



Appendix 3.6-2

Mobile Source Analysis

Intersections / Traffic Locations

- 1 Hempstead Tpke & James Doolittle Blvd
- 2 Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke
- 3 Cunningham Ave & Hempstead Tpke
- 4 Hempstead Tpke & MSK Entrance
- 5 Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke
- 6 Earle Ovington Blvd/Earle Ovington Blvd & East Gate Rd/Nassau Coliseum Access
- 7 Earle Ovington Blvd & Charles Lindbergh Blvd EB/Nassau Coliseum Access
- 8 Earle Ovington Blvd & Charles Lindbergh Blvd WB/Charles Lindbergh Blvd
- 9 James Doolittle Blvd & Charles Lindbergh Blvd
- 10 Charles Lindbergh Blvd & Perimeter Rd
- 11 Charles Lindbergh Blvd & Merrick Ave
- 12 Merrick Ave & Hempstead Tpke
- 13 Hempstead Tpke at Eisenhower Park Rd Entrance
- 14 Hempstead Tpke at Coolidge Dr
- 15 Hempstead Tpke at Park Blvd/East Meadow Ave
- 16 Merrick Ave & Glen Curtiss Blvd/Peters Gate
- 17 California Ave/Hofstra Blvd & Hempstead Tpke
- 18 Hempstead Tpke at Oak St/Hofstra Blvd
- 19 Front St at Merrick Ave
- 20 Front St at Uniondale Ave
- 21 Front St at California Ave
- 22 Fulton Ave at Peninsula Blvd/Bennett Ave
- 23 Fulton Ave at Clinton St
- 24 Fulton Ave at N Franklin St
- 25 Stewart Ave at Franklin Ave
- 26 Old Country Rd at Franklin Ave/ Mineola Blvd
- 27 Old Country Rd at Clinton Ave/Glen Cove Rd
- 28 Old Country Rd at Merchants Concourse/Ellison Ave
- 29 Old Country Rd at Merrick Ave/Post Ave
- 30 Merrick Ave at Stewart Ave/ Park Blvd
- 31 Stewart Ave at Endo Blvd/Merchants Concourse
- 32 Stewart Ave at Quentin Roosevelt Blvd/South St
- 33 Stewart Ave at Clinton Rd
- 34 Oak St at Commercial Ave
- 35 Quentin Roosevelt Blvd & Commercial Ave
- 36 Meadow St at Charles Lindbergh Blvd
- 37 Charles Lindbergh Blvd at WB U-turn (near Earle Ovington Blvd)
- 38 Coliseum North Exit Gate and Charles Lindbergh EB
- 39 Earle Ovington Blvd at Coliseum Media/Staff Parking
- 40 Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp
- 41 Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp

- 42 Hempstead Tpke at EB /Meadowbrook Pkwy SB Off Ramp
- 43 Hempstead Tpke at EB /Meadowbrook Pkwy NB Off Ramp
- 44 Hempstead Tpke at Front Street
- 45 Hempstead Tpke at Carman Ave
- 46 Hempstead Tpke at Newbridge Rd
- 47 Merrick Ave at Bellmore Ave
- 48 Merrick Ave at North Jerusalem Rd
- 49 Merrick Ave at Jerusalem Ave
- 50 Uniondale Ave at Jerusalem Rd
- 51 Uniondale Ave at Nassau Rd
- 52 Stewart Ave at Ring Road West (Roosevelt Field)
- 53 Old Country Rd at Roosevelt Field Entrance
- 54 Old Country Rd at Salisbury Park Dr/School St
- 55 Merrick Ave at Corporate Dr
- 56 Merrick Ave at Privado Rd
- 57 Jericho Tpke at Post Ave
- 58 Main St at Franklin Ave
- 59 Main St at Meadow St
- 60 Meadow St at Washington Ave
- 61 Meadow St at Clinton Rd
- 62 Meadow St at Lindbergh St
- 63 Westbury Blvd at Lindbergh St
- 64 Westbury Blvd at Oak St/Meadow St

- 67 Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp
- 68 Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp
- 69 Hempstead Tpke at WB /Meadowbrook Pkwy SB On Ramp
- 70 Hempstead Tpke at WB /Meadowbrook Pkwy NB On Ramp
- 71 Charles Lindbergh Blvd EB at Meadowbrook Pkwy SB On Ramp
- 72 Charles Lindbergh Blvd EB at Meadowbrook Pkwy NB On Ramp
- 73 Charles Lindbergh Blvd WB at Meadowbrook Pkwy NB Off Ramp
- 74 Charles Lindbergh Blvd WB at Meadowbrook Pkwy SB Off Ramp

- 79 Hempstead Turnpike at Franklin Ave/Perimeter E/Hospital St
- 82 Peninsula Blvd at Fulton Ave
- 144 Peninsula Blvd
- 261 Hempstead Turnpike
- 263 Hempstead Turnpike
- 360 Charles Lindbergh Blvd at Sands Ave
- 400 James Doolittle Blvd & Parking F
- 401 James Doolittle Blvd
- 402 James Doolittle Blvd & Exist Hotel Access
- 403 James Doolittle Blvd & Marriott Driveway
- 406 Sands Avenue
- 408 East Dr/ Sands Ave at North Ave

- 409 Sands Ave at Parking E
- 410 East Dr/ Sands Ave at North Ave
- 411 West Dr & Garage C
- 413 Parking & Nassau Coliseum Access/ South Dr
- 414 MSK/South Dr
- 415 South Dr
- 416 Valet Below Mice/Garage A & Nassau Coliseum Access/North Drive
- 417 North Dr & Rideshare Entrance
- 419 South Dr

Weekday PM Peak		No Build					Build					10% or more increase in traffic volume	a 20% reduction in speed, when Build Estimated average speed is at or < 30 mph	a 10% or more increase in vehicle emissions For the Build Year				
#	Intersection	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	% Change	Speed <= 30?	% Change	No Build Cruise EG g/mi	Build Cruise EF g/mi	% Change	
1	Hempstead Tpke & James Doolittle Blvd	A	Unsignalized				A	Unsignalized										
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	D	Signalized	8	3	4,996	E	Signalized	5	2	5,818	16%	Less than 30	-38%	2,839	3,874	36%	
3	Cunningham Ave & Hempstead Tpke	A	Signalized				B	Signalized										
4	Hempstead Tpke & MSK Entrance	A	Signalized				A	Signalized										
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	E	Signalized	9	3	5,005	F	Signalized	7	2	5,421	8%	Less than 30	-22%	2,839	3,874	36%	
6	Earle Ovington Blvd/Earle Ovington Blvd & East Gate Rd/Nassau Coliseum Access	B	Signalized				C	Signalized										
7	Earle Ovington Blvd & Charles Lindbergh Blvd EB/Nassau Coliseum Access	C	Signalized				C	Signalized										
8	Earle Ovington Blvd & Charles Lindbergh Blvd WB/Charles Lindbergh Blvd	C	Signalized				C	Signalized										
9	James Doolittle Blvd & Charles Lindbergh Blvd	Note 1	Unsignalized				A	Unsignalized										
10	Charles Lindbergh Blvd & Perimeter Rd	Note 1	Unsignalized				A	Unsignalized										
11	Charles Lindbergh Blvd & Merrick Ave	B	Signalized				B	Signalized										
12	Merrick Ave & Hempstead Tpke	E	Signalized	7	2	5,569	E	Signalized	7	2	5,684	2%	Less than 30	0%	3,874	3,874	0%	
13	Hempstead Tpke at Eisenhower Park Rd Entrance	A	Signalized				A	Signalized										
14	Hempstead Tpke at Coolidge Dr	A	Signalized				A	Signalized										
15	Hempstead Tpke at Park Blvd/East Meadow Ave	E	Signalized	5	2	4,985	F	Signalized	4	2	5,090	2%	Less than 30	-20%	3,874	3,874	0%	
16	Merrick Ave & Glen Curtiss Blvd/Peters Gate	B	Signalized				B	Signalized										
17	California Ave/Hofstra Blvd & Hempstead Tpke	C	Signalized				C	Signalized										
18	Hempstead Tpke at Oak St/Hofstra Blvd	D	Signalized	11	3	3,673	D	Signalized	11	3	3,736	2%	Less than 30	0%	2,839	2,839	0%	
19	Front St at Merrick Ave	D	Signalized	9	3	3,795	D	Signalized	9	3	3,805	0%	Less than 30	0%	2,839	2,839	0%	
20	Front St at Uniondale Ave	D	Signalized	6	2	2,592	D	Signalized	5	2	2,628	1%	Less than 30	-17%	3,874	3,874	0%	
21	Front St at California Ave	B	Signalized				B	Signalized										
22	Fulton Ave at Peninsula Blvd/Bennett Ave	C	Signalized				C	Signalized										
23	Fulton Ave at Clinton St	D	Signalized	7	2	3,787	D	Signalized	7	2	3,845	2%	Less than 30	0%	3,874	3,874	0%	
24	Fulton Ave at NFranklin St	D	Signalized	6	2	3,899	E	Signalized	6	2	3,946	1%	Less than 30	0%	3,874	3,874	0%	
25	Stewart Ave at Franklin Ave	F	Signalized	2	1	4,704	F	Signalized	2	1	4,754	1%	Less than 30	0%	5,947	5,947	0%	
26	Old Country Rd at Franklin Ave/ Mineola Blvd	D	Signalized	5	2	4,498	E	Signalized	5	2	4,595	2%	Less than 30	0%	3,874	3,874	0%	
27	Old Country Rd at Clinton Ave/Glen Cove Rd	D	Signalized	6	2	6,712	D	Signalized	6	2	6,818	2%	Less than 30	0%	3,874	3,874	0%	
28	Old Country Rd at Merchants Concourse/Ellison Ave	D	Signalized	9	3	4,375	D	Signalized	9	3	4,386	0%	Less than 30	0%	2,839	2,839	0%	
29	Old Country Rd at Merrick Ave/Post Ave	F	Signalized	5	2	6,289	F	Signalized	5	2	6,354	1%	Less than 30	0%	3,874	3,874	0%	
30	Merrick Ave at Stewart Ave/ Park Blvd	E	Signalized	7	2	4,733	E	Signalized	7	2	4,796	1%	Less than 30	0%	3,874	3,874	0%	
31	Stewart Ave at Endo Blvd/Merchants Concourse	E	Signalized	9	3	4,892	E	Signalized	9	3	4,896	0%	Less than 30	0%	2,839	2,839	0%	
32	Stewart Ave at Quentin Roosevelt Blvd/South St	D	Signalized	8	3	5,165	D	Signalized	8	3	5,181	0%	Less than 30	0%	2,839	2,839	0%	
33	Stewart Ave at Clinton Rd	F	Signalized	3	2	5,378	F	Signalized	3	2	5,395	0%	Less than 30	0%	3,874	3,874	0%	
34	Oak St at Commercial Ave	B	Signalized				B	Signalized										
35	Quentin Roosevelt Blvd & Commercial Ave	B	Signalized				B	Signalized										
36	Meadow St at Charles Lindbergh Blvd	B	Signalized				B	Signalized										
37	Charles Lindbergh Blvd at WB U-turn (near Earle Ovington Blvd)	N/A	Unsignalized	44	10	1,605	DNE											
38	Coliseum North Exit Gate and Charles Lindbergh EB	N/A	Unsignalized	30	7	1,606	DNE											
39	Earle Ovington Blvd at Coliseum Media/Staff Parking	N/A	Unsignalized	35	8	1,769	N/A											
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	B	Unsignalized	45	10	4,376	F	Unsignalized	46	10	5,201	19%	Greater than 30		1,342	1,342	0%	
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	F	Unsignalized	14	4	3,636	F	Unsignalized	12	3	4,044	11%	Less than 30	-14%	2,491	2,839	14%	
42	Hempstead Tpke at EB /Meadowbrook Pkwy SB Off Ramp	B	Unsignalized				A	Unsignalized										
43	Hempstead Tpke at EB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized										
44	Hempstead Tpke at Front Street	C	Signalized				C	Signalized										
45	Hempstead Tpke at Carman Ave	E	Signalized	6	2	5,108	E	Signalized	6	2	5,194	2%	Less than 30	0%	3,874	3,874	0%	
46	Hempstead Tpke at Newbridge Rd	E	Signalized	6	2	5,655	E	Signalized	6	2	5,737	1%	Less than 30	0%	3,874	3,874	0%	
47	Merrick Ave at Bellmore Ave	B	Signalized				B	Signalized										
48	Merrick Ave at North Jerusalem Rd	B	Signalized				B	Signalized										
49	Merrick Ave at Jerusalem Ave	D	Signalized	4	2	3,068	D	Signalized	4	2	3,078	0%	Less than 30	0%	3,874	3,874	0%	
50	Uniondale Ave at Jerusalem Rd	D	Signalized	5	2	2,905	D	Signalized	5	2	2,919	0%	Less than 30	0%	3,874	3,874	0%	
51	Uniondale Ave at Nassau Rd	C	Signalized				C	Signalized										
52	Stewart Ave at Ring Road West (Roosevelt Field)	B	Signalized				B	Signalized										
53	Old Country Rd at Roosevelt Field Entrance	D	Signalized	6	2	5,180	D	Signalized	6	2	5,287	2%	Less than 30	0%	3,874	3,874	0%	

