

Appendix E
Construction Noise Analysis

Construction Noise Analysis - Distances

		Receptors							
Distances (ft)		Residential	OMH	Thompson Building	Parker Building	Public Field	Large Baseball Field	Small Baseball Field	Calvary Hospital
Noise Sources	Large Baseball Field	456.67	1281.05	718.47	895.13	1129.88	0	318.42	1559.74
	Small Baseball Field	442.17	899.4	544.34	542.55	986.74	262.31	0	1436.76
	Garage 2	423.92	1516.8	969.92	1222.48	1312.46	153.9	644.85	1784.6
	Garage 3	1038.83	737.47	125.75	583.67	447.28	446.18	457.58	914.17
	Garage 5	715.33	395.6	610.01	208.65	987.13	777.54	389.96	1397.18
	Parker Building	976	291.4	361.09	0	699.89	839.42	535.45	1074.39
	Retail	1426.67	993.39	630.85	998.36	473.91	808.59	917.24	863.37
	Thompson Building	1046.33	454.5	0	337.26	387.19	622.71	507.96	834.19
	Tower 3	1148.33	982.95	399.21	887.2	545.18	530.7	647.43	1000.21
	Tower 4	888.08	989.46	388.18	801.47	698.63	268.44	388.91	1176.16
	Tower 5	872.42	1204.91	608.72	1025.49	852.06	263.14	561.94	1322.5
	Tower 6	595.17	1465.49	889.11	1219.92	1224.63	158.94	647.13	1689.58
Tower 7	1111.83	1208.39	601.49	1086.09	739.84	511.2	751.06	1196.71	

Construction Noise Analysis - Truck Projections

Year 8													Year 10															
10	11	12	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	11	12				
94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120		

Construction Noise Analysis - OMH

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ OMH
Building 1/Thompson Building												
Demolition	1	6	Excavator	diesel	150	2	Excavator	84	Thompson Building	454.5		60
Demolition	1	6	Bobcat	diesel	61	2	Excavator	84	Thompson Building	454.5		60
Demolition	1	6	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	454.5		42
Excavation/Foundation	6	7	Komatsu PC 200	diesel	150	1	Excavator	81	Thompson Building	454.5		57
Excavation/Foundation	6	7	Excavator	diesel	150	2	Excavator	84	Thompson Building	454.5		60
Excavation/Foundation	6	7	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	454.5		42
Excavation/Foundation	6	7	Generator	diesel	100	1	Generator	79	Thompson Building	454.5		55
Excavation/Foundation	6	7	Bobcat	diesel	61	2	Excavator	84	Thompson Building	454.5		60
Excavation/Foundation	6	7	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Thompson Building	454.5		54
Excavation/Foundation	6	7	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	454.5		49
Excavation/Foundation	6	7	Liebherr 1200 Crawler Crane	diesel	362	0	Crane	0	Thompson Building	454.5		0
Excavation/Foundation	6	7	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	454.5		49
Excavation/Foundation	6	7	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	454.5		51
Superstructure	8	8	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	454.5		58
Superstructure	8	8	Hoist	electric	400A	1	Hoist	72	Thompson Building	454.5		53
Superstructure	8	8	Compressor-Generator	diesel	150	1	Generator	79	Thompson Building	454.5		55
Superstructure	8	8	Hand Tools	electric	20A	20		0	Thompson Building	454.5		0
Superstructure	8	8	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	454.5		49
Superstructure	8	8	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	454.5		49
Superstructure	8	8	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Thompson Building	454.5		47
Superstructure	8	8	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	454.5		51
Exteriors	5	11	Hoist	electric	400A	1	Hoist	72	Thompson Building	454.5		53
Exteriors	5	11	Hand Tools	electric	20A	3		0	Thompson Building	454.5		0
Exteriors	5	11	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	454.5		58
Interiors	5	22	Hand Tools	electric	20A	20		0	Thompson Building	454.5		0
Interiors	5	22	Hoist	electric	400A	1	Hoist	72	Thompson Building	454.5		53
Interiors	5	22	Welders	electric	50A	5	Welder / Torch	76	Thompson Building	454.5		52
Retail Buildings												
Demolition	10	11	Excavator	diesel	150	2	Excavator	84	Retail	993.39		53
Demolition	10	11	Bobcat	diesel	61	2	Excavator	84	Retail	993.39		53
Demolition	10	11	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	993.39		35
Excavation/Foundation	11	14	Komatsu PC 200	diesel	150	1	Excavator	81	Retail	993.39		50
Excavation/Foundation	11	14	Excavator	diesel	150	2	Excavator	84	Retail	993.39		53
Excavation/Foundation	11	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	993.39		35
Excavation/Foundation	11	14	Generator	diesel	100	1	Generator	79	Retail	993.39		48
Excavation/Foundation	11	14	Bobcat	diesel	61	2	Excavator	84	Retail	993.39		53
Excavation/Foundation	11	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Retail	993.39		47
Excavation/Foundation	11	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	993.39		42
Excavation/Foundation	11	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	993.39		42
Excavation/Foundation	11	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	993.39		44
Superstructure	14	15	Compressor-Generator	diesel	150	1	Generator	79	Retail	993.39		48
Superstructure	14	15	Hand Tools	electric	20A	20		0	Retail	993.39		0
Superstructure	14	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	993.39		42
Superstructure	14	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	993.39		42
Superstructure	14	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Retail	993.39		40
Superstructure	14	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	993.39		44
Exteriors	15	17	Hand Tools	electric	20A	3		0	Retail	993.39		0
Interiors	17	21	Hand Tools	electric	20A	20		0	Retail	993.39		0
Interiors	17	21	Welders	electric	50A	5	Welder / Torch	76	Retail	993.39		45
Building 2/Parker Building												
Demolition	10	13	Excavator	diesel	150	2	Excavator	84	Parker Building	291.4		64
Demolition	10	13	Bobcat	diesel	61	2	Excavator	84	Parker Building	291.4		64
Demolition	10	13	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	291.4		46
Excavation/Foundation	10	14	Komatsu PC 200	diesel	150	1	Excavator	81	Parker Building	291.4		61
Excavation/Foundation	10	14	Excavator	diesel	150	2	Excavator	84	Parker Building	291.4		64
Excavation/Foundation	10	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	291.4		46
Excavation/Foundation	10	14	Generator	diesel	100	1	Generator	79	Parker Building	291.4		59
Excavation/Foundation	10	14	Bobcat	diesel	61	2	Excavator	84	Parker Building	291.4		64
Excavation/Foundation	10	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Parker Building	291.4		58
Excavation/Foundation	10	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	291.4		53
Excavation/Foundation	10	14	Liebherr 1200 Crawler Crane	diesel	362	0	Crane	0	Parker Building	291.4		0
Excavation/Foundation	10	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	291.4		53
Excavation/Foundation	10	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	291.4		55
Superstructure	12	15	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	291.4		62
Superstructure	12	15	Hoist	electric	400A	1	Hoist	72	Parker Building	291.4		57
Superstructure	12	15	Compressor-Generator	diesel	150	1	Generator	79	Parker Building	291.4		59
Superstructure	12	15	Hand Tools	electric	20A	20		0	Parker Building	291.4		0
Superstructure	12	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	291.4		53
Superstructure	12	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	291.4		53
Superstructure	12	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Parker Building	291.4		51
Superstructure	12	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	291.4		55
Exteriors	13	19	Hoist	electric	400A	1	Hoist	72	Parker Building	291.4		57
Exteriors	13	19	Hand Tools	electric	20A	3		0	Parker Building	291.4		0
Exteriors	13	19	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	291.4		62
Interiors	14	33	Hand Tools	electric	20A	20		0	Parker Building	291.4		0
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	291.4		57
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	291.4		56
Baseball Field												
Excavation/Foundation	20	23	Komatsu PC 200	diesel	150	1	Excavator	81	Small Baseball Field	899.4		51
Excavation/Foundation	20	23	Excavator	diesel	150	2	Excavator	84	Small Baseball Field	899.4		54
Excavation/Foundation	20	23	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Small Baseball Field	899.4		36
Excavation/Foundation	20	23	Generator	diesel	100	1	Generator	79	Small Baseball Field	899.4		49
Excavation/Foundation	20	23	Bobcat	diesel	61	2	Excavator	84	Small Baseball Field	899.4		54
Excavation/Foundation	20	23	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Small Baseball Field	899.4		43
Excavation/Foundation	20	23	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Small Baseball Field	899.4		43
Excavation/Foundation	20	23	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Small Baseball Field	899.4		45
Surface	23	24	Hand Tools	electric	20A	5		0	Small Baseball Field	899.4		0
Parking Garage #3												
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	737.47		53
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	737.47		38
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	737.47		51
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	737.47		53
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	737.47		50
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	737.47		47
Precast Erection	43	44	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	737.47		54
Tower 3												
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	982.95		50
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	982.95		53
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	982.95		35
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	982.95		48
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	982.95		53
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	982.95		47
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	982.95		42
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	982.95		42
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	982.95		44
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	982.95		51
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	982.95		46
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	982.95		48
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 3	982.95		0
Superstructure	25	28</										

Construction Noise Analysis - OMH

Exteriors	26	32	Hand Tools	electric	20A	3								
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	982.95		0		
Interiors	27	44	Hand Tools	electric	20A	20								
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	982.95		46		
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	982.95		45		
Tower 4														
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	989.46		50		
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	989.46		53		
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	989.46		35		
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	989.46		48		
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	989.46		53		
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	989.46		47		
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	989.46		42		
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	989.46		42		
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	989.46		44		
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	989.46		51		
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	989.46		46		
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	989.46		48		
Superstructure	25	28	Hand Tools	electric	20A	20						0		
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	989.46		42		
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	989.46		42		
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	989.46		40		
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	989.46		44		
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	989.46		46		
Exteriors	26	32	Hand Tools	electric	20A	3						0		
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	989.46		51		
Interiors	27	44	Hand Tools	electric	20A	20						0		
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	989.46		46		
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	989.46		45		
Parking Garage #5														
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	395.6		58		
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	395.6		43		
Excavation/Foundation	37	40	Generator	diesel	100	1	Generator	81	Garage 5	395.6		58		
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	395.6		58		
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	395.6		55		
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	395.6		52		
Precast Erection	41	42	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	395.6		59		
Tower 5														
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	1204.91	10	38		
Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	1204.91	10	41		
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	1204.91	10	23		
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	1204.91	10	36		
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	1204.91	10	41		
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	1204.91	10	35		
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1204.91	10	30		
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1204.91	10	30		
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1204.91	10	32		
Superstructure	63	66	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1204.91	10	39		
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	1204.91	10	34		
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	1204.91	10	36		
Superstructure	63	66	Hand Tools	electric	20A	20						0		
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1204.91	10	30		
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1204.91	10	30		
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	1204.91	10	28		
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1204.91	10	32		
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	1204.91	10	34		
Exteriors	64	70	Hand Tools	electric	20A	3						0		
Exteriors	64	70	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1204.91	10	39		
Interiors	65	84	Hand Tools	electric	20A	20						0		
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	1204.91	10	34		
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	1204.91	10	33		
Tower 7														
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	1208.39	10	38		
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	1208.39	10	41		
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	1208.39	10	23		
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	1208.39	10	36		
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	1208.39	10	41		
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	1208.39	10	35		
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1208.39	10	30		
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1208.39	10	30		
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1208.39	10	32		
Superstructure	82	85	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1208.39	10	39		
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	1208.39	10	34		
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	1208.39	10	36		
Superstructure	82	85	Hand Tools	electric	20A	20						0		
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1208.39	10	30		
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1208.39	10	30		
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	1208.39	10	28		
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1208.39	10	32		
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	1208.39	10	34		
Exteriors	83	89	Hand Tools	electric	20A	3						0		
Exteriors	83	89	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1208.39	10	39		
Interiors	84	103	Hand Tools	electric	20A	20						0		
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	1208.39	10	34		
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	1208.39	10	33		
Tower 6														
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	1465.49		47		
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	1465.49		50		
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	1465.49		32		
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	1465.49		45		
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	1465.49		50		
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	1465.49		44		
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1465.49		39		
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1465.49		39		
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1465.49		41		
Superstructure	83	86	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1465.49		48		
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	1465.49		43		
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	1465.49		45		
Superstructure	83	86	Hand Tools	electric	20A	20						0		
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1465.49		39		
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1465.49		39		
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	1465.49		37		
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1465.49		41		
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	1465.49		43		
Exteriors	84	90	Hand Tools	electric	20A	3						0		
Exteriors	84	90	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1465.49		48		
Interiors	85	104	Hand Tools	electric	20A	20								

Construction Noise Analysis - OMH

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	454.50	53.86
2	Thompson Building	78.03	454.50	53.86
3	Thompson Building	78.03	454.50	53.86
4	Thompson Building	78.03	454.50	53.86
5	Thompson Building	78.03	454.50	53.86
5	Parker Building	78.03	291.40	57.72
6	Thompson Building	81.04	454.50	56.87
6	Parker Building	78.03	291.40	57.72
7	Thompson Building	81.57	454.50	57.40
7	Parker Building	78.03	291.40	57.72
8	Thompson Building	80.79	454.50	56.62
8	Parker Building	78.03	291.40	57.72
10	Parker Building	79.79	291.40	59.48
10	Retail	75.02	993.39	44.06
11	Parker Building	81.57	291.40	61.26
11	Retail	78.03	993.39	47.07
12	Parker Building	82.04	291.40	61.73
12	Retail	78.56	993.39	47.60
13	Parker Building	82.04	291.40	61.73
13	Retail	76.02	993.39	45.06
14	Parker Building	82.04	291.40	61.73
14	Retail	79.03	993.39	48.07
15	Parker Building	80.79	291.40	60.48
15	Retail	76.02	993.39	45.06
20	Small Baseball Field	75.02	899.40	44.92
21	Small Baseball Field	75.02	899.40	44.92
22	Small Baseball Field	76.02	899.40	45.92
23	Tower 3	79.79	982.95	48.92
23	Tower 4	79.79	989.46	48.86
23	Small Baseball Field	76.02	899.40	45.92
24	Tower 3	81.57	982.95	50.70
24	Tower 4	81.57	989.46	50.64
25	Tower 3	82.04	982.95	51.17
25	Tower 4	82.04	989.46	51.11
26	Tower 3	82.04	982.95	51.17
26	Tower 4	82.04	989.46	51.11
27	Tower 3	82.04	982.95	51.17
27	Tower 4	82.04	989.46	51.11
28	Tower 3	80.79	982.95	49.92
28	Tower 4	80.79	989.46	49.86
37	Garage 5	75.02	395.60	52.05
38	Garage 5	78.56	395.60	55.59
39	Garage 3	75.02	737.47	46.65
39	Garage 5	76.02	395.60	53.05
40	Garage 3	78.56	737.47	50.18
40	Garage 5	76.02	395.60	53.05
41	Garage 3	76.02	737.47	47.65
42	Garage 3	76.02	737.47	47.65
61	Tower 5	79.79	1204.91	47.15
62	Tower 5	81.57	1204.91	48.93
63	Tower 5	82.04	1204.91	49.40
64	Tower 5	82.04	1204.91	49.40
65	Tower 5	82.04	1204.91	49.40
66	Tower 5	80.79	1204.91	48.15
80	Tower 7	79.79	1208.39	47.13
81	Tower 6	79.79	1465.49	45.45
81	Tower 7	81.57	1208.39	48.91
82	Tower 6	81.57	1465.49	47.23
82	Tower 7	82.04	1208.39	49.38
83	Tower 6	82.04	1465.49	47.70
83	Tower 7	82.04	1208.39	49.38
84	Tower 6	82.04	1465.49	47.70
84	Tower 7	82.04	1208.39	49.38
85	Tower 6	82.04	1465.49	47.70
85	Tower 7	80.79	1208.39	48.13
86	Tower 6	80.79	1465.49	46.45
99	Garage 2	75.02	1516.80	40.38
100	Garage 2	78.56	1516.80	43.92
101	Garage 2	76.02	1516.80	41.38
102	Garage 2	76.02	1516.80	41.38

