

Appendix 20
Construction Impacts

Construction
Manpower and Truck Trips
Projections

**CORNELLNYC TECH PHASE 2B
MANPOWER PROJECTIONS**

	2024								2025								2026								2027																							
	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27	Apr-27	May-27	Jun-27	Jul-27	Aug-27	Sep-27	Oct-27	Nov-27	Dec-27				
Site Utilities, Civil & Landscaping																																																
Supervision																																																
Utilities	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
Landscaping																																																
9 - ACADEMIC BUILDING																																																
General Carpenters & Laborers	4	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8					
Excavation & Foundation	8	8	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16				
Superstructure (Steel)																																																
Elevators																																																
Exterior Façade																																																
Interior Development																																																
MEP																																																
Fire Protection																																																
FF&E																																																
10 - Corporate Co-location																																																
General Carpenters & Laborers																																																
Excavation & Foundation																																																
Superstructure (Steel)																																																
Elevators																																																
Exterior Façade																																																
Interior Development																																																
MEP																																																
Fire Protection																																																
FF&E																																																
11 - RESIDENTIAL BUILDING																																																
General Carpenters & Laborers																																																
Excavation & Foundation																																																
Superstructure (Concrete)																																																
Elevators																																																
Exterior Façade																																																
Interior Development																																																
MEP																																																
Fire Protection																																																
FF&E																																																
TOTAL WORKER AVERAGE:	38	52	80	80	110	124	124	136	124	152	260	298	398	434	322	324	352	344	352	424	481	474	448	448	460	466	470	466	532	526	530	512	466	452	416	456	334	256	210	206	150	118	118					

2024	2024	2024	2025	2025	2025	2025	2026	2026	2026	2026	2027	2027	2027	2027
2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
38	71	119	137	319	360	349	460	452	467	529	477	402	224	129

Projected Equipment List

Projected Equipment List		Equipment Type:	Bobcats	Mini Excavator	Air Compressors	Hand Chopping Tools	Compactor	Barrel Fans	Decontamination Chamber	Komatsu PC1250	Hitachi 750 (With Shear)	Catepillar D9	Loader 973	Crushing Wheel Loader	Crushing Cat D-4 Dozer	Cat 550 Wheel Harvester	Cat 450 Backhoe Loader	Roadway Cold Planer	Soil Compactor	Cat AP555E Asphalt Paver	Hydraulic Excavator	Hoist Tower	Tower Crane	Crawler Crane	LULL 944 E	Welding Rigs	Generators	Pumps	Ejector Pumps	Dewatering Pumps	Concrete Pumps	Setting Rig (mini floor crane)	Swing Rig			
Engine Type		Diesel	Diesel	Diesel	Manual	Diesel	Electric	Electric	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Electric	Diesel	Diesel	Diesel	Electric	Gasoline	Gasoline	Gasoline	Gasoline	Diesel	Diesel	Diesel			
Horespower		60	60	100	--	150	--	--	600	400	400	150	150	300	150	150	150	200	100	125	--	350	350	50	--	20	20	20	20	350	50	400				
Trade/Activity:																																				
Interior Demolition		8	4	4	8																															
Abatement						1	6	6																												
Structural Demolition						1			2	2	2	1	1	1																						
Civil/Site Work																1	4	1	2	1	2															
Utility Work																	4																			
General Construction																						3	2	2	1											
Excavation																			4		6					8	Mult*			Mult*						
Steel																										40	Mult*									
Concrete																											Mult*				4					
SOFP																												8								
Curtain Wall																										8						4	4			
Elevators																										4										
MEP																										40		Mult*								
Iron (Misc.)																										20										
Metal (Ornamental)																										20										
Equipment Total:		8	4	4	8	2	6	6	2	2	2	1	1	1	1	8	1	6	1	8	3	2	2	1	140	--	8	--	--	4	4	4				

*Mult = Multiple (where needed)

Table 1

Construction Phase 1 (Weekday)-Level 1 Screening

Vehicle PCE Trips (Auto + Truck)																	
		2014				2015				2016				2017			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Time	In / Out																
06:00 AM - 07:00 AM	Total	65	86	96	103	134	186	342	397	374	370	369	380	365	283	86	0
07:00 AM - 08:00 AM	Total	17	26	28	29	40	50	96	111	104	101	100	102	95	76	21	0
08:00 AM - 09:00 AM	Total	4	4	8	8	12	12	28	28	28	24	20	16	12	12	0	0
09:00 AM - 10:00 AM	Total	4	4	8	8	12	12	28	28	28	24	20	16	12	12	0	0
10:00 AM - 11:00 AM	Total	4	4	8	8	12	12	28	28	28	24	20	16	12	12	0	0
11:00 AM - 12:00 PM	Total	4	4	8	4	8	12	24	24	24	24	20	12	12	12	0	0
12:00 PM - 01:00 PM	Total	4	4	4	8	8	12	28	24	28	24	20	16	12	12	0	0
01:00 PM - 02:00 PM	Total	0	4	0	4	4	12	12	12	8	8	12	4	4	8	0	0
02:00 PM - 03:00 PM	Total	3	9	5	9	11	17	29	33	31	31	28	30	29	20	5	0
03:00 PM - 04:00 PM	Total	57	78	80	87	114	158	286	345	318	322	329	352	341	259	86	0
04:00 PM - 05:00 PM	Total	10	13	15	16	21	29	51	62	57	58	60	64	62	48	16	0
05:00 PM - 06:00 PM	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Daily Total	172	236	260	284	376	512	952	1092	1028	1010	998	1008	956	754	214	0

Construction Phase 1 (Weekday)-Auto only

Vehicle PCE Trips (Auto only)																	
		2014				2015				2016				2017			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Time	In / Out																
06:00 AM - 07:00 AM	In Out Total	53 74 80 83	110 150 274 333	306 310 321 344	333 255 86 0												
07:00 AM - 08:00 AM	In Out Total	13 18 20 21	28 38 68 83	76 77 80 86	83 64 21 0												
08:00 AM - 09:00 AM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
09:00 AM - 10:00 AM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
10:00 AM - 11:00 AM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
11:00 AM - 12:00 PM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
12:00 PM - 01:00 PM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
01:00 PM - 02:00 PM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
02:00 PM - 03:00 PM	In Out Total	0 3 5 5	7 9 17 21	19 19 20 22	21 16 5 0												
03:00 PM - 04:00 PM	In Out Total	53 74 80 83	110 150 274 333	306 310 321 344	333 255 86 0												
04:00 PM - 05:00 PM	In Out Total	10 13 15 16	21 29 51 62	57 58 60 64	62 48 16 0												
05:00 PM - 06:00 PM	In Out Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0												
	In Out Total	66 92 100 104	138 188 342 416	382 387 401 430	416 319 107 0												

