APPENDIX D
NOISE

RECEPTOR NOISE LEVEL CALCULATION (1)

Site	Hour	EXISTING CONDITIONS							2011 NO BUILD			2011 BUILD				
		Volume	%Auto	%Medium	%Heavy	PCEs	Leq(1)	Factor	Volume	PCE's	Leq(1)	Auto	Medium	Heavy	PCEs	Leq(1)
1	AM	150	96.0%	2.0%	2.0%	447	67.5	41.00	158	471	67.7	8	4	2	713	69.5
	MD	230	91.0%	6.0%	3.0%	1017	66.8	36.73	242	1070	67.0	3	4	2	1307	67.9
	PM	215	95.0%	5.0%	0.0%	376	67.7	41.95	226	396	67.9	9	3	1	538	69.2
2	AM	320	95.0%	4.0%	1.0%	781	68.9	39.97	347	847	69.3	37	4	2	1118	70.5
	MD	340	90.0%	6.0%	4.0%	1788	68.1	35.58	359	1888	68.3	15	4	2	2137	68.9
	PM	320	90.0%	4.0%	6.0%	2125	71.8	38.53	340	2258	72.1	23	2	1	2398	72.3
3	AM	230	58.0%	14.0%	28.0%	6123	70.0	32.13	242	6442	70.2	12	4	2	6688	70.4
	MD	260	81.0%	9.0%	10.0%	2795	69.8	35.34	273	2935	70.0	17	4	2	3186	70.4
	PM	160	71.0%	18.0%	11.0%	2070	68.8	35.64	171	2213	69.1	21	3	1	2367	69.4
4	AM	85	84.0%	8.0%	8.0%	758	69.1	40.30	98	874	69.7	34	0	0	908	69.9
	MD	85	92.0%	4.0%	4.0%	422	65.6	39.35	96	476	66.1	0	0	0	476	66.1
	PM	100	94.0%	4.0%	2.0%	328	66.1	40.94	111	364	66.6	31	0	0	395	66.9
5	AM	2470	91.0%	3.0%	6.0%	16030	75.7	33.65	2625	17036	76.0	19	6	3	17406	76.1
	MD	2200	92.0%	2.0%	6.0%	13948	73.6	32.15	2326	14747	73.8	7	6	3	15105	73.9
	PM	2780	98.0%	1.0%	1.0%	5532	75.3	37.87	2947	5865	75.6	17	4	2	6116	75.7
6	AM	1725	97.0%	2.0%	1.0%	3692	71.4	35.73	1843	3944	71.7	89	4	2	4267	72.0
	MD	1905	94.0%	3.0%	3.0%	7563	72.2	33.41	2016	8004	72.4	55	4	2	8293	72.6
	PM	1830	96.0%	2.0%	2.0%	5453	72.3	34.93	1951	5814	72.6	82	2	1	6013	72.7

67th

66th

RECEPTOR NOISE LEVEL CALCULATION (2)

Site	Hour	Existing		2011 No Build		2011 Build		Build Attenuation	
		Leq(1)	L10(1)	Leq(1)	Difference	Leq(1)	Difference	L10(1)	dBA
1	AM	67.5	69.0	67.7	0.2	69.5	1.8	71.0	30
	MD	66.8	67.5	67.0	0.2	67.9	0.9	68.6	
	PM	67.7	68.0	67.9	0.2	69.2	1.3	69.5	
2	AM	68.9	71.0	69.3	0.4	70.5	1.2	72.6	
	MD	68.1	69.0	68.3	0.2	68.9	0.5	69.8	
	PM	71.8	74.5	72.1	0.3	72.3	0.3	75.0	30
3	AM	70.0	71.0	70.2	0.2	70.4	0.2	71.4	
	MD	69.8	73.0	70.0	0.2	70.4	0.4	73.6	30
	PM	68.8	67.5	69.1	0.3	69.4	0.3	68.1	
4	AM	69.1	69.5	69.7	0.6	69.9	0.2	70.3	30
	MD	65.6	67.5	66.1	0.5	66.1	0.0	68.0	
	PM	66.1	69.0	66.6	0.5	66.9	0.4	69.8	
5	AM	75.7	79.0	76.0	0.3	76.1	0.1	79.4	35
	MD	73.6	76.0	73.8	0.2	73.9	0.1	76.3	
	PM	75.3	78.0	75.6	0.3	75.7	0.2	78.4	
6	AM	71.4	74.5	71.7	0.3	72.0	0.3	75.1	
	MD	72.2	75.0	72.4	0.2	72.6	0.2	75.4	35
	PM	72.3	75.0	72.6	0.3	72.7	0.1	75.4	