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
1	4	62.9	53.9	63.4
5	5	64.9	59.2	65.9
6	6	68.0	60.3	68.7
7	7	66.4	60.6	67.4
8	8	64.1	60.2	65.6
9	9	60.6	0.0	60.6
10	10	71.5	59.6	71.8
11	11	71.7	61.4	72.1
12	12	72.3	61.9	72.7
13	13	72.8	61.8	73.1
14	14	71.9	61.9	72.3
15	15	68.3	60.6	69.0
16	16	65.0	0.0	65.0
17	19	65.0	0.0	65.0
20	21	63.0	45.0	63.0
22	22	62.9	45.9	63.0
23	23	64.8	52.9	65.0
24	24	63.5	53.7	63.9
25	25	64.5	54.2	64.9
26	26	65.0	54.2	65.4
27	27	65.2	54.2	65.5
28	28	62.9	52.9	63.3
29	32	61.2	0.0	61.2
33	33	59.9	0.0	59.9
34	36	51.7	0.0	51.7
37	37	64.1	52.1	64.4
38	38	64.1	55.6	64.7
39	39	65.0	54.0	65.4
40	40	65.0	54.9	65.4
41	42	62.0	47.7	62.1
43	44	55.8	0.0	55.8
61	61	46.7	47.2	49.9
62	62	46.7	48.9	51.0
63	63	48.3	49.4	51.9
64	64	48.9	49.4	52.2
65	65	49.2	49.4	52.3
66	66	45.7	48.2	50.1
67	70	42.2	0.0	42.2
71	79	37.1	0.0	37.1
80	80	47.1	47.1	50.1
81	81	55.6	50.5	56.8
82	82	55.8	51.5	57.2
83	83	57.3	51.6	58.3
84	84	57.9	51.6	58.8
85	85	57.8	50.9	58.6
86	86	54.2	46.5	54.9
87	89	51.0	0.0	51.0
90	90	50.6	0.0	50.6
91	98	45.8	0.0	45.8
99	99	52.7	40.5	53.0
100	100	52.7	44.0	53.2
101	102	52.7	41.5	53.0
103	104	49.5	0.0	49.5

Construction Noise Analysis - Calvary Hospital

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence
Building 1/Thompson Building												
Demolition	1	6	Excavator	diesel	150	2	Excavator	84	Thompson Building	834.19		55
Demolition	1	6	Bobcat	diesel	61	2	Excavator	84	Thompson Building	834.19		55
Demolition	1	6	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	834.19		37
Excavation/Foundation	6	7	Komatsu PC 200	diesel	150	1	Excavator	81	Thompson Building	834.19		52
Excavation/Foundation	6	7	Excavator	diesel	150	2	Excavator	84	Thompson Building	834.19		55
Excavation/Foundation	6	7	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	834.19		37
Excavation/Foundation	6	7	Generator	diesel	100	1	Generator	79	Thompson Building	834.19		50
Excavation/Foundation	6	7	Bobcat	diesel	61	2	Excavator	84	Thompson Building	834.19		55
Excavation/Foundation	6	7	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Thompson Building	834.19		49
Excavation/Foundation	6	7	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	834.19		44
Excavation/Foundation	6	7	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Thompson Building	834.19		0
Excavation/Foundation	6	7	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	834.19		44
Excavation/Foundation	6	7	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	834.19		46
Superstructure	8	8	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	834.19		53
Superstructure	8	8	Hoist	electric	400A	1	Hoist	72	Thompson Building	834.19		48
Superstructure	8	8	Compressor-Generator	diesel	150	1	Generator	79	Thompson Building	834.19		50
Superstructure	8	8	Hand Tools	electric	20A	20		0	Thompson Building	834.19		0
Superstructure	8	8	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	834.19		44
Superstructure	8	8	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	834.19		44
Superstructure	8	8	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Thompson Building	834.19		42
Superstructure	8	8	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	834.19		46
Exteriors	5	11	Hoist	electric	400A	1	Hoist	72	Thompson Building	834.19		48
Exteriors	5	11	Hand Tools	electric	20A	3		0	Thompson Building	834.19		0
Exteriors	5	11	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	834.19		53
Interiors	5	22	Hand Tools	electric	20A	20		0	Thompson Building	834.19		0
Interiors	5	22	Hoist	electric	400A	1	Hoist	72	Thompson Building	834.19		48
Interiors	5	22	Welders	electric	50A	5	Welder / Torch	76	Thompson Building	834.19		47
Retail Buildings												
Demolition	10	11	Excavator	diesel	150	2	Excavator	84	Retail	863.37		54
Demolition	10	11	Bobcat	diesel	61	2	Excavator	84	Retail	863.37		54
Demolition	10	11	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	863.37		36
Excavation/Foundation	11	14	Komatsu PC 200	diesel	150	1	Excavator	81	Retail	863.37		51
Excavation/Foundation	11	14	Excavator	diesel	150	2	Excavator	84	Retail	863.37		54
Excavation/Foundation	11	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	863.37		36
Excavation/Foundation	11	14	Generator	diesel	100	1	Generator	79	Retail	863.37		49
Excavation/Foundation	11	14	Bobcat	diesel	61	2	Excavator	84	Retail	863.37		54
Excavation/Foundation	11	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Retail	863.37		48
Excavation/Foundation	11	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	863.37		43
Excavation/Foundation	11	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	863.37		43
Excavation/Foundation	11	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	863.37		45
Superstructure	14	15	Compressor-Generator	diesel	150	1	Generator	79	Retail	863.37		49
Superstructure	14	15	Hand Tools	electric	20A	20		0	Retail	863.37		0
Superstructure	14	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	863.37		43
Superstructure	14	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	863.37		43
Superstructure	14	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Retail	863.37		41
Superstructure	14	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	863.37		45
Exteriors	15	17	Hand Tools	electric	20A	3		0	Retail	863.37		0
Interiors	17	21	Hand Tools	electric	20A	20		0	Retail	863.37		0
Interiors	17	21	Welders	electric	50A	5	Welder / Torch	76	Retail	863.37		46
Building 2/Parker Building												
Demolition	10	13	Excavator	diesel	150	2	Excavator	84	Parker Building	1074.39		52
Demolition	10	13	Bobcat	diesel	61	2	Excavator	84	Parker Building	1074.39		52
Demolition	10	13	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	1074.39		34
Excavation/Foundation	10	14	Komatsu PC 200	diesel	150	1	Excavator	81	Parker Building	1074.39		49
Excavation/Foundation	10	14	Excavator	diesel	150	2	Excavator	84	Parker Building	1074.39		52
Excavation/Foundation	10	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	1074.39		34
Excavation/Foundation	10	14	Generator	diesel	100	1	Generator	79	Parker Building	1074.39		47
Excavation/Foundation	10	14	Bobcat	diesel	61	2	Excavator	84	Parker Building	1074.39		52
Excavation/Foundation	10	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Parker Building	1074.39		46
Excavation/Foundation	10	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	1074.39		41
Excavation/Foundation	10	14	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Parker Building	1074.39		0
Excavation/Foundation	10	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	1074.39		41
Excavation/Foundation	10	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	1074.39		43
Superstructure	12	15	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	1074.39		50
Superstructure	12	15	Hoist	electric	400A	1	Hoist	72	Parker Building	1074.39		45
Superstructure	12	15	Compressor-Generator	diesel	150	1	Generator	79	Parker Building	1074.39		47
Superstructure	12	15	Hand Tools	electric	20A	20		0	Parker Building	1074.39		0
Superstructure	12	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	1074.39		41
Superstructure	12	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	1074.39		41
Superstructure	12	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Parker Building	1074.39		39
Superstructure	12	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	1074.39		43
Exteriors	13	19	Hoist	electric	400A	1	Hoist	72	Parker Building	1074.39		45
Exteriors	13	19	Hand Tools	electric	20A	3		0	Parker Building	1074.39		0
Exteriors	13	19	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	1074.39		50
Interiors	14	33	Hand Tools	electric	20A	20		0	Parker Building	1074.39		0
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	1074.39		45
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	1074.39		44
Baseball Field												
Excavation/Foundation	20	23	Komatsu PC 200	diesel	150	1	Excavator	81	Large Baseball Field	1559.74		46
Excavation/Foundation	20	23	Excavator	diesel	150	2	Excavator	84	Large Baseball Field	1559.74		49
Excavation/Foundation	20	23	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Large Baseball Field	1559.74		31
Excavation/Foundation	20	23	Generator	diesel	100	1	Generator	79	Large Baseball Field	1559.74		44
Excavation/Foundation	20	23	Bobcat	diesel	61	2	Excavator	84	Large Baseball Field	1559.74		49
Excavation/Foundation	20	23	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Large Baseball Field	1559.74		38
Excavation/Foundation	20	23	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Large Baseball Field	1559.74		38
Excavation/Foundation	20	23	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Large Baseball Field	1559.74		40
Surface	23	24	Hand Tools	electric	20A	5		0	Large Baseball Field	1559.74		0
Parking Garage #3												
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	914.17		51
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	914.17		36
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	914.17		49
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	914.17		51
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	914.17		48
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	914.17		45
Precast Erection	43	44	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	914.17		52
Tower 3												
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	1000.21		50
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	1000.21		53
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	1000.21		35
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	1000.21		48
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	1000.21		53
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	1000.21		47
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	1000.21		42
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	1000.21		42
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	1000.21		44
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	1000.21		51
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	1000.21		46
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	1000.21		48
Superstructure	25	28										

Construction Noise Analysis - Calvary Hospital

Area	Zone	Phase	Equipment	Type	Power	Count	Equipment	Power	Distance	Count	Count	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 3	1000.21	0	
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	1000.21	51	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 3	1000.21	0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	1000.21	46	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	1000.21	45	
Tower 4												0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	1176.16	49	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	1176.16	52	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	1176.16	34	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	1176.16	47	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	1176.16	52	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	1176.16	46	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	1176.16	41	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	1176.16	41	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	1176.16	43	
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	1176.16	10	40
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	1176.16	10	35
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	1176.16	10	37
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 4	1176.16	10	0
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	1176.16	10	31
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	1176.16	10	31
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	1176.16	10	29
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	1176.16	10	33
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	1176.16	10	35
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 4	1176.16	10	0
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	1176.16	10	40
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 4	1176.16	10	0
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	1176.16	10	35
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	1176.16	10	34
Parking Garage #5												0
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	1397.18	47	
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	1397.18	32	
Excavation/Foundation	37	40	Generator	diesel	100	1	Generator	81	Garage 5	1397.18	47	
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	1397.18	47	
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	1397.18	44	
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	1397.18	41	
Precast Erection	41	42	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	1397.18	48	
Tower 5												0
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	1322.5	48	
Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	1322.5	51	
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	1322.5	33	
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	1322.5	46	
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	1322.5	51	
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	1322.5	45	
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1322.5	40	
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1322.5	40	
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1322.5	42	
Superstructure	63	66	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1322.5	49	
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	1322.5	44	
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	1322.5	46	
Superstructure	63	66	Hand Tools	electric	20A	20		0	Tower 5	1322.5	0	
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1322.5	40	
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1322.5	40	
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	1322.5	38	
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1322.5	42	
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	1322.5	44	
Exteriors	64	70	Hand Tools	electric	20A	3		0	Tower 5	1322.5	0	
Exteriors	64	70	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1322.5	49	
Interiors	65	84	Hand Tools	electric	20A	20		0	Tower 5	1322.5	0	
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	1322.5	44	
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	1322.5	43	
Tower 7												0
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	1196.71	48	
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	1196.71	51	
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	1196.71	33	
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	1196.71	46	
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	1196.71	51	
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	1196.71	45	
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1196.71	40	
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1196.71	40	
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1196.71	42	
Superstructure	82	85	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1196.71	49	
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	1196.71	44	
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	1196.71	46	
Superstructure	82	85	Hand Tools	electric	20A	20		0	Tower 7	1196.71	0	
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1196.71	40	
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1196.71	40	
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	1196.71	38	
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1196.71	42	
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	1196.71	44	
Exteriors	83	89	Hand Tools	electric	20A	3		0	Tower 7	1196.71	0	
Exteriors	83	89	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1196.71	49	
Interiors	84	103	Hand Tools	electric	20A	20		0	Tower 7	1196.71	0	
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	1196.71	44	
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	1196.71	43	
Tower 6												0
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	1689.58	5	40
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	1689.58	5	43
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	1689.58	5	25
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	1689.58	5	38
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	1689.58	5	43
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	1689.58	5	37
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1689.58	5	32
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1689.58	5	32
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1689.58	5	34
Superstructure	83	86	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1689.58	5	41
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	1689.58	5	36
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	1689.58	5	38
Superstructure	83	86	Hand Tools	electric	20A	20		0	Tower 6	1689.58	5	0
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1689.58	5	32
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1689.58	5	32
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	1689.58	5	30
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1689.58	5	34
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	1689.58	5	36
Exteriors	84	90	Hand Tools	electric	20A	3		0	Tower 6	1689.58	5	0
Exteriors	84	90	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1689.58	5	41
Interiors	85	104	Hand Tools	electric	20A	20		0	Tower 6	1689.58	5	0
Interiors	85	104	Hoist	electric	400A	1	Hoist	72	Tower 6	1689.58	5	36
Interiors	85	104	Welders	electric	50A	5	Welder / Torch	76	Tower 6	1689.58	5	35
Parking Garage #2												0
Excavation/Foundation	99	102	Excavator	diesel	150	1	Excavator	81	Garage 2	1784.6	10	35
Excavation/Foundation	99	102	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 2	1784.6	10	20
Excavation/Foundation	99	102	Generator	diesel	100	1	Generator	79	Garage 2	1784.6	10	33
Excavation/Foundation	99	102	Bobcat	diesel	61	1	Excavator	81	Garage 2	1784.6	10	35
Excavation/Foundation	99	102	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 2	1784.6	10	32
Excavation/Foundation	99	102	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 2	1784.6	10	29
Precast Erection	103	104	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 2	1784.6	10	36