Construction Phase 1 (Weekday)-Truck only

Vehicle PCE Trips (Truck only)																	
		2014				2015				2016				2017			
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
Time	In / Out																
06:00 AM - 07:00 AM	In Out Total	6 6 12	6 6 12	8 8 16	10 10 20	12 12 24	18 18 36	34 34 68	32 32 64	34 30 68	24 24 48	18 18 36	16 16 32	14 14 28	0 0 0	0 0 0	
07:00 AM - 08:00 AM	In Out Total	2 2 4	2 2 4	4 4 8	4 4 8	6 6 12	6 6 12	14 14 28	14 14 28	14 12 28	10 10 20	8 8 16	6 6 12	6 6 12	0 0 0	0 0 0	
08:00 AM - 09:00 AM	In Out Total	2 2 4	2 2 4	4 4 8	4 4 8	6 6 12	6 6 12	14 14 28	14 14 28	14 12 28	10 10 20	8 8 16	6 6 12	6 6 12	0 0 0	0 0 0	
09:00 AM - 10:00 AM	In Out Total	2 2 4	2 2 4	4 4 8	4 4 8	6 6 12	6 6 12	14 14 28	14 14 28	14 12 28	10 10 20	8 8 16	6 6 12	6 6 12	0 0 0	0 0 0	
10:00 AM - 11:00 AM	In Out Total	2 2 4	2 2 4	4 4 8	4 4 8	6 6 12	6 6 12	14 14 28	14 14 28	14 12 28	10 10 20	8 8 16	6 6 12	6 6 12	0 0 0	0 0 0	
11:00 AM - 12:00 PM	In Out Total	2 2 4	2 2 4	2 2 4	2 2 4	4 4 8	4 4 8	12 12 24	12 12 24	12 12 24	10 10 20	6 6 12	6 6 12	6 6 12	0 0 0	0 0 0	
12:00 PM - 01:00 PM	In Out Total	2 2 4	2 2 4	2 2 4	2 2 4	4 4 8	4 4 8	12 12 24	12 12 24	14 14 28	12 12 24	8 8 16	6 6 12	6 6 12	0 0 0	0 0 0	
01:00 PM - 02:00 PM	In Out Total	0 0 0	2 2 4	0 0 0	2 2 4	2 2 4	6 6 12	6 6 12	6 6 12	4 4 8	6 6 12	4 4 8	2 2 4	4 4 8	0 0 0	0 0 0	
02:00 PM - 03:00 PM	In Out Total	0 0 0	2 2 4	0 0 0	2 2 4	2 2 4	6 6 12	6 6 12	6 6 12	6 6 12	4 4 8	4 4 8	2 2 4	4 4 8	0 0 0	0 0 0	
03:00 PM - 04:00 PM	In Out Total	2 2 4	2 2 4	0 0 0	2 2 4	2 2 4	6 6 12	6 6 12	6 6 12	6 6 12	4 4 8	4 4 8	2 2 4	4 4 8	0 0 0	0 0 0	
04:00 PM - 05:00 PM	In Out Total	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
05:00 PM - 06:00 PM	In Out Total	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	
	In Out Total	20 26 40	26 30 52	30 38 60	38 76 114	50 50 100	68 68 136	134 134 268	130 130 260	132 132 264	118 118 236	98 98 196	74 74 148	62 62 124	58 58 116	0 0 0	

Phase 1: Weekday Auto Trips

Auto 58.0%
Auto Occupancy 1.17

Table 3

Construction Phase 1 -Weekday Hourly Total Auto Trip Projection

Auto Trips		Regular Shift																
		Regular Shift Workers		2014				2015				2016				2017		
Time	Temporal	Ph-1 Worker Projection-->	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
						133	186	201	209	279	379	689	839	770	781	808	867	840
06:00 AM - 07:00 AM	80%	In 100%	53	74	80	83	110	150	274	333	306	310	321	344	333	255	86	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	53	74	80	83	110	150	274	333	306	310	321	344	333	255	86	0
07:00 AM - 08:00 AM	20%	In 100%	13	18	20	21	28	38	68	83	76	77	80	86	83	64	21	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	13	18	20	21	28	38	68	83	76	77	80	86	83	64	21	0
08:00 AM - 09:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 AM - 10:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM - 11:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM - 12:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM - 01:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM - 02:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM - 03:00 PM	5%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	3	5	5	5	7	9	17	21	19	19	20	22	21	16	5	0
		Total	3	5	5	5	7	9	17	21	19	19	20	22	21	16	5	0
03:00 PM - 04:00 PM	80%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	53	74	80	83	110	150	274	333	306	310	321	344	333	255	86	0
		Total	53	74	80	83	110	150	274	333	306	310	321	344	333	255	86	0
04:00 PM - 05:00 PM	15%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	10	13	15	16	21	29	51	62	57	58	60	64	62	48	16	0
		Total	10	13	15	16	21	29	51	62	57	58	60	64	62	48	16	0
05:00 PM - 06:00 PM	0%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
In			66	92	100	104	138	188	342	416	382	387	401	430	416	319	107	0
Out			66	92	100	104	138	188	342	416	382	387	401	430	416	319	107	0
Total			132	184	200	208	276	376	684	832	764	774	802	860	832	638	214	0

Table 5

Construction Phase 2 (Weekday)-Level 1 Screening

Vehicle PCE Trips (Auto + Truck) table with columns for years 2024-2037, quarters 1Q-4Q, and time intervals from 06:00 AM to 05:00 PM. Total daily trips are 624.

Construction Phase 2 (Weekday)-Auto only

Vehicle PCE Trips (Auto only) table with columns for years 2024-2037, quarters 1Q-4Q, and time intervals from 06:00 AM to 05:00 PM. Total daily trips are 72.

Construction Phase 2 (Weekday)-Truck only

Vehicle PCE Trips (Truck only) table with columns for years 2024-2037, quarters 1Q-4Q, and time intervals from 06:00 AM to 05:00 PM. Total daily trips are 552.