NOISE MONITORING RESULTS

Site	Time	Leq	L1	L10	L50	L90
1	AM	67.5	76.5	69.0	65.5	64.5
	MD	66.8	78.0	67.5	64.0	62.5
	PM	67.7	77.5	68.0	65.0	64.0
2	AM	68.9	77.0	71.0	66.5	65.5
	MD	68.1	78.0	69.0	65.5	64.5
	PM	71.8	81.5	74.5	68.5	66.5
3	AM	70.0	81.5	71.0	63.5	61.5
	MD	69.8	78.5	73.0	67.5	61.0
	PM	68.8	82.5	67.5	61.0	59.5
4	AM	69.1	82.0	69.5	63.5	61.0
	MD	65.6	75.5	67.5	63.0	59.5
	PM	66.1	76.0	69.0	62.0	59.0
5	AM	75.7	84.5	79.0	73.5	67.0
	MD	73.6	82.5	76.0	71.0	67.0
	PM	75.3	85.0	78.0	73.0	65.5
6	AM	71.4	80.0	74.5	69.0	64.5
	MD	72.2	81.0	75.0	69.5	63.0
	PM	72.3	82.0	75.0	69.5	62.5

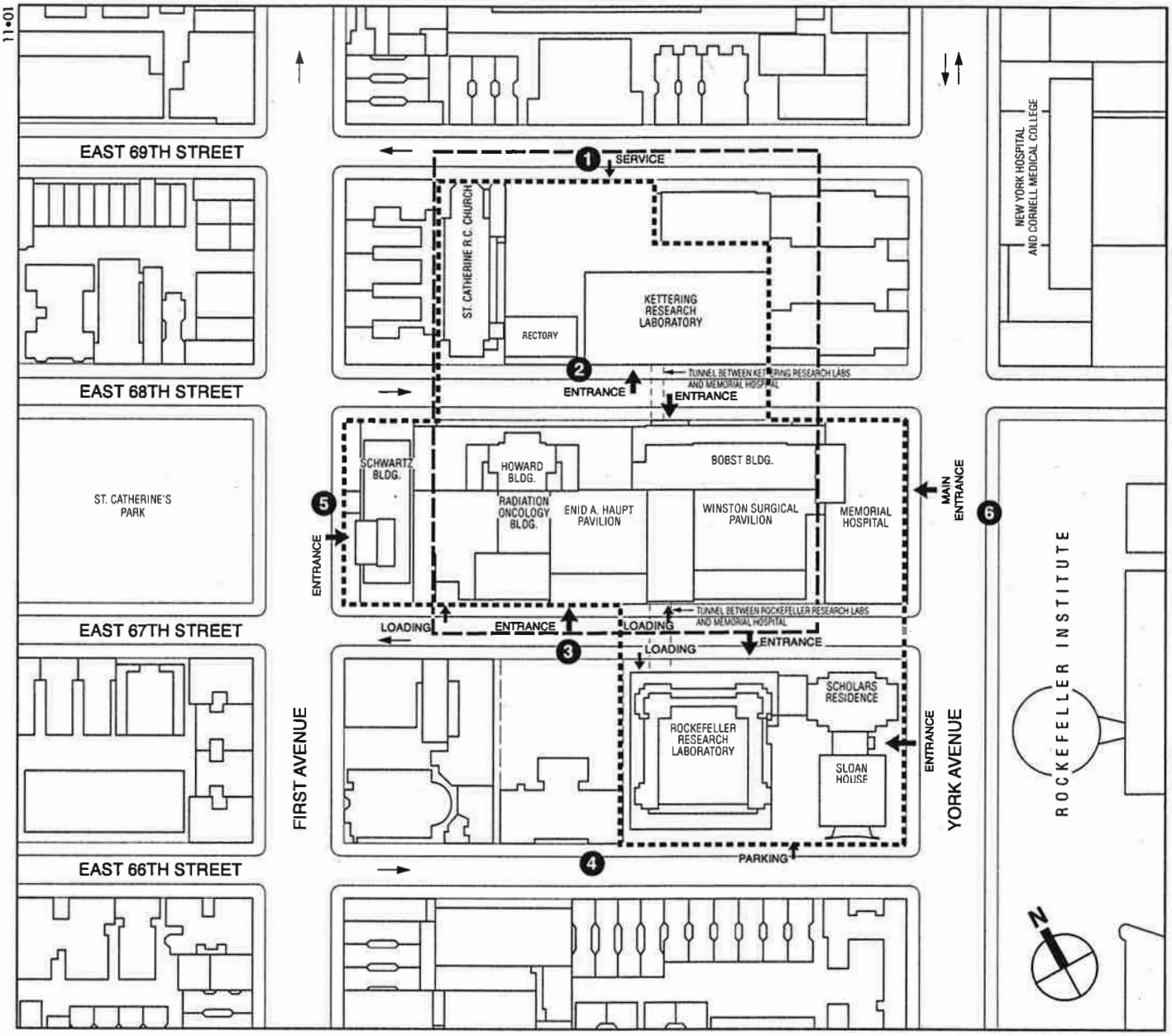
New York Blood Center
Noise PCE Analysis