Construction Noise Analysis - Calvary Hospital

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	834.19	48.59
2	Thompson Building	78.03	834.19	48.59
3	Thompson Building	78.03	834.19	48.59
4	Thompson Building	78.03	834.19	48.59
5	Thompson Building	78.03	834.19	48.59
5	Parker Building	78.03	1074.39	46.39
6	Thompson Building	81.04	834.19	51.60
6	Parker Building	78.03	1074.39	46.39
7	Thompson Building	81.57	834.19	52.12
7	Parker Building	78.03	1074.39	46.39
8	Thompson Building	80.79	834.19	51.35
8	Parker Building	78.03	1074.39	46.39
10	Parker Building	79.79	1074.39	48.15
10	Retail	75.02	863.37	45.28
11	Parker Building	81.57	1074.39	49.93
11	Retail	78.03	863.37	48.29
12	Parker Building	82.04	1074.39	50.40
12	Retail	78.56	863.37	48.82
13	Parker Building	82.04	1074.39	50.40
13	Retail	76.02	863.37	46.28
14	Parker Building	82.04	1074.39	50.40
14	Retail	79.03	863.37	49.29
15	Parker Building	80.79	1074.39	49.15
15	Retail	76.02	863.37	46.28
20	Small Baseball Field	75.02	1436.76	40.85
21	Small Baseball Field	75.02	1436.76	40.85
22	Small Baseball Field	76.02	1436.76	41.85
23	Tower 3	79.79	1000.21	48.77
23	Tower 4	79.79	1176.16	47.36
23	Small Baseball Field	76.02	1436.76	41.85
24	Tower 3	81.57	1000.21	50.55
24	Tower 4	81.57	1176.16	49.14
25	Tower 3	82.04	1000.21	51.02
25	Tower 4	82.04	1176.16	49.61
26	Tower 3	82.04	1000.21	51.02
26	Tower 4	82.04	1176.16	49.61
27	Tower 3	82.04	1000.21	51.02
27	Tower 4	82.04	1176.16	49.61
28	Tower 3	80.79	1000.21	49.77
28	Tower 4	80.79	1176.16	48.36
37	Garage 5	75.02	1397.18	41.09
38	Garage 5	78.56	1397.18	44.63
39	Garage 3	75.02	914.17	44.78
39	Garage 5	76.02	1397.18	42.09
40	Garage 3	78.56	914.17	48.32
40	Garage 5	76.02	1397.18	42.09
41	Garage 3	76.02	914.17	45.78
42	Garage 3	76.02	914.17	45.78
61	Tower 5	79.79	1322.50	46.34
62	Tower 5	81.57	1322.50	48.12
63	Tower 5	82.04	1322.50	48.59
64	Tower 5	82.04	1322.50	48.59
65	Tower 5	82.04	1322.50	48.59
66	Tower 5	80.79	1322.50	47.34
80	Tower 7	79.79	1196.71	47.21
81	Tower 6	79.79	1689.58	44.22
81	Tower 7	81.57	1196.71	48.99
82	Tower 6	81.57	1689.58	45.99
82	Tower 7	82.04	1196.71	49.46
83	Tower 6	82.04	1689.58	46.47
83	Tower 7	82.04	1196.71	49.46
84	Tower 6	82.04	1689.58	46.47
84	Tower 7	82.04	1196.71	49.46
85	Tower 6	82.04	1689.58	46.47
85	Tower 7	80.79	1196.71	48.21
86	Tower 6	80.79	1689.58	45.22
99	Garage 2	75.02	1784.60	38.97
100	Garage 2	78.56	1784.60	42.51
101	Garage 2	76.02	1784.60	39.97
102	Garage 2	76.02	1784.60	39.97

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
1	4	57.6	48.6	58.1
5	5	59.6	50.6	60.2
6	6	62.8	52.7	63.2
7	7	61.2	53.2	61.8
8	8	58.8	52.6	59.8
9	9	55.3	0.0	55.3
10	10	62.6	50.0	62.8
11	11	64.3	52.2	64.6
12	12	63.4	52.7	63.8
13	13	63.7	51.8	64.0
14	14	63.5	52.9	63.8
15	15	58.7	51.0	59.4
16	16	54.9	0.0	54.9
17	19	55.4	0.0	55.4
20	21	56.6	40.9	56.8
22	22	56.2	41.9	56.4
23	23	61.7	51.6	62.1
24	24	60.9	52.9	61.5
25	25	61.9	53.4	62.4
26	26	62.3	53.4	62.9
27	27	62.5	53.4	63.0
28	28	58.0	52.1	59.0
29	32	55.0	0.0	55.0
33	33	51.4	0.0	51.4
34	36	48.8	0.0	48.8
37	37	54.3	41.2	54.5
38	38	54.3	44.7	54.8
39	39	58.3	46.7	58.6
40	40	58.3	49.3	58.8
41	42	57.4	45.8	57.7
43	44	53.6	0.0	53.6
61	61	55.9	46.4	56.3
62	62	55.9	48.1	56.5
63	63	57.4	48.6	58.0
64	64	58.1	48.6	58.6
65	65	58.4	48.6	58.8
66	66	54.8	47.4	55.6
67	70	51.3	0.0	51.3
71	79	46.1	0.0	46.1
80	80	57.1	47.2	57.5
81	81	57.7	50.2	58.4
82	82	59.0	51.1	59.6
83	83	59.7	51.2	60.3
84	84	60.0	51.2	60.6
85	85	57.0	50.4	57.9
86	86	53.5	45.2	54.1
87	89	52.8	0.0	52.8
90	90	48.8	0.0	48.8
91	98	47.6	0.0	47.6
99	99	48.4	39.1	48.8
100	100	48.4	42.6	49.4
101	102	48.4	40.1	49.0
103	104	40.8	0.0	40.8

Construction Noise Analysis - Residential Receptors

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence
Building 1/Thompson Building												
Demolition	1	6	Excavator	diesel	150	2	Excavator	84	Thompson Building	1046.33		53
Demolition	1	6	Bobcat	diesel	61	2	Excavator	84	Thompson Building	1046.33		53
Demolition	1	6	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	1046.33		35
Excavation/Foundation	6	7	Komatsu PC 200	diesel	150	1	Excavator	81	Thompson Building	1046.33		50
Excavation/Foundation	6	7	Excavator	diesel	150	2	Excavator	84	Thompson Building	1046.33		53
Excavation/Foundation	6	7	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	1046.33		35
Excavation/Foundation	6	7	Generator	diesel	100	1	Generator	79	Thompson Building	1046.33		48
Excavation/Foundation	6	7	Bobcat	diesel	61	2	Excavator	84	Thompson Building	1046.33		53
Excavation/Foundation	6	7	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Thompson Building	1046.33		47
Excavation/Foundation	6	7	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	1046.33		42
Excavation/Foundation	6	7	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Thompson Building	1046.33		0
Excavation/Foundation	6	7	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	1046.33		42
Excavation/Foundation	6	7	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	1046.33		44
Superstructure	8	8	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	1046.33		51
Superstructure	8	8	Hoist	electric	400A	1	Hoist	72	Thompson Building	1046.33		46
Superstructure	8	8	Compressor-Generator	diesel	150	1	Generator	79	Thompson Building	1046.33		48
Superstructure	8	8	Hand Tools	electric	20A	20		0	Thompson Building	1046.33		0
Superstructure	8	8	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	1046.33		42
Superstructure	8	8	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	1046.33		42
Superstructure	8	8	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Thompson Building	1046.33		40
Superstructure	8	8	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	1046.33		44
Exteriors	5	11	Hoist	electric	400A	1	Hoist	72	Thompson Building	1046.33		46
Exteriors	5	11	Hand Tools	electric	20A	3		0	Thompson Building	1046.33		0
Exteriors	5	11	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	1046.33		51
Interiors	5	22	Hand Tools	electric	20A	20		0	Thompson Building	1046.33		0
Interiors	5	22	Hoist	electric	400A	1	Hoist	72	Thompson Building	1046.33		46
Interiors	5	22	Welders	electric	50A	5	Welder / Torch	76	Thompson Building	1046.33		45
Retail Buildings												
Demolition	10	11	Excavator	diesel	150	2	Excavator	84	Retail	1426.67		50
Demolition	10	11	Bobcat	diesel	61	2	Excavator	84	Retail	1426.67		50
Demolition	10	11	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	1426.67		32
Excavation/Foundation	11	14	Komatsu PC 200	diesel	150	1	Excavator	81	Retail	1426.67		47
Excavation/Foundation	11	14	Excavator	diesel	150	2	Excavator	84	Retail	1426.67		50
Excavation/Foundation	11	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	1426.67		32
Excavation/Foundation	11	14	Generator	diesel	100	1	Generator	79	Retail	1426.67		45
Excavation/Foundation	11	14	Bobcat	diesel	61	2	Excavator	84	Retail	1426.67		50
Excavation/Foundation	11	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Retail	1426.67		44
Excavation/Foundation	11	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	1426.67		39
Excavation/Foundation	11	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	1426.67		39
Excavation/Foundation	11	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	1426.67		41
Superstructure	14	15	Compressor-Generator	diesel	150	1	Generator	79	Retail	1426.67		45
Superstructure	14	15	Hand Tools	electric	20A	20		0	Retail	1426.67		0
Superstructure	14	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	1426.67		39
Superstructure	14	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	1426.67		39
Superstructure	14	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Retail	1426.67		37
Superstructure	14	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	1426.67		41
Exteriors	15	17	Hand Tools	electric	20A	3		0	Retail	1426.67		0
Interiors	17	21	Hand Tools	electric	20A	20		0	Retail	1426.67		0
Interiors	17	21	Welders	electric	50A	5	Welder / Torch	76	Retail	1426.67		42
Building 2/Parker Building												
Demolition	10	13	Excavator	diesel	150	2	Excavator	84	Parker Building	976		53
Demolition	10	13	Bobcat	diesel	61	2	Excavator	84	Parker Building	976		53
Demolition	10	13	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	976		35
Excavation/Foundation	10	14	Komatsu PC 200	diesel	150	1	Excavator	81	Parker Building	976		50
Excavation/Foundation	10	14	Excavator	diesel	150	2	Excavator	84	Parker Building	976		53
Excavation/Foundation	10	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	976		35
Excavation/Foundation	10	14	Generator	diesel	100	1	Generator	79	Parker Building	976		48
Excavation/Foundation	10	14	Bobcat	diesel	61	2	Excavator	84	Parker Building	976		53
Excavation/Foundation	10	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Parker Building	976		47
Excavation/Foundation	10	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	976		42
Excavation/Foundation	10	14	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Parker Building	976		0
Excavation/Foundation	10	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	976		42
Excavation/Foundation	10	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	976		44
Superstructure	12	15	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	976		51
Superstructure	12	15	Hoist	electric	400A	1	Hoist	72	Parker Building	976		46
Superstructure	12	15	Compressor-Generator	diesel	150	1	Generator	79	Parker Building	976		48
Superstructure	12	15	Hand Tools	electric	20A	20		0	Parker Building	976		0
Superstructure	12	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	976		42
Superstructure	12	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	976		42
Superstructure	12	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Parker Building	976		40
Superstructure	12	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	976		44
Exteriors	13	19	Hoist	electric	400A	1	Hoist	72	Parker Building	976		46
Exteriors	13	19	Hand Tools	electric	20A	3		0	Parker Building	976		0
Exteriors	13	19	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	976		51
Interiors	14	33	Hand Tools	electric	20A	20		0	Parker Building	976		0
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	976		46
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	976		45
Baseball Field												
Excavation/Foundation	20	23	Komatsu PC 200	diesel	150	1	Excavator	81	Small Baseball Field	442.17		57
Excavation/Foundation	20	23	Excavator	diesel	150	2	Excavator	84	Small Baseball Field	442.17		60
Excavation/Foundation	20	23	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Small Baseball Field	442.17		42
Excavation/Foundation	20	23	Generator	diesel	100	1	Generator	79	Small Baseball Field	442.17		55
Excavation/Foundation	20	23	Bobcat	diesel	61	2	Excavator	84	Small Baseball Field	442.17		60
Excavation/Foundation	20	23	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Small Baseball Field	442.17		49
Excavation/Foundation	20	23	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Small Baseball Field	442.17		49
Excavation/Foundation	20	23	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Small Baseball Field	442.17		51
Surface	23	24	Hand Tools	electric	20A	5		0	Small Baseball Field	442.17		0
Parking Garage #3												
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	1038.83		50
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	1038.83		35
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	1038.83		48
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	1038.83		50
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	1038.83		47
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	1038.83		44
Precast Erection	43	44	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	1038.83		51
Tower 3												
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	1148.33		49
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	1148.33		52
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	1148.33		34
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	1148.33		47
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	1148.33		52
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	1148.33		46
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	1148.33		41
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	1148.33		41
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	1148.33		43
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	1148.33		50
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	1148.33		45
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	1148.33		47
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 3	1148.33		0
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	1148.33		41
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	1148.33		41
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 3	1148.33		39
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	1148.33		43
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 3	1148.33		45