Phase 2: Weekday Auto Trips

Auto 58.0%
Auto Occupancy 1.17

Table 7

Construction Phase 2 -Weekday Hourly Total Auto Trip Projection

Auto Trips		Regular Shift																																				
		Regular Shift Workers		2024				2025				2026				2027				2028				2034				2035				2036				2037		
Time	Temporal	Ph-1 Worker Projection-->	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
				72	131	147	207	352	435	455	494	508	481	516	465	377	207	149	104				38	71	119	137	319	360	349	460	452	467	529	477	402	224	129	
06:00 AM - 07:00 AM	80%	In 100%	0	29	52	58	82	139	173	181	196	202	190	205	185	150	82	59	42	0	0	0	0	15	28	47	54	126	142	138	182	179	186	210	189	159	89	51
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	29	52	58	82	139	173	181	196	202	190	205	185	150	82	59	42	0	0	0	0	15	28	47	54	126	142	138	182	179	186	210	189	159	89	51
07:00 AM - 08:00 AM	20%	In 100%	0	7	13	15	21	35	43	45	49	50	48	51	46	37	21	15	10	0	0	0	0	4	7	12	14	32	36	35	46	45	46	52	47	40	22	13
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	7	13	15	21	35	43	45	49	50	48	51	46	37	21	15	10	0	0	0	0	4	7	12	14	32	36	35	46	45	46	52	47	40	22	13
08:00 AM - 09:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 AM - 10:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM - 11:00 AM	0%	In 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM - 12:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM - 01:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM - 02:00 PM	0%	In 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 50%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM - 03:00 PM	5%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	0	2	3	4	5	9	11	11	12	13	12	13	12	9	5	4	3	0	0	0	0	1	2	3	3	8	9	9	11	11	12	13	12	10	6	3
		Total 100%	0	2	3	4	5	9	11	11	12	13	12	13	12	9	5	4	3	0	0	0	0	1	2	3	3	8	9	9	11	11	12	13	12	10	6	3
03:00 PM - 04:00 PM	80%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	0	29	52	58	82	139	173	181	196	202	190	205	185	150	82	59	42	0	0	0	0	15	28	47	54	126	142	138	182	179	186	210	189	159	89	51
		Total 100%	0	29	52	58	82	139	173	181	196	202	190	205	185	150	82	59	42	0	0	0	0	15	28	47	54	126	142	138	182	179	186	210	189	159	89	51
04:00 PM - 05:00 PM	15%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	0	5	10	11	16	26	32	34	37	37	36	38	34	28	16	11	7	0	0	0	0	3	5	9	11	24	27	26	35	34	34	39	35	30	16	10
		Total 100%	0	5	10	11	16	26	32	34	37	37	36	38	34	28	16	11	7	0	0	0	0	3	5	9	11	24	27	26	35	34	34	39	35	30	16	10
05:00 PM - 06:00 PM	0%	In 0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total 100%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	200%	In	0	36	65	73	103	174	216	226	245	252	238	256	231	187	103	74	52	0	0	0	0	19	35	59	68	158	178	173	228	224	232	262	236	199	111	64
		Out	0	36	65	73	103	174	216	226	245	252	238	256	231	187	103	74	52	0	0	0	0	19	35	59	68	158	178	173	228	224	232	262	236	199	111	64
		Total	0	72	130	146	206	348	432	452	490	504	476	512	462	374	206	148	104	0	0	0	0	38	70	118	136	316	356	346	456	448	464	524	472	398	222	128

Construction Phase 2 -Weekday Hourly Truck Trip Projection

Table with columns for Truck Trips (Regular Shift, 2024-2027), Time, and Temporal (In/Out/Total). Rows represent hourly intervals from 06:00 AM to 05:00 PM.