Weekday PM Peak	No Build					Build					10% or more increase in traffic volume	a 20% reduction in speed, when Build Estimated average speed is at or < 30 mph			a 10% or more increase in vehicle emissions For the Build Year		
	LOS	Signalized	5	2	4,580	LOS	Signalized	5	2	4,685		2%	Less than 30	0%	3,874	3,874	0%
54 Old Country Rd at Salsbury Park Dr/School St	E	Signalized	5	2	4,580	E	Signalized	5	2	4,685	2%	Less than 30	0%	3,874	3,874	0%	
55 Merrick Ave at Corporate Dr	F	Signalized	4	2	3,751	F	Signalized	4	2	3,810	2%	Less than 30	0%	3,874	3,874	0%	
56 Merrick Ave at Privado Rd	E	Signalized	7	2	3,375	E	Signalized	6	2	3,434	2%	Less than 30	-14%	3,874	3,874	0%	
57 Jericho Tpke at Post Ave	F	Signalized	2	1	4,697	F	Signalized	2	1	4,739	1%	Less than 30	0%	5,947	5,947	0%	
58 Main St at Franklin Ave	B	Signalized				B	Signalized										
59 Main St at Meadow St	A	Unsignalized				A	Unsignalized										
60 Meadow St at Washington Ave	B	Signalized				B	Signalized										
61 Meadow St at Clinton Rd	B	Signalized				B	Signalized										
62 Meadow St at Lindbergh St	A	Unsignalized				A	Unsignalized										
63 Westbury Blvd at Lindbergh St	A	Unsignalized				A	Unsignalized										
64 Westbury Blvd at Oak St/Meadow St	E	Signalized	7	2	2,463	E	Signalized	7	2	2,471	0%	Less than 30	0%	3,874	3,874	0%	
67 Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized										
68 Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				B	Unsignalized										
69 Hempstead Tpke at WB /Meadowbrook Pkwy SB On Ramp	B	Unsignalized				B	Unsignalized										
70 Hempstead Tpke at WB /Meadowbrook Pkwy NB On Ramp	B	Unsignalized				B	Unsignalized										
71 Charles Lindbergh Blvd EB at Meadowbrook Pkwy SB On Ramp	A	Unsignalized				C	Unsignalized										
72 Charles Lindbergh Blvd EB at Meadowbrook Pkwy NB On Ramp	A	Unsignalized				A	Unsignalized										
73 Charles Lindbergh Blvd WB at Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized										
74 Charles Lindbergh Blvd WB at Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized										
79 Hempstead Turnpike at Franklin Ave/Perimeter E/Hospital St	B	Signalized				B	Signalized										
82 Peninsula Blvd at Fulton Ave	A	Unsignalized				A	Unsignalized										
144 Peninsula Blvd	A	Signalized				A	Signalized										
261 Hempstead Turnpike	A	Unsignalized				A	Unsignalized										
263 Hempstead Turnpike	A	Unsignalized				A	Unsignalized										
360 Charles Lindbergh Blvd at Sands Ave	DNE					C	Signalized										
400 James Doolittle Blvd & Parking F	DNE					A	Unsignalized										
401 James Doolittle Blvd	N/A	Unsignalized				A	Unsignalized										
402 James Doolittle Blvd & Exist Hotel Access	N/A	Unsignalized				A	Unsignalized										
403 James Doolittle Blvd & Marriott Driveway	DNE					A	Unsignalized										
404 James Doolittle Blvd & Parking E	N/A	Unsignalized				A	Unsignalized										
406 Sands Avenue	DNE					A	Signalized										
408 East Dr/ Sands Ave at North Ave	DNE					B	Signalized										
409 Sands Ave at Parking E	DNE					A	Unsignalized										
410 East Dr/ Sands Ave at North Ave	N/A	Signalized				A	Signalized										
411 West Dr & Garage C	DNE					A	Unsignalized										
413 Parking & Nassau Coliseum Access/ South Dr	N/A	Unsignalized				A	Unsignalized										
414 MSK/South Dr	N/A	Unsignalized				A	Unsignalized										
415 South Dr	N/A	Signalized				A	Signalized										
416 Valet Below Mice/Garage A & Nassau Coliseum Access/North Drive	N/A	Signalized				A	Signalized										
417 North Dr & Rideshare Entrance	DNE					A	Signalized										
419 South Dr	N/A	Unsignalized				A	Unsignalized										
420 Washington St & W Columbus St/Diveway	B	Signalized				B	Signalized										

Notes:
 LOS = Level of Service
¹ = HCM cannot analyze the geometry at this intersection
 DNE = Intersection does not exist in this condition
 NA = Not Applicable for this condition

Weekday PM Peak		BUILD					Volume Screening Threshold				
#	Intersection	Signalization	Avg Speed (mph)	Speed Bin	Approach	Volume	Build Cruise EF g/mi	Cruise EF g/mi	Queue EF g/hr	Threshold	Pass?
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	Signalized	5	2	EB	2,372	3.874	3.874	9.97	4,000	PASS
					WB	2,419				4,000	PASS
					NB	817				4,000	PASS
					SB	210				4,000	PASS
					Total	5,818					
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	Signalized	7	2	EB	1,640	3.874	3.874	9.97	4,000	PASS
					WB	1,710				4,000	PASS
					NB	666				4,000	PASS
					SB	1,405				4,000	PASS
					Total	5,421					
15	Hempstead Tpke at Park Blvd/East Meadow Ave	Signalized	4	2	EB	1,961	3.874	3.874	9.97	4,000	PASS
					WB	1,789				4,000	PASS
					NB	382				4,000	PASS
					SB	958				4,000	PASS
					Total	5,090					
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	Unsignalized	46	10	EB	2,745	1.342	1.342		8,000	PASS
					WB	1,580				8,000	PASS
					SB	876				8,000	PASS
					Total	5,201					
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	Unsignalized	12	3	EB	1,340	2.839	2.839		8,000	PASS
					WB	1,614				8,000	PASS
					NB	488				8,000	PASS
					SB	602				8,000	PASS
					Total	4,044					

Weekday PM Peak		No Build				Build with Mitigation					10% or more increase in traffic volume	a 20% reduction in speed, when build estimated average speed is at or < 30 mph		a 10% or more increase in vehicle emissions for the Build Year			
#	Intersection	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	% Change	Speed <=30?	% Change	No Build Cruise EG g/mi	Build Cruise EF g/mi	% Change
1	Hempstead Tpke & James Doolittle Blvd	A	Unsignalized				A	Unsignalized									
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	D	Signalized	8	3	4,996	E	Signalized	7	2	5,772	16%	Less than 30	-13%	2,839	3,874	36%
3	Cunningham Ave & Hempstead Tpke	A	Signalized				A	Signalized									
4	Hempstead Tpke & MSK Entrance	A	Signalized				A	Signalized									
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	E	Signalized	9	3	5,005	E	Signalized	10	3	5,467	9%	Less than 30	11%	2,839	2,839	0%
6	Earle Ovington Blvd/Earle Ovington Blvd & East Gate Rd/Nassau Coliseum Access	B	Signalized				C	Signalized									
7	Earle Ovington Blvd & Charles Lindbergh Blvd EB/Nassau Coliseum Access	C	Signalized				C	Signalized									
8	Earle Ovington Blvd & Charles Lindbergh Blvd WB/Charles Lindbergh Blvd	C	Signalized				B	Signalized									
9	James Doolittle Blvd & Charles Lindbergh Blvd	Note 1	Unsignalized				A	Unsignalized									
10	Charles Lindbergh Blvd & Perimeter Rd	Note 1	Unsignalized				A	Unsignalized									
11	Charles Lindbergh Blvd & Merrick Ave	B	Signalized				B	Signalized									
12	Merrick Ave & Hempstead Tpke	E	Signalized	7	2	5,569	E	Signalized	8	3	5,684	2%	Less than 30	14%	3,874	2,839	-27%
13	Hempstead Tpke at Eisenhower Park Rd Entrance	A	Signalized				A	Signalized									
14	Hempstead Tpke at Coolidge Dr	A	Signalized				A	Signalized									
15	Hempstead Tpke at Park Blvd/East Meadow Ave	E	Signalized	5	2	4,985	E	Signalized	5	2	5,090	2%	Less than 30	0%	3,874	3,874	0%
16	Merrick Ave & Glen Curtiss Blvd/Peters Gate	B	Signalized				B	Signalized									
17	California Ave/Hofstra Blvd & Hempstead Tpke	C	Signalized				C	Signalized									
18	Hempstead Tpke at Oak St/Hofstra Blvd	D	Signalized	11	3	3,673	D	Signalized	11	3	3,736	2%	Less than 30	0%	2,839	2,839	0%
19	Front St at Merrick Ave	D	Signalized	9	3	3,795	D	Signalized	9	3	3,805	0%	Less than 30	0%	2,839	2,839	0%
20	Front St at Uniondale Ave	D	Signalized	6	2	2,592	D	Signalized	5	2	2,628	1%	Less than 30	-17%	3,874	3,874	0%
21	Front St at California Ave	B	Signalized				B	Signalized									
22	Fulton Ave at Peninsula Blvd/Bennett Ave	C	Signalized				C	Signalized									
23	Fulton Ave at Clinton St	D	Signalized	7	2	3,787	D	Signalized	7	2	3,845	2%	Less than 30	0%	3,874	3,874	0%
24	Fulton Ave at N Franklin St	D	Signalized	6	2	3,899	D	Signalized	6	2	3,946	1%	Less than 30	0%	3,874	3,874	0%
25	Stewart Ave at Franklin Ave	F	Signalized	2	1	4,704	F	Signalized	3	2	4,754	1%	Less than 30	50%	5,947	3,874	-35%
26	Old Country Rd at Franklin Ave/ Mineola Blvd	D	Signalized	5	2	4,498	E	Signalized	5	2	4,595	2%	Less than 30	0%	3,874	3,874	0%
27	Old Country Rd at Clinton Ave/Glen Cove Rd	D	Signalized	6	2	6,712	D	Signalized	6	2	6,818	2%	Less than 30	0%	3,874	3,874	0%
28	Old Country Rd at Merchants Concourse/Ellison Ave	D	Signalized	9	3	4,375	D	Signalized	9	3	4,386	0%	Less than 30	0%	2,839	2,839	0%
29	Old Country Rd at Merrick Ave/Post Ave	F	Signalized	5	2	6,289	F	Signalized	5	2	6,354	1%	Less than 30	0%	3,874	3,874	0%
30	Merrick Ave at Stewart Ave/ Park Blvd	E	Signalized	7	2	4,733	E	Signalized	7	2	4,796	1%	Less than 30	0%	3,874	3,874	0%
31	Stewart Ave at Endo Blvd/Merchants Concourse	E	Signalized	9	3	4,892	E	Signalized	9	3	4,896	0%	Less than 30	0%	2,839	2,839	0%
32	Stewart Ave at Quentin Roosevelt Blvd/South St	D	Signalized	8	3	5,165	D	Signalized	8	3	5,181	0%	Less than 30	0%	2,839	2,839	0%
33	Stewart Ave at Clinton Rd	F	Signalized	3	2	5,378	F	Signalized	3	2	5,395	0%	Less than 30	0%	3,874	3,874	0%
34	Oak St at Commercial Ave	B	Signalized				B	Signalized									
35	Quentin Roosevelt Blvd & Commercial Ave	B	Signalized				B	Signalized									
36	Meadow St at Charles Lindbergh Blvd	B	Signalized				B	Signalized									
37	Charles Lindbergh Blvd at WB U-turn (near Earle Ovington Blvd)	N/A	Unsignalized	44	10	1,605	DNE										
38	Coliseum North Exit Gate and Charles Lindbergh EB	N/A	Unsignalized	30	7	1,606	DNE										
39	Earle Ovington Blvd at Coliseum Media/Staff Parking	N/A	Unsignalized	35	8	1,769	N/A										
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	B	Unsignalized				B	Unsignalized									
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	F	Unsignalized	14	4	3,636	F	Unsignalized	12	3	4,044	11%	Less than 30	-14%	2,491	2,839	14%
42	Hempstead Tpke at EB /Meadowbrook Pkwy SB Off Ramp	B	Unsignalized				A	Unsignalized									
43	Hempstead Tpke at EB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized									
44	Hempstead Tpke at Front Street	C	Signalized				C	Signalized									
45	Hempstead Tpke at Carman Ave	E	Signalized	6	2	5,108	E	Signalized	6	2	5,194	2%	Less than 30	0%	3,874	3,874	0%
46	Hempstead Tpke at Newbridge Rd	E	Signalized	6	2	5,655	E	Signalized	6	2	5,737	1%	Less than 30	0%	3,874	3,874	0%
47	Merrick Ave at Bellmore Ave	B	Signalized				B	Signalized									
48	Merrick Ave at North Jerusalem Rd	B	Signalized				B	Signalized									
49	Merrick Ave at Jerusalem Ave	D	Signalized	4	2	3,068	D	Signalized	4	2	3,078	0%	Less than 30	0%	3,874	3,874	0%
50	Uniondale Ave at Jerusalem Rd	D	Signalized	5	2	2,905	D	Signalized	5	2	2,919	0%	Less than 30	0%	3,874	3,874	0%
51	Uniondale Ave at Nassau Rd	C	Signalized				C	Signalized									
52	Stewart Ave at Ring Road West (Roosevelt Field)	B	Signalized				B	Signalized									