Construction Noise Analysis - Residential Receptors

Exteriors	26	32	Hand Tools	electric	20A	3							
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	1148.33			0
Interiors	27	44	Hand Tools	electric	20A	20			Tower 3	1148.33			50
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	1148.33			0
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	1148.33			45
Tower 4													
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	888.08			44
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	888.08			0
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	888.08			51
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	888.08			54
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	888.08			36
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	888.08			49
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	888.08			54
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	888.08			48
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	888.08			43
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	888.08			43
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	888.08			47
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	888.08			49
Superstructure	25	28	Hand Tools	electric	20A	20			Tower 4	888.08			0
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	888.08			43
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	888.08			43
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	888.08			41
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	888.08			45
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	888.08			47
Exteriors	26	32	Hand Tools	electric	20A	3			Tower 4	888.08			0
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	888.08			52
Interiors	27	44	Hand Tools	electric	20A	20			Tower 4	888.08			0
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	888.08			47
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	888.08			46
Parking Garage #5													
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	715.33			0
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	715.33			53
Excavation/Foundation	37	40	Generator	diesel	100	1	Excavator	81	Garage 5	715.33			38
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	715.33			53
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	715.33			50
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	715.33			47
Precast Erection	41	42	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	715.33			54
Tower 5													
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	872.42			0
Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	872.42			51
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	872.42			54
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	872.42			36
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	872.42			49
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	872.42			54
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	872.42			48
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	872.42			43
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	872.42			43
Superstructure	63	66	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	872.42			45
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	872.42			52
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	872.42			47
Superstructure	63	66	Hand Tools	electric	20A	20			Tower 5	872.42			49
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	872.42			0
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	872.42			43
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	872.42			43
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	872.42			41
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	872.42			45
Exteriors	64	70	Hand Tools	electric	20A	3			Tower 5	872.42			47
Exteriors	64	70	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	872.42			0
Interiors	65	84	Hand Tools	electric	20A	20			Tower 5	872.42			52
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	872.42			0
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	872.42			47
Tower 7													
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	1111.83	10		46
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	1111.83	10		0
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	1111.83	10		39
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	1111.83	10		42
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	1111.83	10		24
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	1111.83	10		37
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1111.83	10		42
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1111.83	10		36
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1111.83	10		31
Superstructure	82	85	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1111.83	10		31
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	1111.83	10		31
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	1111.83	10		33
Superstructure	82	85	Hand Tools	electric	20A	20			Tower 7	1111.83	10		40
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1111.83	10		35
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1111.83	10		37
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	1111.83	10		0
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1111.83	10		31
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	1111.83	10		29
Exteriors	83	89	Hand Tools	electric	20A	3			Tower 7	1111.83	10		33
Exteriors	83	89	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1111.83	10		35
Interiors	84	103	Hand Tools	electric	20A	20			Tower 7	1111.83	10		0
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	1111.83	10		40
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	1111.83	10		0
Tower 6													
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	595.17			34
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	595.17			0
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	595.17			55
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	595.17			58
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	595.17			39
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	595.17			52
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	595.17			58
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	595.17			51
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	595.17			46
Superstructure	83	86	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	595.17			46
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	595.17			48
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	595.17			56
Superstructure	83	86	Hand Tools	electric	20A	20			Tower 6	595.17			50
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	595.17			0
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	595.17			46
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	595.17			46
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	595.17			45
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	595.17			48
Exteriors	84	90	Hand Tools	electric	20A	3			Tower 6	595.17			50
Exteriors	84	90	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	595.17			0
Interiors	85</												

Construction Noise Analysis - Residential Receptors

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	1046.33	46.62
2	Thompson Building	78.03	1046.33	46.62
3	Thompson Building	78.03	1046.33	46.62
4	Thompson Building	78.03	1046.33	46.62
5	Thompson Building	78.03	1046.33	46.62
5	Parker Building	78.03	976.00	47.22
6	Thompson Building	81.04	1046.33	49.63
6	Parker Building	78.03	976.00	47.22
7	Thompson Building	81.57	1046.33	50.16
7	Parker Building	78.03	976.00	47.22
8	Thompson Building	80.79	1046.33	49.38
8	Parker Building	78.03	976.00	47.22
10	Parker Building	79.79	976.00	48.98
10	Retail	75.02	1426.67	40.91
11	Parker Building	81.57	976.00	50.76
11	Retail	78.03	1426.67	43.92
12	Parker Building	82.04	976.00	51.23
12	Retail	78.56	1426.67	44.45
13	Parker Building	82.04	976.00	51.23
13	Retail	76.02	1426.67	41.91
14	Parker Building	82.04	976.00	51.23
14	Retail	79.03	1426.67	44.92
15	Parker Building	80.79	976.00	49.98
15	Retail	76.02	1426.67	41.91
20	Small Baseball Field	75.02	442.17	51.09
21	Small Baseball Field	75.02	442.17	51.09
22	Small Baseball Field	76.02	442.17	52.09
23	Tower 3	79.79	1148.33	47.57
23	Tower 4	79.79	888.08	49.80
23	Small Baseball Field	76.02	442.17	52.09
24	Tower 3	81.57	1148.33	49.35
24	Tower 4	81.57	888.08	51.58
25	Tower 3	82.04	1148.33	49.82
25	Tower 4	82.04	888.08	52.05
26	Tower 3	82.04	1148.33	49.82
26	Tower 4	82.04	888.08	52.05
27	Tower 3	82.04	1148.33	49.82
27	Tower 4	82.04	888.08	52.05
28	Tower 3	80.79	1148.33	48.57
28	Tower 4	80.79	888.08	50.80
37	Garage 5	75.02	715.33	46.91
38	Garage 5	78.56	715.33	50.45
39	Garage 3	75.02	1038.83	43.67
39	Garage 5	76.02	715.33	47.91
40	Garage 3	78.56	1038.83	47.21
40	Garage 5	76.02	715.33	47.91
41	Garage 3	76.02	1038.83	44.67
42	Garage 3	76.02	1038.83	44.67
61	Tower 5	79.79	872.42	49.96
62	Tower 5	81.57	872.42	51.73
63	Tower 5	82.04	872.42	52.21
64	Tower 5	82.04	872.42	52.21
65	Tower 5	82.04	872.42	52.21
66	Tower 5	80.79	872.42	50.96
80	Tower 7	79.79	1111.83	47.85
81	Tower 6	79.79	595.17	53.28
81	Tower 7	81.57	1111.83	49.63
82	Tower 6	81.57	595.17	55.06
82	Tower 7	82.04	1111.83	50.10
83	Tower 6	82.04	595.17	55.53
83	Tower 7	82.04	1111.83	50.10
84	Tower 6	82.04	595.17	55.53
84	Tower 7	82.04	1111.83	50.10
85	Tower 6	82.04	595.17	55.53
85	Tower 7	80.79	1111.83	48.85
86	Tower 6	80.79	595.17	54.28
99	Garage 2	75.02	423.92	51.45
100	Garage 2	78.56	423.92	54.99
101	Garage 2	76.02	423.92	52.45
102	Garage 2	76.02	423.92	52.45

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
1	4	55.7	46.6	56.2
5	5	57.7	49.9	58.3
6	6	60.8	51.6	61.3
7	7	59.2	51.9	59.9
8	8	56.9	51.4	58.0
9	9	53.4	0.0	53.4
10	10	61.9	49.6	62.1
11	11	62.7	51.6	63.1
12	12	62.6	52.1	63.0
13	13	63.0	51.7	63.3
14	14	62.4	52.2	62.8
15	15	58.4	50.6	59.0
16	16	55.0	0.0	55.0
17	19	55.2	0.0	55.2
20	21	65.2	51.1	65.4
22	22	65.2	52.1	65.4
23	23	66.6	55.0	66.9
24	24	61.6	53.6	62.2
25	25	63.1	54.1	63.6
26	26	63.8	54.1	64.2
27	27	64.0	54.1	64.4
28	28	60.6	52.8	61.3
29	32	57.4	0.0	57.4
33	33	53.4	0.0	53.4
34	36	51.6	0.0	51.6
37	37	59.5	46.9	59.7
38	38	59.5	50.5	60.0
39	39	60.8	49.3	61.1
40	40	60.8	50.6	61.2
41	42	58.5	44.7	58.7
43	44	54.2	0.0	54.2
61	61	59.5	50.0	59.9
62	62	59.5	51.7	60.1
63	63	61.0	52.2	61.6
64	64	61.7	52.2	62.2
65	65	62.0	52.2	62.4
66	66	58.4	51.0	59.2
67	70	54.9	0.0	54.9
71	79	49.7	0.0	49.7
80	80	51.7	47.9	53.2
81	81	63.1	54.8	63.7
82	82	63.2	56.3	64.0
83	83	64.7	56.6	65.3
84	84	65.3	56.6	65.9
85	85	65.4	56.4	65.9
86	86	61.8	54.3	62.5
87	89	58.4	0.0	58.4
90	90	58.3	0.0	58.3
91	98	53.2	0.0	53.2
99	99	63.2	51.5	63.5
100	100	63.2	55.0	63.8
101	102	63.2	52.5	63.6
103	104	59.6	0.0	59.6

Construction Noise Analysis - Public Fields

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence
Building 1/Thompson Building												
Demolition	1	6	Excavator	diesel	150	2	Excavator	84	Thompson Building	387.19		61
Demolition	1	6	Bobcat	diesel	61	2	Excavator	84	Thompson Building	387.19		61
Demolition	1	6	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	387.19		43
Excavation/Foundation	6	7	Komatsu PC 200	diesel	150	1	Excavator	81	Thompson Building	387.19		58
Excavation/Foundation	6	7	Excavator	diesel	150	2	Excavator	84	Thompson Building	387.19		61
Excavation/Foundation	6	7	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Thompson Building	387.19		43
Excavation/Foundation	6	7	Generator	diesel	100	1	Generator	79	Thompson Building	387.19		56
Excavation/Foundation	6	7	Bobcat	diesel	61	2	Excavator	84	Thompson Building	387.19		61
Excavation/Foundation	6	7	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Thompson Building	387.19		55
Excavation/Foundation	6	7	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	387.19		50
Excavation/Foundation	6	7	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Thompson Building	387.19		0
Excavation/Foundation	6	7	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	387.19		50
Excavation/Foundation	6	7	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	387.19		52
Superstructure	8	8	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	387.19		59
Superstructure	8	8	Hoist	electric	400A	1	Hoist	72	Thompson Building	387.19		54
Superstructure	8	8	Compressor-Generator	diesel	150	1	Generator	79	Thompson Building	387.19		56
Superstructure	8	8	Hand Tools	electric	20A	20	0	Thompson Building	387.19		0	
Superstructure	8	8	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Thompson Building	387.19		50
Superstructure	8	8	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Thompson Building	387.19		50
Superstructure	8	8	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Thompson Building	387.19		48
Superstructure	8	8	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Thompson Building	387.19		52
Exteriors	5	11	Hoist	electric	400A	1	Hoist	72	Thompson Building	387.19		54
Exteriors	5	11	Hand Tools	electric	20A	3	0	Thompson Building	387.19		0	
Exteriors	5	11	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Thompson Building	387.19		59
Interiors	5	22	Hand Tools	electric	20A	20	0	Thompson Building	387.19		0	
Interiors	5	22	Hoist	electric	400A	1	Hoist	72	Thompson Building	387.19		54
Interiors	5	22	Welders	electric	50A	5	Welder / Torch	76	Thompson Building	387.19		53
Retail Buildings												
Demolition	10	11	Excavator	diesel	150	2	Excavator	84	Retail	473.91		59
Demolition	10	11	Bobcat	diesel	61	2	Excavator	84	Retail	473.91		59
Demolition	10	11	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	473.91		41
Excavation/Foundation	11	14	Komatsu PC 200	diesel	150	1	Excavator	81	Retail	473.91		56
Excavation/Foundation	11	14	Excavator	diesel	150	2	Excavator	84	Retail	473.91		59
Excavation/Foundation	11	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Retail	473.91		41
Excavation/Foundation	11	14	Generator	diesel	100	1	Generator	79	Retail	473.91		54
Excavation/Foundation	11	14	Bobcat	diesel	61	2	Excavator	84	Retail	473.91		59
Excavation/Foundation	11	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Retail	473.91		53
Excavation/Foundation	11	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	473.91		48
Excavation/Foundation	11	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	473.91		48
Excavation/Foundation	11	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	473.91		50
Superstructure	14	15	Compressor-Generator	diesel	150	1	Generator	79	Retail	473.91		54
Superstructure	14	15	Hand Tools	electric	20A	20	0	Retail	473.91		0	
Superstructure	14	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Retail	473.91		48
Superstructure	14	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Retail	473.91		48
Superstructure	14	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Retail	473.91		46
Superstructure	14	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Retail	473.91		50
Exteriors	15	17	Hand Tools	electric	20A	3	0	Retail	473.91		0	
Interiors	17	21	Hand Tools	electric	20A	20	0	Retail	473.91		0	
Interiors	17	21	Welders	electric	50A	5	Welder / Torch	76	Retail	473.91		51
Building 2/Parker Building												
Demolition	10	13	Excavator	diesel	150	2	Excavator	84	Parker Building	699.89		56
Demolition	10	13	Bobcat	diesel	61	2	Excavator	84	Parker Building	699.89		56
Demolition	10	13	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	699.89		38
Excavation/Foundation	10	14	Komatsu PC 200	diesel	150	1	Excavator	81	Parker Building	699.89		53
Excavation/Foundation	10	14	Excavator	diesel	150	2	Excavator	84	Parker Building	699.89		56
Excavation/Foundation	10	14	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Parker Building	699.89		38
Excavation/Foundation	10	14	Generator	diesel	100	1	Generator	79	Parker Building	699.89		51
Excavation/Foundation	10	14	Bobcat	diesel	61	2	Excavator	84	Parker Building	699.89		56
Excavation/Foundation	10	14	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Parker Building	699.89		50
Excavation/Foundation	10	14	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	699.89		45
Excavation/Foundation	10	14	Liebher 1200 Crawler Crane	diesel	362	0	Crane	0	Parker Building	699.89		0
Excavation/Foundation	10	14	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	699.89		45
Excavation/Foundation	10	14	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	699.89		47
Superstructure	12	15	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	699.89		54
Superstructure	12	15	Hoist	electric	400A	1	Hoist	72	Parker Building	699.89		49
Superstructure	12	15	Compressor-Generator	diesel	150	1	Generator	79	Parker Building	699.89		51
Superstructure	12	15	Hand Tools	electric	20A	20	0	Parker Building	699.89		0	
Superstructure	12	15	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Parker Building	699.89		45
Superstructure	12	15	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Parker Building	699.89		45
Superstructure	12	15	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Parker Building	699.89		43
Superstructure	12	15	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Parker Building	699.89		47
Exteriors	13	19	Hoist	electric	400A	1	Hoist	72	Parker Building	699.89		49
Exteriors	13	19	Hand Tools	electric	20A	3	0	Parker Building	699.89		0	
Exteriors	13	19	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Parker Building	699.89		54
Interiors	14	33	Hand Tools	electric	20A	20	0	Parker Building	699.89		0	
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	699.89		49
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	699.89		48
Baseball Field												
Excavation/Foundation	20	23	Komatsu PC 200	diesel	150	1	Excavator	81	Small Baseball Field	986.74		50
Excavation/Foundation	20	23	Excavator	diesel	150	2	Excavator	84	Small Baseball Field	986.74		53
Excavation/Foundation	20	23	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Small Baseball Field	986.74		35
Excavation/Foundation	20	23	Generator	diesel	100	1	Generator	79	Small Baseball Field	986.74		48
Excavation/Foundation	20	23	Bobcat	diesel	61	2	Excavator	84	Small Baseball Field	986.74		53
Excavation/Foundation	20	23	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Small Baseball Field	986.74		42
Excavation/Foundation	20	23	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Small Baseball Field	986.74		42
Excavation/Foundation	20	23	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Small Baseball Field	986.74		44
Surface	23	24	Hand Tools	electric	20A	5	0	Small Baseball Field	986.74		0	
Parking Garage #3												
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	447.28		57
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	447.28		42
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	447.28		55
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	447.28		57
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	447.28		54
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	447.28		51
Precast Erection	43	44	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	447.28		58
Tower 3												
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	545.18		55
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	545.18		58
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	545.18		40
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	545.18		53
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	545.18		58
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	545.18		52
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	545.18		47
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	545.18		47
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	545.18		49
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	545.18		56
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	545.18		51
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	545.18		53
Superstructure	25	28	Hand Tools	electric	20A	20	0	Tower 3	545.18		0	
Superstructure	25	28										