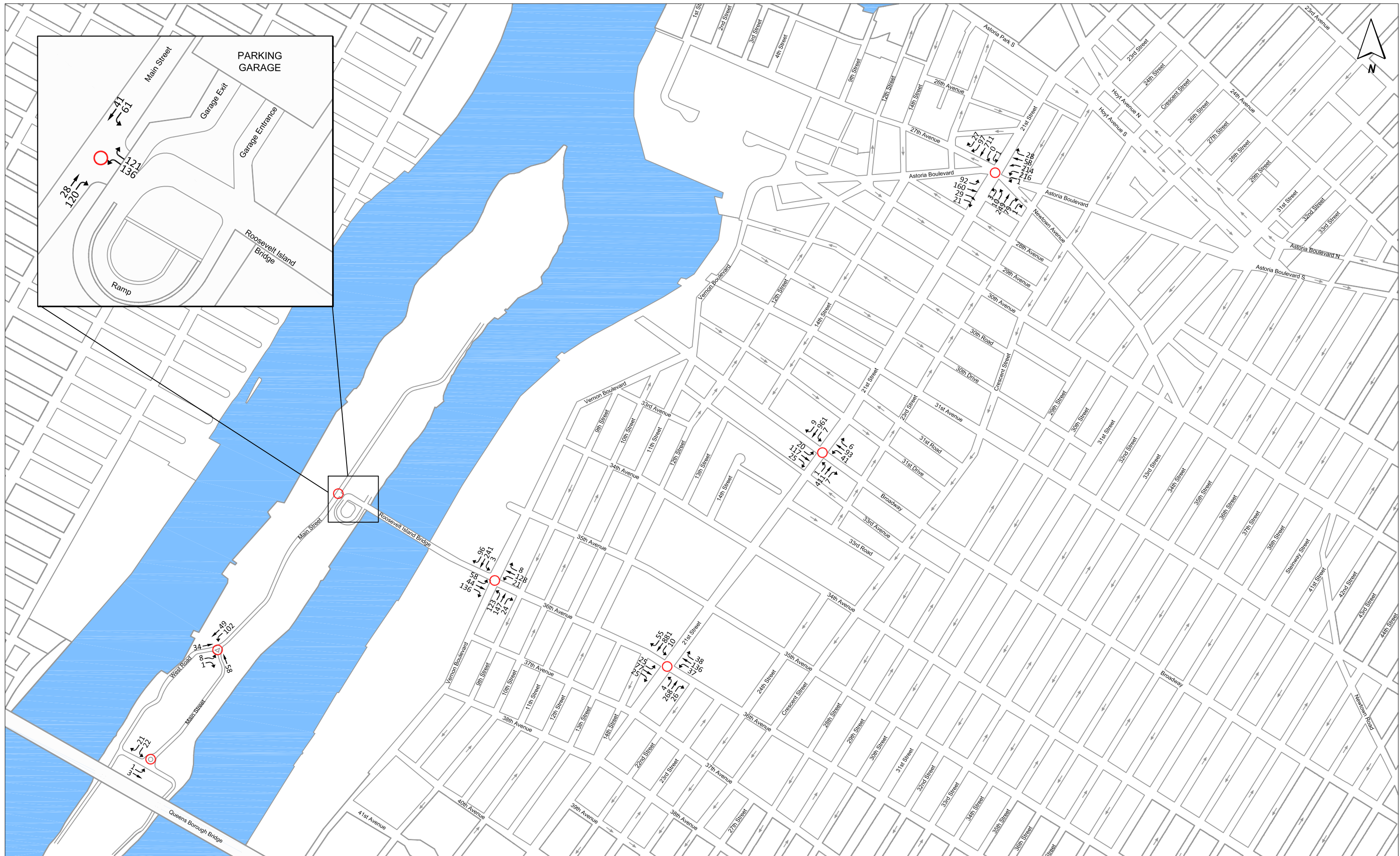
Table 8A

PCE 2.00

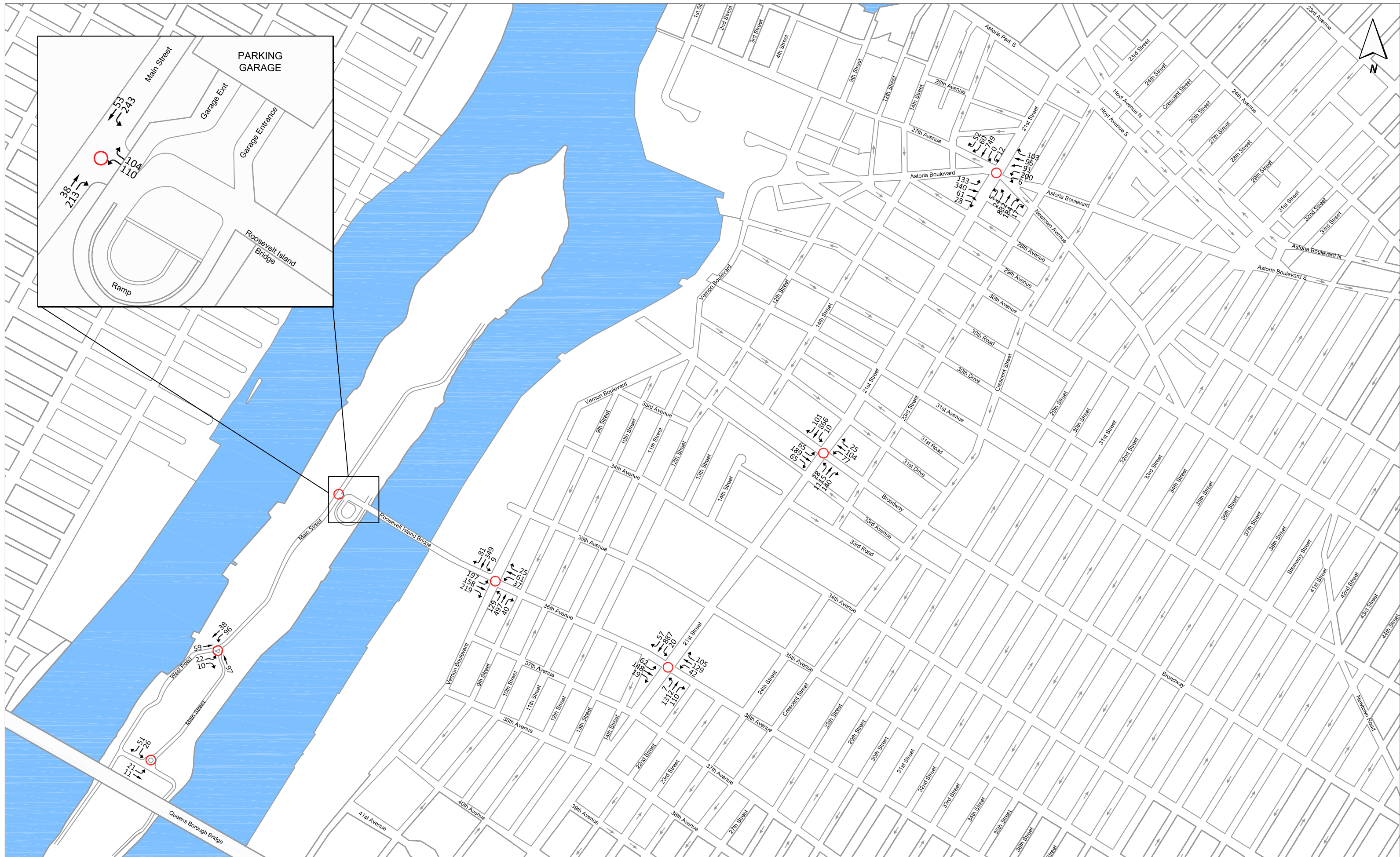
Construction Phase 2 -Weekday Hourly Truck Trip Projection (PCE)

Table with columns for Truck PCE Trips (Regular Shift, 2024-2027), Time, and Temporal (In/Out/Total). Rows represent hourly intervals from 06:00 AM to 05:00 PM.

