3	34.4	35.1	34.6
329	Single Residential Property - 3/6	107 WEST 109 STREET	59.09	59.3	59.5	59.4	59.5	60.4	59.7	34.3	34.5	34.4	34.5	35.4	34.7
330	Single Residential Property - 4/6	107 WEST 109 STREET	59.09	59.3	59.6	59.5	59.6	60.8	59.9	34.3	34.6	34.5	34.6	35.8	34.9
331	Single Residential Property - 5/6	107 WEST 109 STREET	59.09	59.4	59.7	59.6	59.9	61.6	60.3	34.4	34.7	34.6	34.9	36.6	35.3
332	Single Residential Property - 6/6	107 WEST 109 STREET	59.09	59.6	60.0	59.9	61.1	64.2	62.0	34.6	35.0	34.9	36.1	39.2	37.0
333	Single Residential Property - 1/12	141 WEST 109 STREET	59.09	59.4	59.8	59.5	59.2	59.4	59.2	34.4	34.8	34.5	34.2	34.4	34.2
334	Single Residential Property - 2/12	141 WEST 109 STREET	59.09	59.4	59.8	59.6	59.2	59.4	59.2	34.4	34.8	34.6	34.2	34.4	34.2
335	Single Residential Property - 3/12	141 WEST 109 STREET	59.09	59.4	59.9	59.6	59.2	59.4	59.2	34.4	34.9	34.6	34.2	34.4	34.2
336	Single Residential Property - 4/12	141 WEST 109 STREET	59.09	59.5	60.0	59.7	59.2	59.5	59.3	34.5	35.0	34.7	34.2	34.5	34.3
337	Single Residential Property - 5/12	141 WEST 109 STREET	59.09	59.6	60.1	59.8	59.3	59.6	59.3	34.6	35.1	34.8	34.3	34.6	34.3
338	Single Residential Property - 6/12	141 WEST 109 STREET	59.09	59.7	60.3	60.0	59.4	59.8	59.4	34.7	35.3	35.0	34.4	34.8	34.4
339	Single Residential Property - 7/12	141 WEST 109 STREET	59.09	59.8	60.5	60.3	59.5	60.1	59.6	34.8	35.5	35.3	34.5	35.1	34.6
340	Single Residential Property - 8/12	141 WEST 109 STREET	59.09	60.6	61.8	61.5	60.0	61.3	60.1	35.6	36.8	36.5	35.0	36.3	35.1
341	Single Residential Property - 9/12	141 WEST 109 STREET	59.09	60.9	62.3	62.1	60.4	62.2	60.6	35.9	37.3	37.1	35.4	37.2	35.6
342	Single Residential Property - 10/12	141 WEST 109 STREET	59.09	61.3	62.8	62.8	60.9	63.0	61.2	36.3	37.8	37.8	35.9	38.0	36.2
343	Single Residential Property - 11/12	141 WEST 109 STREET	59.09	61.9	63.5	63.7	61.2	63.5	61.5	36.9	38.5	38.7	36.2	38.5	36.5
344	Single Residential Property - 12/12	141 WEST 109 STREET	59.09	63.3	65.1	65.8	61.7	64.3	62.2	38.3	40.1	40.8	36.7	39.3	37.2
345	Single Residential Property - 1/5	983 AMSTERDAM AVENUE	59.09	64.1	68.0	65.0	60.9	63.4	61.5	39.1	43.0	40.0	35.9	38.4	36.5
346	Single Residential Property - 2/5	983 AMSTERDAM AVENUE	59.09	73.9	78.1	75.2	60.9	63.5	61.5	48.9	53.1	50.2	35.9	38.5	36.5

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
347	Single Residential Property - 3/5	983 AMSTERDAM AVENUE	59.09	75.8	80.2	77.2	61.0	63.7	61.5	50.8	55.2	52.2	36.0	38.7	36.5
348	Single Residential Property - 4/5	983 AMSTERDAM AVENUE	59.09	75.5	79.9	77.0	61.5	64.4	62.1	50.5	54.9	52.0	36.5	39.4	37.1
349	Single Residential Property - 5/5	983 AMSTERDAM AVENUE	59.09	75.1	79.6	76.6	62.3	65.5	63.1	50.1	54.6	51.6	37.3	40.5	38.1
350	Single Residential Property - 1/5	980 COLUMBUS AVENUE	59.09	59.6	60.3	60.1	65.3	69.2	66.9	34.6	35.3	35.1	40.3	44.2	41.9
351	Single Residential Property - 2/5	980 COLUMBUS AVENUE	59.09	59.7	60.5	60.3	67.9	72.0	69.4	34.7	35.5	35.3	42.9	47.0	44.4
352	Single Residential Property - 3/5	980 COLUMBUS AVENUE	59.09	59.9	60.8	60.6	70.6	75.0	72.7	34.9	35.8	35.6	45.6	50.0	47.7
353	Single Residential Property - 4/5	980 COLUMBUS AVENUE	59.09	60.4	61.5	61.3	71.8	76.1	73.7	35.4	36.5	36.3	46.8	51.1	48.7
354	Single Residential Property - 5/5	980 COLUMBUS AVENUE	59.09	61.0	62.5	62.1	71.9	76.3	73.7	36.0	37.5	37.1	46.9	51.3	48.7
355	Single Residential Property - 1/5	114 WEST 109 STREET	59.09	64.9	67.6	66.7	62.6	66.7	62.6	39.9	42.6	41.7	37.6	41.7	37.6
356	Single Residential Property - 2/5	114 WEST 109 STREET	59.09	66.1	68.9	68.1	73.0	78.7	72.2	41.1	43.9	43.1	48.0	53.7	47.2
357	Single Residential Property - 3/5	114 WEST 109 STREET	59.09	68.1	71.3	70.2	73.1	78.7	72.6	43.1	46.3	45.2	48.1	53.7	47.6
358	Single Residential Property - 4/5	114 WEST 109 STREET	59.09	68.8	72.4	71.4	73.0	78.5	72.6	43.8	47.4	46.4	48.0	53.5	47.6
359	Single Residential Property - 5/5	114 WEST 109 STREET	59.09	69.2	72.9	71.8	72.6	78.1	72.5	44.2	47.9	46.8	47.6	53.1	47.5
360	Single Residential Property - 1/5	110 WEST 109 STREET	59.09	63.8	66.3	65.5	64.9	69.7	64.8	38.8	41.3	40.5	39.9	44.7	39.8
361	Single Residential Property - 2/5	110 WEST 109 STREET	59.09	64.5	67.2	66.6	75.5	81.0	74.8	39.5	42.2	41.6	50.5	56.0	49.8
362	Single Residential Property - 3/5	110 WEST 109 STREET	59.09	66.1	68.8	67.8	75.4	80.6	74.9	41.1	43.8	42.8	50.4	55.6	49.9
363	Single Residential Property - 4/5	110 WEST 109 STREET	59.09	66.8	70.2	69.2	75.2	80.2	74.9	41.8	45.2	44.2	50.2	55.2	49.9
364	Single Residential Property - 5/5	110 WEST 109 STREET	59.09	67.1	70.7	69.8	74.7	79.7	74.5	42.1	45.7	44.8	49.7	54.7	49.5
365	Single Residential Property - 1/5	126 WEST 109 STREET	59.09	64.2	69.8	67.6	62.4	66.2	63.1	39.2	44.8	42.6	37.4	41.2	38.1
366	Single Residential Property - 2/5	126 WEST 109 STREET	59.09	76.1	82.1	78.5	64.1	68.3	65.0	51.1	57.1	53.5	39.1	43.3	40.0
367	Single Residential Property - 3/5	126 WEST 109 STREET	59.09	76.3	82.5	79.6	66.0	70.3	66.9	51.3	57.5	54.6	41.0	45.3	41.9
368	Single Residential Property - 4/5	126 WEST 109 STREET	59.09	76.1	81.6	79.0	67.1	71.9	68.2	51.1	56.6	54.0	42.1	46.9	43.2
369	Single Residential Property - 5/5	126 WEST 109 STREET	59.09	75.8	80.8	78.4	67.1	72.1	68.3	50.8	55.8	53.4	42.1	47.1	43.3
370	Single Residential Property - 1/5	991 AMSTERDAM AVENUE	59.09	60.7	62.9	60.7	59.2	59.3	59.2	35.7	37.9	35.7	34.2	34.3	34.2
371	Single Residential Property - 2/5	991 AMSTERDAM AVENUE	59.09	63.0	66.2	62.7	59.2	59.3	59.2	38.0	41.2	37.7	34.2	34.3	34.2
372	Single Residential Property - 3/5	991 AMSTERDAM AVENUE	59.09	66.3	69.9	65.7	59.2	59.4	59.2	41.3	44.9	40.7	34.2	34.4	34.2
373	Single Residential Property - 4/5	991 AMSTERDAM AVENUE	59.09	66.3	70.1	65.9	59.3	59.8	59.4	41.3	45.1	40.9	34.3	34.8	34.4
374	Single Residential Property - 5/5	991 AMSTERDAM AVENUE	59.09	66.8	70.2	67.0	59.8	61.0	60.0	41.8	45.2	42.0	34.8	36.0	35.0
375	Single Residential Property - 1/5	170 WEST 109 STREET	59.09	63.5	70.0	63.8	60.5	62.7	60.9	38.5	45.0	38.8	35.5	37.7	35.9
376	Single Residential Property - 2/5	170 WEST 109 STREET	59.09	75.7	83.1	75.6	60.7	63.0	61.1	50.7	58.1	50.6	35.7	38.0	36.1
377	Single Residential Property - 3/5	170 WEST 109 STREET	59.09	76.5	83.5	76.6	60.7	63.2	61.1	51.5	58.5	51.6	35.7	38.2	36.1
378	Single Residential Property - 4/5	170 WEST 109 STREET	59.09	76.2	82.5	76.5	61.0	63.6	61.3	51.2	57.5	51.5	36.0	38.6	36.3
379	Single Residential Property - 5/5	170 WEST 109 STREET	59.09	75.9	81.4	76.3	61.6	64.6	62.3	50.9	56.4	51.3	36.6	39.6	37.3
380	Single Residential Property - 1/3	165 WEST 107 STREET	59.09	65.6	68.5	67.2	61.3	64.1	61.6	40.6	43.5	42.2	36.3	39.1	36.6
381	Single Residential Property - 2/3	165 WEST 107 STREET	59.09	67.0	70.2	68.5	61.5	64.5	61.9	42.0	45.2	43.5	36.5	39.5	36.9
382	Single Residential Property - 3/3	165 WEST 107 STREET	59.09	67.7	71.6	69.3	61.8	64.8	62.1	42.7	46.6	44.3	36.8	39.8	37.1
383	Single Residential Property - 1/5	142 WEST 109 STREET	59.09	64.8	74.7	65.4	60.7	63.0	61.1	39.8	49.7	40.4	35.7	38.0	36.1
384	Single Residential Property - 2/5	142 WEST 109 STREET	59.09	74.6	84.1	75.2	61.0	63.5	61.5	49.6	59.1	50.2	36.0	38.5	36.5
385	Single Residential Property - 3/5	142 WEST 109 STREET	59.09	76.7	86.4	77.2	61.0	63.8	61.5	51.7	61.4	52.2	36.0	38.8	36.5
386	Single Residential Property - 4/5	142 WEST 109 STREET	59.09	76.4	84.6	77.1	61.5	64.6	62.1	51.4	59.6	52.1	36.5	39.6	37.1
387	Single Residential Property - 5/5	142 WEST 109 STREET	59.09	76.1	83.1	76.9	62.3	65.6	63.1	51.1	58.1	51.9	37.3	40.6	38.1