Construction Noise Analysis - Public Fields

Exteriors	26	32	Hand Tools	electric	20A	3											
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 3	545.18						0
Interiors	27	44	Hand Tools	electric	20A	20			0	Tower 3	545.18						56
Interiors	27	44	Hoist	electric	400A	1		Hoist	72	Tower 3	545.18						0
Interiors	27	44	Welders	electric	50A	5		Welder / Torch	76	Tower 3	545.18						51
									0								50
									0								0
Tower 4																	
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1		Excavator	81	Tower 4	698.63						53
Excavation/Foundation	23	27	Excavator	diesel	150	2		Excavator	84	Tower 4	698.63						56
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1		Jackhammer	66	Tower 4	698.63						38
Excavation/Foundation	23	27	Generator	diesel	100	1		Generator	79	Tower 4	698.63						51
Excavation/Foundation	23	27	Bobcat	diesel	61	2		Excavator	84	Tower 4	698.63						56
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1		Auger Drill Rig	78	Tower 4	698.63						50
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 4	698.63						45
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 4	698.63						45
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 4	698.63						47
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 4	698.63						54
Superstructure	25	28	Hoist	electric	400A	1		Hoist	72	Tower 4	698.63						49
Superstructure	25	28	Compressor-Generator	diesel	150	1		Generator	79	Tower 4	698.63						51
Superstructure	25	28	Hand Tools	electric	20A	20			0	Tower 4	698.63						0
Superstructure	25	28	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 4	698.63						45
Superstructure	25	28	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 4	698.63						45
Superstructure	25	28	Concrete Finishers	gasoline	5	2		Concrete Trowel	66	Tower 4	698.63						43
Superstructure	25	28	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 4	698.63						47
Exteriors	26	32	Hoist	electric	400A	1		Hoist	72	Tower 4	698.63						49
Exteriors	26	32	Hand Tools	electric	20A	3			0	Tower 4	698.63						0
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 4	698.63						54
Interiors	27	44	Hand Tools	electric	20A	20			0	Tower 4	698.63						0
Interiors	27	44	Hoist	electric	400A	1		Hoist	72	Tower 4	698.63						49
Interiors	27	44	Welders	electric	50A	5		Welder / Torch	76	Tower 4	698.63						48
									0								0
Parking Garage #5																	
Excavation/Foundation	37	40	Excavator	diesel	150	1		Excavator	81	Garage 5	987.13						50
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1		Jackhammer	66	Garage 5	987.13						35
Excavation/Foundation	37	40	Generator	diesel	100	1		Excavator	81	Garage 5	987.13						50
Excavation/Foundation	37	40	Bobcat	diesel	61	1		Excavator	81	Garage 5	987.13						50
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1		Auger Drill Rig	78	Garage 5	987.13						47
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Garage 5	987.13						44
Precast Erection	41	42	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Garage 5	987.13						51
									0								0
Tower 5																	
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1		Excavator	81	Tower 5	852.06	10					41
Excavation/Foundation	61	65	Excavator	diesel	150	2		Excavator	84	Tower 5	852.06	10					44
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1		Jackhammer	66	Tower 5	852.06	10					26
Excavation/Foundation	61	65	Generator	diesel	100	1		Generator	79	Tower 5	852.06	10					39
Excavation/Foundation	61	65	Bobcat	diesel	61	2		Excavator	84	Tower 5	852.06	10					44
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1		Auger Drill Rig	78	Tower 5	852.06	10					38
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 5	852.06	10					33
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 5	852.06	10					33
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 5	852.06	10					35
Superstructure	63	66	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 5	852.06	10					42
Superstructure	63	66	Hoist	electric	400A	1		Hoist	72	Tower 5	852.06	10					37
Superstructure	63	66	Compressor-Generator	diesel	150	1		Generator	79	Tower 5	852.06	10					39
Superstructure	63	66	Hand Tools	electric	20A	20			0	Tower 5	852.06	10					0
Superstructure	63	66	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 5	852.06	10					33
Superstructure	63	66	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 5	852.06	10					33
Superstructure	63	66	Concrete Finishers	gasoline	5	2		Concrete Trowel	66	Tower 5	852.06	10					31
Superstructure	63	66	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 5	852.06	10					35
Exteriors	64	70	Hoist	electric	400A	1		Hoist	72	Tower 5	852.06	10					37
Exteriors	64	70	Hand Tools	electric	20A	3			0	Tower 5	852.06	10					0
Exteriors	64	70	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 5	852.06	10					42
Interiors	65	84	Hand Tools	electric	20A	20			0	Tower 5	852.06	10					0
Interiors	65	84	Hoist	electric	400A	1		Hoist	72	Tower 5	852.06	10					37
Interiors	65	84	Welders	electric	50A	5		Welder / Torch	76	Tower 5	852.06	10					36
									0								0
Tower 7																	
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1		Excavator	81	Tower 7	739.84	10					43
Excavation/Foundation	80	84	Excavator	diesel	150	2		Excavator	84	Tower 7	739.84	10					46
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1		Jackhammer	66	Tower 7	739.84	10					28
Excavation/Foundation	80	84	Generator	diesel	100	1		Generator	79	Tower 7	739.84	10					41
Excavation/Foundation	80	84	Bobcat	diesel	61	2		Excavator	84	Tower 7	739.84	10					46
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1		Auger Drill Rig	78	Tower 7	739.84	10					40
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 7	739.84	10					35
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 7	739.84	10					35
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 7	739.84	10					37
Superstructure	82	85	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 7	739.84	10					44
Superstructure	82	85	Hoist	electric	400A	1		Hoist	72	Tower 7	739.84	10					39
Superstructure	82	85	Compressor-Generator	diesel	150	1		Generator	79	Tower 7	739.84	10					41
Superstructure	82	85	Hand Tools	electric	20A	20			0	Tower 7	739.84	10					0
Superstructure	82	85	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 7	739.84	10					35
Superstructure	82	85	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 7	739.84	10					35
Superstructure	82	85	Concrete Finishers	gasoline	5	2		Concrete Trowel	66	Tower 7	739.84	10					33
Superstructure	82	85	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 7	739.84	10					37
Exteriors	83	89	Hoist	electric	400A	1		Hoist	72	Tower 7	739.84	10					39
Exteriors	83	89	Hand Tools	electric	20A	3			0	Tower 7	739.84	10					0
Exteriors	83	89	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 7	739.84	10					44
Interiors	84	103	Hand Tools	electric	20A	20			0	Tower 7	739.84	10					0
Interiors	84	103	Hoist	electric	400A	1		Hoist	72	Tower 7	739.84	10					39
Interiors	84	103	Welders	electric	50A	5		Welder / Torch	76	Tower 7	739.84	10					38
									0								0
Tower 6																	
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1		Excavator	81	Tower 6	1224.63						48
Excavation/Foundation	81	85	Excavator	diesel	150	2		Excavator	84	Tower 6	1224.63						51
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1		Jackhammer	66	Tower 6	1224.63						33
Excavation/Foundation	81	85	Generator	diesel	100	1		Generator	79	Tower 6	1224.63						46
Excavation/Foundation	81	85	Bobcat	diesel	61	2		Excavator	84	Tower 6	1224.63						51
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1		Auger Drill Rig	78	Tower 6	1224.63						45
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 6	1224.63						40
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 6	1224.63						40
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1		Concrete Pump Truck	75	Tower 6	1224.63						42
Superstructure	83	86	Liebher 1200 Crawler Crane	diesel	320	1		Crane	77	Tower 6	1224.63						49
Superstructure	83	86	Hoist	electric	400A	1		Hoist	72	Tower 6	1224.63						44
Superstructure	83	86	Compressor-Generator	diesel	150	1		Generator	79	Tower 6	1224.63						46
Superstructure	83	86	Hand Tools	electric	20A	20			0	Tower 6	1224.63						0
Superstructure	83	86	Bar Bending Machine	gasoline	50	1		Bar Bender	73	Tower 6	1224.63						40
Superstructure	83	86	Concrete Vibrators	electric	20A	1		Vibratory Hopper	73	Tower 6	1224.						

Construction Noise Analysis - Public Fields

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	387.19	55.25
2	Thompson Building	78.03	387.19	55.25
3	Thompson Building	78.03	387.19	55.25
4	Thompson Building	78.03	387.19	55.25
5	Thompson Building	78.03	387.19	55.25
5	Parker Building	78.03	699.89	50.11
6	Thompson Building	81.04	387.19	58.26
6	Parker Building	78.03	699.89	50.11
7	Thompson Building	81.57	387.19	58.79
7	Parker Building	78.03	699.89	50.11
8	Thompson Building	80.79	387.19	58.01
8	Parker Building	78.03	699.89	50.11
10	Parker Building	79.79	699.89	51.87
10	Retail	75.02	473.91	50.49
11	Parker Building	81.57	699.89	53.65
11	Retail	78.03	473.91	53.50
12	Parker Building	82.04	699.89	54.12
12	Retail	78.56	473.91	54.03
13	Parker Building	82.04	699.89	54.12
13	Retail	76.02	473.91	51.49
14	Parker Building	82.04	699.89	54.12
14	Retail	79.03	473.91	54.50
15	Parker Building	80.79	699.89	52.87
15	Retail	76.02	473.91	51.49
20	Small Baseball Field	75.02	986.74	44.12
21	Small Baseball Field	75.02	986.74	44.12
22	Small Baseball Field	76.02	986.74	45.12
23	Tower 3	79.79	545.18	54.04
23	Tower 4	79.79	698.63	51.89
23	Small Baseball Field	76.02	986.74	45.12
24	Tower 3	81.57	545.18	55.82
24	Tower 4	81.57	698.63	53.66
25	Tower 3	82.04	545.18	56.29
25	Tower 4	82.04	698.63	54.14
26	Tower 3	82.04	545.18	56.29
26	Tower 4	82.04	698.63	54.14
27	Tower 3	82.04	545.18	56.29
27	Tower 4	82.04	698.63	54.14
28	Tower 3	80.79	545.18	55.04
28	Tower 4	80.79	698.63	52.89
37	Garage 5	75.02	987.13	44.11
38	Garage 5	78.56	987.13	47.65
39	Garage 3	75.02	447.28	50.99
39	Garage 5	76.02	987.13	45.11
40	Garage 3	78.56	447.28	54.53
40	Garage 5	76.02	987.13	45.11
41	Garage 3	76.02	447.28	51.99
42	Garage 3	76.02	447.28	51.99
61	Tower 5	79.79	852.06	50.16
62	Tower 5	81.57	852.06	51.94
63	Tower 5	82.04	852.06	52.41
64	Tower 5	82.04	852.06	52.41
65	Tower 5	82.04	852.06	52.41
66	Tower 5	80.79	852.06	51.16
80	Tower 7	79.79	739.84	51.39
81	Tower 6	79.79	1224.63	47.01
81	Tower 7	81.57	739.84	53.17
82	Tower 6	81.57	1224.63	48.79
82	Tower 7	82.04	739.84	53.64
83	Tower 6	82.04	1224.63	49.26
83	Tower 7	82.04	739.84	53.64
84	Tower 6	82.04	1224.63	49.26
84	Tower 7	82.04	739.84	53.64
85	Tower 6	82.04	1224.63	49.26
85	Tower 7	80.79	739.84	52.39
86	Tower 6	80.79	1224.63	48.01
99	Garage 2	75.02	1312.46	41.64
100	Garage 2	78.56	1312.46	45.18
101	Garage 2	76.02	1312.46	42.64
102	Garage 2	76.02	1312.46	42.64

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
1	4	64.3	55.3	64.8
5	5	66.3	56.4	66.7
6	6	69.4	58.9	69.8
7	7	67.8	59.3	68.4
8	8	65.5	58.7	66.3
9	9	62.0	0.0	62.0
10	10	67.5	54.2	67.7
11	11	69.3	56.6	69.6
12	12	68.0	57.1	68.3
13	13	68.2	56.0	68.5
14	14	68.1	57.3	68.5
15	15	63.3	55.2	63.9
16	16	59.8	0.0	59.8
17	19	60.4	0.0	60.4
20	21	61.5	44.2	61.5
22	22	61.0	45.1	61.1
23	23	66.5	56.4	66.9
24	24	65.8	57.9	66.4
25	25	67.3	58.4	67.8
26	26	68.0	58.4	68.4
27	27	68.2	58.4	68.7
28	28	64.8	57.1	65.5
29	32	61.5	0.0	61.5
33	33	57.2	0.0	57.2
34	36	55.9	0.0	55.9
37	37	58.9	44.2	59.0
38	38	58.9	47.7	59.2
39	39	63.9	52.0	64.2
40	40	63.9	55.0	64.5
41	42	63.5	52.0	63.8
43	44	60.1	0.0	60.1
61	61	49.7	50.2	52.9
62	62	49.7	51.9	54.0
63	63	51.3	52.4	54.9
64	64	51.9	52.4	55.2
65	65	52.2	52.4	55.3
66	66	48.7	51.2	53.1
67	70	45.2	0.0	45.2
71	79	40.0	0.0	40.0
80	80	51.2	51.4	54.3
81	81	57.6	54.1	59.2
82	82	58.0	54.9	59.7
83	83	59.4	55.0	60.7
84	84	59.9	55.0	61.1
85	85	59.5	54.1	60.6
86	86	56.0	48.0	56.6
87	89	53.0	0.0	53.0
90	90	52.3	0.0	52.3
91	98	47.8	0.0	47.8
99	99	54.1	41.7	54.4
100	100	54.1	45.2	54.6
101	102	54.1	42.7	54.4
103	104	50.8	0.0	50.8