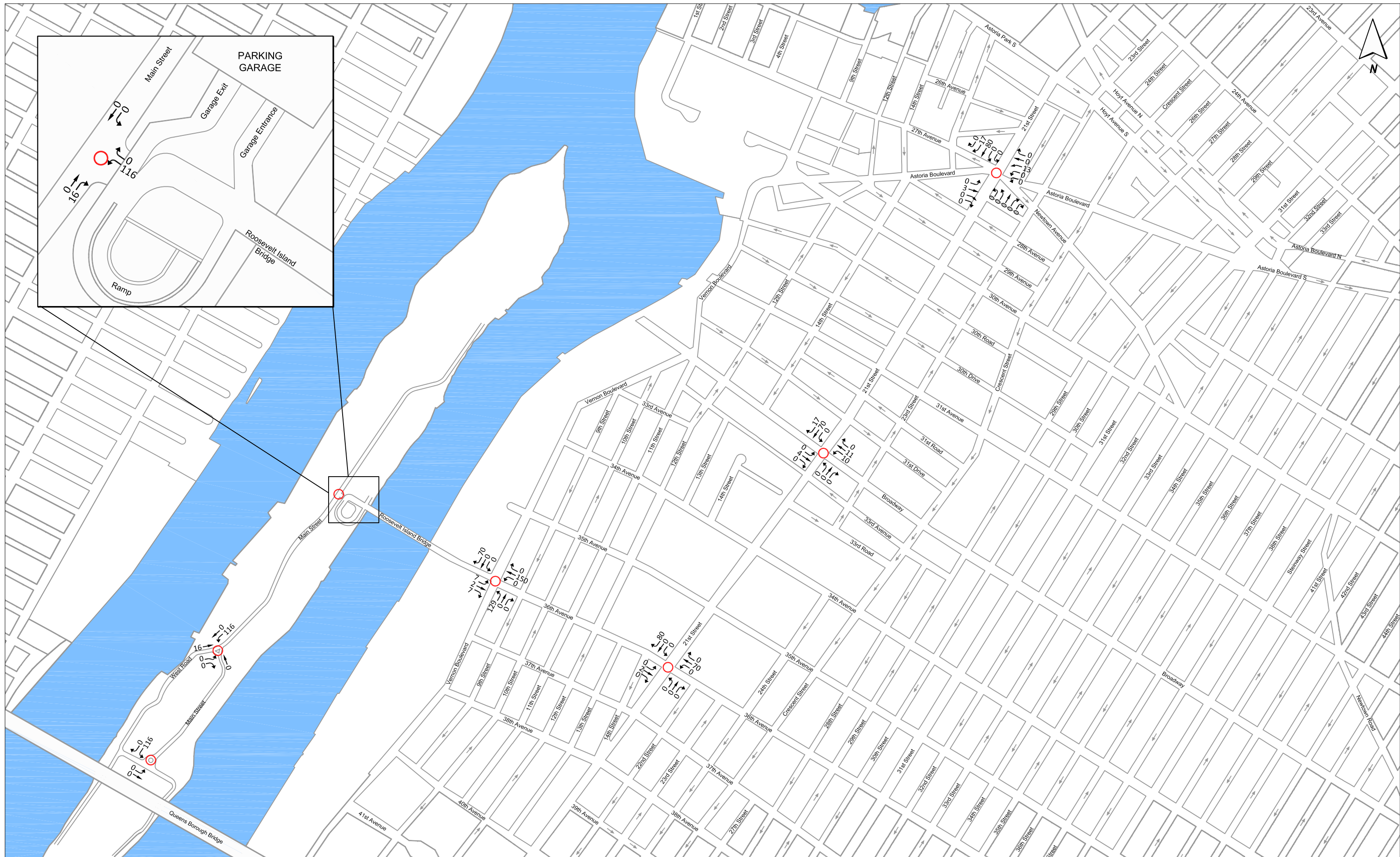
Construction Traffic



Note: Left turns are prohibited in the northbound and southbound directions at the intersections of Broadway at 21st Street, and 36th Avenue at 21st Street, and in the southbound direction at the intersection of 36th Avenue at 31st Street during the weekday AM peak hour.

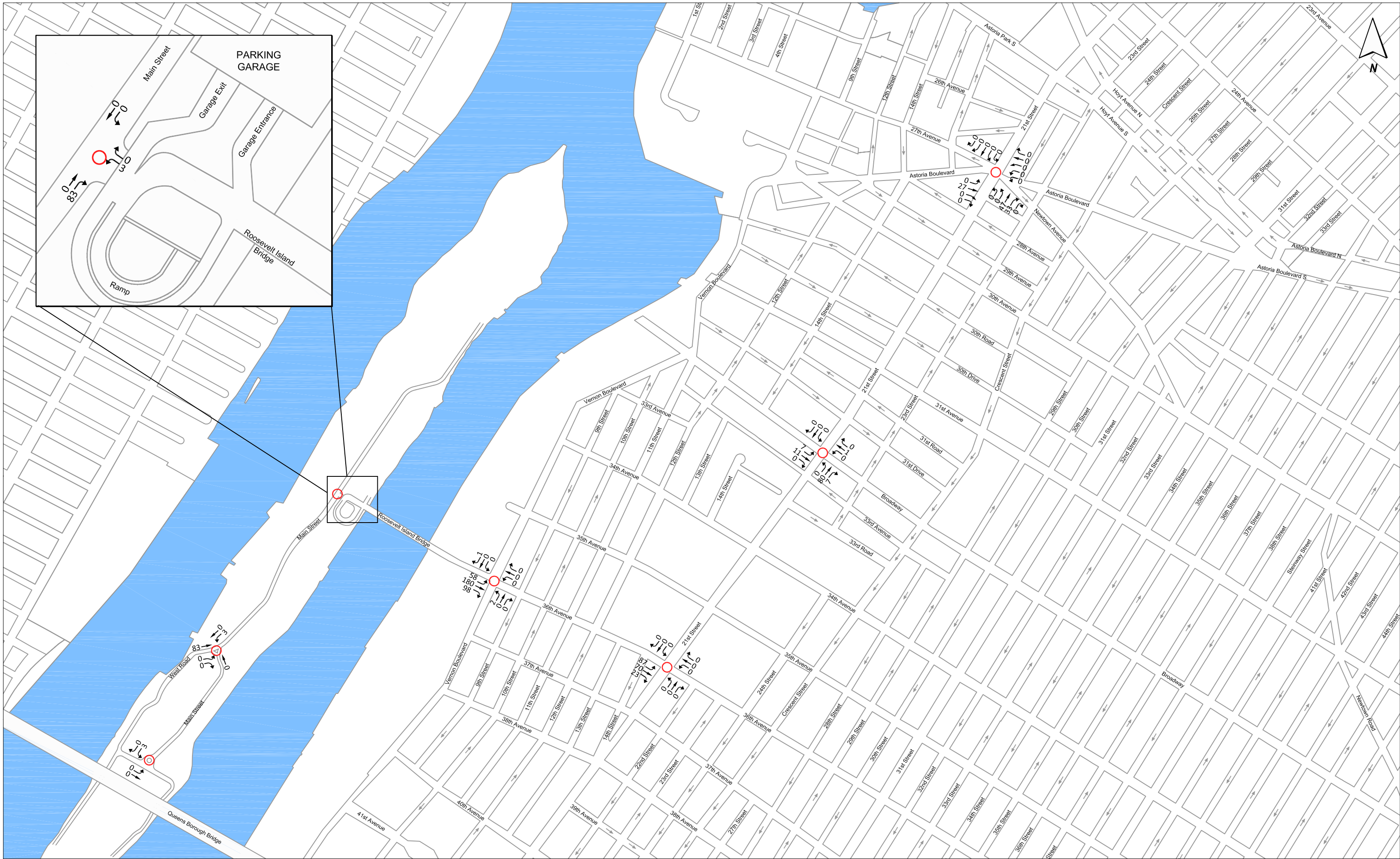


Note: Left turns are prohibited in the northbound and southbound directions at the intersections of Broadway at 21st Street, 36th Avenue at 21st Street, and 36th Avenue at 31st Street during the weekday PM peak hour.