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TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
388	Single Residential Property - 1/5	132 WEST 109 STREET	59.09	66.0	70.3	73.4	61.7	64.8	62.2	41.0	45.3	48.4	36.7	39.8	37.2
389	Single Residential Property - 2/5	132 WEST 109 STREET	59.09	77.3	81.4	83.5	62.4	66.1	63.1	52.3	56.4	58.5	37.4	41.1	38.1
390	Single Residential Property - 3/5	132 WEST 109 STREET	59.09	77.2	81.5	82.4	63.3	67.2	64.1	52.2	56.5	57.4	38.3	42.2	39.1
391	Single Residential Property - 4/5	132 WEST 109 STREET	59.09	76.8	80.9	80.5	64.5	69.0	65.5	51.8	55.9	55.5	39.5	44.0	40.5
392	Single Residential Property - 5/5	132 WEST 109 STREET	59.09	76.4	80.3	79.2	64.8	69.4	65.8	51.4	55.3	54.2	39.8	44.4	40.8
393	Single Residential Property - 1/5	126 WEST 109 STREET	59.09	63.9	70.2	66.0	62.7	66.6	63.2	38.9	45.2	41.0	37.7	41.6	38.2
394	Single Residential Property - 2/5	126 WEST 109 STREET	59.09	75.4	82.8	77.2	64.8	69.2	65.4	50.4	57.8	52.2	39.8	44.2	40.4
395	Single Residential Property - 3/5	126 WEST 109 STREET	59.09	75.7	82.8	77.9	67.2	71.7	67.9	50.7	57.8	52.9	42.2	46.7	42.9
396	Single Residential Property - 4/5	126 WEST 109 STREET	59.09	75.5	81.7	77.7	67.8	72.9	68.7	50.5	56.7	52.7	42.8	47.9	43.7
397	Single Residential Property - 5/5	126 WEST 109 STREET	59.09	75.2	80.7	77.3	67.9	73.0	68.9	50.2	55.7	52.3	42.9	48.0	43.9
398	Single Residential Property - 1/5	114 WEST 109 STREET	59.09	64.3	66.9	66.0	63.8	68.5	63.6	39.3	41.9	41.0	38.8	43.5	38.6
399	Single Residential Property - 2/5	114 WEST 109 STREET	59.09	65.2	68.0	67.2	74.4	80.2	73.5	40.2	43.0	42.2	49.4	55.2	48.5
400	Single Residential Property - 3/5	114 WEST 109 STREET	59.09	67.1	70.0	69.0	74.3	79.9	73.7	42.1	45.0	44.0	49.3	54.9	48.7
401	Single Residential Property - 4/5	114 WEST 109 STREET	59.09	67.7	71.2	70.2	74.1	79.5	73.7	42.7	46.2	45.2	49.1	54.5	48.7
402	Single Residential Property - 5/5	114 WEST 109 STREET	59.09	68.2	71.7	70.7	73.8	78.9	73.5	43.2	46.7	45.7	48.8	53.9	48.5
403	Single Residential Property - 1/5	963 AMSTERDAM AVENUE	59.09	59.3	60.1	59.7	59.1	59.2	59.1	34.3	35.1	34.7	34.1	34.2	34.1
404	Single Residential Property - 2/5	963 AMSTERDAM AVENUE	59.09	59.4	61.0	60.0	59.1	59.2	59.1	34.4	36.0	35.0	34.1	34.2	34.1
405	Single Residential Property - 3/5	963 AMSTERDAM AVENUE	59.09	59.7	62.3	61.1	59.1	59.2	59.1	34.7	37.3	36.1	34.1	34.2	34.1
406	Single Residential Property - 4/5	963 AMSTERDAM AVENUE	59.09	60.6	63.6	61.4	59.1	59.2	59.1	35.6	38.6	36.4	34.1	34.2	34.1
407	Single Residential Property - 5/5	963 AMSTERDAM AVENUE	59.09	60.7	65.0	62.9	59.1	59.3	59.2	35.7	40.0	37.9	34.1	34.3	34.2
408	Single Residential Property - 1/5	995 AMSTERDAM AVENUE	59.09	59.5	60.4	59.7	59.2	59.3	59.2	34.5	35.4	34.7	34.2	34.3	34.2
409	Single Residential Property - 2/5	995 AMSTERDAM AVENUE	59.09	59.5	61.0	59.7	59.1	59.3	59.2	34.5	36.0	34.7	34.1	34.3	34.2
410	Single Residential Property - 3/5	995 AMSTERDAM AVENUE	59.09	59.7	61.2	60.4	59.2	59.3	59.2	34.7	36.2	35.4	34.2	34.3	34.2
411	Single Residential Property - 4/5	995 AMSTERDAM AVENUE	59.09	60.0	61.5	60.7	59.2	59.5	59.3	35.0	36.5	35.7	34.2	34.5	34.3
412	Single Residential Property - 5/5	995 AMSTERDAM AVENUE	59.09	60.8	62.5	61.7	59.4	60.0	59.5	35.8	37.5	36.7	34.4	35.0	34.5
413	Single Residential Property - 1/5	138 WEST 109 STREET	59.09	65.4	71.3	66.3	60.9	63.5	61.3	40.4	46.3	41.3	35.9	38.5	36.3
414	Single Residential Property - 2/5	138 WEST 109 STREET	59.09	76.5	81.6	76.9	61.3	64.2	61.8	51.5	56.6	51.9	36.3	39.2	36.8
415	Single Residential Property - 3/5	138 WEST 109 STREET	59.09	77.2	83.2	77.9	61.5	64.6	61.9	52.2	58.2	52.9	36.5	39.6	36.9
416	Single Residential Property - 4/5	138 WEST 109 STREET	59.09	77.0	82.5	77.8	62.5	65.9	63.2	52.0	57.5	52.8	37.5	40.9	38.2
417	Single Residential Property - 5/5	138 WEST 109 STREET	59.09	76.6	81.6	77.5	63.2	66.9	63.9	51.6	56.6	52.5	38.2	41.9	38.9
418	Single Residential Property - 1/5	985 AMSTERDAM AVENUE	59.09	63.9	67.9	64.5	61.0	63.5	61.4	38.9	42.9	39.5	36.0	38.5	36.4
419	Single Residential Property - 2/5	985 AMSTERDAM AVENUE	59.09	74.0	78.5	74.8	61.1	63.7	61.5	49.0	53.5	49.8	36.1	38.7	36.5
420	Single Residential Property - 3/5	985 AMSTERDAM AVENUE	59.09	75.8	80.3	76.6	61.1	63.9	61.5	50.8	55.3	51.6	36.1	38.9	36.5
421	Single Residential Property - 4/5	985 AMSTERDAM AVENUE	59.09	75.4	80.0	76.4	61.5	64.5	62.0	50.4	55.0	51.4	36.5	39.5	37.0
422	Single Residential Property - 5/5	985 AMSTERDAM AVENUE	59.09	75.0	79.6	76.1	62.3	65.6	63.0	50.0	54.6	51.1	37.3	40.6	38.0
423	Single Residential Property - 1/5	136 WEST 109 STREET	59.09	65.7	70.4	67.1	61.1	63.9	61.5	40.7	45.4	42.1	36.1	38.9	36.5
424	Single Residential Property - 2/5	136 WEST 109 STREET	59.09	77.4	81.7	77.7	61.7	64.8	62.1	52.4	56.7	52.7	36.7	39.8	37.1
425	Single Residential Property - 3/5	136 WEST 109 STREET	59.09	77.4	82.0	78.4	62.0	65.3	62.4	52.4	57.0	53.4	37.0	40.3	37.4
426	Single Residential Property - 4/5	136 WEST 109 STREET	59.09	77.1	81.4	78.1	63.2	66.9	63.9	52.1	56.4	53.1	38.2	41.9	38.9
427	Single Residential Property - 5/5	136 WEST 109 STREET	59.09	76.6	80.7	77.7	63.7	67.7	64.6	51.6	55.7	52.7	38.7	42.7	39.6
428	Single Residential Property - 1/5	140 WEST 109 STREET	59.09	64.6	72.6	65.3	60.7	63.2	61.1	39.6	47.6	40.3	35.7	38.2	36.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
429	Single Residential Property - 2/5	140 WEST 109 STREET	59.09	74.7	82.0	75.4	61.1	63.9	61.6	49.7	57.0	50.4	36.1	38.9	36.6
430	Single Residential Property - 3/5	140 WEST 109 STREET	59.09	76.9	85.1	77.5	61.2	64.2	61.7	51.9	60.1	52.5	36.2	39.2	36.7
431	Single Residential Property - 4/5	140 WEST 109 STREET	59.09	76.7	83.8	77.4	62.0	65.2	62.6	51.7	58.8	52.4	37.0	40.2	37.6
432	Single Residential Property - 5/5	140 WEST 109 STREET	59.09	76.4	82.6	77.1	62.7	66.2	63.5	51.4	57.6	52.1	37.7	41.2	38.5
433	Single Residential Property - 1/5	118 WEST 109 STREET	59.09	65.1	67.7	66.7	60.9	64.1	61.0	40.1	42.7	41.7	35.9	39.1	36.0
434	Single Residential Property - 2/5	118 WEST 109 STREET	59.09	66.5	69.4	68.4	70.9	76.7	70.7	41.5	44.4	43.4	45.9	51.7	45.7
435	Single Residential Property - 3/5	118 WEST 109 STREET	59.09	68.6	72.0	70.9	71.0	77.0	71.0	43.6	47.0	45.9	46.0	52.0	46.0
436	Single Residential Property - 4/5	118 WEST 109 STREET	59.09	69.4	73.3	72.0	71.0	76.8	71.2	44.4	48.3	47.0	46.0	51.8	46.2
437	Single Residential Property - 5/5	118 WEST 109 STREET	59.09	70.2	73.6	72.5	70.7	76.4	71.1	45.2	48.6	47.5	45.7	51.4	46.1
438	Single Residential Property - 1/5	971 AMSTERDAM AVENUE	59.09	60.2	61.7	60.8	59.2	59.4	59.2	35.2	36.7	35.8	34.2	34.4	34.2
439	Single Residential Property - 2/5	971 AMSTERDAM AVENUE	59.09	64.1	67.3	65.2	60.1	61.8	60.3	39.1	42.3	40.2	35.1	36.8	35.3
440	Single Residential Property - 3/5	971 AMSTERDAM AVENUE	59.09	67.1	70.8	68.6	60.9	63.3	61.2	42.1	45.8	43.6	35.9	38.3	36.2
441	Single Residential Property - 4/5	971 AMSTERDAM AVENUE	59.09	68.7	72.9	69.7	61.1	63.7	61.4	43.7	47.9	44.7	36.1	38.7	36.4
442	Single Residential Property - 5/5	971 AMSTERDAM AVENUE	59.09	69.7	73.7	70.1	61.5	64.1	61.9	44.7	48.7	45.1	36.5	39.1	36.9
443	Single Residential Property - 1/5	124 WEST 109 STREET	59.09	65.9	71.1	67.5	62.8	67.0	63.2	40.9	46.1	42.5	37.8	42.0	38.2
444	Single Residential Property - 2/5	124 WEST 109 STREET	59.09	72.5	78.1	74.1	65.4	70.2	66.1	47.5	53.1	49.1	40.4	45.2	41.1
445	Single Residential Property - 3/5	124 WEST 109 STREET	59.09	75.0	81.5	76.9	68.5	73.6	69.2	50.0	56.5	51.9	43.5	48.6	44.2
446	Single Residential Property - 4/5	124 WEST 109 STREET	59.09	74.8	80.7	76.7	68.7	74.0	69.5	49.8	55.7	51.7	43.7	49.0	44.5
447	Single Residential Property - 5/5	124 WEST 109 STREET	59.09	74.5	79.8	76.4	68.9	73.9	69.6	49.5	54.8	51.4	43.9	48.9	44.6
448	Single Residential Property - 1/5	102 WEST 109 STREET	59.09	62.1	64.4	63.2	72.7	77.5	81.7	37.1	39.4	38.2	47.7	52.5	56.7
449	Single Residential Property - 2/5	102 WEST 109 STREET	59.09	62.5	65.0	63.9	74.8	79.7	83.1	37.5	40.0	38.9	49.8	54.7	58.1
450	Single Residential Property - 3/5	102 WEST 109 STREET	59.09	62.7	65.4	64.2	74.9	79.9	82.0	37.7	40.4	39.2	49.9	54.9	57.0
451	Single Residential Property - 4/5	102 WEST 109 STREET	59.09	63.7	66.4	65.1	74.8	79.7	80.3	38.7	41.4	40.1	49.8	54.7	55.3
452	Single Residential Property - 5/5	102 WEST 109 STREET	59.09	64.5	67.4	66.0	74.6	79.5	78.8	39.5	42.4	41.0	49.6	54.5	53.8
453	Single Residential Property - 1/5	144 WEST 109 STREET	59.09	64.6	73.0	65.1	60.6	62.9	61.1	39.6	48.0	40.1	35.6	37.9	36.1
454	Single Residential Property - 2/5	144 WEST 109 STREET	59.09	74.6	81.9	74.8	60.9	63.3	61.4	49.6	56.9	49.8	35.9	38.3	36.4
455	Single Residential Property - 3/5	144 WEST 109 STREET	59.09	76.6	84.9	76.8	60.9	63.5	61.5	51.6	59.9	51.8	35.9	38.5	36.5
456	Single Residential Property - 4/5	144 WEST 109 STREET	59.09	76.3	83.8	76.8	61.3	64.1	61.9	51.3	58.8	51.8	36.3	39.1	36.9
457	Single Residential Property - 5/5	144 WEST 109 STREET	59.09	75.9	82.7	76.5	62.0	65.1	63.0	50.9	57.7	51.5	37.0	40.1	38.0
458	Single Residential Property - 1/5	981 AMSTERDAM AVENUE	59.09	62.8	66.7	64.1	61.0	63.4	61.4	37.8	41.7	39.1	36.0	38.4	36.4
459	Single Residential Property - 2/5	981 AMSTERDAM AVENUE	59.09	75.6	80.8	77.7	61.0	63.5	61.4	50.6	55.8	52.7	36.0	38.5	36.4
460	Single Residential Property - 3/5	981 AMSTERDAM AVENUE	59.09	75.7	80.6	77.8	61.1	63.7	61.5	50.7	55.6	52.8	36.1	38.7	36.5
461	Single Residential Property - 4/5	981 AMSTERDAM AVENUE	59.09	75.4	80.0	77.5	61.6	64.6	62.1	50.4	55.0	52.5	36.6	39.6	37.1
462	Single Residential Property - 5/5	981 AMSTERDAM AVENUE	59.09	75.0	79.4	77.1	62.4	65.7	63.2	50.0	54.4	52.1	37.4	40.7	38.2
463	Single Residential Property - 1/5	106 WEST 109 STREET	59.09	62.1	64.5	63.3	64.6	68.8	71.5	37.1	39.5	38.3	39.6	43.8	46.5
464	Single Residential Property - 2/5	106 WEST 109 STREET	59.09	62.5	65.1	63.8	75.3	80.3	82.7	37.5	40.1	38.8	50.3	55.3	57.7
465	Single Residential Property - 3/5	106 WEST 109 STREET	59.09	63.0	65.8	64.5	75.4	80.3	81.0	38.0	40.8	39.5	50.4	55.3	56.0
466	Single Residential Property - 4/5	106 WEST 109 STREET	59.09	64.3	67.1	65.6	75.1	79.9	79.3	39.3	42.1	40.6	50.1	54.9	54.3
467	Single Residential Property - 5/5	106 WEST 109 STREET	59.09	64.4	67.5	66.2	74.7	79.5	78.0	39.4	42.5	41.2	49.7	54.5	53.0
468	Single Residential Property - 1/5	172 WEST 109 STREET	59.09	62.9	67.6	63.2	60.8	63.1	61.3	37.9	42.6	38.2	35.8	38.1	36.3
469	Single Residential Property - 2/5	172 WEST 109 STREET	59.09	74.4	80.3	74.8	61.0	63.3	61.5	49.4	55.3	49.8	36.0	38.3	36.5