	Weekday PM Peak	No Build					Build with Mitigation					10% or more increase in traffic volume	a 20% reduction in speed, when build estimated average speed is at or < 30 mph	a 10% or more increase in vehicle emissions for the Build Year			
		D	Signalized	6	2	5,180	D	Signalized	6	2	5,287			2%	Less than 30	0%	3.874
53	Old Country Rd at Roosevelt Field Entrance	D	Signalized	6	2	5,180	D	Signalized	6	2	5,287	2%	Less than 30	0%	3.874	3.874	0%
54	Old Country Rd at Salisbury Park Dr/School St	E	Signalized	5	2	4,580	E	Signalized	5	2	4,685	2%	Less than 30	0%	3.874	3.874	0%
55	Merrick Ave at Corporate Dr	F	Signalized				C	Signalized									
56	Merrick Ave at Privado Rd	E	Signalized				A	Signalized									
57	Jericho Tpke at Post Ave	F	Signalized	2	1	4,697	F	Signalized	2	1	4,739	1%	Less than 30	0%	5.947	5.947	0%
58	Main St at Franklin Ave	B	Signalized				B	Signalized									
59	Main St at Meadow St	A	Unsignalized				A	Unsignalized									
60	Meadow St at Washington Ave	B	Signalized				B	Signalized									
61	Meadow St at Clinton Rd	B	Signalized				B	Signalized									
62	Meadow St at Lindbergh St	A	Unsignalized				A	Unsignalized									
63	Westbury Blvd at Lindbergh St	A	Unsignalized				A	Unsignalized									
64	Westbury Blvd at Oak St/Meadow St	E	Signalized				C	Signalized									
67	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized									
68	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				B	Unsignalized									
69	Hempstead Tpke at WB /Meadowbrook Pkwy SB On Ramp	B	Unsignalized				B	Unsignalized									
70	Hempstead Tpke at WB /Meadowbrook Pkwy NB On Ramp	B	Unsignalized				A	Unsignalized									
71	Charles Lindbergh Blvd EB at Meadowbrook Pkwy SB On Ramp	A	Unsignalized				C	Unsignalized									
72	Charles Lindbergh Blvd EB at Meadowbrook Pkwy NB On Ramp	A	Unsignalized				A	Unsignalized									
73	Charles Lindbergh Blvd WB at Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized									
74	Charles Lindbergh Blvd WB at Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized									
79	Hempstead Turnpike at Franklin Ave/Perimeter E/Hospital St	B	Signalized				B	Signalized									
82	Peninsula Blvd at Fulton Ave	A	Unsignalized				A	Unsignalized									
144	Peninsula Blvd	A	Signalized				A	Signalized									
261	Hempstead Turnpike	A	Unsignalized				A	Unsignalized									
263	Hempstead Turnpike	A	Unsignalized				A	Unsignalized									
360	Charles Lindbergh Blvd at Sands Ave	DNE					C	Signalized									
400	James Doolittle Blvd & Parking F	DNE					A	Unsignalized									
401	James Doolittle Blvd	N/A	Unsignalized				A	Unsignalized									
402	James Doolittle Blvd & Exist Hotel Access	N/A	Unsignalized				A	Unsignalized									
403	James Doolittle Blvd & Marriott Driveway	DNE					A	Unsignalized									
404	James Doolittle Blvd & Parking E	N/A	Unsignalized				A	Unsignalized									
406	Sands Avenue	DNE					A	Signalized									
408	East Dr/ Sands Ave at North Ave	DNE					B	Signalized									
409	Sands Ave at Parking E	DNE					A	Unsignalized									
410	East Dr/ Sands Ave at North Ave	N/A	Signalized				A	Signalized									
411	West Dr & Garage C	DNE					A	Unsignalized									
413	Parking & Nassau Coliseum Access/ South Dr	N/A	Unsignalized				A	Unsignalized									
414	MSK/South Dr	N/A	Unsignalized				A	Unsignalized									
415	South Dr	N/A	Signalized				A	Signalized									
416	Valet Below Mice/Garage A & Nassau Coliseum Access/North Drive	N/A	Signalized				A	Signalized									
417	North Dr & Rideshare Entrance	DNE					A	Signalized									
419	South Dr	N/A	Unsignalized				A	Unsignalized									
420	Washington St & W Columbus St/Diveway	B	Signalized				B	Signalized									

Notes:
 LOS = Level of Service
¹ = HCM cannot analyze the geometry at this intersection
 DNE = Intersection does not exist in this condition
 NA = Not Applicable for this condition

Weekday PM Peak		BUILD WITH MITIGATION					Volume Screening Threshold				
#	Intersection	Signalization	Avg Speed (mph)	Speed Bin	Approach	Volume	Build Cruise EF g/mi	Cruise EF g/mi	Queue EF g/hr	Threshold	Pass?
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	Signalized	7	2	EB	2,372	3.874	3.874	9.97	4,000	PASS
					WB	2,373				4,000	PASS
					NB	817				4,000	PASS
					SB	210				4,000	PASS
					Total	5,772					
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	Unsignalized	12	3	EB	1,340	2.839	2.839		8,000	PASS
					WB	1,614				8,000	PASS
					NB	488				8,000	PASS
					SB	602				8,000	PASS
					Total	4,044					

Saturday Evening Peak		No Build				Build					10% or more increase in traffic volume	a 20% reduction in speed, when build estimated average speed is at or < 30 mph	a 10% or more increase in vehicle emissions for the Build Year				
#	Intersection	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	% Change	Speed <=30?	% Change	No Build Cruise EG g/mi	Build Cruise EF g/mi	% Change
1	Hempstead Tpke & James Doolittle Blvd	A	Unsignalized				A	Unsignalized									
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	A	Signalized				B	Signalized									
3	Cunningham Ave & Hempstead Tpke	A	Signalized				A	Signalized									
4	Hempstead Tpke & MSK Entrance	A	Signalized				A	Signalized									
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	D	Signalized	13	4	2,553	D	Signalized	11	3	3,174	24%	Less than 30	-15%	2,492	2,841	14%
6	Earle Ovington Blvd/Earle Ovington Blvd & East Gate Rd/Nassau Coliseum Access	A	Signalized				C	Signalized									
7	Earle Ovington Blvd & Charles Lindbergh Blvd EB/Nassau Coliseum Access	A	Signalized				B	Signalized									
8	Earle Ovington Blvd & Charles Lindbergh Blvd WB/Charles Lindbergh Blvd	B	Signalized				B	Signalized									
9	James Doolittle Blvd & Charles Lindbergh Blvd	Note 1	Unsignalized				A	Unsignalized									
10	Charles Lindbergh Blvd & Perimeter Rd	Note 1	Unsignalized				A	Unsignalized									
11	Charles Lindbergh Blvd & Merrick Ave	A	Signalized				A	Signalized									
12	Merrick Ave & Hempstead Tpke	D	Signalized	11	3	3,083	D	Signalized	11	3	3,247	5%	Less than 30	0%	2,841	2,841	0%
13	Hempstead Tpke at Eisenhower Park Rd Entrance	A	Signalized				A	Signalized									
14	Hempstead Tpke at Coolidge Dr	A	Signalized				A	Signalized									
15	Hempstead Tpke at Park Blvd/East Meadow Ave	C	Signalized				C	Signalized									
16	Merrick Ave & Glen Curtiss Blvd/Peters Gate	A	Signalized				A	Signalized									
17	California Ave/Hofstra Blvd & Hempstead Tpke	B	Signalized				B	Signalized									
18	Hempstead Tpke at Oak St/Hofstra Blvd	B	Signalized				B	Signalized									
19	Front St at Merrick Ave	C	Signalized				C	Signalized									
20	Front St at Uniondale Ave	C	Signalized				C	Signalized									
21	Front St at California Ave	A	Signalized				A	Signalized									
22	Fulton Ave at Peninsula Blvd/Bennett Ave	C	Signalized				C	Signalized									
23	Fulton Ave at Clinton St	C	Signalized				C	Signalized									
24	Fulton Ave at N Franklin St	C	Signalized				C	Signalized									
25	Stewart Ave at Franklin Ave	C	Signalized				C	Signalized									
26	Old Country Rd at Franklin Ave/ Mineola Blvd	C	Signalized				C	Signalized									
27	Old Country Rd at Clinton Ave/Glen Cove Rd	D	Signalized	9	3	4,351	D	Signalized	9	3	4,521	4%	Less than 30	0%	2,841	2,841	0%
28	Old Country Rd at Merchants Concourse/Elison Ave	C	Signalized				C	Signalized									
29	Old Country Rd at Merrick Ave/Post Ave	D	Signalized	11	3	3,367	D	Signalized	10	3	3,452	3%	Less than 30	-9%	2,841	2,841	0%
30	Merrick Ave at Stewart Ave/ Park Blvd	C	Signalized				C	Signalized									
31	Stewart Ave at Endo Blvd/Merchants Concourse	C	Signalized				C	Signalized									
32	Stewart Ave at Quentin Roosevelt Blvd/South St	C	Signalized				C	Signalized									
33	Stewart Ave at Clinton Rd	D	Signalized	7	2	2,615	D	Signalized	7	2	2,650	1%	Less than 30	0%	3,878	3,878	0%
34	Oak St at Commercial Ave	A	Signalized				A	Signalized									
35	Quentin Roosevelt Blvd & Commercial Ave	A	Signalized				A	Signalized									
36	Meadow St at Charles Lindbergh Blvd	A	Signalized				A	Signalized									
37	Charles Lindbergh Blvd at WB U-turn (near Earle Ovington Blvd)	N/A	Unsignalized				DNE	Unsignalized									
38	Coliseum North Exit Gate and Charles Lindbergh EB	N/A	Unsignalized				DNE	Unsignalized									
39	Earle Ovington Blvd at Coliseum Media/Staff Parking	N/A	Unsignalized				N/A	Unsignalized									
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized	46	10	2,086	F	Unsignalized	47	10	3,507	68%	Greater than 30		1,343	1,343	0%
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	B	Unsignalized				B	Unsignalized									
42	Hempstead Tpke at EB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized									
43	Hempstead Tpke at EB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized									
44	Hempstead Tpke at Front Street	B	Signalized				B	Signalized									
45	Hempstead Tpke at Carman Ave	D	Signalized	11	3	2,515	D	Signalized	11	3	2,637	5%	Less than 30	0%	2,841	2,841	0%
46	Hempstead Tpke at Newbridge Rd	D	Signalized	8	3	3,056	D	Signalized	8	3	3,173	4%	Less than 30	0%	2,841	2,841	0%
47	Merrick Ave at Bellmore Ave	B	Signalized				B	Signalized									
48	Merrick Ave at North Jerusalem Rd	B	Signalized				B	Signalized									
49	Merrick Ave at Jerusalem Ave	C	Signalized				C	Signalized									
50	Uniondale Ave at Jerusalem Rd	C	Signalized				C	Signalized									
51	Uniondale Ave at Nassau Rd	C	Signalized				C	Signalized									
52	Stewart Ave at Ring Road West (Roosevelt Field)	A	Signalized				A	Signalized									
53	Old Country Rd at Roosevelt Field Entrance	D	Signalized	7	2	4,845	D	Signalized	7	2	5,005	3%	Less than 30	0%	3,878	3,878	0%