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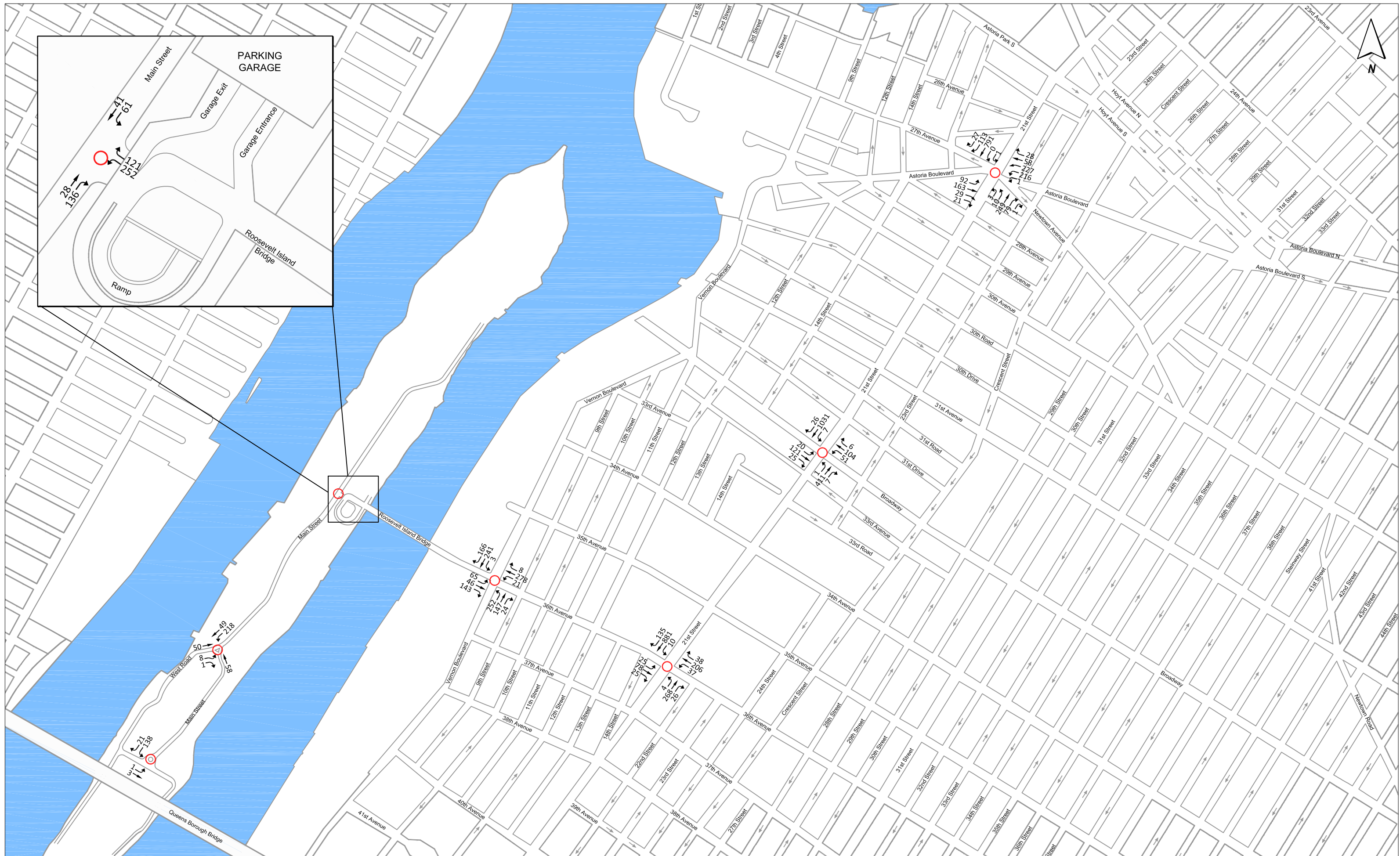
Figure 3: Phase 1 Construction
 Future With Construction of the Proposed Project -- Total Construction Increments -- 6 - 7 AM Peak Hour



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Figure 4: Phase 1 Construction

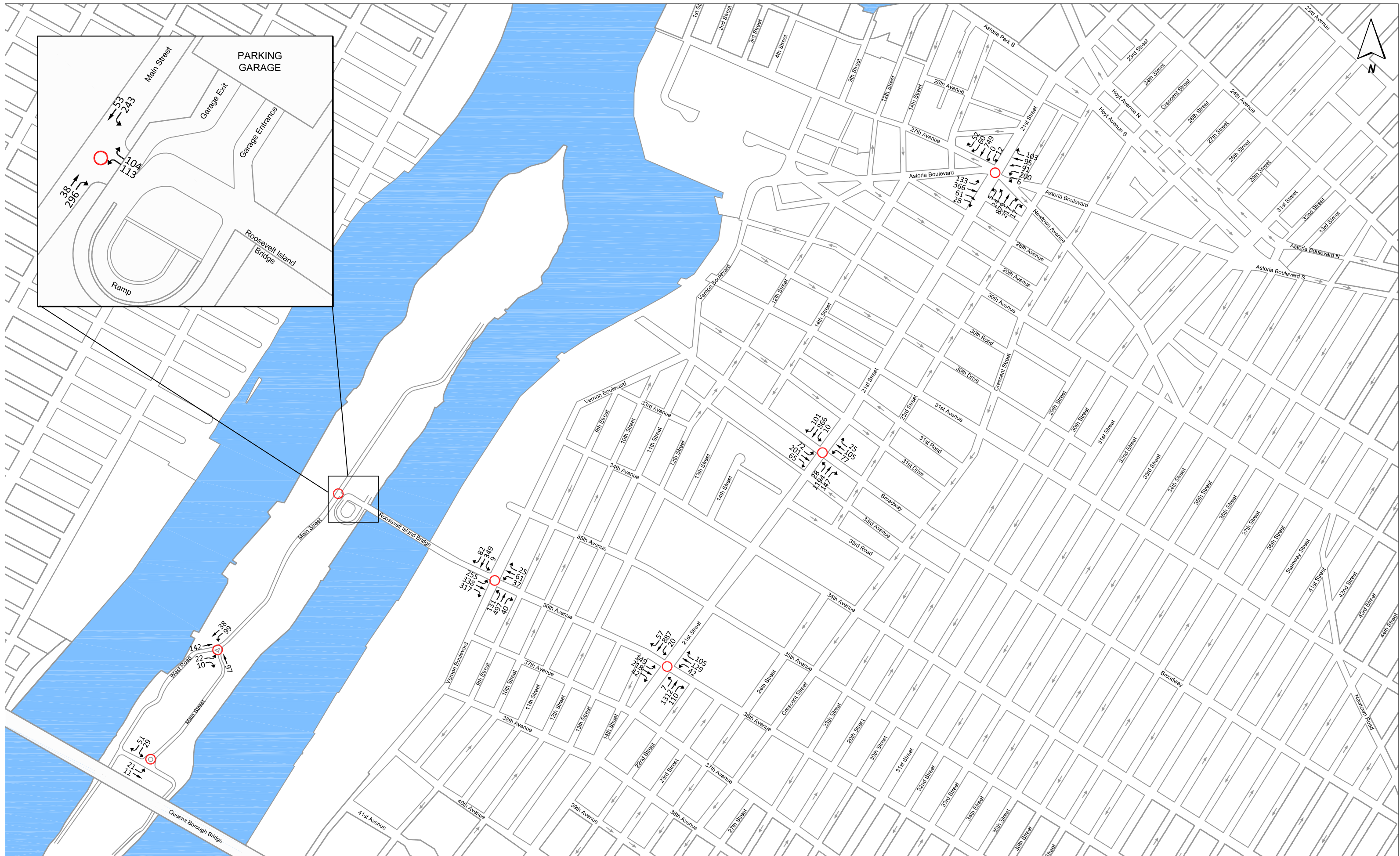
Future With Construction of the Proposed Project -- Total Construction Increments -- 3 - 4 PM Peak Hour