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				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
470	Single Residential Property - 3/5	172 WEST 109 STREET	59.09	75.7	81.4	76.1	61.1	63.6	61.5	50.7	56.4	51.1	36.1	38.6	36.5
471	Single Residential Property - 4/5	172 WEST 109 STREET	59.09	75.5	80.7	76.0	61.2	63.9	61.7	50.5	55.7	51.0	36.2	38.9	36.7
472	Single Residential Property - 5/5	172 WEST 109 STREET	59.09	75.1	80.0	75.8	61.9	64.9	62.6	50.1	55.0	50.8	36.9	39.9	37.6
473	Single Residential Property - 1/5	110 WEST 109 STREET	59.09	63.1	65.6	64.7	64.6	68.8	64.8	38.1	40.6	39.7	39.6	43.8	39.8
474	Single Residential Property - 2/5	110 WEST 109 STREET	59.09	63.8	66.5	65.7	75.9	80.7	76.0	38.8	41.5	40.7	50.9	55.7	51.0
475	Single Residential Property - 3/5	110 WEST 109 STREET	59.09	64.9	67.6	66.6	75.8	80.7	76.1	39.9	42.6	41.6	50.8	55.7	51.1
476	Single Residential Property - 4/5	110 WEST 109 STREET	59.09	66.0	69.1	68.0	75.6	80.4	75.9	41.0	44.1	43.0	50.6	55.4	50.9
477	Single Residential Property - 5/5	110 WEST 109 STREET	59.09	66.2	69.7	68.8	75.1	80.0	75.5	41.2	44.7	43.8	50.1	55.0	50.5
478	Single Residential Property - 1/5	961 AMSTERDAM AVENUE	59.09	59.3	59.5	59.4	59.1	59.2	59.1	34.3	34.5	34.4	34.1	34.2	34.1
479	Single Residential Property - 2/5	961 AMSTERDAM AVENUE	59.09	59.3	59.6	59.4	59.1	59.2	59.1	34.3	34.6	34.4	34.1	34.2	34.1
480	Single Residential Property - 3/5	961 AMSTERDAM AVENUE	59.09	59.5	59.9	59.4	59.1	59.2	59.1	34.5	34.9	34.4	34.1	34.2	34.1
481	Single Residential Property - 4/5	961 AMSTERDAM AVENUE	59.09	59.8	60.9	59.5	59.1	59.2	59.1	34.8	35.9	34.5	34.1	34.2	34.1
482	Single Residential Property - 5/5	961 AMSTERDAM AVENUE	59.09	60.0	61.5	59.5	59.1	59.3	59.2	35.0	36.5	34.5	34.1	34.3	34.2
483	Single Residential Property - 1/5	126 WEST 109 STREET	59.09	64.6	69.0	71.1	61.6	65.0	62.3	39.6	44.0	46.1	36.6	40.0	37.3
484	Single Residential Property - 2/5	126 WEST 109 STREET	59.09	76.4	80.7	81.4	62.7	66.5	63.5	51.4	55.7	56.4	37.7	41.5	38.5
485	Single Residential Property - 3/5	126 WEST 109 STREET	59.09	76.6	81.3	81.9	63.9	67.9	64.7	51.6	56.3	56.9	38.9	42.9	39.7
486	Single Residential Property - 4/5	126 WEST 109 STREET	59.09	76.2	80.7	80.1	65.1	69.6	66.2	51.2	55.7	55.1	40.1	44.6	41.2
487	Single Residential Property - 5/5	126 WEST 109 STREET	59.09	75.8	80.1	78.8	65.3	70.0	66.3	50.8	55.1	53.8	40.3	45.0	41.3
488	Single Residential Property - 1/5	973 AMSTERDAM AVENUE	59.09	60.2	61.9	61.0	59.2	59.4	59.2	35.2	36.9	36.0	34.2	34.4	34.2
489	Single Residential Property - 2/5	973 AMSTERDAM AVENUE	59.09	64.6	67.9	65.8	60.1	61.8	60.4	39.6	42.9	40.8	35.1	36.8	35.4
490	Single Residential Property - 3/5	973 AMSTERDAM AVENUE	59.09	67.7	71.8	69.5	60.8	63.2	61.3	42.7	46.8	44.5	35.8	38.2	36.3
491	Single Residential Property - 4/5	973 AMSTERDAM AVENUE	59.09	69.5	73.6	70.4	61.0	63.7	61.5	44.5	48.6	45.4	36.0	38.7	36.5
492	Single Residential Property - 5/5	973 AMSTERDAM AVENUE	59.09	70.2	74.0	71.0	61.4	64.1	61.9	45.2	49.0	46.0	36.4	39.1	36.9
493	Single Residential Property - 1/5	102 WEST 109 STREET	59.09	62.0	64.2	63.3	72.1	76.7	77.2	37.0	39.2	38.3	47.1	51.7	52.2
494	Single Residential Property - 2/5	102 WEST 109 STREET	59.09	62.4	64.8	63.9	73.9	78.6	78.5	37.4	39.8	38.9	48.9	53.6	53.5
495	Single Residential Property - 3/5	102 WEST 109 STREET	59.09	62.5	65.1	64.1	74.4	79.2	79.0	37.5	40.1	39.1	49.4	54.2	54.0
496	Single Residential Property - 4/5	102 WEST 109 STREET	59.09	63.3	65.9	64.8	74.3	79.1	78.5	38.3	40.9	39.8	49.3	54.1	53.5
497	Single Residential Property - 5/5	102 WEST 109 STREET	59.09	64.2	67.0	65.8	74.1	78.8	77.7	39.2	42.0	40.8	49.1	53.8	52.7
498	Single Residential Property - 1/5	980 COLUMBUS AVENUE	59.09	62.0	64.3	63.2	79.4	84.3	80.1	37.0	39.3	38.2	54.4	59.3	55.1
499	Single Residential Property - 2/5	980 COLUMBUS AVENUE	59.09	62.4	64.8	63.8	80.0	84.9	80.8	37.4	39.8	38.8	55.0	59.9	55.8
500	Single Residential Property - 3/5	980 COLUMBUS AVENUE	59.09	62.6	65.1	64.1	80.6	85.3	81.5	37.6	40.1	39.1	55.6	60.3	56.5
501	Single Residential Property - 4/5	980 COLUMBUS AVENUE	59.09	63.2	65.8	64.8	79.8	84.4	80.9	38.2	40.8	39.8	54.8	59.4	55.9
502	Single Residential Property - 5/5	980 COLUMBUS AVENUE	59.09	64.3	67.0	65.5	78.9	83.4	80.2	39.3	42.0	40.5	53.9	58.4	55.2
503	Single Residential Property - 1/5	987 AMSTERDAM AVENUE	59.09	63.7	67.7	64.2	61.0	63.5	61.5	38.7	42.7	39.2	36.0	38.5	36.5
504	Single Residential Property - 2/5	987 AMSTERDAM AVENUE	59.09	73.8	78.9	74.6	61.1	63.7	61.7	48.8	53.9	49.6	36.1	38.7	36.7
505	Single Residential Property - 3/5	987 AMSTERDAM AVENUE	59.09	75.4	80.4	76.3	61.1	63.9	61.7	50.4	55.4	51.3	36.1	38.9	36.7
506	Single Residential Property - 4/5	987 AMSTERDAM AVENUE	59.09	75.1	80.0	76.1	61.4	64.3	62.1	50.1	55.0	51.1	36.4	39.3	37.1
507	Single Residential Property - 5/5	987 AMSTERDAM AVENUE	59.09	74.8	79.4	75.8	62.2	65.5	63.1	49.8	54.4	50.8	37.2	40.5	38.1
508	Single Residential Property - 1/5	120 WEST 109 STREET	59.09	66.5	69.8	68.2	62.5	66.9	62.6	41.5	44.8	43.2	37.5	41.9	37.6
509	Single Residential Property - 2/5	120 WEST 109 STREET	59.09	68.8	72.2	70.5	68.1	73.2	68.3	43.8	47.2	45.5	43.1	48.2	43.3
510	Single Residential Property - 3/5	120 WEST 109 STREET	59.09	71.4	75.3	73.6	70.9	76.6	71.1	46.4	50.3	48.6	45.9	51.6	46.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
511	Single Residential Property - 4/5	120 WEST 109 STREET	59.09	72.3	76.1	74.5	70.9	76.5	71.3	47.3	51.1	49.5	45.9	51.5	46.3
512	Single Residential Property - 5/5	120 WEST 109 STREET	59.09	72.9	76.1	74.7	70.9	76.3	71.3	47.9	51.1	49.7	45.9	51.3	46.3
513	Single Residential Property - 1/5	134 WEST 109 STREET	59.09	66.0	70.1	69.2	61.3	64.2	61.7	41.0	45.1	44.2	36.3	39.2	36.7
514	Single Residential Property - 2/5	134 WEST 109 STREET	59.09	77.6	81.3	79.4	62.0	65.2	62.5	52.6	56.3	54.4	37.0	40.2	37.5
515	Single Residential Property - 3/5	134 WEST 109 STREET	59.09	77.5	81.4	80.0	62.5	66.1	63.1	52.5	56.4	55.0	37.5	41.1	38.1
516	Single Residential Property - 4/5	134 WEST 109 STREET	59.09	77.1	80.9	79.1	63.9	67.7	64.7	52.1	55.9	54.1	38.9	42.7	39.7
517	Single Residential Property - 5/5	134 WEST 109 STREET	59.09	76.6	80.3	78.4	64.2	68.3	65.1	51.6	55.3	53.4	39.2	43.3	40.1
518	Single Residential Property - 1/5	106 WEST 109 STREET	59.09	62.7	65.1	64.2	65.1	69.5	68.5	37.7	40.1	39.2	40.1	44.5	43.5
519	Single Residential Property - 2/5	106 WEST 109 STREET	59.09	63.3	65.9	64.9	75.7	80.7	79.0	38.3	40.9	39.9	50.7	55.7	54.0
520	Single Residential Property - 3/5	106 WEST 109 STREET	59.09	64.0	66.7	65.7	75.7	80.6	78.7	39.0	41.7	40.7	50.7	55.6	53.7
521	Single Residential Property - 4/5	106 WEST 109 STREET	59.09	65.2	68.1	66.9	75.4	80.4	78.0	40.2	43.1	41.9	50.4	55.4	53.0
522	Single Residential Property - 5/5	106 WEST 109 STREET	59.09	65.4	68.7	67.7	75.0	80.0	77.3	40.4	43.7	42.7	50.0	55.0	52.3
523	Single Residential Property - 1/5	122 WEST 109 STREET	59.09	66.9	70.6	68.4	63.2	67.6	63.3	41.9	45.6	43.4	38.2	42.6	38.3
524	Single Residential Property - 2/5	122 WEST 109 STREET	59.09	70.2	74.2	71.8	66.6	71.6	66.9	45.2	49.2	46.8	41.6	46.6	41.9
525	Single Residential Property - 3/5	122 WEST 109 STREET	59.09	73.0	77.6	75.3	70.0	75.3	70.2	48.0	52.6	50.3	45.0	50.3	45.2
526	Single Residential Property - 4/5	122 WEST 109 STREET	59.09	73.9	78.2	75.8	70.1	75.5	70.5	48.9	53.2	50.8	45.1	50.5	45.5
527	Single Residential Property - 5/5	122 WEST 109 STREET	59.09	73.9	78.6	75.7	70.2	75.4	70.5	48.9	53.6	50.7	45.2	50.4	45.5
528	Single Residential Property - 1/5	969 AMSTERDAM AVENUE	59.09	60.0	61.1	60.6	59.2	59.5	59.3	35.0	36.1	35.6	34.2	34.5	34.3
529	Single Residential Property - 2/5	969 AMSTERDAM AVENUE	59.09	63.1	65.9	64.4	60.2	62.0	60.4	38.1	40.9	39.4	35.2	37.0	35.4
530	Single Residential Property - 3/5	969 AMSTERDAM AVENUE	59.09	66.0	69.2	67.7	60.9	63.3	61.2	41.0	44.2	42.7	35.9	38.3	36.2
531	Single Residential Property - 4/5	969 AMSTERDAM AVENUE	59.09	67.1	71.1	68.7	61.0	63.6	61.5	42.1	46.1	43.7	36.0	38.6	36.5
532	Single Residential Property - 5/5	969 AMSTERDAM AVENUE	59.09	68.0	72.1	69.2	61.3	64.1	61.8	43.0	47.1	44.2	36.3	39.1	36.8
533	Single Residential Property - 1/6	965 AMSTERDAM AVENUE	59.09	59.7	61.1	60.3	59.1	59.2	59.1	34.7	36.1	35.3	34.1	34.2	34.1
534	Single Residential Property - 2/6	965 AMSTERDAM AVENUE	59.09	60.6	63.9	62.0	59.1	59.2	59.1	35.6	38.9	37.0	34.1	34.2	34.1
535	Single Residential Property - 3/6	965 AMSTERDAM AVENUE	59.09	62.4	66.9	64.7	59.1	59.2	59.1	37.4	41.9	39.7	34.1	34.2	34.1
536	Single Residential Property - 4/6	965 AMSTERDAM AVENUE	59.09	62.6	68.0	65.3	59.1	59.2	59.1	37.6	43.0	40.3	34.1	34.2	34.1
537	Single Residential Property - 5/6	965 AMSTERDAM AVENUE	59.09	63.7	69.3	66.0	59.2	59.3	59.2	38.7	44.3	41.0	34.2	34.3	34.2
538	Single Residential Property - 6/6	965 AMSTERDAM AVENUE	59.09	64.6	70.0	66.3	59.2	59.5	59.3	39.6	45.0	41.3	34.2	34.5	34.3
539	Single Residential Property - 1/5	993 AMSTERDAM AVENUE	59.09	59.7	60.8	60.0	59.1	59.3	59.2	34.7	35.8	35.0	34.1	34.3	34.2
540	Single Residential Property - 2/5	993 AMSTERDAM AVENUE	59.09	60.1	62.7	60.7	59.1	59.2	59.2	35.1	37.7	35.7	34.1	34.2	34.2
541	Single Residential Property - 3/5	993 AMSTERDAM AVENUE	59.09	61.1	63.5	62.0	59.2	59.3	59.2	36.1	38.5	37.0	34.2	34.3	34.2
542	Single Residential Property - 4/5	993 AMSTERDAM AVENUE	59.09	61.5	63.7	62.4	59.2	59.5	59.3	36.5	38.7	37.4	34.2	34.5	34.3
543	Single Residential Property - 5/5	993 AMSTERDAM AVENUE	59.09	62.4	64.6	63.5	59.5	60.2	59.6	37.4	39.6	38.5	34.5	35.2	34.6
544	Single Residential Property - 1/5	975 AMSTERDAM AVENUE	59.09	60.3	62.3	61.1	59.2	59.4	59.2	35.3	37.3	36.1	34.2	34.4	34.2
545	Single Residential Property - 2/5	975 AMSTERDAM AVENUE	59.09	65.0	68.8	66.6	60.1	61.7	60.4	40.0	43.8	41.6	35.1	36.7	35.4
546	Single Residential Property - 3/5	975 AMSTERDAM AVENUE	59.09	69.1	73.8	70.4	60.9	63.3	61.3	44.1	48.8	45.4	35.9	38.3	36.3
547	Single Residential Property - 4/5	975 AMSTERDAM AVENUE	59.09	71.0	75.2	71.4	61.1	63.7	61.5	46.0	50.2	46.4	36.1	38.7	36.5
548	Single Residential Property - 5/5	975 AMSTERDAM AVENUE	59.09	71.5	75.6	72.9	61.4	64.1	62.0	46.5	50.6	47.9	36.4	39.1	37.0
549	Single Residential Property - 1/5	989 AMSTERDAM AVENUE	59.09	63.2	67.9	64.1	60.9	63.4	61.3	38.2	42.9	39.1	35.9	38.4	36.3
550	Single Residential Property - 2/5	989 AMSTERDAM AVENUE	59.09	71.6	76.1	72.2	61.1	63.6	61.5	46.6	51.1	47.2	36.1	38.6	36.5
551	Single Residential Property - 3/5	989 AMSTERDAM AVENUE	59.09	73.5	78.9	74.3	61.1	63.8	61.5	48.5	53.9	49.3	36.1	38.8	36.5