	Saturday Evening Peak	No Build				Build				10% or more increase in traffic volume	a 20% reduction in speed, when build estimated average speed is at or < 30 mph	a 10% or more increase in vehicle emissions for the Build Year			
54	Old Country Rd at Salisbury Park Dr/School St	C	Signalized					C	Signalized						
55	Merrick Ave at Corporate Dr	B	Signalized					B	Signalized						
56	Merrick Ave at Privado Rd	A	Signalized					A	Signalized						
57	Jericho Tpke at Post Ave	B	Signalized					C	Signalized						
58	Main St at Franklin Ave	A	Signalized					A	Signalized						
59	Main St at Meadow St	A	Unsignalized					A	Unsignalized						
60	Meadow St at Washington Ave	A	Signalized					A	Signalized						
61	Meadow St at Clinton Rd	A	Signalized					A	Signalized						
62	Meadow St at Lindbergh St	A	Unsignalized					A	Unsignalized						
63	Westbury Blvd at Lindbergh St	A	Unsignalized					A	Unsignalized						
64	Westbury Blvd at Oak St/Meadow St	B	Signalized					B	Signalized						
67	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized					A	Unsignalized						
68	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized					A	Unsignalized						
69	Hempstead Tpke at WB /Meadowbrook Pkwy SB On Ramp	A	Unsignalized					A	Unsignalized						
70	Hempstead Tpke at WB /Meadowbrook Pkwy NB On Ramp	A	Unsignalized					A	Unsignalized						
71	Charles Lindbergh Blvd EB at Meadowbrook Pkwy SB On Ramp	A	Unsignalized					A	Unsignalized						
72	Charles Lindbergh Blvd EB at Meadowbrook Pkwy NB On Ramp	A	Unsignalized					A	Unsignalized						
73	Charles Lindbergh Blvd WB at Meadowbrook Pkwy NB Off Ramp	A	Unsignalized					A	Unsignalized						
74	Charles Lindbergh Blvd WB at Meadowbrook Pkwy SB Off Ramp	A	Unsignalized					A	Unsignalized						
79	Hempstead Turnpike at Franklin Ave/Perimeter E/Hospital St	B	Signalized					B	Signalized						
82	Peninsula Blvd at Fulton Ave	A	Unsignalized					A	Unsignalized						
144	Peninsula Blvd	A	Signalized					A	Signalized						
261	Hempstead Turnpike	A	Unsignalized					A	Unsignalized						
263	Hempstead Turnpike	A	Unsignalized					A	Unsignalized						
360	Charles Lindbergh Blvd at Sands Ave	DNE						B	Signalized						
400	James Doolittle Blvd & Parking F	DNE						A	Unsignalized						
401	James Doolittle Blvd	N/A	Unsignalized					A	Unsignalized						
402	James Doolittle Blvd & Exist Hotel Access	N/A	Unsignalized					A	Unsignalized						
403	James Doolittle Blvd & Marriott Driveway	DNE						A	Unsignalized						
404	James Doolittle Blvd & Parking E	N/A	Unsignalized					A	Unsignalized						
406	Sands Avenue	DNE						A	Signalized						
408	East Dr/ Sands Ave at North Ave	DNE						C	Signalized						
409	Sands Ave at Parking E	DNE						A	Unsignalized						
410	East Dr/ Sands Ave at North Ave	N/A	Signalized					A	Signalized						
411	West Dr & Garage C	DNE						A	Unsignalized						
413	Parking & Nassau Coliseum Access/ South Dr	N/A	Unsignalized					A	Unsignalized						
414	MSK/South Dr	N/A	Unsignalized					A	Unsignalized						
415	South Dr	N/A	Signalized					A	Signalized						
416	Valet Below Mice/Garage A & Nassau Coliseum Access/North Drive	N/A	Signalized					A	Signalized						
417	North Dr & Rideshare Entrance	DNE						A	Signalized						
419	South Dr	N/A	Unsignalized					A	Unsignalized						
420	Washington St & W Columbus St/Diveway	A	Signalized					A	Signalized						

Notes:
 LOS = Level of Service
 1 = HCM cannot analyze the geometry at this intersection
 DNE = Intersection does not exist in this condition
 NA = Not Applicable for this condition

Saturday Evening Peak		BUILD					Volume Screening Threshold				
#	Intersection	Signalization	Avg Speed (mph)	Speed Bin	Approach	Volume	Build Cruise EF g/mi	Cruise EF g/mi	Queue EF g/hr	Threshold	Pass?
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	Signalized	11	3	EB	824	2.841	2.841	9.97	4,000	PASS
					WB	1,106				4,000	PASS
					NB	332				4,000	PASS
					SB	912				4,000	PASS
					Total	3,174					
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	Unsignalized	47	10	EB	1,605	1.343	1.343		8,000	PASS
					WB	1,450				8,000	PASS
					SB	452				8,000	PASS
					Total	3,507					

Saturday Evening Peak		No Build					Build with Mitigation					10% or more increase in traffic volume	a 20% or more reduction in speed, when build estimated average speed is at or < 30 mph		a 10% or more increase in vehicle emissions for the Build Year		
#	Intersection	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	LOS	Signalization	Avg Speed (mph)	Speed Bin	Volume	% Change	Speed <=30?	% Change	No Build Cruise EG g/mi	Build Cruise EF g/mi	% Change
1	Hempstead Tpke & James Doolittle Blvd	A	Unsignalized				A	Unsignalized									
2	Glen Curtiss Blvd/Nassau Coliseum Access & Hempstead Tpke	A	Signalized				B	Signalized									
3	Gunningham Ave & Hempstead Tpke	A	Signalized				A	Signalized									
4	Hempstead Tpke & MSK Entrance	A	Signalized				A	Signalized									
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	D	Signalized	13	4	2,553	D	Signalized	13	4	3,184	25%	Less than 30	0%	2,492	2,492	0%
6	Earle Ovington Blvd/Earle Ovington Blvd & East Gate Rd/Nassau Coliseum Access	A	Signalized				C	Signalized									
7	Earle Ovington Blvd & Charles Lindbergh Blvd EB/Nassau Coliseum Access	A	Signalized				B	Signalized									
8	Earle Ovington Blvd & Charles Lindbergh Blvd WB/Charles Lindbergh Blvd	B	Signalized				A	Signalized									
9	James Doolittle Blvd & Charles Lindbergh Blvd	Note 1	Unsignalized				A	Unsignalized									
10	Charles Lindbergh Blvd & Perimeter Rd	Note 1	Unsignalized				A	Unsignalized									
11	Charles Lindbergh Blvd & Merrick Ave	A	Signalized				A	Signalized									
12	Merrick Ave & Hempstead Tpke	D	Signalized	11	3	3,083	D	Signalized	11	3	3,247	5%	Less than 30	0%	2,841	2,841	0%
13	Hempstead Tpke at Eisenhower Park Rd Entrance	A	Signalized				A	Signalized									
14	Hempstead Tpke at Coolidge Dr	A	Signalized				A	Signalized									
15	Hempstead Tpke at Park Blvd/East Meadow Ave	C	Signalized				C	Signalized									
16	Merrick Ave & Glen Curtiss Blvd/Peters Gate	A	Signalized				A	Signalized									
17	California Ave/Hofstra Blvd & Hempstead Tpke	B	Signalized				B	Signalized									
18	Hempstead Tpke at Oak St/Hofstra Blvd	B	Signalized				B	Signalized									
19	Front St at Merrick Ave	C	Signalized				C	Signalized									
20	Front St at Uniondale Ave	C	Signalized				C	Signalized									
21	Front St at California Ave	A	Signalized				A	Signalized									
22	Fulton Ave at Peninsula Blvd/Bennett Ave	C	Signalized				C	Signalized									
23	Fulton Ave at Clinton St	C	Signalized				C	Signalized									
24	Fulton Ave at N Franklin St	C	Signalized				C	Signalized									
25	Stewart Ave at Franklin Ave	C	Signalized				C	Signalized									
26	Old Country Rd at Franklin Ave/ Mineola Blvd	C	Signalized				C	Signalized									
27	Old Country Rd at Clinton Ave/Glen Cove Rd	D	Signalized	9	3	4,351	D	Signalized	9	3	4,521	4%	Less than 30	0%	2,841	2,841	0%
28	Old Country Rd at Merchants Concourse/Ellison Ave	C	Signalized				C	Signalized									
29	Old Country Rd at Merrick Ave/Post Ave	D	Signalized	11	3	3,367	D	Signalized	10	3	3,452	3%	Less than 30	-9%	2,841	2,841	0%
30	Merrick Ave at Stewart Ave/ Park Blvd	C	Signalized				C	Signalized									
31	Stewart Ave at Endo Blvd/Merchants Concourse	C	Signalized				C	Signalized									
32	Stewart Ave at Quentin Roosevelt Blvd/South St	C	Signalized				C	Signalized									
33	Stewart Ave at Clinton Rd	D	Signalized	7	2	2,615	D	Signalized	7	2	2,650	1%	Less than 30	0%	3,878	3,878	0%
34	Oak St at Commercial Ave	A	Signalized				A	Signalized									
35	Quentin Roosevelt Blvd & Commercial Ave	A	Signalized				A	Signalized									
36	Meadow St at Charles Lindbergh Blvd	A	Signalized				A	Signalized									
37	Charles Lindbergh Blvd at WB U-turn (near Earle Ovington Blvd)	N/A	Unsignalized	42	9	-	DNE										
38	Coliseum North Exit Gate and Charles Lindbergh EB	N/A	Unsignalized	30	7	-	DNE										
39	Earle Ovington Blvd at Coliseum Media/Staff Parking	N/A	Unsignalized	35	8	-	N/A										
40	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized									
41	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	B	Unsignalized				B	Unsignalized									
42	Hempstead Tpke at EB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized				A	Unsignalized									
43	Hempstead Tpke at EB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized				A	Unsignalized									
44	Hempstead Tpke at Front Street	B	Signalized				B	Signalized									
45	Hempstead Tpke at Carman Ave	D	Signalized	11	3	2,515	D	Signalized	11	3	2,637	5%	Less than 30	0%	2,841	2,841	0%
46	Hempstead Tpke at Newbridge Rd	D	Signalized	8	3	3,056	D	Signalized	8	3	3,173	4%	Less than 30	0%	2,841	2,841	0%
47	Merrick Ave at Bellmore Ave	B	Signalized				B	Signalized									
48	Merrick Ave at North Jerusalem Rd	B	Signalized				B	Signalized									
49	Merrick Ave at Jerusalem Ave	C	Signalized				C	Signalized									
50	Uniondale Ave at Jerusalem Rd	C	Signalized				C	Signalized									
51	Uniondale Ave at Nassau Rd	C	Signalized				C	Signalized									
52	Stewart Ave at Ring Road West (Roosevelt Field)	A	Signalized				A	Signalized									
53	Old Country Rd at Roosevelt Field Entrance	D	Signalized	7	2	4,845	D	Signalized	7	2	5,005	3%	Less than 30	0%	3,878	3,878	0%
54	Old Country Rd at Salisbury Park Dr/School St	C	Signalized				C	Signalized									