Note: Left turns are prohibited in the northbound and southbound directions at the intersections of Broadway at 21st Street, and 36th Avenue at 21st Street, and in the southbound direction at the intersection of 36th Avenue at 31st Street during the weekday AM peak hour.

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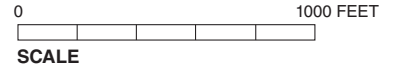
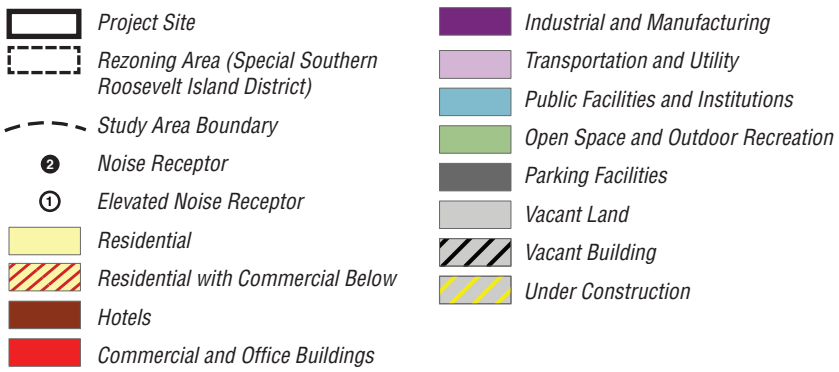
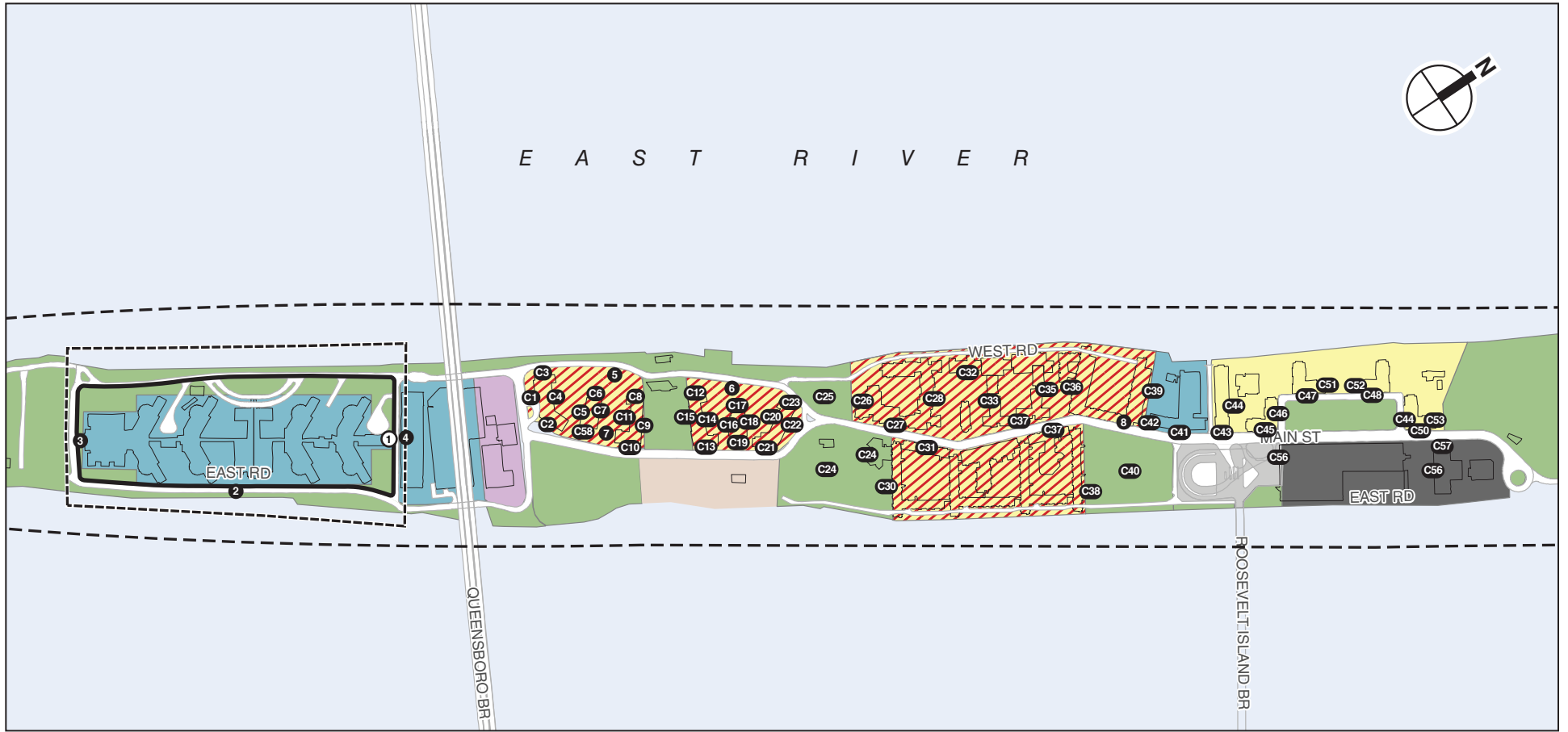
Figure 5: Phase 1 Construction Future Traffic Volumes With Construction of the Proposed Project -- 6 - 7 AM Peak Hour



Note: Left turns are prohibited in the northbound and southbound directions at the intersections of Broadway at 21st Street, 36th Avenue at 21st Street, and 36th Avenue at 31st Street during the weekday PM peak hour.