APPENDIX IV: CONSTRUCTION NOISE MODELING

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ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction Leq(1h) (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
552	Single Residential Property - 4/5	989 AMSTERDAM AVENUE	59.09	73.4	78.5	74.2	61.3	64.1	61.9	48.4	53.5	49.2	36.3	39.1	36.9
553	Single Residential Property - 5/5	989 AMSTERDAM AVENUE	59.09	73.1	78.2	74.1	62.0	65.3	62.9	48.1	53.2	49.1	37.0	40.3	37.9
554	Single Residential Property - 1/15	171 WEST 107 STREET	59.09	66.2	69.3	68.0	61.5	64.4	61.9	41.2	44.3	43.0	36.5	39.4	36.9
555	Single Residential Property - 2/15	171 WEST 107 STREET	59.09	67.3	70.7	69.0	61.6	64.6	61.9	42.3	45.7	44.0	36.6	39.6	36.9
556	Single Residential Property - 3/15	171 WEST 107 STREET	59.09	66.4	69.6	67.7	61.3	63.9	61.5	41.4	44.6	42.7	36.3	38.9	36.5
557	Single Residential Property - 4/15	171 WEST 107 STREET	59.09	67.0	70.9	68.6	61.4	64.1	61.7	42.0	45.9	43.6	36.4	39.1	36.7
558	Single Residential Property - 5/15	171 WEST 107 STREET	59.09	68.0	72.2	69.2	61.7	64.6	62.0	43.0	47.2	44.2	36.7	39.6	37.0
559	Single Residential Property - 6/15	171 WEST 107 STREET	59.09	68.7	72.8	69.6	62.1	65.0	62.4	43.7	47.8	44.6	37.1	40.0	37.4
560	Single Residential Property - 7/15	171 WEST 107 STREET	59.09	69.3	73.1	69.9	62.0	64.9	62.2	44.3	48.1	44.9	37.0	39.9	37.2
561	Single Residential Property - 8/15	171 WEST 107 STREET	59.09	69.5	73.1	70.1	62.2	65.3	62.4	44.5	48.1	45.1	37.2	40.3	37.4
562	Single Residential Property - 9/15	171 WEST 107 STREET	59.09	69.5	73.1	70.5	62.4	65.6	62.5	44.5	48.1	45.5	37.4	40.6	37.5
563	Single Residential Property - 10/15	171 WEST 107 STREET	59.09	69.5	73.2	71.1	62.5	65.8	62.6	44.5	48.2	46.1	37.5	40.8	37.6
564	Single Residential Property - 11/15	171 WEST 107 STREET	59.09	69.4	73.2	71.5	62.5	65.9	62.7	44.4	48.2	46.5	37.5	40.9	37.7
565	Single Residential Property - 12/15	171 WEST 107 STREET	59.09	69.4	73.2	71.6	62.6	66.1	62.9	44.4	48.2	46.6	37.6	41.1	37.9
566	Single Residential Property - 13/15	171 WEST 107 STREET	59.09	69.5	73.2	71.6	62.7	66.3	63.0	44.5	48.2	46.6	37.7	41.3	38.0
567	Single Residential Property - 14/15	171 WEST 107 STREET	59.09	69.6	73.2	71.7	62.9	66.4	63.1	44.6	48.2	46.7	37.9	41.4	38.1
568	Single Residential Property - 15/15	171 WEST 107 STREET	59.09	69.7	73.2	71.7	63.0	66.6	63.2	44.7	48.2	46.7	38.0	41.6	38.2
569	Single Residential Property - 1/12	141 WEST 109 STREET	59.09	59.2	59.4	59.3	59.2	59.5	59.3	34.2	34.4	34.3	34.2	34.5	34.3
570	Single Residential Property - 2/12	141 WEST 109 STREET	59.09	59.2	59.4	59.3	59.3	59.6	59.3	34.2	34.4	34.3	34.3	34.6	34.3
571	Single Residential Property - 3/12	141 WEST 109 STREET	59.09	59.3	59.5	59.4	59.3	59.8	59.5	34.3	34.5	34.4	34.3	34.8	34.5
572	Single Residential Property - 4/12	141 WEST 109 STREET	59.09	59.3	59.6	59.5	59.5	60.2	59.7	34.3	34.6	34.5	34.5	35.2	34.7
573	Single Residential Property - 5/12	141 WEST 109 STREET	59.09	59.6	59.9	59.8	60.0	61.7	60.6	34.6	34.9	34.8	35.0	36.7	35.6
574	Single Residential Property - 6/12	141 WEST 109 STREET	59.09	59.8	60.2	60.1	60.6	63.0	61.5	34.8	35.2	35.1	35.6	38.0	36.5
575	Single Residential Property - 7/12	141 WEST 109 STREET	59.09	60.1	60.6	60.6	61.2	63.9	62.3	35.1	35.6	35.6	36.2	38.9	37.3
576	Single Residential Property - 8/12	141 WEST 109 STREET	59.09	60.7	61.3	61.4	61.8	64.9	63.3	35.7	36.3	36.4	36.8	39.9	38.3
577	Single Residential Property - 9/12	141 WEST 109 STREET	59.09	61.9	62.7	63.0	62.6	65.4	63.7	36.9	37.7	38.0	37.6	40.4	38.7
578	Single Residential Property - 10/12	141 WEST 109 STREET	59.09	62.3	63.5	64.1	62.7	65.5	63.5	37.3	38.5	39.1	37.7	40.5	38.5
579	Single Residential Property - 11/12	141 WEST 109 STREET	59.09	63.2	63.8	64.6	62.8	66.0	63.6	38.2	38.8	39.6	37.8	41.0	38.6
580	Single Residential Property - 12/12	141 WEST 109 STREET	59.09	62.7	63.2	63.7	62.4	65.6	63.1	37.7	38.2	38.7	37.4	40.6	38.1
581	Single Residential Property - 1/12	412 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.2	59.5	59.3	34.2	34.4	34.3	34.2	34.5	34.3
582	Single Residential Property - 2/12	412 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.2	59.5	59.3	34.2	34.4	34.3	34.2	34.5	34.3
583	Single Residential Property - 3/12	412 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.2	59.5	59.3	34.2	34.4	34.3	34.2	34.5	34.3
584	Single Residential Property - 4/12	412 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.2	59.6	59.3	34.2	34.4	34.3	34.2	34.6	34.3
585	Single Residential Property - 5/12	412 CATHEDRAL PARKWAY	59.09	59.2	59.4	59.3	59.3	59.7	59.3	34.2	34.4	34.3	34.3	34.7	34.3
586	Single Residential Property - 6/12	412 CATHEDRAL PARKWAY	59.09	59.3	59.5	59.4	59.3	59.9	59.4	34.3	34.5	34.4	34.3	34.9	34.4
587	Single Residential Property - 7/12	412 CATHEDRAL PARKWAY	59.09	59.4	59.6	59.5	59.4	60.2	59.5	34.4	34.6	34.5	34.4	35.2	34.5
588	Single Residential Property - 8/12	412 CATHEDRAL PARKWAY	59.09	59.6	60.0	59.9	59.6	60.9	59.7	34.6	35.0	34.9	34.6	35.9	34.7
589	Single Residential Property - 9/12	412 CATHEDRAL PARKWAY	59.09	59.8	60.3	60.2	60.2	62.4	60.5	34.8	35.3	35.2	35.2	37.4	35.5
590	Single Residential Property - 10/12	412 CATHEDRAL PARKWAY	59.09	59.9	60.5	60.4	60.7	63.3	61.3	34.9	35.5	35.4	35.7	38.3	36.3
591	Single Residential Property - 11/12	412 CATHEDRAL PARKWAY	59.09	60.1	60.8	60.6	61.1	63.9	62.0	35.1	35.8	35.6	36.1	38.9	37.0
592	Single Residential Property - 12/12	412 CATHEDRAL PARKWAY	59.09	60.3	61.0	61.0	61.8	64.7	62.5	35.3	36.0	36.0	36.8	39.7	37.5

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593	Single Residential Property - 1/7	400 CATHEDRAL PARKWAY	59.09	59.1	59.3	59.2	59.2	59.3	59.2	34.1	34.3	34.2	34.2	34.3	34.2
594	Single Residential Property - 2/7	400 CATHEDRAL PARKWAY	59.09	59.1	59.3	59.2	59.2	59.3	59.2	34.1	34.3	34.2	34.2	34.3	34.2
595	Single Residential Property - 3/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.2	59.4	59.2	34.2	34.3	34.2	34.2	34.4	34.2
596	Single Residential Property - 4/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.2	59.4	59.3	34.2	34.3	34.2	34.2	34.4	34.3
597	Single Residential Property - 5/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.2	59.4	59.3	34.2	34.3	34.2	34.2	34.4	34.3
598	Single Residential Property - 6/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.3	59.5	59.3	34.2	34.3	34.2	34.3	34.5	34.3
599	Single Residential Property - 7/7	400 CATHEDRAL PARKWAY	59.09	59.2	59.3	59.2	59.3	59.6	59.4	34.2	34.3	34.2	34.3	34.6	34.4
600	Single Residential Property - 1/11	Component 1	59.09	N/A	N/A	N/A	62.1	65.8	62.5	N/A	N/A	N/A	35.1	38.8	35.5
601	Single Residential Property - 2/11	Component 1	59.09	N/A	N/A	N/A	63.9	68.2	64.3	N/A	N/A	N/A	36.9	41.2	37.3
602	Single Residential Property - 3/11	Component 1	59.09	N/A	N/A	N/A	65.2	69.7	65.8	N/A	N/A	N/A	38.2	42.7	38.8
603	Single Residential Property - 4/11	Component 1	59.09	N/A	N/A	N/A	67.1	72.2	67.7	N/A	N/A	N/A	40.1	45.2	40.7
604	Single Residential Property - 5/11	Component 1	59.09	N/A	N/A	N/A	67.1	72.5	67.9	N/A	N/A	N/A	40.1	45.5	40.9
605	Single Residential Property - 6/11	Component 1	59.09	N/A	N/A	N/A	67.3	72.5	67.9	N/A	N/A	N/A	40.3	45.5	40.9
606	Single Residential Property - 7/11	Component 1	59.09	N/A	N/A	N/A	67.1	72.3	67.7	N/A	N/A	N/A	40.1	45.3	40.7
607	Single Residential Property - 8/11	Component 1	59.09	N/A	N/A	N/A	67.1	72.1	67.6	N/A	N/A	N/A	40.1	45.1	40.6
608	Single Residential Property - 9/11	Component 1	59.09	N/A	N/A	N/A	67.0	71.9	67.4	N/A	N/A	N/A	40.0	44.9	40.4
609	Single Residential Property - 10/11	Component 1	59.09	N/A	N/A	N/A	66.9	71.7	67.3	N/A	N/A	N/A	39.9	44.7	40.3
610	Single Residential Property - 11/11	Component 1	59.09	N/A	N/A	N/A	66.7	71.6	67.2	N/A	N/A	N/A	39.7	44.6	40.2
611	Anibal Aviles Playground - 1 of 4		59.09	N/A	N/A	N/A	62.3	66.3	62.4	N/A	N/A	N/A	37.3	41.3	37.4
612	Anibal Aviles Playground - 2 of 4		59.09	N/A	N/A	N/A	78.8	82.4	74.5	N/A	N/A	N/A	N/A	N/A	N/A
613	Anibal Aviles Playground - 3 of 4		59.09	N/A	N/A	N/A	62.2	66.2	62.7	N/A	N/A	N/A	N/A	N/A	N/A
614	Anibal Aviles Playground - 4 of 4		59.09	N/A	N/A	N/A	78.5	84.1	76.6	N/A	N/A	N/A	N/A	N/A	N/A
617	Middle School - West Facade - North Receptor - 1/3	960 COLUMBUS AVENUE	59.09	65.5	67.8	67.0	61.2	64.3	59.4	40.5	42.8	42.0	36.2	39.3	34.4
618	Middle School - West Facade - North Receptor - 2/3	960 COLUMBUS AVENUE	59.09	67.1	69.4	68.6	62.6	67.3	61.0	42.1	44.4	43.6	37.6	42.3	36.0
619	Middle School - West Facade - North Receptor - 3/3	960 COLUMBUS AVENUE	59.09	68.7	71.8	70.0	65.0	69.7	62.8	43.7	46.8	45.0	40.0	44.7	37.8
620	Middle School - West Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	59.09	64.0	66.5	65.2	59.2	59.6	59.3	39.0	41.5	40.2	34.2	34.6	34.3
621	Middle School - West Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	59.09	65.1	67.7	66.3	59.5	60.6	59.4	40.1	42.7	41.3	34.5	35.6	34.4
622	Middle School - West Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	59.09	65.9	69.1	67.4	60.4	62.7	60.6	40.9	44.1	42.4	35.4	37.7	35.6
623	Middle School - West Facade - South Receptor - 1/3	960 COLUMBUS AVENUE	59.09	63.1	65.5	64.1	59.2	59.6	59.3	38.1	40.5	39.1	34.2	34.6	34.3
624	Middle School - West Facade - South Receptor - 2/3	960 COLUMBUS AVENUE	59.09	63.8	66.4	65.0	59.4	60.2	59.4	38.8	41.4	40.0	34.4	35.2	34.4
625	Middle School - West Facade - South Receptor - 3/3	960 COLUMBUS AVENUE	59.09	64.3	67.2	65.8	60.5	62.7	60.6	39.3	42.2	40.8	35.5	37.7	35.6
626	Middle School - South Facade - West Receptor - 1/3	960 COLUMBUS AVENUE	59.09	60.7	62.5	61.1	59.3	59.7	59.4	35.7	37.5	36.1	34.3	34.7	34.4
627	Middle School - South Facade - West Receptor - 2/3	960 COLUMBUS AVENUE	59.09	61.0	63.0	61.4	59.4	60.1	59.5	36.0	38.0	36.4	34.4	35.1	34.5
628	Middle School - South Facade - West Receptor - 3/3	960 COLUMBUS AVENUE	59.09	62.5	65.0	63.2	60.5	62.9	60.5	37.5	40.0	38.2	35.5	37.9	35.5
629	Middle School - South Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	59.09	59.6	60.7	59.9	59.4	59.8	59.4	34.6	35.7	34.9	34.4	34.8	34.4
630	Middle School - South Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	59.09	59.7	60.9	60.0	59.5	60.1	59.6	34.7	35.9	35.0	34.5	35.1	34.6
631	Middle School - South Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	59.09	60.4	62.0	61.0	60.3	62.1	60.4	35.4	37.0	36.0	35.3	37.1	35.4
632	Middle School - South Facade - East Receptor - 1/3	960 COLUMBUS AVENUE	59.09	59.3	59.6	59.4	59.2	59.4	59.2	34.3	34.6	34.4	34.2	34.4	34.2
633	Middle School - South Facade - East Receptor - 2/3	960 COLUMBUS AVENUE	59.09	59.5	59.9	59.6	59.2	59.5	59.3	34.5	34.9	34.6	34.2	34.5	34.3
634	Middle School - South Facade - East Receptor - 3/3	960 COLUMBUS AVENUE	59.09	60.0	61.1	60.4	59.7	60.6	59.9	35.0	36.1	35.4	34.7	35.6	34.9
635	Middle School - East Facade - South Receptor - 1/3	960 COLUMBUS AVENUE	59.09	59.1	59.2	59.2	59.3	59.8	59.4	34.1	34.2	34.2	34.3	34.8	34.4

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 3: SoundPLAN Model Results

ID No.	Receiver	Address	Background Leq 1h (dBA)	Total Noise Level with Construction $L_{eq(1h)}$ (dBA)						L10 Interior Windows Closed					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M07	Phase 2 - M21	Phase 2 - M17
636	Middle School - East Facade - South Receptor - 2/3	960 COLUMBUS AVENUE	59.09	59.2	59.3	59.2	59.4	60.2	59.5	34.2	34.3	34.2	34.4	35.2	34.5
637	Middle School - East Facade - South Receptor - 3/3	960 COLUMBUS AVENUE	59.09	59.4	59.9	59.6	59.8	61.1	60.0	34.4	34.9	34.6	34.8	36.1	35.0
638	Middle School - East Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	59.09	59.2	59.3	59.2	59.4	59.8	59.4	34.2	34.3	34.2	34.4	34.8	34.4
639	Middle School - East Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	59.09	59.2	59.3	59.3	59.5	60.2	59.6	34.2	34.3	34.3	34.5	35.2	34.6
640	Middle School - East Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	59.09	59.5	60.0	59.7	60.0	61.3	60.3	34.5	35.0	34.7	35.0	36.3	35.3
641	Middle School - East Facade - North Receptor - 1/3	960 COLUMBUS AVENUE	59.09	59.7	60.5	60.1	60.7	62.6	61.2	34.7	35.5	35.1	35.7	37.6	36.2
642	Middle School - East Facade - North Receptor - 2/3	960 COLUMBUS AVENUE	59.09	59.7	60.5	60.1	61.3	64.2	62.0	34.7	35.5	35.1	36.3	39.2	37.0
643	Middle School - East Facade - North Receptor - 3/3	960 COLUMBUS AVENUE	59.09	60.1	61.2	60.5	62.3	65.7	63.0	35.1	36.2	35.5	37.3	40.7	38.0
644	Middle School - North Facade - Roof Receptor - 1/6	960 COLUMBUS AVENUE	59.09	62.3	64.3	63.4	67.9	72.6	68.7	37.3	39.3	38.4	42.9	47.6	43.7
645	Middle School - North Facade - Roof Receptor - 2/6	960 COLUMBUS AVENUE	59.09	62.7	65.2	63.9	65.0	69.2	65.8	37.7	40.2	38.9	40.0	44.2	40.8
646	Middle School - North Facade - Roof Receptor - 3/6	960 COLUMBUS AVENUE	59.09	63.7	66.2	64.9	63.9	70.0	64.6	38.7	41.2	39.9	38.9	45.0	39.6
647	Middle School - North Facade - Roof Receptor - 4/6	960 COLUMBUS AVENUE	59.09	61.3	62.6	62.5	66.4	70.1	67.1	36.3	37.6	37.5	41.4	45.1	42.1
648	Middle School - North Facade - Roof Receptor - 5/6	960 COLUMBUS AVENUE	59.09	61.6	64.0	62.5	66.6	70.5	67.5	36.6	39.0	37.5	41.6	45.5	42.5
649	Middle School - North Facade - Roof Receptor - 6/6	960 COLUMBUS AVENUE	59.09	61.5	64.1	62.1	67.8	72.0	68.8	36.5	39.1	37.1	42.8	47.0	43.8

Gymnasium (no air conditioning, windows open)			Background Leq 1h (dBA)	Total Noise Level with Construction $L_{eq(1h)}$ (dBA)						L10 Interior Windows Open					
				Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21	Phase 1 - M02	Phase 1 - M07	Phase 1 - M26	Phase 2 - M02	Phase 2 - M07	Phase 2 - M21
0b	Middle School - Gymnasium - Middle Receptor - 1/3	960 COLUMBUS AVENUE	59.09	62.7	64.8	64.0	68.3	72.7	69.7	55.7	57.8	57.0	61.3	65.7	62.7
1b	Middle School - Gymnasium - Middle Receptor -2/3	960 COLUMBUS AVENUE	59.09	63.5	65.8	65.0	71.1	75.7	72.4	56.5	58.8	58.0	64.1	68.7	65.4
2b	Middle School - Gymnasium - Middle Receptor - 3/3	960 COLUMBUS AVENUE	59.09	63.9	66.7	64.8	73.6	78.1	74.5	56.9	59.7	57.8	66.6	71.1	67.5

Notes:
Orange highlight indicates significant construction noise impacts (based on 24 or more consecutive months of exceedance of the CEQR noise threshold).