Construction Noise Analysis - Thompson Building

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence	
Building 1/Thompson Building													
N/A													0
Retail Buildings													0
N/A													0
Building 2/Parker Building													0
N/A													0
Interiors	14	33	Hand Tools	electric	20A	20		0	Parker Building	361.09		0	
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	361.09		55	
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	361.09		54	
Baseball Field													0
Excavation/Foundation	20	23	Komatsu PC 200	diesel	150	1	Excavator	81	Small Baseball Field	544.34		55	
Excavation/Foundation	20	23	Excavator	diesel	150	2	Excavator	84	Small Baseball Field	544.34		58	
Excavation/Foundation	20	23	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Small Baseball Field	544.34		40	
Excavation/Foundation	20	23	Generator	diesel	100	1	Generator	79	Small Baseball Field	544.34		53	
Excavation/Foundation	20	23	Bobcat	diesel	61	2	Excavator	84	Small Baseball Field	544.34		58	
Excavation/Foundation	20	23	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Small Baseball Field	544.34		47	
Excavation/Foundation	20	23	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Small Baseball Field	544.34		47	
Excavation/Foundation	20	23	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Small Baseball Field	544.34		49	
Surface	23	24	Hand Tools	electric	20A	5		0	Small Baseball Field	544.34		0	
Parking Garage #3													0
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	125.75		68	
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	125.75		53	
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	125.75		66	
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	125.75		68	
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	125.75		65	
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	125.75		62	
Precast Erection	43	44	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	125.75		69	
Tower 3													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	399.21		58	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	399.21		61	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	399.21		43	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	399.21		56	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	399.21		61	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	399.21		55	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	399.21		50	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	399.21		50	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	399.21		52	
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	399.21		59	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	399.21		54	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	399.21		56	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 3	399.21		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	399.21		50	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	399.21		50	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 3	399.21		48	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	399.21		52	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 3	399.21		54	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 3	399.21		0	
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	399.21		59	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 3	399.21		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	399.21		54	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	399.21		53	
Tower 4													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	388.18		58	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	388.18		61	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	388.18		43	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	388.18		56	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	388.18		61	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	388.18		55	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	388.18		50	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	388.18		50	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	388.18		52	
Superstructure	25	28	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	388.18		59	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	388.18		54	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	388.18		56	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 4	388.18		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	388.18		50	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	388.18		50	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	388.18		48	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	388.18		52	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	388.18		54	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 4	388.18		0	
Exteriors	26	32	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	388.18		59	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 4	388.18		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	388.18		54	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	388.18		53	
Parking Garage #5													0
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	610.01		54	
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	610.01		39	
Excavation/Foundation	37	40	Generator	diesel	100	1	Excavator	81	Garage 5	610.01		54	
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	610.01		54	
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	610.01		51	

Construction Noise Analysis - Thompson Building

Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	610.01		48
Precast Erection	41	42	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	610.01		55
Tower 5												
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	608.72	10	44
Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	608.72	10	47
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	608.72	10	29
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	608.72	10	42
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	608.72	10	47
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	608.72	10	41
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	608.72	10	36
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	608.72	10	36
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	608.72	10	38
Superstructure	63	66	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	608.72	10	45
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	608.72	10	40
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	608.72	10	42
Superstructure	63	66	Hand Tools	electric	20A	20		0	Tower 5	608.72	10	0
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	608.72	10	36
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	608.72	10	36
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	608.72	10	34
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	608.72	10	38
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	608.72	10	40
Exteriors	64	70	Hand Tools	electric	20A	3		0	Tower 5	608.72	10	0
Exteriors	64	70	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	608.72	10	45
Interiors	65	84	Hand Tools	electric	20A	20		0	Tower 5	608.72	10	0
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	608.72	10	40
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	608.72	10	39
Tower 7												
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	601.49	10	44
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	601.49	10	47
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	601.49	10	29
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	601.49	10	42
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	601.49	10	47
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	601.49	10	41
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	601.49	10	36
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	601.49	10	36
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	601.49	10	38
Superstructure	82	85	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	601.49	10	45
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	601.49	10	40
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	601.49	10	42
Superstructure	82	85	Hand Tools	electric	20A	20		0	Tower 7	601.49	10	0
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	601.49	10	36
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	601.49	10	36
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	601.49	10	34
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	601.49	10	38
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	601.49	10	40
Exteriors	83	89	Hand Tools	electric	20A	3		0	Tower 7	601.49	10	0
Exteriors	83	89	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	601.49	10	45
Interiors	84	103	Hand Tools	electric	20A	20		0	Tower 7	601.49	10	0
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	601.49	10	40
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	601.49	10	39
Tower 6												
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	889.11		51
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	889.11		54
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	889.11		36
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	889.11		49
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	889.11		54
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	889.11		48
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	889.11		43
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	889.11		43
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	889.11		45
Superstructure	83	86	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	889.11		52
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	889.11		47
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	889.11		49
Superstructure	83	86	Hand Tools	electric	20A	20		0	Tower 6	889.11		0
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	889.11		43
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	889.11		43
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	889.11		41
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	889.11		45
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	889.11		47
Exteriors	84	90	Hand Tools	electric	20A	3		0	Tower 6	889.11		0
Exteriors	84	90	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	889.11		52
Interiors	85	104	Hand Tools	electric	20A	20		0	Tower 6	889.11		0
Interiors	85	104	Hoist	electric	400A	1	Hoist	72	Tower 6	889.11		47
Interiors	85	104	Welders	electric	50A	5	Welder / Torch	76	Tower 6	889.11		46
Parking Garage #2												
Excavation/Foundation	99	102	Excavator	diesel	150	1	Excavator	81	Garage 2	969.92		50
Excavation/Foundation	99	102	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 2	969.92		35
Excavation/Foundation	99	102	Generator	diesel	100	1	Generator	79	Garage 2	969.92		48
Excavation/Foundation	99	102	Bobcat	diesel	61	1	Excavator	81	Garage 2	969.92		50
Excavation/Foundation	99	102	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 2	969.92		47
Excavation/Foundation	99	102	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 2	969.92		44
Precast Erection	103	104	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 2	969.92		51

Construction Noise Analysis - Thompson Building

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03		0.00
2	Thompson Building	78.03		0.00
3	Thompson Building	78.03		0.00
4	Thompson Building	78.03		0.00
5	Thompson Building	78.03		0.00
5	Parker Building	78.03	361.09	55.86
6	Thompson Building	81.04		0.00
6	Parker Building	78.03	361.09	55.86
7	Thompson Building	81.57		0.00
7	Parker Building	78.03	361.09	55.86
8	Thompson Building	80.79		0.00
8	Parker Building	78.03	361.09	55.86
10	Parker Building	79.79	361.09	57.62
10	Retail	75.02	630.85	48.00
11	Parker Building	81.57	361.09	59.40
11	Retail	78.03	630.85	51.01
12	Parker Building	82.04	361.09	59.87
12	Retail	78.56	630.85	51.54
13	Parker Building	82.04	361.09	59.87
13	Retail	76.02	630.85	49.00
14	Parker Building	82.04	361.09	59.87
14	Retail	79.03	630.85	52.01
15	Parker Building	80.79	361.09	58.62
15	Retail	76.02	630.85	49.00
20	Small Baseball Field	75.02	544.34	49.28
21	Small Baseball Field	75.02	544.34	49.28
22	Small Baseball Field	76.02	544.34	50.28
23	Tower 3	79.79	399.21	56.75
23	Tower 4	79.79	388.18	56.99
23	Small Baseball Field	76.02	544.34	50.28
24	Tower 3	81.57	399.21	58.53
24	Tower 4	81.57	388.18	58.77
25	Tower 3	82.04	399.21	59.00
25	Tower 4	82.04	388.18	59.24
26	Tower 3	82.04	399.21	59.00
26	Tower 4	82.04	388.18	59.24
27	Tower 3	82.04	399.21	59.00
27	Tower 4	82.04	388.18	59.24
28	Tower 3	80.79	399.21	57.75
28	Tower 4	80.79	388.18	57.99
37	Garage 5	75.02	610.01	48.29
38	Garage 5	78.56	610.01	51.83
39	Garage 3	75.02	125.75	62.01
39	Garage 5	76.02	610.01	49.29
40	Garage 3	78.56	125.75	65.55
40	Garage 5	76.02	610.01	49.29
41	Garage 3	76.02	125.75	63.01
42	Garage 3	76.02	125.75	63.01
61	Tower 5	79.79	608.72	53.08
62	Tower 5	81.57	608.72	54.86
63	Tower 5	82.04	608.72	55.33
64	Tower 5	82.04	608.72	55.33
65	Tower 5	82.04	608.72	55.33
66	Tower 5	80.79	608.72	54.08
80	Tower 7	79.79	601.49	53.19
81	Tower 6	79.79	889.11	49.79
81	Tower 7	81.57	601.49	54.96
82	Tower 6	81.57	889.11	51.57
82	Tower 7	82.04	601.49	55.44
83	Tower 6	82.04	889.11	52.04
83	Tower 7	82.04	601.49	55.44
84	Tower 6	82.04	889.11	52.04
84	Tower 7	82.04	601.49	55.44
85	Tower 6	82.04	889.11	52.04
85	Tower 7	80.79	601.49	54.19
86	Tower 6	80.79	889.11	50.79
99	Garage 2	75.02	969.92	44.27
100	Garage 2	78.56	969.92	47.80
101	Garage 2	76.02	969.92	45.27
102	Garage 2	76.02	969.92	45.27

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
*Thompson Building Construction through Month 22.				
23	23	70.5	60.3	70.9
24	24	69.7	61.7	70.3
25	25	71.2	62.1	71.7
26	26	71.8	62.1	72.3
27	27	72.1	62.1	72.5
28	28	68.7	60.9	69.4
29	32	65.6	0.0	65.6
33	33	61.7	0.0	61.7
34	36	59.6	0.0	59.6
37	37	62.9	48.3	63.0
38	38	62.9	51.8	63.2
39	39	73.7	62.2	74.0
40	40	73.7	65.7	74.3
41	42	73.6	63.0	73.9
43	44	69.5	0.0	69.5
61	61	52.6	53.1	55.9
62	62	52.6	54.9	56.9
63	63	54.2	55.3	57.8
64	64	54.9	55.3	58.1
65	65	55.1	55.3	58.2
66	66	51.6	54.1	56.0
67	70	48.1	0.0	48.1
71	79	42.9	0.0	42.9
80	80	53.1	53.2	56.2
81	81	60.2	56.1	61.7
82	82	60.6	56.9	62.1
83	83	61.9	57.1	63.2
84	84	62.5	57.1	63.6
85	85	62.2	56.3	63.2
86	86	58.7	50.8	59.3
87	89	55.6	0.0	55.6
90	90	55.0	0.0	55.0
91	98	50.4	0.0	50.4
99	99	56.7	44.3	57.0
100	100	56.7	47.8	57.3
101	102	56.7	45.3	57.0
103	104	53.5	0.0	53.5

Construction Noise Analysis - Parker Building

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence
Building 1/Thompson Building												
N/A												
Retail Buildings												
N/A												
Building 2/Parker Building												
N/A												
Baseball Field												
N/A												
Parking Garage #3												
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	583.67		55
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	583.67		40
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	583.67		53
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	583.67		55
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	583.67		52
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	583.67		49
Precast Erection	43	44	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	583.67		56
Tower 3												
N/A												
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 3	887.2		0
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	887.2		47
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	887.2		46
Tower 4												
N/A												
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 4	801.47		0
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	801.47		48
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	801.47		47
Parking Garage #5												
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	208.65		64
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	208.65		49
Excavation/Foundation	37	40	Generator	diesel	100	1	Excavator	81	Garage 5	208.65		64
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	208.65		64
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	208.65		61
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	208.65		58
Precast Erection	41	42	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	208.65		65
Tower 5												
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	1025.49	10	40
Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	1025.49	10	43
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	1025.49	10	25
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	1025.49	10	38
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	1025.49	10	43
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	1025.49	10	37
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1025.49	10	32
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1025.49	10	32
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1025.49	10	34
Superstructure	63	66	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1025.49	10	41
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	1025.49	10	36
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	1025.49	10	38
Superstructure	63	66	Hand Tools	electric	20A	20		0	Tower 5	1025.49	10	0
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	1025.49	10	32
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	1025.49	10	32
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	1025.49	10	30
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	1025.49	10	34
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	1025.49	10	36
Exteriors	64	70	Hand Tools	electric	20A	3		0	Tower 5	1025.49	10	0
Exteriors	64	70	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	1025.49	10	41
Interiors	65	84	Hand Tools	electric	20A	20		0	Tower 5	1025.49	10	0
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	1025.49	10	36
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	1025.49	10	35
Tower 7												
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	1086.09	10	39
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	1086.09	10	42
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	1086.09	10	24
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	1086.09	10	37
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	1086.09	10	42
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	1086.09	10	36
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1086.09	10	31
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1086.09	10	31
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1086.09	10	33
Superstructure	82	85	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1086.09	10	40
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	1086.09	10	35
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	1086.09	10	37
Superstructure	82	85	Hand Tools	electric	20A	20		0	Tower 7	1086.09	10	0
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	1086.09	10	31
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	1086.09	10	31
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	1086.09	10	29
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	1086.09	10	33
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	1086.09	10	35
Exteriors	83	89	Hand Tools	electric	20A	3		0	Tower 7	1086.09	10	0
Exteriors	83	89	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	1086.09	10	40
Interiors	84	103	Hand Tools	electric	20A	20		0	Tower 7	1086.09	10	0
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	1086.09	10	35
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	1086.09	10	34
Tower 6												
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	1219.92		48
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	1219.92		51
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	1219.92		33
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	1219.92		46
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	1219.92		51
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	1219.92		45
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1219.92		40
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1219.92		40
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1219.92		42
Superstructure	83	86	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1219.92		49
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	1219.92		44
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	1219.92		46
Superstructure	83	86	Hand Tools	electric	20A	20		0	Tower 6	1219.92		0
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	1219.92		40
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	1219.92		40
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	1219.92		38
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	1219.92		42
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	1219.92		44
Exteriors	84	90	Hand Tools	electric	20A	3		0	Tower 6	1219.92		0
Exteriors	84	90	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	1219.92		49
Interiors	85	104	Hand Tools	electric	20A	20		0	Tower 6	1219.92		0
Interiors	85	104	Hoist	electric	400A	1	Hoist	72	Tower 6	1219.92		44
Interiors	85	104	Welders	electric	50A	5	Welder / Torch	76	Tower 6	1219.92		43
Parking Garage #2												
Excavation/Foundation	99	102	Excavator	diesel	150	1	Excavator	81	Garage 2	1222.48		48
Excavation/Foundation	99	102	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 2	1222.48		33
Excavation/Foundation	99	102	Generator	diesel	100	1	Generator	79	Garage 2	1222.48		46
Excavation/Foundation	99	102	Bobcat	diesel	61	1	Excavator	81	Garage 2	1222.48		48
Excavation/Foundation	99	102	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 2	1222.48		45
Excavation/Foundation	99	102	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 2	1222.48		42
Precast Erection	103	104	Liebherr 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 2	1222.48		49