Noise Receptor Sites (See Appendix Figure 20-1)	Nearest Measurement Location	Time	dBA										
			Existing				Construction						
			Measured Existing Leq	Measured Existing L10	TNM Calculated Existing Leq	TNM Adjustment Factor at Meas Loc	Min Level (avg Measured L90)	Existing Leq	Existing L10	Construction Traffic Leq	Total Leq During Construction	Construction Increment	Total L10
2	2	7AM - 8:30 AM	63.1	64.5	57.0	6.1							
3	3		63.4	66.2	58.7	4.7							
5	5		64.8	66.3	59.9	4.9							
6	6		64.3	65.4	59.5	4.8							
7	7		64.7	66.3	62.1	2.6							
8	8		70.5	72.9	68.0	2.5	56.4	70.5	72.9	69.5	73.0	2.5	75.4
C1	5	6AM - 7AM			52.9	4.9	56.4	57.8	59.3	59.2	61.6	3.8	63.1
C2	7				53.0	2.6	56.4	56.4	58.0	61.5	62.7	6.2	64.3
C3	5				60.3	4.9	56.4	65.2	66.7	67.6	69.6	4.4	71.1
C4	5				41.6	4.9	56.4	56.4	57.9	50.5	57.4	1.0	58.9
C5	5				42.7	4.9	56.4	56.4	57.9	51.9	57.7	1.3	59.2
C6	5				45.7	4.9	56.4	56.4	57.9	54.0	58.4	2.0	59.9
C7	5				42.1	4.9	56.4	56.4	57.9	50.0	57.3	0.9	58.8
C8	5				47.4	4.9	56.4	56.4	57.9	54.9	58.7	2.3	60.2
C9	5				44.4	4.9	56.4	56.4	57.9	51.6	57.7	1.2	59.2
C10	7				52.5	2.6	56.4	56.4	58.0	60.4	61.9	5.4	63.5
C11	5				38.8	4.9	56.4	56.4	57.9	48.2	57.0	0.6	58.5
C12	6				49.6	4.8	56.4	56.4	57.5	56.8	59.6	3.2	60.7
C13	7				53.8	2.6	56.4	56.4	58.0	61.2	62.5	6.0	64.1
C14	6				40.9	4.8	56.4	56.4	57.5	48.4	57.1	0.6	58.2
C15	6				44.3	4.8	56.4	56.4	57.5	51.7	57.7	1.3	58.8
C16	6				41.5	4.8	56.4	56.4	57.5	48.8	57.1	0.7	58.2
C17	6				47.8	4.8	56.4	56.4	57.5	54.5	58.6	2.2	59.7
C18	6				43.0	4.8	56.4	56.4	57.5	49.9	57.3	0.9	58.4
C19	7				49.4	2.6	56.4	56.4	58.0	56.2	59.3	2.9	60.9
C20	6				42.8	4.8	56.4	56.4	57.5	49.9	57.3	0.9	58.4
C21	7				53.8	2.6	56.4	56.4	58.0	61.4	62.6	6.2	64.2
C22	6				55.1	4.8	56.4	59.9	61.0	61.8	64.0	4.1	65.1
C23	6				55.7	4.8	56.4	60.5	61.6	60.2	63.4	2.9	64.5
C24	7				50.5	2.6	56.4	56.4	58.0	56.4	59.4	3.0	61.0
C25	6				57.2	4.8	56.4	62.0	63.1	60.2	64.2	2.2	65.3
C26	6				49.7	4.8	56.4	56.4	57.5	53.7	58.3	1.9	59.4
C27	8				66.1	2.5	56.4	68.6	71.0	69.1	71.9	3.3	74.3
C28	8				42.1	2.5	56.4	56.4	58.8	48.2	57.0	0.6	59.4
C29	8				53.1	2.5	56.4	56.4	58.8	57.1	59.8	3.4	62.2
C30	8				39.4	2.5	56.4	56.4	58.8	47.4	56.9	0.5	59.3
C31	8				69.3	2.5	56.4	71.8	74.2	71.8	74.8	3.0	77.2
C32	8				42.3	2.5	56.4	56.4	58.8	48.5	57.1	0.6	59.5
C33	8			45.0	2.5	56.4	56.4	58.8	50.7	57.5	1.0	59.9	
C34	8			56.4	2.5	56.4	58.9	61.3	61.1	63.1	4.2	65.5	
C35	8			42.7	2.5	56.4	56.4	58.8	48.5	57.1	0.6	59.5	
C36	8			45.4	2.5	56.4	56.4	58.8	50.9	57.5	1.1	59.9	
C37	8			63.8	2.5	56.4	66.3	68.7	68.5	70.5	4.2	72.9	
C38	8			44.9	2.5	56.4	56.4	58.8	51.7	57.7	1.3	60.1	
C39	8			42.6	2.5	56.4	56.4	58.8	48.3	57.1	0.6	59.5	
C40	8			48.4	2.5	56.4	56.4	58.8	54.6	58.6	2.2	61.0	
C41	8			57.8	2.5	56.4	60.3	62.7	62.5	64.5	4.2	66.9	
C42	8			51.6	2.5	56.4	56.4	58.8	56.2	59.3	2.9	61.7	
C43	8			60.6	2.5	56.4	63.1	65.5	65.6	67.5	4.4	69.9	
C44	8			45.7	2.5	56.4	56.4	58.8	51.3	57.6	1.2	60.0	
C45	8			60.7	2.5	56.4	63.2	65.6	65.5	67.5	4.3	69.9	
C46	8			49.8	2.5	56.4	56.4	58.8	55.5	59.0	2.6	61.4	
C47	8			47.0	2.5	56.4	56.4	58.8	53.3	58.2	1.7	60.6	
C48	8			46.8	2.5	56.4	56.4	58.8	53.1	58.1	1.7	60.5	
C49	8			50.0	2.5	56.4	56.4	58.8	55.7	59.1	2.7	61.5	
C50	8			60.7	2.5	56.4	63.2	65.6	65.5	67.5	4.3	69.9	
C51	8			43.1	2.5	56.4	56.4	58.8	49.7	57.3	0.8	59.7	
C52	8			43.8	2.5	56.4	56.4	58.8	50.3	57.4	0.9	59.8	
C53	8			15.4	2.5	56.4	56.4	58.8	21.0	56.4	0.0	58.8	
C54	8			63.1	2.5	56.4	65.6	68.0	67.7	69.8	4.2	72.2	
C55	8			33.7	2.5	56.4	56.4	58.8	39.8	56.5	0.1	58.9	
C56	8			46.9	2.5	56.4	56.4	58.8	52.7	58.0	1.5	60.4	
C57	8			53.4	2.5	56.4	56.4	58.8	57.9	60.2	3.8	62.6	
C58	8			50.0	2.5	56.4	56.4	58.8	58.4	60.5	4.1	62.9	

Construction Noise



Construction Noise Receptor Locations