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
0	Booker T. Washington Middle School - North Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	6.9	5.0
1	Booker T. Washington Middle School - North Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	8.6	5.7
2	Booker T. Washington Middle School - North Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	9.7	6.9
3	Sinai Pentacostal Church - 1/4	163 WEST 107 STREET	13.8	9.6
4	Sinai Pentacostal Church - 2/4	163 WEST 107 STREET	15.2	10.9
5	Sinai Pentacostal Church - 3/4	163 WEST 107 STREET	16.4	11.4
6	Sinai Pentacostal Church - 4/4	163 WEST 107 STREET	16.7	12.7
7	Kingdom of Jehovah's Witnesses - 1/2	167 WEST 107 STREET	13.2	9.3
8	Kingdom of Jehovah's Witnesses - 2/2	167 WEST 107 STREET	15.3	11.1
9	Booker T. Washington Park - 1 of 5		14.7	9.6
10	The New Jewish Home - 1 of 3 - 1/8	111 WEST 105 STREET	0.2	0.1
11	The New Jewish Home - 1 of 3 - 2/8	111 WEST 105 STREET	0.2	0.1
12	The New Jewish Home - 1 of 3 - 3/8	111 WEST 105 STREET	0.2	0.2
13	The New Jewish Home - 1 of 3 - 4/8	111 WEST 105 STREET	0.2	0.2
14	The New Jewish Home - 1 of 3 - 5/8	111 WEST 105 STREET	0.3	0.2
15	The New Jewish Home - 1 of 3 - 6/8	111 WEST 105 STREET	0.4	0.3
16	The New Jewish Home - 1 of 3 - 7/8	111 WEST 105 STREET	0.5	0.4
17	The New Jewish Home - 1 of 3 - 8/8	111 WEST 105 STREET	0.8	0.7
18	The New Jewish Home - 2 of 3 - 1/8	111 WEST 105 STREET	0.1	0.1
19	The New Jewish Home - 2 of 3 - 2/8	111 WEST 105 STREET	0.1	0.1
20	The New Jewish Home - 2 of 3 - 3/8	111 WEST 105 STREET	0.2	0.1
21	The New Jewish Home - 2 of 3 - 4/8	111 WEST 105 STREET	0.3	0.2
22	The New Jewish Home - 2 of 3 - 5/8	111 WEST 105 STREET	0.4	0.3
23	The New Jewish Home - 2 of 3 - 6/8	111 WEST 105 STREET	0.5	0.4
24	The New Jewish Home - 2 of 3 - 7/8	111 WEST 105 STREET	0.8	0.7
25	The New Jewish Home - 2 of 3 - 8/8	111 WEST 105 STREET	2.1	1.7
26	The New Jewish Home - 3 of 3 - 1/8	111 WEST 105 STREET	0.1	0.1
27	The New Jewish Home - 3 of 3 - 2/8	111 WEST 105 STREET	0.1	0.1
28	The New Jewish Home - 3 of 3 - 3/8	111 WEST 105 STREET	0.2	0.1
29	The New Jewish Home - 3 of 3 - 4/8	111 WEST 105 STREET	0.2	0.2
30	The New Jewish Home - 3 of 3 - 5/8	111 WEST 105 STREET	0.3	0.2
31	The New Jewish Home - 3 of 3 - 6/8	111 WEST 105 STREET	0.4	0.3
32	The New Jewish Home - 3 of 3 - 7/8	111 WEST 105 STREET	0.6	0.5
33	The New Jewish Home - 3 of 3 - 8/8	111 WEST 105 STREET	1.1	0.8
34	Saint Gerasimos Greek Orthodox - 1/2	153 WEST 105 STREET	0.1	0.1
35	Saint Gerasimos Greek Orthodox - 2/2	153 WEST 105 STREET	0.1	0.1
36	West End Presbyterian Church - 1/5	921 AMSTERDAM AVENUE	0.1	0.0
37	West End Presbyterian Church - 2/5	921 AMSTERDAM AVENUE	0.1	0.0
38	West End Presbyterian Church - 3/5	921 AMSTERDAM AVENUE	0.0	0.0
39	West End Presbyterian Church - 4/5	921 AMSTERDAM AVENUE	0.0	0.0
40	West End Presbyterian Church - 5/5	921 AMSTERDAM AVENUE	0.2	0.2
41	West Preparatory Academy - 1/3	905 AMSTERDAM AVENUE	0.1	0.1
42	West Preparatory Academy - 2/3	905 AMSTERDAM AVENUE	0.1	0.1
43	West Preparatory Academy - 3/3	905 AMSTERDAM AVENUE	0.1	0.1
44	Grosvenor Neighborhood House YMCA - 1/3	176 WEST 105 STREET	0.1	0.1
45	Grosvenor Neighborhood House YMCA - 2/3	176 WEST 105 STREET	0.1	0.0
46	Grosvenor Neighborhood House YMCA - 3/3	176 WEST 105 STREET	0.1	0.0
48	West Side Cluster House - 1 of 2 - 2/5	902 AMSTERDAM AVENUE	0.0	0.0
49	West Side Cluster House - 1 of 2 - 3/5	902 AMSTERDAM AVENUE	0.0	0.0
50	West Side Cluster House - 1 of 2 - 4/5	902 AMSTERDAM AVENUE	0.1	0.0
51	West Side Cluster House - 1 of 2 - 5/5	902 AMSTERDAM AVENUE	0.0	0.0
52	West Side Cluster House - 2 of 2 - 1/5	902 AMSTERDAM AVENUE	0.0	0.0

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
53	West Side Cluster House - 2 of 2 - 2/5	902 AMSTERDAM AVENUE	0.0	0.0
54	West Side Cluster House - 2 of 2 - 3/5	902 AMSTERDAM AVENUE	0.0	0.0
55	West Side Cluster House - 2 of 2 - 4/5	902 AMSTERDAM AVENUE	0.0	0.0
56	West Side Cluster House - 2 of 2 - 5/5	902 AMSTERDAM AVENUE	0.0	0.0
57	Ascension School - 1/4	219 WEST 107 STREET	1.5	1.3
58	Ascension School - 2/4	219 WEST 107 STREET	1.8	1.2
59	Ascension School - 3/4	219 WEST 107 STREET	2.5	1.9
60	Ascension School - 4/4	219 WEST 107 STREET	2.9	1.9
61	Church of Ascension	219 WEST 107 STREET	0.1	0.1
62	Ascension School Grace House - 1/5	218 WEST 108 STREET	1.4	1.3
63	Ascension School Grace House - 2/5	218 WEST 108 STREET	1.6	1.2
64	Ascension School Grace House - 3/5	218 WEST 108 STREET	2.0	1.5
65	Ascension School Grace House - 4/5	218 WEST 108 STREET	2.5	1.7
66	Ascension School Grace House - 5/5	218 WEST 108 STREET	2.8	1.9
67	PS 165 Robert E Simon - 1/5	233 WEST 108 STREET	0.9	0.8
68	PS 165 Robert E Simon - 2/5	233 WEST 108 STREET	1.1	0.7
69	PS 165 Robert E Simon - 3/5	233 WEST 108 STREET	1.6	0.9
70	PS 165 Robert E Simon - 4/5	233 WEST 108 STREET	1.9	1.4
71	PS 165 Robert E Simon - 5/5	233 WEST 108 STREET	2.1	1.8
72	The Bridge Housing - 1/6	248 WEST 108 STREET	0.7	0.7
73	The Bridge Housing - 2/6	248 WEST 108 STREET	0.6	0.6
74	The Bridge Housing - 3/6	248 WEST 108 STREET	0.7	0.6
75	The Bridge Housing - 4/6	248 WEST 108 STREET	0.8	0.6
76	The Bridge Housing - 5/6	248 WEST 108 STREET	0.9	0.7
77	The Bridge Housing - 6/6	248 WEST 108 STREET	1.1	0.9
78	Congregation Ramath Orah - 1/3	550 CATHEDRAL PARKWAY	0.0	0.0
79	Congregation Ramath Orah - 2/3	550 CATHEDRAL PARKWAY	0.0	0.0
80	Congregation Ramath Orah - 3/3	550 CATHEDRAL PARKWAY	0.0	0.0
81	Defenders of Christian Faith	221 WEST 109 STREET	0.1	0.1
82	West 111th Street People's Garden - 1 of 4		0.0	0.0
83	West 111th Street People's Garden - 2 of 4		0.0	0.0
84	West 111th Street People's Garden - 3 of 4		0.0	0.0
85	West 111th Street People's Garden - 4 of 4		0.0	0.0
86	The Cathedral Church of Saint John - 1 of 5 - 1/9	1021 AMSTERDAM AVENUE	0.1	0.1
87	The Cathedral Church of Saint John - 1 of 5 - 2/9	1021 AMSTERDAM AVENUE	0.2	0.2
88	The Cathedral Church of Saint John - 1 of 5 - 3/9	1021 AMSTERDAM AVENUE	0.2	0.2
89	The Cathedral Church of Saint John - 1 of 5 - 4/9	1021 AMSTERDAM AVENUE	0.2	0.2
90	The Cathedral Church of Saint John - 1 of 5 - 5/9	1021 AMSTERDAM AVENUE	0.2	0.2
91	The Cathedral Church of Saint John - 1 of 5 - 6/9	1021 AMSTERDAM AVENUE	0.2	0.2
92	The Cathedral Church of Saint John - 1 of 5 - 7/9	1021 AMSTERDAM AVENUE	0.2	0.2
93	The Cathedral Church of Saint John - 1 of 5 - 8/9	1021 AMSTERDAM AVENUE	0.2	0.2
94	The Cathedral Church of Saint John - 1 of 5 - 9/9	1021 AMSTERDAM AVENUE	0.5	0.5
95	The Cathedral Church of Saint John - 2 of 5 - 1/9	1021 AMSTERDAM AVENUE	0.1	0.1
96	The Cathedral Church of Saint John - 2 of 5 - 2/9	1021 AMSTERDAM AVENUE	0.1	0.1
97	The Cathedral Church of Saint John - 2 of 5 - 3/9	1021 AMSTERDAM AVENUE	0.1	0.1
98	The Cathedral Church of Saint John - 2 of 5 - 4/9	1021 AMSTERDAM AVENUE	0.1	0.1
99	The Cathedral Church of Saint John - 2 of 5 - 5/9	1021 AMSTERDAM AVENUE	0.1	0.1
100	The Cathedral Church of Saint John - 2 of 5 - 6/9	1021 AMSTERDAM AVENUE	0.1	0.1
101	The Cathedral Church of Saint John - 2 of 5 - 7/9	1021 AMSTERDAM AVENUE	0.2	0.1
102	The Cathedral Church of Saint John - 2 of 5 - 8/9	1021 AMSTERDAM AVENUE	0.2	0.2
103	The Cathedral Church of Saint John - 2 of 5 - 9/9	1021 AMSTERDAM AVENUE	0.2	0.2
104	The Cathedral Church of Saint John - 3 of 5 - 1/9	1021 AMSTERDAM AVENUE	0.1	0.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
105	The Cathedral Church of Saint John - 3 of 5 - 2/9	1021 AMSTERDAM AVENUE	0.1	0.1
106	The Cathedral Church of Saint John - 3 of 5 - 3/9	1021 AMSTERDAM AVENUE	0.1	0.1
107	The Cathedral Church of Saint John - 3 of 5 - 4/9	1021 AMSTERDAM AVENUE	0.1	0.1
108	The Cathedral Church of Saint John - 3 of 5 - 5/9	1021 AMSTERDAM AVENUE	0.1	0.1
109	The Cathedral Church of Saint John - 3 of 5 - 6/9	1021 AMSTERDAM AVENUE	0.1	0.1
110	The Cathedral Church of Saint John - 3 of 5 - 7/9	1021 AMSTERDAM AVENUE	0.1	0.1
111	The Cathedral Church of Saint John - 3 of 5 - 8/9	1021 AMSTERDAM AVENUE	0.1	0.1
112	The Cathedral Church of Saint John - 3 of 5 - 9/9	1021 AMSTERDAM AVENUE	0.1	0.1
113	The Cathedral Church of Saint John - 4 of 5 - 1/9	1021 AMSTERDAM AVENUE	0.0	0.0
114	The Cathedral Church of Saint John - 4 of 5 - 2/9	1021 AMSTERDAM AVENUE	0.0	0.0
115	The Cathedral Church of Saint John - 4 of 5 - 3/9	1021 AMSTERDAM AVENUE	0.0	0.0
116	The Cathedral Church of Saint John - 4 of 5 - 4/9	1021 AMSTERDAM AVENUE	0.0	0.0
117	The Cathedral Church of Saint John - 4 of 5 - 5/9	1021 AMSTERDAM AVENUE	0.0	0.0
118	The Cathedral Church of Saint John - 4 of 5 - 6/9	1021 AMSTERDAM AVENUE	0.0	0.0
119	The Cathedral Church of Saint John - 4 of 5 - 7/9	1021 AMSTERDAM AVENUE	0.0	0.0
120	The Cathedral Church of Saint John - 4 of 5 - 8/9	1021 AMSTERDAM AVENUE	0.0	0.0
121	The Cathedral Church of Saint John - 4 of 5 - 9/9	1021 AMSTERDAM AVENUE	0.0	0.0
122	The Cathedral Church of Saint John - 5 of 5 - 1/9	1021 AMSTERDAM AVENUE	0.1	0.1
123	The Cathedral Church of Saint John - 5 of 5 - 2/9	1021 AMSTERDAM AVENUE	0.1	0.1
124	The Cathedral Church of Saint John - 5 of 5 - 3/9	1021 AMSTERDAM AVENUE	0.1	0.1
125	The Cathedral Church of Saint John - 5 of 5 - 4/9	1021 AMSTERDAM AVENUE	0.1	0.1
126	The Cathedral Church of Saint John - 5 of 5 - 5/9	1021 AMSTERDAM AVENUE	0.2	0.2
127	The Cathedral Church of Saint John - 5 of 5 - 6/9	1021 AMSTERDAM AVENUE	0.2	0.2
128	The Cathedral Church of Saint John - 5 of 5 - 7/9	1021 AMSTERDAM AVENUE	0.2	0.2
129	The Cathedral Church of Saint John - 5 of 5 - 8/9	1021 AMSTERDAM AVENUE	0.2	0.2
130	The Cathedral Church of Saint John - 5 of 5 - 9/9	1021 AMSTERDAM AVENUE	0.3	0.2
131	Iglesia Pentecostal Church - 1/2	209 MANHATTAN AVENUE	0.1	0.1
132	Iglesia Pentecostal Church - 2/2	209 MANHATTAN AVENUE	0.2	0.2
133	Booker T. Washington Park - 2 of 5		13.7	8.9
134	Booker T. Washington Park - 3 of 5		9.8	6.1
135	Booker T. Washington Park - 4 of 5		9.8	6.4
136	Booker T. Washington Park - 5 of 5		14.3	9.9
137	The Samaritan Foundation Housing - Veritas Building - 1/4	68 WEST 106 STREET	0.2	0.2
138	The Samaritan Foundation Housing - Veritas Building - 2/4	68 WEST 106 STREET	0.2	0.2
139	The Samaritan Foundation Housing - Veritas Building - 3/4	68 WEST 106 STREET	0.3	0.3
140	The Samaritan Foundation Housing - Veritas Building - 4/4	68 WEST 106 STREET	0.6	0.5
141	Southern Baptist Church - 1/3	14 WEST 108 STREET	0.9	0.7
142	Southern Baptist Church - 2/3	14 WEST 108 STREET	0.9	0.6
143	Southern Baptist Church - 3/3	14 WEST 108 STREET	1.3	0.8
144	The August Aichhorn Center for Adolescent Residential Care - 1/5	142 WEST 106 STREET	0.0	0.0
145	The August Aichhorn Center for Adolescent Residential Care - 2/5	142 WEST 106 STREET	0.1	0.0
146	The August Aichhorn Center for Adolescent Residential Care - 3/5	142 WEST 106 STREET	0.1	0.1
147	The August Aichhorn Center for Adolescent Residential Care - 4/5	142 WEST 106 STREET	0.1	0.1
148	The August Aichhorn Center for Adolescent Residential Care - 5/5	142 WEST 106 STREET	0.3	0.2
149	Morningside Park - 1 of 4		0.0	0.0
150	Morningside Park - 2 of 4		0.0	0.0
151	Morningside Park - 3 of 4		0.0	0.0
152	Morningside Park - 4 of 4		0.0	0.0
153	PS 165 Robert E Simon Playground	1018800013	0.1	0.1
154	PS/MS 165 Playground		0.1	0.0
155	Bloomingdale Playground - 2 of 2	905 AMSTERDAM AVENUE	0.0	0.0
156	West 107th Street and Amsterdam Ave SW Block Corner - 1/6		0.2	0.2