Saturday Evening Peak		No Build				Build with Mitigation				10% or more increase in traffic volume	a 20% or more reduction in speed, when build estimated average speed is at or < 30 mph	a 10% or more increase in vehicle emissions for the Build Year
55	Merrick Ave at Corporate Dr	B	Signalized			B	Signalized					
56	Merrick Ave at Privado Rd	A	Signalized			A	Signalized					
57	Jericho Tpke at Post Ave	B	Signalized			C	Signalized					
58	Main St at Franklin Ave	A	Signalized			A	Signalized					
59	Main St at Meadow St	A	Unsignalized			A	Unsignalized					
60	Meadow St at Washington Ave	A	Signalized			A	Signalized					
61	Meadow St at Clinton Rd	A	Signalized			A	Signalized					
62	Meadow St at Lindbergh St	A	Unsignalized			A	Unsignalized					
63	Westbury Blvd at Lindbergh St	A	Unsignalized			A	Unsignalized					
64	Westbury Blvd at Oak St/Meadow St	B	Signalized			B	Signalized					
67	Hempstead Tpke at WB /Meadowbrook Pkwy SB Off Ramp	A	Unsignalized			A	Unsignalized					
68	Hempstead Tpke at WB /Meadowbrook Pkwy NB Off Ramp	A	Unsignalized			A	Unsignalized					
69	Hempstead Tpke at WB /Meadowbrook Pkwy SB On Ramp	A	Unsignalized			A	Unsignalized					
70	Hempstead Tpke at WB /Meadowbrook Pkwy NB On Ramp	A	Unsignalized			A	Unsignalized					
71	Charles Lindbergh Blvd EB at Meadowbrook Pkwy SB On Ramp	A	Unsignalized			A	Unsignalized					
72	Charles Lindbergh Blvd EB at Meadowbrook Pkwy NB On Ramp	A	Unsignalized			A	Unsignalized					
73	Charles Lindbergh Blvd WB at Meadowbrook Pkwy NB Off Ramp	A	Unsignalized			A	Unsignalized					
74	Charles Lindbergh Blvd WB at Meadowbrook Pkwy SB Off Ramp	A	Unsignalized			A	Unsignalized					
79	Hempstead Turnpike at Franklin Ave/Perimeter E/Hospital St	B	Signalized			B	Signalized					
82	Peninsula Blvd at Fulton Ave	A	Unsignalized			A	Unsignalized					
144	Peninsula Blvd	A	Signalized			A	Signalized					
261	Hempstead Turnpike	A	Unsignalized			A	Unsignalized					
263	Hempstead Turnpike	A	Unsignalized			A	Unsignalized					
300	Charles Lindbergh Blvd at Sands Ave	DNE				B	Signalized					
400	James Doolittle Blvd & Parking F	DNE				A	Unsignalized					
401	James Doolittle Blvd	N/A	Unsignalized			A	Unsignalized					
402	James Doolittle Blvd & Exist Hotel Access	N/A	Unsignalized			A	Unsignalized					
403	James Doolittle Blvd & Marriott Driveway	DNE				A	Unsignalized					
404	James Doolittle Blvd & Parking E	N/A	Unsignalized			A	Unsignalized					
406	Sands Avenue	DNE				A	Signalized					
408	East Dr/ Sands Ave at North Ave	DNE				C	Signalized					
409	Sands Ave at Parking E	DNE				A	Unsignalized					
410	East Dr/ Sands Ave at North Ave	N/A	Signalized			A	Signalized					
411	West Dr & Garage C	DNE				A	Unsignalized					
413	Parking & Nassau Coliseum Access/ South Dr	N/A	Unsignalized			A	Unsignalized					
414	MSK/South Dr	N/A	Unsignalized			A	Unsignalized					
415	South Dr	N/A	Signalized			A	Signalized					
416	Valet Below Mice/Garage A & Nassau Coliseum Access/North Drive	N/A	Signalized			A	Signalized					
417	North Dr & Radeshare Entrance	DNE				A	Signalized					
419	South Dr	N/A	Unsignalized			A	Unsignalized					
420	Washington St & W Columbus St/Diveway	A	Signalized			A	Signalized					

Notes:
 LOS = Level of Service
¹ = HCM cannot analyze the geometry at this intersection
 DNE = Intersection does not exist in this condition
 NA = Not Applicable for this condition

Saturday Evening Peak		BUILD WITH MITIGATION					Volume Screening Threshold				
#	Intersection	Signalization	Avg Speed (mph)	Speed Bin	Approach	Volume	Build Cruise EF g/mi	Cruise EF g/mi	Queue EF g/hr	Threshold	Pass?
5	Uniondale Ave/ Earle Ovington Blvd & Hempstead Tpke	Signalized	13	4	EB	824	2.492	2.492	9.97	4,000	PASS
					WB	1,116				4,000	PASS
					NB	332				4,000	PASS
					SB	912				4,000	PASS
					Total	3,184					

MOVES WEEKDAY PM

hourID	processID	roadTypeID	avgSpeedBinID	ratePerDistance
18	1	1	0	2.14625
18	15	1	0	0.00426975
18	1	5	1	5.94245
18	15	5	1	0.00417364
18	1	5	2	3.87152
18	15	5	2	0.00260076
18	1	5	3	2.83765
18	15	5	3	0.0018382
18	1	5	4	2.48912
18	15	5	4	0.00157798
18	1	5	5	2.21412
18	15	5	5	0.00138529
18	1	5	6	1.85719
18	15	5	6	0.00116938
18	1	5	7	1.75483
18	15	5	7	0.00109404
18	1	5	8	1.58634
18	15	5	8	0.000986368
18	1	5	9	1.43845
18	15	5	9	0.000896457
18	1	5	10	1.34145
18	15	5	10	0.000835902
18	1	5	11	1.29434
18	15	5	11	0.000802689
18	1	5	12	1.28784
18	15	5	12	0.000791942
18	1	5	13	1.32369
18	15	5	13	0.000801335
18	1	5	14	1.42427
18	15	5	14	0.000847409
18	1	5	15	1.65266
18	15	5	15	0.000960956
18	1	5	16	2.14872
18	15	5	16	0.00121395

Speed bin	Min Speed	Max Speed	Total g/mi
1		2.5	5.946624
2	2.5	7.5	3.874121
3	7.5	12.5	2.839488
4	12.5	17.5	2.490698
5	17.5	22.5	2.215505
6	22.5	27.5	1.858359
7	27.5	32.5	1.755924
8	32.5	37.5	1.587326
9	37.5	42.5	1.439346
10	42.5	47.5	1.342286
11	47.5	52.5	1.295143
12	52.5	57.5	1.288632
13	57.5	62.5	1.324491
14	62.5	67.5	1.425117
15	67.5	72.5	1.653621
16	72.5		2.149934

Road Type

ID	Road Type
1	Off-Network
2	Rural Restricted Access
3	Rural Unrestricted Access
4	Urban Restricted Access
5	Urban Unrestricted Access

Speed Bin

ID	Speed Bin Range
1	Speed < 2.5 mph
2	2.5 mph ≤ Speed < 7.5 mph
3	7.5 mph ≤ Speed < 12.5 mph
4	12.5 mph ≤ Speed < 17.5 mph
5	17.5 mph ≤ Speed < 22.5 mph
6	22.5 mph ≤ Speed < 27.5 mph
7	27.5 mph ≤ Speed < 32.5 mph
8	32.5 mph ≤ Speed < 37.5 mph
9	37.5 mph ≤ Speed < 42.5 mph
10	42.5 mph ≤ Speed < 47.5 mph
11	47.5 mph ≤ Speed < 52.5 mph
12	52.5 mph ≤ Speed < 57.5 mph
13	57.5 mph ≤ Speed < 62.5 mph
14	62.5 mph ≤ Speed < 67.5 mph
15	67.5 mph ≤ Speed < 72.5 mph
16	72.5 mph ≤ Speed
0	Output only, used for Off-Network Idling and Project Scale

MOVES SATURDAY EVENING

hourID processID roadTypeIC avgSpeedB ratePerDistance

20	1	1	0	2.31731
21	1	1	0	2.30714
20	15	1	0	0.004852
21	15	1	0	0.00482
20	1	5	1	5.94911
21	1	5	1	5.94894
20	15	5	1	0.004242
21	15	5	1	0.00424
20	1	5	2	3.87489
21	1	5	2	3.87487
20	15	5	2	0.002638
21	15	5	2	0.002637
20	1	5	3	2.83945
21	1	5	3	2.83948
20	15	5	3	0.001861
21	15	5	3	0.00186
20	1	5	4	2.49018
21	1	5	4	2.49024
20	15	5	4	0.001596
21	15	5	4	0.001595
20	1	5	5	2.21467
21	1	5	5	2.21472
20	15	5	5	0.0014
21	15	5	5	0.001399
20	1	5	6	1.85781
21	1	5	6	1.85784
20	15	5	6	0.001182
21	15	5	6	0.001182
20	1	5	7	1.7555
21	1	5	7	1.7555
20	15	5	7	0.001105
21	15	5	7	0.001105
20	1	5	8	1.58712
21	1	5	8	1.58707

mph	mph		
Speed bin	Min Speed	Max Speed	Total g/mi
1		2.5	5.953309
2	2.5	7.5	3.877523
3	7.5	12.5	2.841318
4	12.5	17.5	2.49179
5	17.5	22.5	2.216082
6	22.5	27.5	1.858999
7	27.5	32.5	1.756605
8	32.5	37.5	1.588104
9	37.5	42.5	1.440333
10	42.5	47.5	1.343405
11	47.5	52.5	1.296276
12	52.5	57.5	1.289725
13	57.5	62.5	1.325686
14	62.5	67.5	1.427105
15	67.5	72.5	1.656084
16	72.5		2.152376