Construction Noise Analysis - Parker Building

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	337.26	56.45
2	Thompson Building	78.03	337.26	56.45
3	Thompson Building	78.03	337.26	56.45
4	Thompson Building	78.03	337.26	56.45
5	Thompson Building	78.03	337.26	56.45
5	Parker Building	78.03		0.00
6	Thompson Building	81.04	337.26	59.46
6	Parker Building	78.03		0.00
7	Thompson Building	81.57	337.26	59.99
7	Parker Building	78.03		0.00
8	Thompson Building	80.79	337.26	59.21
8	Parker Building	78.03		0.00
10	Parker Building	79.79		0.00
10	Retail	75.02	998.36	44.01
11	Parker Building	81.57		0.00
11	Retail	78.03	998.36	47.02
12	Parker Building	82.04		0.00
12	Retail	78.56	998.36	47.55
13	Parker Building	82.04		0.00
13	Retail	76.02	998.36	45.01
14	Parker Building	82.04		0.00
14	Retail	79.03	998.36	48.02
15	Parker Building	80.79		0.00
15	Retail	76.02	998.36	45.01
20	Small Baseball Field	75.02	542.55	49.31
21	Small Baseball Field	75.02	542.55	49.31
22	Small Baseball Field	76.02	542.55	50.31
23	Tower 3	79.79	887.20	49.81
23	Tower 4	79.79	801.47	50.69
23	Small Baseball Field	76.02	542.55	50.31
24	Tower 3	81.57	887.20	51.59
24	Tower 4	81.57	801.47	52.47
25	Tower 3	82.04	887.20	52.06
25	Tower 4	82.04	801.47	52.94
26	Tower 3	82.04	887.20	52.06
26	Tower 4	82.04	801.47	52.94
27	Tower 3	82.04	887.20	52.06
27	Tower 4	82.04	801.47	52.94
28	Tower 3	80.79	887.20	50.81
28	Tower 4	80.79	801.47	51.69
37	Garage 5	75.02	208.65	57.61
38	Garage 5	78.56	208.65	61.15
39	Garage 3	75.02	583.67	48.68
39	Garage 5	76.02	208.65	58.61
40	Garage 3	78.56	583.67	52.22
40	Garage 5	76.02	208.65	58.61
41	Garage 3	76.02	583.67	49.68
42	Garage 3	76.02	583.67	49.68
61	Tower 5	79.79	1025.49	48.55
62	Tower 5	81.57	1025.49	50.33
63	Tower 5	82.04	1025.49	50.80
64	Tower 5	82.04	1025.49	50.80
65	Tower 5	82.04	1025.49	50.80
66	Tower 5	80.79	1025.49	49.55
80	Tower 7	79.79	1086.09	48.05
81	Tower 6	79.79	1219.92	47.04
81	Tower 7	81.57	1086.09	49.83
82	Tower 6	81.57	1219.92	48.82
82	Tower 7	82.04	1086.09	50.30
83	Tower 6	82.04	1219.92	49.29
83	Tower 7	82.04	1086.09	50.30
84	Tower 6	82.04	1219.92	49.29
84	Tower 7	82.04	1086.09	50.30
85	Tower 6	82.04	1219.92	49.29
85	Tower 7	80.79	1086.09	49.05
86	Tower 6	80.79	1219.92	48.04
99	Garage 2	75.02	1222.48	42.26
100	Garage 2	78.56	1222.48	45.79
101	Garage 2	76.02	1222.48	43.26
102	Garage 2	76.02	1222.48	43.26

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
*Parker Building Construction through Month 33.				
34	36	53.0	0.0	53.0
37	37	69.5	57.6	69.8
38	38	69.5	61.2	70.1
39	39	70.0	59.0	70.3
40	40	70.0	59.5	70.3
41	42	66.1	49.7	66.2
43	44	57.6	0.0	57.6
61	61	48.1	48.6	51.3
62	62	48.1	50.3	52.4
63	63	49.6	50.8	53.3
64	64	50.3	50.8	53.6
65	65	50.6	50.8	53.7
66	66	47.1	49.6	51.5
67	70	43.6	0.0	43.6
71	79	38.4	0.0	38.4
80	80	48.1	48.1	51.1
81	81	57.1	51.7	58.2
82	82	57.3	52.6	58.6
83	83	58.8	52.8	59.8
84	84	59.4	52.8	60.3
85	85	59.3	52.2	60.1
86	86	55.8	48.1	56.5
87	89	52.5	0.0	52.5
90	90	52.2	0.0	52.2
91	98	47.3	0.0	47.3
99	99	54.5	42.3	54.8
100	100	54.5	45.8	55.1
101	102	54.5	43.3	54.8
103	104	51.2	0.0	51.2

Construction Noise Analysis - New Construction Large Baseball Field

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence	
Building 1/Thompson Building													
N/A													0
Retail Buildings													0
N/A													0
Building 2/Parker Building													0
N/A													0
Interiors	14	33	Hand Tools	electric	20A	20		0	Parker Building	839.42		0	
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	839.42		47	
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	839.42		47	
Baseball Field													0
N/A													0
Parking Garage #3													0
N/A													0
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	446.18		57	
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	446.18		42	
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	446.18		55	
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	446.18		57	
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	446.18		54	
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	446.18		51	
Precast Erection	43	44	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	446.18		58	
Tower 3													0
N/A													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	530.7		56	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	530.7		59	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	530.7		40	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	530.7		53	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	530.7		59	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	530.7		52	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	530.7		47	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	530.7		47	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	530.7		49	
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	530.7		57	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	530.7		51	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	530.7		53	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 3	530.7		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	530.7		47	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	530.7		47	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 3	530.7		46	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	530.7		49	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 3	530.7		51	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 3	530.7		0	
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	530.7		57	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 3	530.7		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	530.7		51	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	530.7		50	
Tower 4													0
N/A													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	268.44		61	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	268.44		64	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	268.44		46	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	268.44		59	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	268.44		64	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	268.44		58	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	268.44		53	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	268.44		53	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	268.44		55	
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	268.44		62	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	268.44		57	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	268.44		59	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 4	268.44		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	268.44		53	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	268.44		53	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	268.44		51	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	268.44		55	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	268.44		57	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 4	268.44		0	
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	268.44		62	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 4	268.44		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	268.44		57	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	268.44		56	
Parking Garage #5													0
N/A													0
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	777.54		52	
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	777.54		37	
Excavation/Foundation	37	40	Generator	diesel	100	1	Generator	81	Garage 5	777.54		52	
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	777.54		52	
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	777.54		49	
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	777.54		46	
Precast Erection	41	42	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	777.54		53	
Tower 5													0
N/A													0
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	263.14		62	

Construction Noise Analysis - New Construction Large Baseball Field

Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	263.14	65	
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	263.14	47	
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	263.14	60	
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	263.14	65	
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	263.14	59	
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	263.14	54	
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	263.14	54	
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	263.14	56	
Superstructure	63	66	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	263.14	63	
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	263.14	58	
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	263.14	60	
Superstructure	63	66	Hand Tools	electric	20A	20		0	Tower 5	263.14	0	
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	263.14	54	
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	263.14	54	
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	263.14	52	
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	263.14	56	
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	263.14	58	
Exteriors	64	70	Hand Tools	electric	20A	3		0	Tower 5	263.14	0	
Exteriors	64	70	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	263.14	63	
Interiors	65	84	Hand Tools	electric	20A	20		0	Tower 5	263.14	0	
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	263.14	58	
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	263.14	57	
Tower 7												
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	511.2	10	46
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	511.2	10	49
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	511.2	10	31
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	511.2	10	44
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	511.2	10	49
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	511.2	10	43
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	511.2	10	38
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	511.2	10	38
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	511.2	10	40
Superstructure	82	85	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	511.2	10	47
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	511.2	10	42
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	511.2	10	44
Superstructure	82	85	Hand Tools	electric	20A	20		0	Tower 7	511.2	10	0
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	511.2	10	38
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	511.2	10	38
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	511.2	10	36
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	511.2	10	40
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	511.2	10	42
Exteriors	83	89	Hand Tools	electric	20A	3		0	Tower 7	511.2	10	0
Exteriors	83	89	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	511.2	10	47
Interiors	84	103	Hand Tools	electric	20A	20		0	Tower 7	511.2	10	0
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	511.2	10	42
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	511.2	10	41
Tower 6												
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	158.94	66	
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	158.94	69	
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	158.94	51	
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	158.94	64	
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	158.94	69	
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	158.94	63	
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	158.94	58	
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	158.94	58	
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	158.94	60	
Superstructure	83	86	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	158.94	67	
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	158.94	62	
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	158.94	64	
Superstructure	83	86	Hand Tools	electric	20A	20		0	Tower 6	158.94	0	
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	158.94	58	
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	158.94	58	
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	158.94	56	
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	158.94	60	
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	158.94	62	
Exteriors	84	90	Hand Tools	electric	20A	3		0	Tower 6	158.94	0	
Exteriors	84	90	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	158.94	67	
Interiors	85	104	Hand Tools	electric	20A	20		0	Tower 6	158.94	0	
Interiors	85	104	Hoist	electric	400A	1	Hoist	72	Tower 6	158.94	62	
Interiors	85	104	Welders	electric	50A	5	Welder / Torch	76	Tower 6	158.94	61	
Parking Garage #2												
Excavation/Foundation	99	102	Excavator	diesel	150	1	Excavator	81	Garage 2	153.9	66	
Excavation/Foundation	99	102	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 2	153.9	51	
Excavation/Foundation	99	102	Generator	diesel	100	1	Generator	79	Garage 2	153.9	64	
Excavation/Foundation	99	102	Bobcat	diesel	61	1	Excavator	81	Garage 2	153.9	66	
Excavation/Foundation	99	102	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 2	153.9	63	
Excavation/Foundation	99	102	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 2	153.9	60	
Precast Erection	103	104	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 2	153.9	67	

Construction Noise Analysis - New Construction Large Baseball Field

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	622.71	51.12
2	Thompson Building	78.03	622.71	51.12
3	Thompson Building	78.03	622.71	51.12
4	Thompson Building	78.03	622.71	51.12
5	Thompson Building	78.03	622.71	51.12
5	Parker Building	78.03	839.42	48.53
6	Thompson Building	81.04	622.71	54.13
6	Parker Building	78.03	839.42	48.53
7	Thompson Building	81.57	622.71	54.66
7	Parker Building	78.03	839.42	48.53
8	Thompson Building	80.79	622.71	53.89
8	Parker Building	78.03	839.42	48.53
10	Parker Building	79.79	839.42	50.29
10	Retail	75.02	808.59	45.85
11	Parker Building	81.57	839.42	52.07
11	Retail	78.03	808.59	48.86
12	Parker Building	82.04	839.42	52.54
12	Retail	78.56	808.59	49.38
13	Parker Building	82.04	839.42	52.54
13	Retail	76.02	808.59	46.85
14	Parker Building	82.04	839.42	52.54
14	Retail	79.03	808.59	49.86
15	Parker Building	80.79	839.42	51.29
15	Retail	76.02	808.59	46.85
20	Small Baseball Field	75.02	262.31	55.62
21	Small Baseball Field	75.02	262.31	55.62
22	Small Baseball Field	76.02	262.31	56.62
23	Tower 3	79.79	530.70	54.27
23	Tower 4	79.79	268.44	60.19
23	Small Baseball Field	76.02	262.31	56.62
24	Tower 3	81.57	530.70	56.05
24	Tower 4	81.57	268.44	61.97
25	Tower 3	82.04	530.70	56.52
25	Tower 4	82.04	268.44	62.44
26	Tower 3	82.04	530.70	56.52
26	Tower 4	82.04	268.44	62.44
27	Tower 3	82.04	530.70	56.52
27	Tower 4	82.04	268.44	62.44
28	Tower 3	80.79	530.70	55.27
28	Tower 4	80.79	268.44	61.19
37	Garage 5	75.02	777.54	46.19
38	Garage 5	78.56	777.54	49.72
39	Garage 3	75.02	446.18	51.01
39	Garage 5	76.02	777.54	47.19
40	Garage 3	78.56	446.18	54.55
40	Garage 5	76.02	777.54	47.19
41	Garage 3	76.02	446.18	52.01
42	Garage 3	76.02	446.18	52.01
61	Tower 5	79.79	263.14	60.37
62	Tower 5	81.57	263.14	62.15
63	Tower 5	82.04	263.14	62.62
64	Tower 5	82.04	263.14	62.62
65	Tower 5	82.04	263.14	62.62
66	Tower 5	80.79	263.14	61.37
80	Tower 7	79.79	511.20	54.60
81	Tower 6	79.79	158.94	64.75
81	Tower 7	81.57	511.20	56.38
82	Tower 6	81.57	158.94	66.52
82	Tower 7	82.04	511.20	56.85
83	Tower 6	82.04	158.94	67.00
83	Tower 7	82.04	511.20	56.85
84	Tower 6	82.04	158.94	67.00
84	Tower 7	82.04	511.20	56.85
85	Tower 6	82.04	158.94	67.00
85	Tower 7	80.79	511.20	55.60
86	Tower 6	80.79	158.94	65.75
99	Garage 2	75.02	153.90	60.26
100	Garage 2	78.56	153.90	63.79
101	Garage 2	76.02	153.90	61.26
102	Garage 2	76.02	153.90	61.26

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
*Baseball Field Construction Through Month 24.				
25	25	72.3	63.4	72.8
26	26	73.0	63.4	73.4
27	27	73.2	63.4	73.7
28	28	69.7	62.2	70.4
29	32	66.3	0.0	66.3
33	33	61.3	0.0	61.3
34	36	60.9	0.0	60.9
37	37	62.7	46.2	62.8
38	38	62.7	49.7	62.9
39	39	65.5	52.5	65.7
40	40	65.5	55.3	65.9
41	42	65.0	52.0	65.2
43	44	62.7	0.0	62.7
61	61	69.9	60.4	70.3
62	62	69.9	62.1	70.6
63	63	71.5	62.6	72.0
64	64	72.1	62.6	72.6
65	65	72.4	62.6	72.8
66	66	68.9	61.4	69.6
67	70	65.3	0.0	65.3
71	79	60.1	0.0	60.1
80	80	61.1	54.6	62.0
81	81	74.5	65.3	75.0
82	82	74.5	67.0	75.2
83	83	76.0	67.4	76.6
84	84	76.7	67.4	77.1
85	85	76.8	67.3	77.3
86	86	73.3	65.7	74.0
87	89	69.8	0.0	69.8
90	90	69.7	0.0	69.7
91	98	64.5	0.0	64.5
99	99	72.4	60.3	72.6
100	100	72.4	63.8	72.9
101	102	72.4	61.3	72.7
103	104	69.1	0.0	69.1