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
157	West 107th Street and Amsterdam Ave SW Block Corner - 2/6		0.4	0.2
158	West 107th Street and Amsterdam Ave SW Block Corner - 3/6		0.4	0.3
159	West 107th Street and Amsterdam Ave SW Block Corner - 4/6		0.6	0.4
160	West 107th Street and Amsterdam Ave SW Block Corner - 5/6		0.7	0.5
161	West 107th Street and Amsterdam Ave SW Block Corner - 6/6		1.0	0.8
162	West 108th Street and Amsterdam Ave SW Block Corner - 1/17		4.5	3.5
163	West 108th Street and Amsterdam Ave SW Block Corner - 2/17		5.2	4.2
164	West 108th Street and Amsterdam Ave SW Block Corner - 3/17		6.7	4.9
165	West 108th Street and Amsterdam Ave SW Block Corner - 4/17		7.6	5.7
166	West 108th Street and Amsterdam Ave SW Block Corner - 5/17		8.0	6.2
167	West 108th Street and Amsterdam Ave SW Block Corner - 6/17		8.1	6.7
168	West 108th Street and Amsterdam Ave SW Block Corner - 7/17		8.2	7.1
169	West 108th Street and Amsterdam Ave SW Block Corner - 8/17		8.2	7.5
170	West 108th Street and Amsterdam Ave SW Block Corner - 9/17		8.2	7.8
171	West 108th Street and Amsterdam Ave SW Block Corner - 10/17		8.2	8.0
172	West 108th Street and Amsterdam Ave SW Block Corner - 11/17		8.2	8.1
173	West 108th Street and Amsterdam Ave SW Block Corner - 12/17		8.2	8.2
174	West 108th Street and Amsterdam Ave SW Block Corner - 13/17		8.3	8.3
175	West 108th Street and Amsterdam Ave SW Block Corner - 14/17		8.5	8.5
176	West 108th Street and Amsterdam Ave SW Block Corner - 15/17		8.6	8.6
177	West 108th Street and Amsterdam Ave SW Block Corner - 16/17		8.7	8.7
178	West 108th Street and Amsterdam Ave SW Block Corner - 17/17		8.4	8.4
179	West 109th Street and Amsterdam Ave NW Block Corner - 1/6		0.3	0.2
180	West 109th Street and Amsterdam Ave NW Block Corner - 2/6		0.3	0.2
181	West 109th Street and Amsterdam Ave NW Block Corner - 3/6		0.4	0.3
182	West 109th Street and Amsterdam Ave NW Block Corner - 4/6		0.5	0.4
183	West 109th Street and Amsterdam Ave NW Block Corner - 5/6		0.6	0.5
184	West 109th Street and Amsterdam Ave NW Block Corner - 6/6		1.2	1.1
185	West 110th Street and Amsterdam Ave SW Block Corner - 1/12		0.3	0.3
186	West 110th Street and Amsterdam Ave SW Block Corner - 2/12		0.4	0.3
187	West 110th Street and Amsterdam Ave SW Block Corner - 3/12		0.4	0.3
188	West 110th Street and Amsterdam Ave SW Block Corner - 4/12		0.5	0.4
189	West 110th Street and Amsterdam Ave SW Block Corner - 5/12		0.5	0.5
190	West 110th Street and Amsterdam Ave SW Block Corner - 6/12		0.8	0.8
191	West 110th Street and Amsterdam Ave SW Block Corner - 7/12		0.7	0.7
192	West 110th Street and Amsterdam Ave SW Block Corner - 8/12		0.9	0.9
193	West 110th Street and Amsterdam Ave SW Block Corner - 9/12		1.0	1.0
194	West 110th Street and Amsterdam Ave SW Block Corner - 10/12		1.2	1.2
195	West 110th Street and Amsterdam Ave SW Block Corner - 11/12		1.4	1.4
196	West 110th Street and Amsterdam Ave SW Block Corner - 12/12		1.8	1.7
197	West 107th Street and Amsterdam Ave NW Block Corner - 1/9		1.6	0.9
198	West 107th Street and Amsterdam Ave NW Block Corner - 2/9		2.1	1.1
199	West 107th Street and Amsterdam Ave NW Block Corner - 3/9		2.5	1.3
200	West 107th Street and Amsterdam Ave NW Block Corner - 4/9		3.0	1.6
201	West 107th Street and Amsterdam Ave NW Block Corner - 5/9		3.4	1.8
202	West 107th Street and Amsterdam Ave NW Block Corner - 6/9		3.3	2.5
203	West 107th Street and Amsterdam Ave NW Block Corner - 7/9		4.1	3.3
204	West 107th Street and Amsterdam Ave NW Block Corner - 8/9		4.6	3.9
205	West 107th Street and Amsterdam Ave NW Block Corner - 9/9		5.5	4.8
206	West 109th Street and Amsterdam Ave SW Block Corner - 1/6		0.8	0.6
207	West 109th Street and Amsterdam Ave SW Block Corner - 2/6		1.0	0.7
208	West 109th Street and Amsterdam Ave SW Block Corner - 3/6		1.3	0.9

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
209	West 109th Street and Amsterdam Ave SW Block Corner - 4/6		1.5	1.1
210	West 109th Street and Amsterdam Ave SW Block Corner - 5/6		1.8	1.4
211	West 109th Street and Amsterdam Ave SW Block Corner - 6/6		2.3	2.0
212	West 108th Street and Amsterdam Ave NW Block Corner - 1/6		1.6	0.9
213	West 108th Street and Amsterdam Ave NW Block Corner - 2/6		2.2	1.2
214	West 108th Street and Amsterdam Ave NW Block Corner - 3/6		3.0	1.7
215	West 108th Street and Amsterdam Ave NW Block Corner - 4/6		3.1	1.9
216	West 108th Street and Amsterdam Ave NW Block Corner - 5/6		3.3	2.4
217	West 108th Street and Amsterdam Ave NW Block Corner - 6/6		4.3	3.8
218	West 107th Street and Columbus Ave SE Block Corner - 1/7		0.5	0.4
219	West 107th Street and Columbus Ave SE Block Corner - 2/7		0.6	0.4
220	West 107th Street and Columbus Ave SE Block Corner - 3/7		0.8	0.6
221	West 107th Street and Columbus Ave SE Block Corner - 4/7		1.2	1.0
222	West 107th Street and Columbus Ave SE Block Corner - 5/7		1.9	1.4
223	West 107th Street and Columbus Ave SE Block Corner - 6/7		2.1	1.6
224	West 107th Street and Columbus Ave SE Block Corner - 7/7		2.3	1.7
225	West 107th Street and Columbus Ave NE Block Corner - 1/10		0.8	0.4
226	West 107th Street and Columbus Ave NE Block Corner - 2/10		0.9	0.5
227	West 107th Street and Columbus Ave NE Block Corner - 3/10		1.3	0.9
228	West 107th Street and Columbus Ave NE Block Corner - 4/10		2.3	1.8
229	West 107th Street and Columbus Ave NE Block Corner - 5/10		4.4	3.4
230	West 107th Street and Columbus Ave NE Block Corner - 6/10		4.4	3.7
231	West 107th Street and Columbus Ave NE Block Corner - 7/10		4.4	3.9
232	West 107th Street and Columbus Ave NE Block Corner - 8/10		5.1	4.3
233	West 107th Street and Columbus Ave NE Block Corner - 9/10		5.4	4.2
234	West 107th Street and Columbus Ave NE Block Corner - 10/10		5.6	4.3
235	West 108th Street and Columbus Ave SE Block Corner - 1/5		3.4	2.8
236	West 108th Street and Columbus Ave SE Block Corner - 2/5		3.8	2.8
237	West 108th Street and Columbus Ave SE Block Corner - 3/5		4.8	2.9
238	West 108th Street and Columbus Ave SE Block Corner - 4/5		5.5	3.5
239	West 108th Street and Columbus Ave SE Block Corner - 5/5		5.7	4.1
240	West 108th Street and Columbus Ave NE Block Corner - 1/5		2.0	1.3
241	West 108th Street and Columbus Ave NE Block Corner - 2/5		2.4	1.3
242	West 108th Street and Columbus Ave NE Block Corner - 3/5		3.0	1.6
243	West 108th Street and Columbus Ave NE Block Corner - 4/5		3.5	2.2
244	West 108th Street and Columbus Ave NE Block Corner - 5/5		4.6	3.4
245	West 109th Street and Columbus Ave SE Block Corner - 1/7		0.3	0.3
246	West 109th Street and Columbus Ave SE Block Corner - 2/7		0.4	0.3
247	West 109th Street and Columbus Ave SE Block Corner - 3/7		0.6	0.5
248	West 109th Street and Columbus Ave SE Block Corner - 4/7		1.0	0.8
249	West 109th Street and Columbus Ave SE Block Corner - 5/7		1.8	1.5
250	West 109th Street and Columbus Ave SE Block Corner - 6/7		2.9	2.4
251	West 109th Street and Columbus Ave SE Block Corner - 7/7		3.8	3.1
252	West 107th Street and Columbus Ave SW Block Corner - 1/6		1.0	0.5
253	West 107th Street and Columbus Ave SW Block Corner - 2/6		1.2	0.8
254	West 107th Street and Columbus Ave SW Block Corner - 3/6		1.7	1.0
255	West 107th Street and Columbus Ave SW Block Corner - 4/6		2.3	1.4
256	West 107th Street and Columbus Ave SW Block Corner - 5/6		3.3	2.1
257	West 107th Street and Columbus Ave SW Block Corner - 6/6		2.8	2.0
258	Red Oak Apartments - 1/9	149 WEST 106 STREET	9.6	6.3
259	Red Oak Apartments - 2/9	149 WEST 106 STREET	10.4	6.5
260	Red Oak Apartments - 3/9	149 WEST 106 STREET	11.0	6.7

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
261	Red Oak Apartments - 4/9	149 WEST 106 STREET	11.2	6.9
262	Red Oak Apartments - 5/9	149 WEST 106 STREET	11.1	7.1
263	Red Oak Apartments - 6/9	149 WEST 106 STREET	10.8	7.7
264	Red Oak Apartments - 7/9	149 WEST 106 STREET	10.7	8.1
265	Red Oak Apartments - 8/9	149 WEST 106 STREET	10.7	8.5
266	Red Oak Apartments - 9/9	149 WEST 106 STREET	10.8	8.7
267	West 107th Street and Amsterdam Ave SE Block Corner - 1/5		3.2	1.9
268	West 107th Street and Amsterdam Ave SE Block Corner - 2/5		4.6	2.8
269	West 107th Street and Amsterdam Ave SE Block Corner - 3/5		6.8	4.8
270	West 107th Street and Amsterdam Ave SE Block Corner - 4/5		8.6	6.4
271	West 107th Street and Amsterdam Ave SE Block Corner - 5/5		9.8	7.5
272	West 106th Street and Amsterdam Ave NE Block Corner - 1/5		5.5	3.4
273	West 106th Street and Amsterdam Ave NE Block Corner - 2/5		7.0	3.8
274	West 106th Street and Amsterdam Ave NE Block Corner - 3/5		7.5	4.3
275	West 106th Street and Amsterdam Ave NE Block Corner - 4/5		8.4	5.2
276	West 106th Street and Amsterdam Ave NE Block Corner - 5/5		8.2	5.7
277	Avalon Morningside Park - 1/18	1 MORNINGSID DRIVE	0.1	0.1
278	Avalon Morningside Park - 2/18	1 MORNINGSID DRIVE	0.1	0.1
279	Avalon Morningside Park - 3/18	1 MORNINGSID DRIVE	0.1	0.1
280	Avalon Morningside Park - 4/18	1 MORNINGSID DRIVE	0.1	0.1
281	Avalon Morningside Park - 5/18	1 MORNINGSID DRIVE	0.1	0.1
282	Avalon Morningside Park - 6/18	1 MORNINGSID DRIVE	0.1	0.1
283	Avalon Morningside Park - 7/18	1 MORNINGSID DRIVE	0.1	0.1
284	Avalon Morningside Park - 8/18	1 MORNINGSID DRIVE	0.1	0.1
285	Avalon Morningside Park - 9/18	1 MORNINGSID DRIVE	0.1	0.1
286	Avalon Morningside Park - 10/18	1 MORNINGSID DRIVE	0.1	0.1
287	Avalon Morningside Park - 11/18	1 MORNINGSID DRIVE	0.1	0.1
288	Avalon Morningside Park - 12/18	1 MORNINGSID DRIVE	0.1	0.1
289	Avalon Morningside Park - 13/18	1 MORNINGSID DRIVE	0.1	0.1
290	Avalon Morningside Park - 14/18	1 MORNINGSID DRIVE	0.1	0.1
291	Avalon Morningside Park - 15/18	1 MORNINGSID DRIVE	0.1	0.1
292	Avalon Morningside Park - 16/18	1 MORNINGSID DRIVE	0.1	0.1
293	Avalon Morningside Park - 17/18	1 MORNINGSID DRIVE	0.1	0.1
294	Avalon Morningside Park - 18/18	1 MORNINGSID DRIVE	0.2	0.1
295	West 109th Street and Columbus Ave NE Block Corner - 1/15		0.1	0.1
296	West 109th Street and Columbus Ave NE Block Corner - 2/15		0.1	0.1
297	West 109th Street and Columbus Ave NE Block Corner - 3/15		0.2	0.1
298	West 109th Street and Columbus Ave NE Block Corner - 4/15		0.2	0.1
299	West 109th Street and Columbus Ave NE Block Corner - 5/15		0.2	0.2
300	West 109th Street and Columbus Ave NE Block Corner - 6/15		0.2	0.2
301	West 109th Street and Columbus Ave NE Block Corner - 7/15		0.3	0.3
302	West 109th Street and Columbus Ave NE Block Corner - 8/15		0.4	0.4
303	West 109th Street and Columbus Ave NE Block Corner - 9/15		0.7	0.6
304	West 109th Street and Columbus Ave NE Block Corner - 10/15		0.9	0.7
305	West 109th Street and Columbus Ave NE Block Corner - 11/15		1.2	1.0
306	West 109th Street and Columbus Ave NE Block Corner - 12/15		1.5	1.2
307	West 109th Street and Columbus Ave NE Block Corner - 13/15		1.8	1.5
308	West 109th Street and Columbus Ave NE Block Corner - 14/15		2.1	1.7
309	West 109th Street and Columbus Ave NE Block Corner - 15/15		2.4	1.9
310	Single Residential Property - 1/10	1020 AMSTERDAM AVENUE	0.1	0.1
311	Single Residential Property - 2/10	1020 AMSTERDAM AVENUE	0.1	0.1
312	Single Residential Property - 3/10	1020 AMSTERDAM AVENUE	0.1	0.1