Idle 9.86367 g/hr
0.105851 g/hr
9.969521 g/hr

Road Type

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1	Off-Network
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3	Rural Unrestricted Access
4	Urban Restricted Access
5	Urban Unrestricted Access

Speed Bin

ID	Speed Bin Range
1	Speed < 2.5 mph
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5	17.5 mph ≤ Speed < 22.5 mph
6	22.5 mph ≤ Speed < 27.5 mph
7	27.5 mph ≤ Speed < 32.5 mph
8	32.5 mph ≤ Speed < 37.5 mph
9	37.5 mph ≤ Speed < 42.5 mph
10	42.5 mph ≤ Speed < 47.5 mph
11	47.5 mph ≤ Speed < 52.5 mph
12	52.5 mph ≤ Speed < 57.5 mph
13	57.5 mph ≤ Speed < 62.5 mph
14	62.5 mph ≤ Speed < 67.5 mph
15	67.5 mph ≤ Speed < 72.5 mph
16	72.5 mph ≤ Speed
0	Output only, used for Off-Network Idling and Project Scale

MOVES SATURDAY EVENING

hourID processID roadTypeIC avgSpeedB ratePerDistance

20	15	5	8	0.000997
21	15	5	8	0.000996
20	1	5	9	1.43945
21	1	5	9	1.43936
20	15	5	9	0.000906
21	15	5	9	0.000906
20	1	5	10	1.34259
21	1	5	10	1.34247
20	15	5	10	0.000845
21	15	5	10	0.000845
20	1	5	11	1.2955
21	1	5	11	1.29536
20	15	5	11	0.000811
21	15	5	11	0.000811
20	1	5	12	1.28896
21	1	5	12	1.28882
20	15	5	12	0.0008
21	15	5	12	0.0008
20	1	5	13	1.32492
21	1	5	13	1.32475
20	15	5	13	0.000809
21	15	5	13	0.000809
20	1	5	14	1.42632
21	1	5	14	1.42604
20	15	5	14	0.000855
21	15	5	14	0.000855
20	1	5	15	1.65521
21	1	5	15	1.65483
20	15	5	15	0.000969
21	15	5	15	0.000968
20	1	5	16	2.15126
21	1	5	16	2.15084
20	15	5	16	0.001221
21	15	5	16	0.001221

MOVES Emissions	Per Vehicle Emissions (g/mile)	MOVES Link
Arriving	9.042 g/vehicle-mile	Link 2 (Ramp - In)
Departing	1.024 g/vehicle-mile	Link 3 (Ramp - Out)
MOVES Emissions	Exhaust	MOVES Link
Idling	1.40 g/vehicle-hour	Link 5 (Garage IDLE ON NETWORK)
Parking Garage Driving	3.74 g/veh-mile	Link 4

Constants and Conversion Factors	
Seconds per hour	3,600 s/hour
1 minute/hour	0.017 hour
Carbon monoxide molecular weight g/mol	28.01 g/mol
R @ 298K, 1 atm (m3 atm / K mol)	8.21E-05 m3 atm / K mol
Temperature (K)	298 K
Pressure (atm)	1 atm
Vertical dispersion coefficient	0.14
8-Hour Persistence Factor	0.7

Project Specific Inputs				
Facility Dimentions	Value	Unit	Conversion	Unit
Garage Length	960	ft		
Garage Width	348	ft		
Parking Garage Area (one floor)	279,792	ft^2	25,994	m^2
Average Distance Travelled	740.0	feet	0.140	miles
Parking lot width (at receptor)	264	ft	80.4672	meters
Idling Time in the Garage	1	min	0.0167	hr
Entrance/Exit Ramp Length	124	ft	0.0235	miles

Floor Ramp Information	ft	mi
Floor 1-2 Ramp Length	456	0.086
Floor 2-3 Ramp Length	312	0.059
Floor 3-4 Ramp Length	192	0.036
Floor 4-5 Ramp Length	216	0.041
Floor 5-6 Ramp Length	348	0.066
Floor 6-7 Ramp Length	216	0.041
Average Ramp Length	290	0.055

Parking Facility Specs					
# of Floors	7 count		Excess Vehicles Arriving	Excess Vehicles Departing	Height of Level (ft)
	Ins	Outs			
Total	1,225	1,156	-		
1st Floor	175	165	1,050	991	0
2nd Floor	175	165	875	826	14
3rd Floor	175	165	700	661	10.5
4th Floor	175	165	525	496	10.5
5th Floor	175	165	350	331	10.5
6th Floor	175	165	175	166	10.5
7th Floor	175	166	-	-	17.3

Receptor Details	Value	Unit	Value	Unit
Receptor distance, x ₁ (ft)	24	feet	7.3	m
Receptor distance, x ₂ (ft)	96	feet	29.3	m

σ _{z1}	1.02	
X _{u1}	87.8	meters
X _{d1}	7.3	meters
X ₀₁	19.9	meters
r _{u1}	107.7	meters
r _{d1}	27.2	meters
σ _{z2}	4.10	
X _{u2}	109.7	meters
X _{d2}	29.3	meters
X ₀₂	19.9	meters
r _{u2}	129.6	meters
r _{d2}	49.2	meters

Describes cars entering facility per floor
 Describes arriving cars driving around per floor (175 cars)
 Describes cars idling per floor (to be summed later)
 Describes leaving cars driving on first floor (165 cars)
 Describes cars exiting facility per floor

Emissions	g/s
Hot Vehicle - Arrive (Ramp in) (g/s)	1.03E-02
Hot vehicle - Driving in Garage Floor per floor (flat) (g/s)	2.55E-02
Cold Vehicle - Idling (g/s)	1.07E-03
Cold Vehicle - Driving in Garage Floor per floor (Flat) (g/s)	2.40E-02
Cold Vehicle - Exiting Parking Facility (Ramp) (g/s)	1.10E-03

formula: (moves entering * total veh entering per hour * ramp length)/3600
 formula: (moves driving * total veh that enter one floor/hr * avg d travelled)/3600
 formula: 1 min idle * moves idle (g/veh-hr) * hr/min convert * # veh exiting/hr / seconds convert
 formula: (moves driving * total veh that exit per floor/hr * avg d travelled)/3600
 formula: (moves exit * total veh exiting her hour * ramp length)/3600

Level	Qexcess (includes hot and cold) (g/s)	Qa,Excess (g/m ² -s)	Qa, lvl Hot (g/m ² -s)	Qa, lvl Cold (g/m ² -s)	Qa, idle (g/m ² -s)	Qa, ramp in (g/m ² -s)	Qa, ramp out (g/m ² -s)	Qa, Total (g/m ² -s)
Level 1	0.252	9.70E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	1.21E-05
Level 2	0.210	8.08E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	1.05E-05
Level 3	0.168	6.47E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	8.85E-06
Level 4	0.126	4.85E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	7.24E-06
Level 5	0.084	3.23E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	5.62E-06
Level 6	0.042	1.62E-06	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	4.00E-06
Level 7	0.000	0	9.80E-07	9.24E-07	4.11E-08	3.98E-07	4.25E-08	2.39E-06

Receptor Concentration Constants	
a	0.5
b	0.77
Sigma Z (receptor 1)	1.02
Sigma Z (receptor 2)	4.10
Chi Calculations	
a(1-b)	0.115
ru^(1-b) (receptor 1)	2.9
rd^(1-b) (receptor 1)	2.1
ru^(1-b) (receptor 2)	3.1
rd^(1-b) (receptor 2)	2.4

Level	Delta z (ft)	Delta Z (Meters)	X bar, Receptor 1	X bar, Receptor 2
Level 1	-6	at grade, N/A	at grade, N/A	at grade, N/A
Level 2	8	2.4	5.87E-02	8.38E-01
Level 3	18.5	5.6	2.61E-07	3.88E-01
Level 4	29	8.8	6.67E-17	9.75E-02
Level 5	39.5	12.0	9.77E-31	1.33E-02
Level 6	50	15.2	8.21E-49	9.88E-04
Level 7	67.3	20.5	6.25E-88	3.55E-06

Receptor 1 Calculations	Qa, total (g/m ² -s)	Chi u/Qatotal	Chi Center Line	X bar	g/m ³ at receptor	PPM	PF * PPM (8hr)
Level 1	1.21E-05	5.53	6.69E-05	at grade, N/A	6.69E-05	5.84E-02	4.09E-02
Level 2	1.05E-05	5.53	5.79E-05	5.87E-02	3.40E-06	2.97E-03	2.08E-03
Level 3	8.85E-06	5.53	4.90E-05	2.61E-07	1.28E-11	1.12E-08	7.82E-09
Level 4	7.24E-06	5.53	4.00E-05	6.67E-17	2.67E-21	2.33E-18	1.63E-18
Level 5	5.62E-06	5.53	3.11E-05	9.77E-31	3.04E-35	2.65E-32	1.86E-32
Level 6	4.00E-06	5.53	2.22E-05	8.21E-49	1.82E-53	1.59E-50	1.11E-50
Level 7	2.39E-06	5.53	1.32E-05	6.25E-88	8.26E-93	7.21E-90	5.05E-90
					TOTAL	0.061	0.043

Receptor 2 Calculations	Qa, total (g/m ² -s)	Chi u/Qatotal	Chi Center Line	X bar	g/m ³ at receptor	PPM	PF * PPM (8hr)
Level 1	1.21E-05	4.26	5.14E-05	at grade, N/A	5.14E-05	4.49E-02	3.14E-02
Level 2	1.05E-05	4.26	4.46E-05	8.38E-01	3.73E-05	3.26E-02	2.28E-02
Level 3	8.85E-06	4.26	3.77E-05	3.88E-01	1.46E-05	1.28E-02	8.93E-03
Level 4	7.24E-06	4.26	3.08E-05	9.75E-02	3.00E-06	2.62E-03	1.84E-03
Level 5	5.62E-06	4.26	2.39E-05	1.33E-02	3.19E-07	2.78E-04	1.95E-04
Level 6	4.00E-06	4.26	1.70E-05	9.88E-04	1.68E-08	1.47E-05	1.03E-05
Level 7	2.39E-06	4.26	1.02E-05	3.55E-06	3.60E-11	3.14E-08	2.20E-08
					TOTAL	0.093	0.065

MOVES Emissions	Per Vehicle Emissions (g/mile)	Per Vehicle Emissions (g/m)
On-Street ₁	2.66	0.001653

Project Specific Analysis Input	Value	Unit
On-Street Peak Vehicle Volumes WB ₁	1236	veh / hr
On-Street Peak Vehicle Volumes EB ₁	712	veh / hr

Constants and Conversion Factors	Value
Carbon monoxide molecular weight g/mol	28.01
R @ 298K, 1 atm (m3 atm / K mol)	8.21E-05
Temperature (K)	280
Pressure (atm)	1
Conservative Factor for Line Source Impacts	307.7
Horizontal dispersion coefficient	0.16
Vertical dispersion coefficient	0.14
8-Hour Persistence Factor	0.7
CO 8-hr NAAQS (ppm)	9
Meters to miles	1609.344
Second per hour	3600

Equations and Outputs	Value	Units
Highest On-Street Emissions ₁	8.94E-04	g/s
Maximum impacts from line source (1-hour) ₁	0.275	ppm
Maximum impacts from line source (8-hours) ₁	0.193	ppm