		Existing (2001)								2020 Existing							2026 No Action							2026 With Action						
Site	Time	Leq	L10	Volume	%auto	%MT	%HT	%bus	PCEs	Auto	MT	HT	Bus	PCEs	Leq	L10	Auto	MT	HT	Bus	PCEs	Leq	L10	Auto	MT	HT	Bus	PCEs	Leq	L10
	AM	68.9	71.0	320	95%	4%	1%	0%	781	259	38	5	8	1132	70.5	73.5	266	39	5	8	1152	70.6	73.6	276	40	5	8	1175	70.7	73.7
	MD	68.1	69.0	340	90%	6%	4%	0%	1788	256	58	5	6	1353	68.1	71.1	264	60	5	6	1387	68.2	71.2	265	60	5	6	1388	68.2	71.2
2	PM	71.8	74.5	320	90%	4%	6%	0%	2125	240	21	2	7	733	71.8	74.8	247	21	2	7	740	71.8	74.8	248	21	2	7	741	71.8	74.8
	AM	69.1	69.5	85	84%	8%	8%	0%	758	369	54	7	12	1616	72.4	75.4	377	56	7	12	1650	72.5	75.5	388	58	7	13	1705	72.6	75.6
	MD	65.6	67.5	85	92%	4%	4%	0%	422	358	83	7	9	1928	72.2	75.2	368	85	7	9	1964	72.3	75.3	373	87	7	9	1995	72.3	75.3
4	PM	66.1	69.0	100	94%	4%	2%	0%	328	390	37	3	12	1228	71.8	74.8	399	38	3	12	1250	71.9	74.9	400	38	3	12	1251	71.9	74.9

New York Blood Center

Total Traffic and St. Catherine's Playground Noise Calculations

								Source						
								Early Childhood School Playground						
Build Condition	Receiver Location	Time	Early Childhood School Playground Leq(1) at boundary	Meas location	Existing 2020 Leq(1)	2026 Leq(1)	Distance feet	Distance Attenuation dBA	Playground $L_{eq(1)}$ at Receptor	Total $L_{eq(1)}$ at Receptor	L10(1) Addition	Total $L_{10(1)}$ at Receptor	Change	Impact?
No Action	NYBC - 68th Street	AM (7-9 AM)	71.5	2	70.5	70.6	60	9.5	62.0	71.2	3.0	74.2	0.7	NO IMPACT
		MD (12-1 PM)	71.5		68.1	68.2	60	9.5	62.0	69.1	3.0	72.1	1.0	NO IMPACT
		PM (4-6 PM)	71.5		71.8	71.8	60	9.5	62.0	72.2	3.0	75.2	0.4	NO IMPACT
	NYBC - 66th Street	AM (7-9 AM)	71.5	4	72.4	72.5	250	17.4	54.1	72.6	3.0	75.6	0.2	NO IMPACT
		MD (12-1 PM)	71.5		72.2	72.3	250	17.4	54.1	72.4	3.0	75.4	0.2	NO IMPACT
		PM (4-6 PM)	71.5		71.8	71.9	250	17.4	54.1	72.0	3.0	75.0	0.2	NO IMPACT
With Action	NYBC - 68th Street	AM (7-9 AM)	71.5	2	70.5	70.7	60	9.5	62.0	71.2	3.0	74.2	0.0	NO IMPACT
		MD (12-1 PM)	71.5		68.1	68.2	60	9.5	62.0	69.1	3.0	72.1	0.0	NO IMPACT
		PM (4-6 PM)	71.5		71.8	71.8	60	9.5	62.0	72.2	3.0	75.2	0.0	NO IMPACT
	NYBC - 66th Street	AM (7-9 AM)	71.5	4	72.4	72.6	250	17.4	54.1	72.6	3.0	75.6	0.0	NO IMPACT
		MD (12-1 PM)	71.5		72.2	72.3	250	17.4	54.1	72.4	3.0	75.4	0.0	NO IMPACT
		PM (4-6 PM)	71.5		71.8	71.9	250	17.4	54.1	72.0	3.0	75.0	0.0	NO IMPACT



Boundary of Proposed Rezoning Area

Boundary of Proposed Large Scale Community Facility Development

1 *Noise Receptor Location*

Noise Receptor Locations

FIGURE 15-1

MEMORIAL SLOAN-KETTERING CANCER CENTER