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
313	Single Residential Property - 4/10	1020 AMSTERDAM AVENUE	0.1	0.1
314	Single Residential Property - 5/10	1020 AMSTERDAM AVENUE	0.1	0.1
315	Single Residential Property - 6/10	1020 AMSTERDAM AVENUE	0.3	0.2
316	Single Residential Property - 7/10	1020 AMSTERDAM AVENUE	0.4	0.4
317	Single Residential Property - 8/10	1020 AMSTERDAM AVENUE	0.4	0.4
318	Single Residential Property - 9/10	1020 AMSTERDAM AVENUE	0.5	0.5
319	Single Residential Property - 10/10	1020 AMSTERDAM AVENUE	0.5	0.5
320	Single Residential Property - 1/7	400 CATHEDRAL PARKWAY	0.2	0.2
321	Single Residential Property - 2/7	400 CATHEDRAL PARKWAY	0.2	0.2
322	Single Residential Property - 3/7	400 CATHEDRAL PARKWAY	0.3	0.2
323	Single Residential Property - 4/7	400 CATHEDRAL PARKWAY	0.4	0.3
324	Single Residential Property - 5/7	400 CATHEDRAL PARKWAY	0.6	0.4
325	Single Residential Property - 6/7	400 CATHEDRAL PARKWAY	1.2	0.9
326	Single Residential Property - 7/7	400 CATHEDRAL PARKWAY	1.7	1.4
327	Single Residential Property - 1/6	107 WEST 109 STREET	0.3	0.3
328	Single Residential Property - 2/6	107 WEST 109 STREET	0.4	0.3
329	Single Residential Property - 3/6	107 WEST 109 STREET	0.4	0.4
330	Single Residential Property - 4/6	107 WEST 109 STREET	0.5	0.5
331	Single Residential Property - 5/6	107 WEST 109 STREET	0.8	0.6
332	Single Residential Property - 6/6	107 WEST 109 STREET	1.0	0.9
333	Single Residential Property - 1/12	141 WEST 109 STREET	0.7	0.7
334	Single Residential Property - 2/12	141 WEST 109 STREET	0.8	0.7
335	Single Residential Property - 3/12	141 WEST 109 STREET	0.8	0.8
336	Single Residential Property - 4/12	141 WEST 109 STREET	0.9	0.9
337	Single Residential Property - 5/12	141 WEST 109 STREET	1.0	1.0
338	Single Residential Property - 6/12	141 WEST 109 STREET	1.2	1.2
339	Single Residential Property - 7/12	141 WEST 109 STREET	1.4	1.4
340	Single Residential Property - 8/12	141 WEST 109 STREET	2.7	2.7
341	Single Residential Property - 9/12	141 WEST 109 STREET	3.3	3.2
342	Single Residential Property - 10/12	141 WEST 109 STREET	3.9	3.7
343	Single Residential Property - 11/12	141 WEST 109 STREET	4.4	4.4
344	Single Residential Property - 12/12	141 WEST 109 STREET	6.0	6.0
345	Single Residential Property - 1/5	983 AMSTERDAM AVENUE	14.8	8.9
346	Single Residential Property - 2/5	983 AMSTERDAM AVENUE	21.5	19.0
347	Single Residential Property - 3/5	983 AMSTERDAM AVENUE	21.4	21.1
348	Single Residential Property - 4/5	983 AMSTERDAM AVENUE	21.1	20.8
349	Single Residential Property - 5/5	983 AMSTERDAM AVENUE	20.6	20.5
350	Single Residential Property - 1/5	980 COLUMBUS AVENUE	1.8	1.2
351	Single Residential Property - 2/5	980 COLUMBUS AVENUE	3.1	1.4
352	Single Residential Property - 3/5	980 COLUMBUS AVENUE	3.5	1.7
353	Single Residential Property - 4/5	980 COLUMBUS AVENUE	4.2	2.5
354	Single Residential Property - 5/5	980 COLUMBUS AVENUE	5.1	3.4
355	Single Residential Property - 1/5	114 WEST 109 STREET	10.9	8.5
356	Single Residential Property - 2/5	114 WEST 109 STREET	13.5	9.8
357	Single Residential Property - 3/5	114 WEST 109 STREET	14.6	12.2
358	Single Residential Property - 4/5	114 WEST 109 STREET	15.0	13.3
359	Single Residential Property - 5/5	114 WEST 109 STREET	15.0	13.8
360	Single Residential Property - 1/5	110 WEST 109 STREET	9.2	7.2
361	Single Residential Property - 2/5	110 WEST 109 STREET	11.3	8.1
362	Single Residential Property - 3/5	110 WEST 109 STREET	12.4	9.7
363	Single Residential Property - 4/5	110 WEST 109 STREET	12.8	11.1
364	Single Residential Property - 5/5	110 WEST 109 STREET	12.9	11.6

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
365	Single Residential Property - 1/5	126 WEST 109 STREET	16.5	10.7
366	Single Residential Property - 2/5	126 WEST 109 STREET	23.9	23.0
367	Single Residential Property - 3/5	126 WEST 109 STREET	23.3	23.4
368	Single Residential Property - 4/5	126 WEST 109 STREET	22.5	22.5
369	Single Residential Property - 5/5	126 WEST 109 STREET	21.7	21.7
370	Single Residential Property - 1/5	991 AMSTERDAM AVENUE	6.8	3.8
371	Single Residential Property - 2/5	991 AMSTERDAM AVENUE	11.7	7.1
372	Single Residential Property - 3/5	991 AMSTERDAM AVENUE	11.8	10.8
373	Single Residential Property - 4/5	991 AMSTERDAM AVENUE	11.7	11.0
374	Single Residential Property - 5/5	991 AMSTERDAM AVENUE	11.6	11.1
375	Single Residential Property - 1/5	170 WEST 109 STREET	16.8	10.9
376	Single Residential Property - 2/5	170 WEST 109 STREET	25.2	24.0
377	Single Residential Property - 3/5	170 WEST 109 STREET	24.4	24.4
378	Single Residential Property - 4/5	170 WEST 109 STREET	23.4	23.4
379	Single Residential Property - 5/5	170 WEST 109 STREET	22.3	22.3
380	Single Residential Property - 1/3	165 WEST 107 STREET	13.4	9.4
381	Single Residential Property - 2/3	165 WEST 107 STREET	15.6	11.1
382	Single Residential Property - 3/3	165 WEST 107 STREET	16.4	12.4
383	Single Residential Property - 1/5	142 WEST 109 STREET	22.4	15.6
384	Single Residential Property - 2/5	142 WEST 109 STREET	29.1	25.0
385	Single Residential Property - 3/5	142 WEST 109 STREET	27.3	27.3
386	Single Residential Property - 4/5	142 WEST 109 STREET	25.5	25.5
387	Single Residential Property - 5/5	142 WEST 109 STREET	23.9	24.0
388	Single Residential Property - 1/5	132 WEST 109 STREET	17.6	11.2
389	Single Residential Property - 2/5	132 WEST 109 STREET	22.7	22.3
390	Single Residential Property - 3/5	132 WEST 109 STREET	22.3	22.4
391	Single Residential Property - 4/5	132 WEST 109 STREET	21.8	21.8
392	Single Residential Property - 5/5	132 WEST 109 STREET	21.2	21.2
393	Single Residential Property - 1/5	126 WEST 109 STREET	17.0	11.2
394	Single Residential Property - 2/5	126 WEST 109 STREET	24.6	23.7
395	Single Residential Property - 3/5	126 WEST 109 STREET	23.7	23.7
396	Single Residential Property - 4/5	126 WEST 109 STREET	22.6	22.6
397	Single Residential Property - 5/5	126 WEST 109 STREET	21.6	21.6
398	Single Residential Property - 1/5	114 WEST 109 STREET	10.0	7.8
399	Single Residential Property - 2/5	114 WEST 109 STREET	12.5	8.9
400	Single Residential Property - 3/5	114 WEST 109 STREET	13.4	10.9
401	Single Residential Property - 4/5	114 WEST 109 STREET	13.8	12.1
402	Single Residential Property - 5/5	114 WEST 109 STREET	13.8	12.7
403	Single Residential Property - 1/5	963 AMSTERDAM AVENUE	1.1	1.0
404	Single Residential Property - 2/5	963 AMSTERDAM AVENUE	2.5	1.9
405	Single Residential Property - 3/5	963 AMSTERDAM AVENUE	4.8	3.2
406	Single Residential Property - 4/5	963 AMSTERDAM AVENUE	6.1	4.5
407	Single Residential Property - 5/5	963 AMSTERDAM AVENUE	6.8	5.9
408	Single Residential Property - 1/5	995 AMSTERDAM AVENUE	2.1	1.3
409	Single Residential Property - 2/5	995 AMSTERDAM AVENUE	2.7	1.9
410	Single Residential Property - 3/5	995 AMSTERDAM AVENUE	2.8	2.1
411	Single Residential Property - 4/5	995 AMSTERDAM AVENUE	3.0	2.5
412	Single Residential Property - 5/5	995 AMSTERDAM AVENUE	3.8	3.4
413	Single Residential Property - 1/5	138 WEST 109 STREET	18.7	12.2
414	Single Residential Property - 2/5	138 WEST 109 STREET	24.6	22.5
415	Single Residential Property - 3/5	138 WEST 109 STREET	24.1	24.1
416	Single Residential Property - 4/5	138 WEST 109 STREET	23.4	23.4

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
417	Single Residential Property - 5/5	138 WEST 109 STREET	22.5	22.5
418	Single Residential Property - 1/5	985 AMSTERDAM AVENUE	14.6	8.8
419	Single Residential Property - 2/5	985 AMSTERDAM AVENUE	21.6	19.5
420	Single Residential Property - 3/5	985 AMSTERDAM AVENUE	21.4	21.2
421	Single Residential Property - 4/5	985 AMSTERDAM AVENUE	21.0	20.9
422	Single Residential Property - 5/5	985 AMSTERDAM AVENUE	20.5	20.5
423	Single Residential Property - 1/5	136 WEST 109 STREET	17.7	11.3
424	Single Residential Property - 2/5	136 WEST 109 STREET	23.4	22.6
425	Single Residential Property - 3/5	136 WEST 109 STREET	22.9	22.9
426	Single Residential Property - 4/5	136 WEST 109 STREET	22.2	22.3
427	Single Residential Property - 5/5	136 WEST 109 STREET	21.5	21.6
428	Single Residential Property - 1/5	140 WEST 109 STREET	19.8	13.5
429	Single Residential Property - 2/5	140 WEST 109 STREET	27.0	22.9
430	Single Residential Property - 3/5	140 WEST 109 STREET	26.1	26.0
431	Single Residential Property - 4/5	140 WEST 109 STREET	24.7	24.7
432	Single Residential Property - 5/5	140 WEST 109 STREET	23.5	23.5
433	Single Residential Property - 1/5	118 WEST 109 STREET	11.4	8.6
434	Single Residential Property - 2/5	118 WEST 109 STREET	14.2	10.3
435	Single Residential Property - 3/5	118 WEST 109 STREET	15.2	12.9
436	Single Residential Property - 4/5	118 WEST 109 STREET	15.6	14.2
437	Single Residential Property - 5/5	118 WEST 109 STREET	15.5	14.5
438	Single Residential Property - 1/5	971 AMSTERDAM AVENUE	3.2	2.6
439	Single Residential Property - 2/5	971 AMSTERDAM AVENUE	9.6	8.2
440	Single Residential Property - 3/5	971 AMSTERDAM AVENUE	14.6	11.7
441	Single Residential Property - 4/5	971 AMSTERDAM AVENUE	16.2	13.8
442	Single Residential Property - 5/5	971 AMSTERDAM AVENUE	16.4	14.6
443	Single Residential Property - 1/5	124 WEST 109 STREET	17.7	12.0
444	Single Residential Property - 2/5	124 WEST 109 STREET	23.1	19.0
445	Single Residential Property - 3/5	124 WEST 109 STREET	22.5	22.4
446	Single Residential Property - 4/5	124 WEST 109 STREET	21.6	21.6
447	Single Residential Property - 5/5	124 WEST 109 STREET	20.7	20.7
448	Single Residential Property - 1/5	102 WEST 109 STREET	6.8	5.3
449	Single Residential Property - 2/5	102 WEST 109 STREET	7.9	5.9
450	Single Residential Property - 3/5	102 WEST 109 STREET	9.3	6.2
451	Single Residential Property - 4/5	102 WEST 109 STREET	10.0	7.3
452	Single Residential Property - 5/5	102 WEST 109 STREET	10.2	8.3
453	Single Residential Property - 1/5	144 WEST 109 STREET	20.3	13.9
454	Single Residential Property - 2/5	144 WEST 109 STREET	26.7	22.8
455	Single Residential Property - 3/5	144 WEST 109 STREET	25.9	25.8
456	Single Residential Property - 4/5	144 WEST 109 STREET	24.7	24.7
457	Single Residential Property - 5/5	144 WEST 109 STREET	23.6	23.6
458	Single Residential Property - 1/5	981 AMSTERDAM AVENUE	12.5	7.6
459	Single Residential Property - 2/5	981 AMSTERDAM AVENUE	22.2	21.7
460	Single Residential Property - 3/5	981 AMSTERDAM AVENUE	21.8	21.5
461	Single Residential Property - 4/5	981 AMSTERDAM AVENUE	21.2	20.9
462	Single Residential Property - 5/5	981 AMSTERDAM AVENUE	20.6	20.4
463	Single Residential Property - 1/5	106 WEST 109 STREET	6.9	5.4
464	Single Residential Property - 2/5	106 WEST 109 STREET	8.3	5.9
465	Single Residential Property - 3/5	106 WEST 109 STREET	9.5	6.6
466	Single Residential Property - 4/5	106 WEST 109 STREET	10.1	8.1
467	Single Residential Property - 5/5	106 WEST 109 STREET	9.9	8.4
468	Single Residential Property - 1/5	172 WEST 109 STREET	14.1	8.5