Air Quality - Parking Analysis

Emissions	Value	Unit	
Departing Idle (Peak)	1.44E-03	g/s	
5 MPH Departing Auto (Peak)	4.77E-03	g/s	
5 MPH Arriving Auto (Peak)	4.76E-03	g/s	
15 MPH Local Mix Autos (Peak)	2.32E-05	g/m-s	
Departing Idle (8-Hour)	1.44E-03	g/s	
5 MPH Departing Auto (8-Hour)	4.77E-03	g/s	
5 MPH Arriving Auto (8-Hour)	4.76E-03	g/s	
MOVES Emissions	Per Vehicle Emissions (g/mile)	Per Vehicle Emissions (g/m)	MOVES Link
Parking Garage Driving	18.31		link 4 (Parking Lot)
Arriving	10.47		Link 2 (Ramp - In)
Departing	26.84		Link 3 (Ramp - Out)
Local roads	9.59	0.0060	Links 6 and 7
MOVES Emissions	Exhaust (g/veh-hr)		
Idling	28.27		Link 5 (Garage IDLE ON NETWORK)
1,609.34		m/mi	

Air Quality - Parking Analysis

Project Specific Analysis Input	Value	Unit	Value	Unit
Garage Length	360	ft		
Garage Width	192	ft		
Parking Garage Area	69,120	ft ²	6,421.46	m ²
Ramp Length	77.6	ft	0.0147	mi
Mean Travel	336.0	ft	0.0636	mi
Peak Hour Ins	13	veh / hr		
Peak Hour Outs	11	veh / hr		
8-hour Average Ins	13	veh / hr		
8-hour Average Outs	11	veh / hr		
On-Street Peak Vehicle Volumes WB	7	veh / hr		
On-Street Peak Vehicle Volumes EB	7	veh / hr		
Idling Time in the Garage	1	min	0.0167	hr
Number of vents	1	count		
Ventilation Rate / Garage Area	1	(ft ³ /min) / ft ²		
Ventilation Rate	69,120	ft ³ /min	32.6	m ³ /s
Vent height (compared to grade)	10	ft	3.0	m
Receptor height	6	ft	1.8	m
Receptor distance (mid adjacent sidewalk)	140	ft	42.7	m
Mean wind speed at pollutant release height (m/s)	1	m/s		

Air Quality - Parking Analysis

Constants and Conversion Factors	Value
Carbon monoxide molecular weight g/mol	28.01
R @ 298K, 1 atm (m ³ atm / K mol)	8.21E-05
Temperature (K)	298
Pressure (atm)	1
Conservative Factor for Line Source Impacts	307.7
Horizontal dispersion coefficient	0.16
Vertical dispersion coefficient	0.14
8-Hour Persistence Factor	0.7
CO 8-hr NAAQS (ppm)	9

Equations and Outputs	Value	Units	Value	Units
At Garage Vent Peak Hourly Concentration	3.36E-04	g/m ³	2.94E-01	ppm
At Garage Vent 8-Hour Concentration	3.36E-04	g/m ³	2.94E-01	ppm
Initial Distributions: SigmaY and Sigma Z@0 (m)	3.22	m		
SigmaY@near receptor (m)	10.05	m		
SigmaZ@near receptor (m)	9.20	m		
1-hr Concentration (at near receptor)	3.74E-05	g/m ³	0.03	ppm
8-hr Concentration (at near receptor)	2.62E-05	g/m ³	0.02	ppm
Highest On-Street Emissions	2.32E-05	g/s	0.02	ppm
Maximum impacts from line source (1-hour)	0.007	ppm		
Maximum impacts from line source (8-hours)	0.005	ppm		
Outputs				
Total 1-hr CO Concentration receptor @ adjacent sidewalk	0.033	ppm		
Total 8-hr CO Concentration @ receptor at adjacent sidewalk	0.023	ppm		

Naturally Ventilated Parking Facility		
Total 1-hr CO Concentration @ receptor, adjacent sidewalk	0.06	ppm
Total 8-hr CO Concentration @ receptor, adjacent sidewalk	0.04	ppm
Total 1-hr CO Concentration @ receptor, opposite sidewalk	0.09	ppm
Total 8-hr CO Concentration @ receptor, opposite sidewalk	0.07	ppm

On Street Emissions		
Maximum CO impacts from line source (1-hour) ₁	0.28	ppm
Maximum CO impacts from line source (8-hours) ₁	0.19	ppm

Below-Grade Bus Depot		
Total 1-hr CO Concentration @ receptor, adjacent sidewalk	0.03	ppm
Total 8-hr CO Concentration @ receptor, adjacent sidewalk	0.02	ppm

Background Concentrations		
1-Hour CO Background Concentration	2.12	PPM
8-Hour CO Background Concnetration	1.9	PPM

Total			NAAQS		
Total 1-hr CO Concentration receptor @ adjacent sidewalk	2.49	ppm	PASS	35	ppm
Total 8-hr CO Concentration @ receptor at adjacent sidewalk	2.16	ppm	PASS	9	ppm
Total 1-hr CO Concentration receptor @ opposite sidewalk	2.52	ppm	PASS	35	ppm
Total 8-hr CO Concentration @ receptor at opposite sidewalk	2.18	ppm	PASS	9	ppm

MOVES Emissions	Per Vehicle Emissions (g/mile)	MOVES Link
Arriving	1.72E-02 g/vehicle-mile	Link 2 (Ramp - In)
Departing	6.96E-02 g/vehicle-mile	Link 3 (Ramp - Out)
MOVES Emissions	Exhaust	
Idling	1.70E-02 g/vehicle-hour	Link 5 (Garage IDLE ON NETWORK)
Parking Garage Driving	2.86E-02 g/veh-mile	Link 4

Constants and Conversion Factors		
Seconds per hour	3,600	s/hour
1 minute/hour	0.017	hour
Carbon monoxide molecular weight g/mol	28.01	g/mol
R @ 298K, 1 atm (m3 atm / K mol)	8.21E-05	m3 atm / K mol
Temperature (K)	298	K
Pressure (atm)	1	atm
Vertical dispersion coefficient	0.14	

Project Specific Inputs				
Facility Dimensions	Value	Unit	Conversion	Unit
Garage Length	960	ft		
Garage Width	348	ft		
Parking Garage Area (one floor)	279,792	ft^2	25,994	m^2
Average Distance Travelled	740.0	feet	0.140	miles
Parking lot width (at receipt)	264	ft	80.467	meters
Idling Time in the Garage	1	min	0.017	hr
Entrance/Exit Ramp Length	124	ft	0.024	miles

Floor Ramp Info	ft	mi
Floor 1-2 Ramp Length	456	0.086
Floor 2-3 Ramp Length	312	0.059
Floor 3-4 Ramp Length	192	0.036
Floor 4-5 Ramp Length	216	0.041
Floor 5-6 Ramp Length	348	0.066
Floor 6-7 Ramp Length	216	0.041
Average Ramp Length	290	0.055

Parking Facility Specs					
# of Floors	Ins	Outs	Excess Vehicles Arriving	Excess Vehicles Departing	Height of Level (ft)
Total	1,225	1,156	-		
1st Floor	175	165	1,050	991	0
2nd Floor	175	165	875	826	14
3rd Floor	175	165	700	661	10.5
4th Floor	175	165	525	496	10.5
5th Floor	175	165	350	331	10.5
6th Floor	175	165	175	166	10.5
7th Floor	175	166	-	-	17.3

Receptor Details	Value	Unit	Value	Unit
Receptor distance, x ₁ (ft)	24	feet	7.3	m
Receptor distance, x ₂ (ft)	96	feet	29.3	m

σ _{z1}	1.02	
X _{u1}	87.8	meters
X _{d1}	7.3	meters
X _{o1}	19.9	meters
r _{u1}	107.7	meters
r _{d1}	27.2	meters
σ _{z2}	4.10	
X _{u2}	109.7	meters
X _{d2}	29.3	meters
X _{o2}	19.9	meters
r _{u2}	129.6	meters
r _{d2}	49.2	meters

Describes cars entering facility per floor
 Describes arriving cars driving around per floor (175 cars)
 Describes cars idling per floor (to be summed later)
 Describes leaving cars driving on first floor (165 cars)
 Describes cars exiting facility per floor

Emissions	g/s	
Hot Vehicle - Arrive (Ramp in) (g/s)	1.97E-05	formula: (moves entering * total veh entering per hour * ramp length)/3600
Hot vehicle - Driving in Garage Floor per floor (flat) (g/s)	1.95E-04	formula: (moves driving * total veh that enter one floor/hr * avg d travelled)/3600
Cold Vehicle - Idling (g/s)	1.30E-05	formula: 1 min idle * moves idle (g/veh-hr) * hr/min convert * # veh exiting/hr / seconds convert
Cold Vehicle - Driving in Garage Floor per floor (Flat) (g/s)	1.84E-04	formula: (moves driving * total veh that exit per floor/hr * avg d travelled)/3600
Cold Vehicle - Exiting Parking Facility (Ramp) (g/s)	7.51E-05	formula: (moves exit * total veh exiting her hour * ramp length)/3600

Level	Qexcess (includes hot and cold) (g/s)	Qa,Excess (g/m ² -s)	Qa, lvl Hot (g/m ² -s)	Qa, lvl Cold (g/m ² -s)	Qa, idle (g/m ² -s)	Qa, ramp in (g/m ² -s)	Qa, ramp out (g/m ² -s)	Qa, Total (g/m ² -s)
Level 1	2.09E-03	8.04E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	9.91E-08
Level 2	1.74E-03	6.70E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	8.57E-08
Level 3	1.39E-03	5.36E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	7.23E-08
Level 4	1.05E-03	4.02E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	5.89E-08
Level 5	6.97E-04	2.68E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	4.55E-08
Level 6	3.50E-04	1.34E-08	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	3.22E-08
Level 7	0.00E+00	0.00E+00	7.50E-09	7.07E-09	4.99E-10	7.58E-10	2.89E-09	1.87E-08

Receptor Concentration Constants	
a	0.5
b	0.77
Sigma Z (receptor 1)	1.02
Sigma Z (receptor 2)	4.10
Chi Calculations	
a(1-b)	0.115
ru^(1-b) (receptor 1)	2.934
rd^(1-b) (receptor 1)	2.138
ru^(1-b) (receptor 2)	3.061
rd^(1-b) (receptor 2)	2.449

Level	Delta z (ft)	Delta Z (Meters)	X bar, Receptor 1	X bar, Receptor 2
Level 1		-6 at grade, N/A	at grade, N/A	at grade, N/A
Level 2		8	2.4	8.38E-01
Level 3		18.5	5.6	3.88E-01
Level 4		29	8.8	9.75E-02
Level 5		39.5	12.0	1.33E-02
Level 6		50	15.2	9.88E-04
Level 7		67.3	20.5	3.55E-06

Receptor 1 Calculations	Qa, total (g/m ² -s)	Chi u/Qatotal	Chi Center Line	X bar	g/m ³ at receptor	ug/m ³ at receptor	ug/m ³ at receptor 24-hour	ug/m ³ at receptor Annual
Level 1	9.91E-08	5.53	5.48E-07	at grade, N/A	5.48E-07	5.48E-01	2.19E-01	5.48E-02
Level 2	8.57E-08	5.53	4.74E-07	5.87E-02	2.79E-08	2.79E-02	1.11E-02	2.79E-03
Level 3	7.23E-08	5.53	4.00E-07	2.61E-07	1.05E-13	1.05E-07	4.18E-08	1.05E-08
Level 4	5.89E-08	5.53	3.26E-07	6.67E-17	2.17E-23	2.17E-17	8.70E-18	2.17E-18
Level 5	4.55E-08	5.53	2.52E-07	9.77E-31	2.46E-37	2.46E-31	9.85E-32	2.46E-32
Level 6	3.22E-08	5.53	1.78E-07	8.21E-49	1.46E-55	1.46E-49	5.84E-50	1.46E-50
Level 7	1.87E-08	5.53	1.04E-07	6.25E-88	6.47E-95	6.47E-89	2.59E-89	6.47E-90
				TOTAL		0.58	0.23	0.06