Construction Noise Analysis - New Construction Small Baseball Field

South Campus Projected Equipment List

Work task	Start Date	End Date	Equipment Type	Engine type	Size (hp)	Qty	CEQR Equipment (50 ft)	Level @ 50 ft	Building	New Distance	Shielding	Leq @ Residence	
Building 1/Thompson Building													
N/A													0
Retail Buildings													0
N/A													0
Building 2/Parker Building													0
N/A													0
Interiors	14	33	Hand Tools	electric	20A	20						0	
Interiors	14	33	Hoist	electric	400A	1	Hoist	72	Parker Building	535.45		51	
Interiors	14	33	Welders	electric	50A	5	Welder / Torch	76	Parker Building	535.45		50	
Baseball Field													0
N/A													0
Parking Garage #3													0
Excavation/Foundation	39	42	Excavator	diesel	150	1	Excavator	81	Garage 3	457.58		57	
Excavation/Foundation	39	42	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 3	457.58		42	
Excavation/Foundation	39	42	Generator	diesel	100	1	Generator	79	Garage 3	457.58		55	
Excavation/Foundation	39	42	Bobcat	diesel	61	1	Excavator	81	Garage 3	457.58		57	
Excavation/Foundation	39	42	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 3	457.58		54	
Excavation/Foundation	39	42	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 3	457.58		51	
Precast Erection	43	44	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 3	457.58		58	
Tower 3													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 3	647.43		54	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 3	647.43		57	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 3	647.43		39	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 3	647.43		52	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 3	647.43		57	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 3	647.43		51	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	647.43		46	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	647.43		46	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	647.43		48	
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	647.43		55	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 3	647.43		50	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 3	647.43		52	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 3	647.43		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 3	647.43		46	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 3	647.43		46	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 3	647.43		44	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 3	647.43		48	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 3	647.43		50	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 3	647.43		0	
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 3	647.43		55	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 3	647.43		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 3	647.43		50	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 3	647.43		49	
Tower 4													0
Excavation/Foundation	23	27	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 4	388.91		58	
Excavation/Foundation	23	27	Excavator	diesel	150	2	Excavator	84	Tower 4	388.91		61	
Excavation/Foundation	23	27	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 4	388.91		43	
Excavation/Foundation	23	27	Generator	diesel	100	1	Generator	79	Tower 4	388.91		56	
Excavation/Foundation	23	27	Bobcat	diesel	61	2	Excavator	84	Tower 4	388.91		61	
Excavation/Foundation	23	27	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 4	388.91		55	
Excavation/Foundation	23	27	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	388.91		50	
Excavation/Foundation	23	27	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	388.91		50	
Excavation/Foundation	23	27	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	388.91		52	
Superstructure	25	28	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	388.91		59	
Superstructure	25	28	Hoist	electric	400A	1	Hoist	72	Tower 4	388.91		54	
Superstructure	25	28	Compressor-Generator	diesel	150	1	Generator	79	Tower 4	388.91		56	
Superstructure	25	28	Hand Tools	electric	20A	20		0	Tower 4	388.91		0	
Superstructure	25	28	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 4	388.91		50	
Superstructure	25	28	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 4	388.91		50	
Superstructure	25	28	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 4	388.91		48	
Superstructure	25	28	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 4	388.91		52	
Exteriors	26	32	Hoist	electric	400A	1	Hoist	72	Tower 4	388.91		54	
Exteriors	26	32	Hand Tools	electric	20A	3		0	Tower 4	388.91		0	
Exteriors	26	32	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 4	388.91		59	
Interiors	27	44	Hand Tools	electric	20A	20		0	Tower 4	388.91		0	
Interiors	27	44	Hoist	electric	400A	1	Hoist	72	Tower 4	388.91		54	
Interiors	27	44	Welders	electric	50A	5	Welder / Torch	76	Tower 4	388.91		53	
Parking Garage #5													0
Excavation/Foundation	37	40	Excavator	diesel	150	1	Excavator	81	Garage 5	389.96		58	
Excavation/Foundation	37	40	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 5	389.96		43	
Excavation/Foundation	37	40	Generator	diesel	100	1	Excavator	81	Garage 5	389.96		58	
Excavation/Foundation	37	40	Bobcat	diesel	61	1	Excavator	81	Garage 5	389.96		58	
Excavation/Foundation	37	40	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 5	389.96		55	
Excavation/Foundation	37	40	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 5	389.96		52	
Precast Erection	41	42	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 5	389.96		59	
Tower 5													0
Excavation/Foundation	61	65	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 5	561.94		55	

Construction Noise Analysis - New Construction Small Baseball Field

Excavation/Foundation	61	65	Excavator	diesel	150	2	Excavator	84	Tower 5	561.94		58
Excavation/Foundation	61	65	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 5	561.94		40
Excavation/Foundation	61	65	Generator	diesel	100	1	Generator	79	Tower 5	561.94		53
Excavation/Foundation	61	65	Bobcat	diesel	61	2	Excavator	84	Tower 5	561.94		58
Excavation/Foundation	61	65	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 5	561.94		52
Excavation/Foundation	61	65	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	561.94		47
Excavation/Foundation	61	65	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	561.94		47
Excavation/Foundation	61	65	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	561.94		49
Superstructure	63	66	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	561.94		56
Superstructure	63	66	Hoist	electric	400A	1	Hoist	72	Tower 5	561.94		51
Superstructure	63	66	Compressor-Generator	diesel	150	1	Generator	79	Tower 5	561.94		53
Superstructure	63	66	Hand Tools	electric	20A	20		0	Tower 5	561.94		0
Superstructure	63	66	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 5	561.94		47
Superstructure	63	66	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 5	561.94		47
Superstructure	63	66	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 5	561.94		45
Superstructure	63	66	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 5	561.94		49
Exteriors	64	70	Hoist	electric	400A	1	Hoist	72	Tower 5	561.94		51
Exteriors	64	70	Hand Tools	electric	20A	3		0	Tower 5	561.94		0
Exteriors	64	70	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 5	561.94		56
Interiors	65	84	Hand Tools	electric	20A	20		0	Tower 5	561.94		0
Interiors	65	84	Hoist	electric	400A	1	Hoist	72	Tower 5	561.94		51
Interiors	65	84	Welders	electric	50A	5	Welder / Torch	76	Tower 5	561.94		50
Tower 7												
Excavation/Foundation	80	84	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 7	751.06	10	42
Excavation/Foundation	80	84	Excavator	diesel	150	2	Excavator	84	Tower 7	751.06	10	45
Excavation/Foundation	80	84	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 7	751.06	10	27
Excavation/Foundation	80	84	Generator	diesel	100	1	Generator	79	Tower 7	751.06	10	40
Excavation/Foundation	80	84	Bobcat	diesel	61	2	Excavator	84	Tower 7	751.06	10	45
Excavation/Foundation	80	84	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 7	751.06	10	39
Excavation/Foundation	80	84	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	751.06	10	34
Excavation/Foundation	80	84	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	751.06	10	34
Excavation/Foundation	80	84	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	751.06	10	36
Superstructure	82	85	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	751.06	10	44
Superstructure	82	85	Hoist	electric	400A	1	Hoist	72	Tower 7	751.06	10	38
Superstructure	82	85	Compressor-Generator	diesel	150	1	Generator	79	Tower 7	751.06	10	40
Superstructure	82	85	Hand Tools	electric	20A	20		0	Tower 7	751.06	10	0
Superstructure	82	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 7	751.06	10	34
Superstructure	82	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 7	751.06	10	34
Superstructure	82	85	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 7	751.06	10	32
Superstructure	82	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 7	751.06	10	36
Exteriors	83	89	Hoist	electric	400A	1	Hoist	72	Tower 7	751.06	10	38
Exteriors	83	89	Hand Tools	electric	20A	3		0	Tower 7	751.06	10	0
Exteriors	83	89	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 7	751.06	10	44
Interiors	84	103	Hand Tools	electric	20A	20		0	Tower 7	751.06	10	0
Interiors	84	103	Hoist	electric	400A	1	Hoist	72	Tower 7	751.06	10	38
Interiors	84	103	Welders	electric	50A	5	Welder / Torch	76	Tower 7	751.06	10	37
Tower 6												
Excavation/Foundation	81	85	Komatsu PC 200	diesel	150	1	Excavator	81	Tower 6	647.13		54
Excavation/Foundation	81	85	Excavator	diesel	150	2	Excavator	84	Tower 6	647.13		57
Excavation/Foundation	81	85	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Tower 6	647.13		39
Excavation/Foundation	81	85	Generator	diesel	100	1	Generator	79	Tower 6	647.13		52
Excavation/Foundation	81	85	Bobcat	diesel	61	2	Excavator	84	Tower 6	647.13		57
Excavation/Foundation	81	85	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Tower 6	647.13		51
Excavation/Foundation	81	85	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	647.13		46
Excavation/Foundation	81	85	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	647.13		46
Excavation/Foundation	81	85	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	647.13		48
Superstructure	83	86	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	647.13		55
Superstructure	83	86	Hoist	electric	400A	1	Hoist	72	Tower 6	647.13		50
Superstructure	83	86	Compressor-Generator	diesel	150	1	Generator	79	Tower 6	647.13		52
Superstructure	83	86	Hand Tools	electric	20A	20		0	Tower 6	647.13		0
Superstructure	83	86	Bar Bending Machine	gasoline	50	1	Bar Bender	73	Tower 6	647.13		46
Superstructure	83	86	Concrete Vibrators	electric	20A	1	Vibratory Hopper	73	Tower 6	647.13		46
Superstructure	83	86	Concrete Finishers	gasoline	5	2	Concrete Trowel	66	Tower 6	647.13		44
Superstructure	83	86	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Tower 6	647.13		48
Exteriors	84	90	Hoist	electric	400A	1	Hoist	72	Tower 6	647.13		50
Exteriors	84	90	Hand Tools	electric	20A	3		0	Tower 6	647.13		0
Exteriors	84	90	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Tower 6	647.13		55
Interiors	85	104	Hand Tools	electric	20A	20		0	Tower 6	647.13		0
Interiors	85	104	Hoist	electric	400A	1	Hoist	72	Tower 6	647.13		50
Interiors	85	104	Welders	electric	50A	5	Welder / Torch	76	Tower 6	647.13		49
Parking Garage #2												
Excavation/Foundation	99	102	Excavator	diesel	150	1	Excavator	81	Garage 2	644.85		54
Excavation/Foundation	99	102	Compressor-Jackhammer	diesel	100	1	Jackhammer	66	Garage 2	644.85		39
Excavation/Foundation	99	102	Generator	diesel	100	1	Generator	79	Garage 2	644.85		52
Excavation/Foundation	99	102	Bobcat	diesel	61	1	Excavator	81	Garage 2	644.85		54
Excavation/Foundation	99	102	Secant Drill Rig	diesel	400	1	Auger Drill Rig	78	Garage 2	644.85		51
Excavation/Foundation	99	102	Concrete Pump	diesel	400	1	Concrete Pump Truck	75	Garage 2	644.85		48
Precast Erection	103	104	Liebher 1200 Crawler Crane	diesel	320	1	Crane	77	Garage 2	644.85		55

Construction Noise Analysis - New Construction Small Baseball Field

Month	Building	Truck Levels (50 ft)	New Distance	Trucks @ New distance
1	Thompson Building	78.03	507.96	52.89
2	Thompson Building	78.03	507.96	52.89
3	Thompson Building	78.03	507.96	52.89
4	Thompson Building	78.03	507.96	52.89
5	Thompson Building	78.03	507.96	52.89
5	Parker Building	78.03	535.45	52.44
6	Thompson Building	81.04	507.96	55.90
6	Parker Building	78.03	535.45	52.44
7	Thompson Building	81.57	507.96	56.43
7	Parker Building	78.03	535.45	52.44
8	Thompson Building	80.79	507.96	55.65
8	Parker Building	78.03	535.45	52.44
10	Parker Building	79.79	535.45	54.20
10	Retail	75.02	917.24	44.75
11	Parker Building	81.57	535.45	55.97
11	Retail	78.03	917.24	47.76
12	Parker Building	82.04	535.45	56.45
12	Retail	78.56	917.24	48.29
13	Parker Building	82.04	535.45	56.45
13	Retail	76.02	917.24	45.75
14	Parker Building	82.04	535.45	56.45
14	Retail	79.03	917.24	48.76
15	Parker Building	80.79	535.45	55.20
15	Retail	76.02	917.24	45.75
20	Small Baseball Field	75.02		0.00
21	Small Baseball Field	75.02		0.00
22	Small Baseball Field	76.02		0.00
23	Tower 3	79.79	647.43	52.55
23	Tower 4	79.79	388.91	56.97
23	Small Baseball Field	76.02		0.00
24	Tower 3	81.57	647.43	54.33
24	Tower 4	81.57	388.91	58.75
25	Tower 3	82.04	647.43	54.80
25	Tower 4	82.04	388.91	59.22
26	Tower 3	82.04	647.43	54.80
26	Tower 4	82.04	388.91	59.22
27	Tower 3	82.04	647.43	54.80
27	Tower 4	82.04	388.91	59.22
28	Tower 3	80.79	647.43	53.55
28	Tower 4	80.79	388.91	57.97
37	Garage 5	75.02	389.96	52.18
38	Garage 5	78.56	389.96	55.72
39	Garage 3	75.02	457.58	50.79
39	Garage 5	76.02	389.96	53.18
40	Garage 3	78.56	457.58	54.33
40	Garage 5	76.02	389.96	53.18
41	Garage 3	76.02	457.58	51.79
42	Garage 3	76.02	457.58	51.79
61	Tower 5	79.79	561.94	53.78
62	Tower 5	81.57	561.94	55.56
63	Tower 5	82.04	561.94	56.03
64	Tower 5	82.04	561.94	56.03
65	Tower 5	82.04	561.94	56.03
66	Tower 5	80.79	561.94	54.78
80	Tower 7	79.79	751.06	51.26
81	Tower 6	79.79	647.13	52.55
81	Tower 7	81.57	751.06	53.04
82	Tower 6	81.57	647.13	54.33
82	Tower 7	82.04	751.06	53.51
83	Tower 6	82.04	647.13	54.80
83	Tower 7	82.04	751.06	53.51
84	Tower 6	82.04	647.13	54.80
84	Tower 7	82.04	751.06	53.51
85	Tower 6	82.04	647.13	54.80
85	Tower 7	80.79	751.06	52.26
86	Tower 6	80.79	647.13	53.55
99	Garage 2	75.02	644.85	47.81
100	Garage 2	78.56	644.85	51.35
101	Garage 2	76.02	644.85	48.81
102	Garage 2	76.02	644.85	48.81

*Cells that are green prior to the table are under 50 dB

Month Start	Month End	Construction Leq	Truck Leq	Total Leq @ Res
*Baseball Field Construction Through Month 24.				
25	25	69.5	60.6	70.0
26	26	70.2	60.6	70.6
27	27	70.4	60.6	70.9
28	28	67.0	59.3	67.7
29	32	63.8	0.0	63.8
33	33	59.5	0.0	59.5
34	36	58.1	0.0	58.1
37	37	65.0	52.2	65.2
38	38	65.0	55.7	65.4
39	39	66.8	55.2	67.1
40	40	66.8	56.8	67.2
41	42	64.9	51.8	65.1
43	44	60.9	0.0	60.9
61	61	63.3	53.8	63.7
62	62	63.3	55.6	64.0
63	63	64.9	56.0	65.4
64	64	65.6	56.0	66.0
65	65	65.8	56.0	66.2
66	66	62.3	54.8	63.0
67	70	58.8	0.0	58.8
71	79	53.5	0.0	53.5
80	80	55.4	51.3	56.8
81	81	62.9	55.8	63.7
82	82	63.0	57.0	64.0
83	83	64.4	57.2	65.1
84	84	65.0	57.2	65.7
85	85	64.7	56.7	65.4
86	86	61.2	53.6	61.9
87	89	57.8	0.0	57.8
90	90	57.6	0.0	57.6
91	98	52.6	0.0	52.6
99	99	60.0	47.8	60.3
100	100	60.0	51.4	60.6
101	102	60.0	48.8	60.3
103	104	56.8	0.0	56.8