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
469	Single Residential Property - 2/5	172 WEST 109 STREET	22.7	21.2
470	Single Residential Property - 3/5	172 WEST 109 STREET	22.3	22.3
471	Single Residential Property - 4/5	172 WEST 109 STREET	21.6	21.6
472	Single Residential Property - 5/5	172 WEST 109 STREET	20.9	20.9
473	Single Residential Property - 1/5	110 WEST 109 STREET	8.3	6.5
474	Single Residential Property - 2/5	110 WEST 109 STREET	10.2	7.4
475	Single Residential Property - 3/5	110 WEST 109 STREET	11.5	8.5
476	Single Residential Property - 4/5	110 WEST 109 STREET	11.9	10.0
477	Single Residential Property - 5/5	110 WEST 109 STREET	12.0	10.5
478	Single Residential Property - 1/5	961 AMSTERDAM AVENUE	0.5	0.4
479	Single Residential Property - 2/5	961 AMSTERDAM AVENUE	0.8	0.5
480	Single Residential Property - 3/5	961 AMSTERDAM AVENUE	1.6	0.8
481	Single Residential Property - 4/5	961 AMSTERDAM AVENUE	2.8	1.8
482	Single Residential Property - 5/5	961 AMSTERDAM AVENUE	3.2	2.5
483	Single Residential Property - 1/5	126 WEST 109 STREET	15.9	9.9
484	Single Residential Property - 2/5	126 WEST 109 STREET	22.5	21.6
485	Single Residential Property - 3/5	126 WEST 109 STREET	22.2	22.2
486	Single Residential Property - 4/5	126 WEST 109 STREET	21.5	21.6
487	Single Residential Property - 5/5	126 WEST 109 STREET	20.9	21.0
488	Single Residential Property - 1/5	973 AMSTERDAM AVENUE	3.5	2.8
489	Single Residential Property - 2/5	973 AMSTERDAM AVENUE	10.3	8.8
490	Single Residential Property - 3/5	973 AMSTERDAM AVENUE	15.7	12.7
491	Single Residential Property - 4/5	973 AMSTERDAM AVENUE	16.6	14.5
492	Single Residential Property - 5/5	973 AMSTERDAM AVENUE	16.6	15.0
493	Single Residential Property - 1/5	102 WEST 109 STREET	6.7	5.1
494	Single Residential Property - 2/5	102 WEST 109 STREET	7.5	5.7
495	Single Residential Property - 3/5	102 WEST 109 STREET	8.9	6.0
496	Single Residential Property - 4/5	102 WEST 109 STREET	9.7	6.8
497	Single Residential Property - 5/5	102 WEST 109 STREET	10.0	8.0
498	Single Residential Property - 1/5	980 COLUMBUS AVENUE	6.8	5.2
499	Single Residential Property - 2/5	980 COLUMBUS AVENUE	7.5	5.8
500	Single Residential Property - 3/5	980 COLUMBUS AVENUE	8.8	6.0
501	Single Residential Property - 4/5	980 COLUMBUS AVENUE	9.6	6.7
502	Single Residential Property - 5/5	980 COLUMBUS AVENUE	10.1	8.0
503	Single Residential Property - 1/5	987 AMSTERDAM AVENUE	14.5	8.6
504	Single Residential Property - 2/5	987 AMSTERDAM AVENUE	21.6	19.9
505	Single Residential Property - 3/5	987 AMSTERDAM AVENUE	21.3	21.3
506	Single Residential Property - 4/5	987 AMSTERDAM AVENUE	20.9	20.9
507	Single Residential Property - 5/5	987 AMSTERDAM AVENUE	20.4	20.4
508	Single Residential Property - 1/5	120 WEST 109 STREET	14.5	10.7
509	Single Residential Property - 2/5	120 WEST 109 STREET	17.3	13.1
510	Single Residential Property - 3/5	120 WEST 109 STREET	18.7	16.2
511	Single Residential Property - 4/5	120 WEST 109 STREET	18.8	17.0
512	Single Residential Property - 5/5	120 WEST 109 STREET	18.5	17.0
513	Single Residential Property - 1/5	134 WEST 109 STREET	17.3	11.0
514	Single Residential Property - 2/5	134 WEST 109 STREET	22.6	22.2
515	Single Residential Property - 3/5	134 WEST 109 STREET	22.3	22.3
516	Single Residential Property - 4/5	134 WEST 109 STREET	21.8	21.8
517	Single Residential Property - 5/5	134 WEST 109 STREET	21.2	21.2
518	Single Residential Property - 1/5	106 WEST 109 STREET	7.8	6.0
519	Single Residential Property - 2/5	106 WEST 109 STREET	9.5	6.7
520	Single Residential Property - 3/5	106 WEST 109 STREET	10.7	7.6

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
521	Single Residential Property - 4/5	106 WEST 109 STREET	11.1	9.0
522	Single Residential Property - 5/5	106 WEST 109 STREET	11.2	9.6
523	Single Residential Property - 1/5	122 WEST 109 STREET	16.2	11.5
524	Single Residential Property - 2/5	122 WEST 109 STREET	19.9	15.1
525	Single Residential Property - 3/5	122 WEST 109 STREET	20.7	18.5
526	Single Residential Property - 4/5	122 WEST 109 STREET	20.3	19.1
527	Single Residential Property - 5/5	122 WEST 109 STREET	19.8	19.6
528	Single Residential Property - 1/5	969 AMSTERDAM AVENUE	2.7	2.0
529	Single Residential Property - 2/5	969 AMSTERDAM AVENUE	8.5	6.8
530	Single Residential Property - 3/5	969 AMSTERDAM AVENUE	13.3	10.2
531	Single Residential Property - 4/5	969 AMSTERDAM AVENUE	15.0	12.0
532	Single Residential Property - 5/5	969 AMSTERDAM AVENUE	15.1	13.0
533	Single Residential Property - 1/6	965 AMSTERDAM AVENUE	2.7	2.1
534	Single Residential Property - 2/6	965 AMSTERDAM AVENUE	6.0	4.8
535	Single Residential Property - 3/6	965 AMSTERDAM AVENUE	9.3	7.8
536	Single Residential Property - 4/6	965 AMSTERDAM AVENUE	11.9	8.9
537	Single Residential Property - 5/6	965 AMSTERDAM AVENUE	12.7	10.2
538	Single Residential Property - 6/6	965 AMSTERDAM AVENUE	12.9	10.9
539	Single Residential Property - 1/5	993 AMSTERDAM AVENUE	3.6	1.7
540	Single Residential Property - 2/5	993 AMSTERDAM AVENUE	5.3	3.7
541	Single Residential Property - 3/5	993 AMSTERDAM AVENUE	5.5	4.4
542	Single Residential Property - 4/5	993 AMSTERDAM AVENUE	5.8	4.6
543	Single Residential Property - 5/5	993 AMSTERDAM AVENUE	6.4	5.5
544	Single Residential Property - 1/5	975 AMSTERDAM AVENUE	4.8	3.2
545	Single Residential Property - 2/5	975 AMSTERDAM AVENUE	12.0	9.7
546	Single Residential Property - 3/5	975 AMSTERDAM AVENUE	17.7	14.8
547	Single Residential Property - 4/5	975 AMSTERDAM AVENUE	17.8	16.1
548	Single Residential Property - 5/5	975 AMSTERDAM AVENUE	17.7	16.5
549	Single Residential Property - 1/5	989 AMSTERDAM AVENUE	14.0	8.8
550	Single Residential Property - 2/5	989 AMSTERDAM AVENUE	20.0	17.0
551	Single Residential Property - 3/5	989 AMSTERDAM AVENUE	19.9	19.9
552	Single Residential Property - 4/5	989 AMSTERDAM AVENUE	19.5	19.5
553	Single Residential Property - 5/5	989 AMSTERDAM AVENUE	19.1	19.1
554	Single Residential Property - 1/15	171 WEST 107 STREET	13.8	10.2
555	Single Residential Property - 2/15	171 WEST 107 STREET	15.2	11.6
556	Single Residential Property - 3/15	171 WEST 107 STREET	15.0	10.5
557	Single Residential Property - 4/15	171 WEST 107 STREET	15.6	11.8
558	Single Residential Property - 5/15	171 WEST 107 STREET	15.8	13.1
559	Single Residential Property - 6/15	171 WEST 107 STREET	15.8	13.7
560	Single Residential Property - 7/15	171 WEST 107 STREET	15.8	14.0
561	Single Residential Property - 8/15	171 WEST 107 STREET	15.6	14.0
562	Single Residential Property - 9/15	171 WEST 107 STREET	15.4	14.0
563	Single Residential Property - 10/15	171 WEST 107 STREET	15.4	14.1
564	Single Residential Property - 11/15	171 WEST 107 STREET	15.3	14.1
565	Single Residential Property - 12/15	171 WEST 107 STREET	15.2	14.1
566	Single Residential Property - 13/15	171 WEST 107 STREET	15.0	14.1
567	Single Residential Property - 14/15	171 WEST 107 STREET	15.0	14.1
568	Single Residential Property - 15/15	171 WEST 107 STREET	14.8	14.1
569	Single Residential Property - 1/12	141 WEST 109 STREET	0.3	0.3
570	Single Residential Property - 2/12	141 WEST 109 STREET	0.3	0.3
571	Single Residential Property - 3/12	141 WEST 109 STREET	0.4	0.4
572	Single Residential Property - 4/12	141 WEST 109 STREET	0.5	0.5

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
573	Single Residential Property - 5/12	141 WEST 109 STREET	0.8	0.8
574	Single Residential Property - 6/12	141 WEST 109 STREET	1.1	1.1
575	Single Residential Property - 7/12	141 WEST 109 STREET	1.5	1.5
576	Single Residential Property - 8/12	141 WEST 109 STREET	2.2	2.2
577	Single Residential Property - 9/12	141 WEST 109 STREET	3.9	3.6
578	Single Residential Property - 10/12	141 WEST 109 STREET	5.0	4.4
579	Single Residential Property - 11/12	141 WEST 109 STREET	5.1	4.7
580	Single Residential Property - 12/12	141 WEST 109 STREET	4.4	4.1
581	Single Residential Property - 1/12	412 CATHEDRAL PARKWAY	0.3	0.3
582	Single Residential Property - 2/12	412 CATHEDRAL PARKWAY	0.3	0.3
583	Single Residential Property - 3/12	412 CATHEDRAL PARKWAY	0.3	0.3
584	Single Residential Property - 4/12	412 CATHEDRAL PARKWAY	0.3	0.3
585	Single Residential Property - 5/12	412 CATHEDRAL PARKWAY	0.3	0.3
586	Single Residential Property - 6/12	412 CATHEDRAL PARKWAY	0.4	0.4
587	Single Residential Property - 7/12	412 CATHEDRAL PARKWAY	0.5	0.5
588	Single Residential Property - 8/12	412 CATHEDRAL PARKWAY	0.9	0.9
589	Single Residential Property - 9/12	412 CATHEDRAL PARKWAY	1.1	1.2
590	Single Residential Property - 10/12	412 CATHEDRAL PARKWAY	1.4	1.4
591	Single Residential Property - 11/12	412 CATHEDRAL PARKWAY	1.6	1.7
592	Single Residential Property - 12/12	412 CATHEDRAL PARKWAY	1.9	1.9
593	Single Residential Property - 1/7	400 CATHEDRAL PARKWAY	0.2	0.2
594	Single Residential Property - 2/7	400 CATHEDRAL PARKWAY	0.2	0.2
595	Single Residential Property - 3/7	400 CATHEDRAL PARKWAY	0.2	0.2
596	Single Residential Property - 4/7	400 CATHEDRAL PARKWAY	0.2	0.2
597	Single Residential Property - 5/7	400 CATHEDRAL PARKWAY	0.2	0.2
598	Single Residential Property - 6/7	400 CATHEDRAL PARKWAY	0.2	0.2
599	Single Residential Property - 7/7	400 CATHEDRAL PARKWAY	0.2	0.2
600	Single Residential Property - 1/11	Component 1	N/A	N/A
601	Single Residential Property - 2/11	Component 1	N/A	N/A
602	Single Residential Property - 3/11	Component 1	N/A	N/A
603	Single Residential Property - 4/11	Component 1	N/A	N/A
604	Single Residential Property - 5/11	Component 1	N/A	N/A
605	Single Residential Property - 6/11	Component 1	N/A	N/A
606	Single Residential Property - 7/11	Component 1	N/A	N/A
607	Single Residential Property - 8/11	Component 1	N/A	N/A
608	Single Residential Property - 9/11	Component 1	N/A	N/A
609	Single Residential Property - 10/11	Component 1	N/A	N/A
610	Single Residential Property - 11/11	Component 1	N/A	N/A
611	Anibal Aviles Playground - 1 of 4		16.5	11.0
612	Anibal Aviles Playground - 2 of 4		8.3	6.4
613	Anibal Aviles Playground - 3 of 4		14.7	10.0
614	Anibal Aviles Playground - 4 of 4		8.5	6.5
615	Booker T. Washington Middle School - North Facade - West Receptor - 1/3	960 COLUMBUS AVENUE	11.0	7.9
616	Booker T. Washington Middle School - North Facade - West Receptor - 2/3	960 COLUMBUS AVENUE	13.6	9.5
617	Booker T. Washington Middle School - West Facade - North Receptor - 1/3	960 COLUMBUS AVENUE	11.8	8.5
618	Booker T. Washington Middle School - West Facade - North Receptor - 2/3	960 COLUMBUS AVENUE	14.4	10.2
619	Booker T. Washington Middle School - West Facade - North Receptor - 3/3	960 COLUMBUS AVENUE	15.3	12.5
620	Booker T. Washington Middle School - West Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	10.8	7.4
621	Booker T. Washington Middle School - West Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	12.6	8.5
622	Booker T. Washington Middle School - West Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	13.7	9.9
623	Booker T. Washington Middle School - West Facade - South Receptor - 1/3	960 COLUMBUS AVENUE	9.6	6.4
624	Booker T. Washington Middle School - West Facade - South Receptor - 2/3	960 COLUMBUS AVENUE	11.2	7.3

APPENDIX IV: CONSTRUCTION NOISE MODELING

TABLE 4: Noise Barrier Modeling
Analysis of Component 1 Construction Noise with Noise Barriers of Two Different Heights

ID No.	Receiver	Address	Construction Noise Increase Over Background With:	
			8-Foot-Tall Noise Wall	15-Foot-Tall Noise Wall
625	Booker T. Washington Middle School - West Facade - South Receptor - 3/3	960 COLUMBUS AVENUE	11.4	7.0
626	Booker T. Washington Middle School - South Facade - West Receptor - 1/3	960 COLUMBUS AVENUE	5.1	3.4
627	Booker T. Washington Middle School - South Facade - West Receptor - 2/3	960 COLUMBUS AVENUE	6.7	3.9
628	Booker T. Washington Middle School - South Facade - West Receptor - 3/3	960 COLUMBUS AVENUE	8.0	5.4
629	Booker T. Washington Middle School - South Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	2.7	1.7
630	Booker T. Washington Middle School - South Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	3.6	1.9
631	Booker T. Washington Middle School - South Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	5.2	3.2
632	Booker T. Washington Middle School - South Facade - East Receptor - 1/3	960 COLUMBUS AVENUE	0.7	0.6
633	Booker T. Washington Middle School - South Facade - East Receptor - 2/3	960 COLUMBUS AVENUE	1.1	0.9
634	Booker T. Washington Middle School - South Facade - East Receptor - 3/3	960 COLUMBUS AVENUE	2.7	2.3
635	Booker T. Washington Middle School - East Facade - South Receptor - 1/3	960 COLUMBUS AVENUE	0.2	0.1
636	Booker T. Washington Middle School - East Facade - South Receptor - 2/3	960 COLUMBUS AVENUE	0.3	0.2
637	Booker T. Washington Middle School - East Facade - South Receptor - 3/3	960 COLUMBUS AVENUE	1.0	0.9
638	Booker T. Washington Middle School - East Facade - Middle Receptor - 1/3	960 COLUMBUS AVENUE	0.2	0.2
639	Booker T. Washington Middle School - East Facade - Middle Receptor - 2/3	960 COLUMBUS AVENUE	0.3	0.2
640	Booker T. Washington Middle School - East Facade - Middle Receptor - 3/3	960 COLUMBUS AVENUE	1.2	1.0
641	Booker T. Washington Middle School - East Facade - North Receptor - 1/3	960 COLUMBUS AVENUE	2.3	1.4
642	Booker T. Washington Middle School - East Facade - North Receptor - 2/3	960 COLUMBUS AVENUE	2.9	1.4
643	Booker T. Washington Middle School - East Facade - North Receptor - 3/3	960 COLUMBUS AVENUE	3.9	2.2
644	Booker T. Washington Middle School - North Facade - East Receptor - 1/3	960 COLUMBUS AVENUE	4.9	3.8
645	Booker T. Washington Middle School - North Facade - East Receptor - 2/3	960 COLUMBUS AVENUE	6.0	4.1
646	Booker T. Washington Middle School - North Facade - East Receptor - 3/3	960 COLUMBUS AVENUE	7.1	4.6
647	Booker T. Washington Middle School - North Facade - West Receptor - 3/3	960 COLUMBUS AVENUE	14.7	11.9