Receptor 2 Calculations	Qa, total (g/m ² -s)	Chi u/Qatotal	Chi Center Line	X bar	g/m ³ at receptor	ug/m ³ at receptor	ug/m ³ at receptor 24-hour	ug/m ³ at receptor Annual
Level 1	9.91E-08	4.257	4.22E-07	at grade, N/A	4.22E-07	4.22E-01	1.69E-01	4.22E-02
Level 2	8.57E-08	4.257	3.65E-07	8.38E-01	3.06E-07	3.06E-01	1.22E-01	3.06E-02
Level 3	7.23E-08	4.257	3.08E-07	3.88E-01	1.19E-07	1.19E-01	4.77E-02	1.19E-02
Level 4	5.89E-08	4.257	2.51E-07	9.75E-02	2.45E-08	2.45E-02	9.78E-03	2.45E-03
Level 5	4.55E-08	4.257	1.94E-07	1.33E-02	2.58E-09	2.58E-03	1.03E-03	2.58E-04
Level 6	3.22E-08	4.257	1.37E-07	9.88E-04	1.35E-10	1.35E-04	5.41E-05	1.35E-05
Level 7	1.87E-08	4.257	7.97E-08	3.55E-06	2.82E-13	2.82E-07	1.13E-07	2.82E-08
				TOTAL		0.87	0.35	0.09

MOVES Emissions	Per Vehicle Emissions (g/mile)	Per Vehicle Emissions (g/m)
On-Street ₁	1.78E-02	1.11E-05

Project Specific Analysis Input	Value	Unit
On-Street Peak Vehicle Volumes WB ₁	1,236	veh / hr
On-Street Peak Vehicle Volumes EB ₁	712	veh / hr

Constants and Conversion Factors	Value
Conservative Factor for Line Source Impacts	307.7
Horizontal dispersion coefficient	0.16
Vertical dispersion coefficient	0.14
Second per hour	3,600
Meters to miles	1,609

Equations and Outputs	Value	Units
Highest On-Street Emissions ₁	6.00E-06	g/s
Maximum impacts from line source (1-hour) ₁	1.85E-03	ug/m3
Maximum impacts from line source (24-hours) ₁	7.38E-04	ug/m3
Maximum impacts from line source (Annual) ₁	1.85E-04	ug/m3

Air Quality - Parking Analysis

Emissions	Value	Unit	
Departing Idle (Peak)	1.94E-05	g/s	
5 MPH Departing Auto (Peak)	6.93E-05	g/s	
5 MPH Arriving Auto (Peak)	9.46E-05	g/s	
15 MPH Local Mix Autos (Peak)	3.14E-07	g/m-s	
MOVES Emissions	Per Vehicle Emissions (g/mile)	Per Vehicle Emissions (g/m)	MOVES Link
Parking Garage Driving	0.31		link 4 (Parking Lot)
Arriving	0.44		Link 2 (Ramp - In)
Departing	0.20		Link 3 (Ramp - Out)
Local roads	0.13	0.0001	Links 6 and 7
MOVES Emissions	Exhaust (g/veh hr)		
Idling	0.38		Link 5 (Garage IDLE ON NETWORK)

1,609	m/mi
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Project Specific Analysis Input	Value	Unit	Value	Unit
Garage Length	360	ft		
Garage Width	192	ft		
Parking Garage Area	279,792	ft2		
Ramp Length	77.6	ft	0.0147	mi
Mean Travel	336.0	ft	0.0636	mi
Peak Hour Ins	13	veh / hr		
Peak Hour Outs	11	veh / hr		
On-Street Peak Vehicle Volumes WB	7	veh / hr		
On-Street Peak Vehicle Volumes EB	7	veh / hr		
Idling Time in the Garage	1	min		
Number of vents	1	count		
Ventilation Rate / Garage Area	1	(ft3/min) / ft2	0.0167	hr
Ventilation Rate	279,792	ft3/min	132.0	m3/s
Vent height (compared to grade)	10	ft	3.0	m
Receptor height	6	ft	1.8	m
Receptor distance (mid adjacent sidewalk)	84	ft	25.6	m
Receptor distance (mid far sidewalk)	84	ft	25.60	m
Mean wind speed at pollutant release height (m/s)	1	m/s		

Constants and Conversion Factors	Value
Conservative Factor for Line Source Impacts	307.7
Horizontal dispersion coefficient	0.16
Vertical dispersion coefficient	0.14

Equations and Outputs	Value	Units
At Garage Vent Peak Hourly Concentration	1.39E-06	g/m ³
Initial Distributions: SigmaY and Sigma Z@0 (m)	6.48	m
SigmaY@near receptor (m)	10.58	m
SigmaZ@near receptor (m)	10.07	m
SigmaY@far receptor (m)	10.58	m
SigmaZ@far receptor (m)	10.07	m
1-hr Concentration (at nearest sidewalk)	5.43E-07	g/m ³
Highest On-Street Emissions	3.14E-07	g/s
Maximum impacts from line source (1-hour)	9.67E-05	µg/m ³
Outputs		
Total 1-hr PM _{2.5} Concentration receptor @ nearest sidewalk (Not including on-street)	0.54	µg/m ³
24 hour PM 2.5 Concentration @ Nearest Sidewalk Receptor	0.22	µg/m ³
Annual PM 2.5 Concentration @ Nearest Sidewalk Receptor	0.05	µg/m ³

5.43E-01	µg/m ³
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Naturally Ventilated Parking Facility		
Total 1-hr PM2.5 Concentration @ receptor, adjacent sidewalk	0.58	µg/m3
Total 24-hr PM2.5 Concentration @ receptor, adjacent sidewalk	0.23	µg/m3
Total Annual PM2.5 Concentration @ receptor, adjacent sidewalk	0.06	µg/m3
Total 1-hr PM2.5 Concentration @ receptor, opposite sidewalk	0.87	µg/m3
Total 24-hr PM2.5 Concentration @ receptor, opposite sidewalk	0.35	µg/m3
Total Annual PM2.5 Concentration @ receptor, opposite sidewalk	0.09	µg/m3

Total			NAAQS		
Total 1-hr PM2.5 Concentration receptor @ adjacent sidewalk (Without Background Concentration)	1.12	µg/m3			
Total 24-hr PM2.5 Concentration @ receptor at adjacent sidewalk	15.65	µg/m3	PASS	35	µg/m3
Total Annual PM2.5 Concentration @ receptor at adjacent sidewalk	6.01	µg/m3	PASS	9.0	µg/m3
Total 1-hr PM2.5 Concentration receptor @ opposite sidewalk (Without Background Concentration)	1.42	µg/m3			
Total 24-hr PM2.5 Concentration @ receptor at opposite sidewalk	15.77	µg/m3	PASS	35	µg/m3
Total Annual PM2.5 Concentration @ receptor at opposite sidewalk	6.04	µg/m3	PASS	9.0	µg/m3

On Street Emissions		
Maximum PM2.5 impacts from line source (1-hour) ₁	0.0018	µg/m3
Maximum PM2.5 impacts from line source (24-hours) ₁	0.0007	µg/m3
Maximum PM2.5 impacts from line source (Annual) ₁	0.0002	µg/m3

Below-Grade Bus Depot		
Total 1-hr PM2.5 Concentration @ receptor, adjacent sidewalk	0.54	µg/m3
Total 24-hr PM2.5 Concentration @ receptor, adjacent sidewalk	0.22	µg/m3
Total Annual PM2.5 Concentration @ receptor, adjacent sidewalk	0.05	µg/m3

Background Concentrations		
24-Hour PM2.5 Background Concentration	15.2	µg/m3
Annual PM2.5 Background Concentration	5.9	µg/m3

NO BUILD VOLUMES							Average Vehicle Weight	Silt Loading	Road Dust Emission Factor - PM2.5 ST (g/VMT)	Road Dust Emission Rate (g/s-m ²)	MOVES Emission Rate (g/s-m ²)		TOTAL Emission Rate (g/s-m ²) - PM
#	Link Description	Link Length (m)	Link Length (ft)	Link Width (m)	Link Area (m ²)	PM Volume	tons	g/m ²	PM2.5	PM2.5 ST	PM2.5 ST	CO	PM2.5 ST
1	WB_HB_A	29	94.0	17.07	489	1692	2.30	0.10	0.07	1.23E-06	3.57E-08	3.93E-05	1.27E-06
2	WB_HB_B	11	36.6	12.80	143	1838	2.28	0.10	0.07	1.77E-06	5.15E-08	5.68E-05	1.82E-06
3	WB_HB_C	57	188.5	10.97	630	1838	2.28	0.10	0.07	2.06E-06	6.01E-08	6.62E-05	2.12E-06
4	EB_HB_A	69	227.1	10.97	759	2008	2.30	0.10	0.07	2.27E-06	7.68E-08	6.07E-05	2.35E-06
5	EB_HB_B	30	97.2	18.29	542	2008	2.30	0.10	0.07	1.36E-06	4.50E-08	3.56E-05	1.41E-06
6	NB_U_A	16	53.1	9.75	158	487	2.45	0.10	0.08	6.62E-07	3.51E-08	7.15E-05	6.97E-07
7	NB_U_B	75	245.5	3.66	274	487	2.45	0.10	0.08	1.76E-06	9.30E-08	1.90E-04	1.86E-06
8	SB_U_A	76	249.6	3.66	278	695	2.22	0.10	0.07	2.27E-06	6.60E-08	1.35E-04	2.34E-06
9	SB_U_B	14	44.6	6.10	83	695	2.22	0.10	0.07	1.36E-06	3.77E-08	7.70E-05	1.40E-06
10	EB_HB_B	42	138.8	16.46	696	1615	2.36	0.10	0.07	1.25E-06	4.09E-08	3.22E-05	1.29E-06
11	EB_HB_C	99	323.6	10.97	1082	1615	2.36	0.10	0.07	1.88E-06	6.17E-08	4.86E-05	1.94E-06
12	WB_HB_D	43	142.5	17.68	768.02	1710	2.30	0.10	0.07	1.20E-06	3.44E-08	3.80E-05	1.23E-06
13	WB_HB_E	25	81.8	14.63	365	1710	2.30	0.10	0.07	1.45E-06	4.03E-08	4.44E-05	1.49E-06
14	WB_HB_F	72	237.2	10.97	793	1710	2.30	0.10	0.07	1.93E-06	5.56E-08	6.13E-05	1.99E-06
15	SB_EO_A	34	110.0	13.11	440	1064	2.17	0.16	0.10	1.46E-06	2.85E-08	5.86E-05	1.49E-06
16	SB_EO_B	15	49.1	10.36	155	1064	2.17	0.16	0.10	1.84E-06	3.46E-08	7.12E-05	1.88E-06
17	SB_EO_C	45	149.2	9.75	443	1064	2.17	0.16	0.10	1.96E-06	3.77E-08	7.75E-05	2.00E-06
18	NB_EO_A	29	94.7	17.37	501	591	2.37	0.16	0.11	6.69E-07	2.40E-08	4.92E-05	6.93E-07
19	NB_EO_B	38	125.9	13.41	514	591	2.37	0.16	0.11	8.67E-07	3.12E-08	6.40E-05	8.98E-07
20	NB_EO_C	17	56.1	6.10	104	591	2.37	0.16	0.11	1.91E-06	7.07E-08	1.45E-04	1.98E-06
21	NB_EO_D	11	36.9	6.40	72	445	2.50	0.16	0.12	1.44E-06	4.93E-08	9.99E-05	1.49E-06
22	RT_HB_EO_A	6	20.2	4.27	26	146	2.20	0.10	0.07	4.06E-07	1.07E-08	2.16E-05	4.17E-07
23	RT_HB_EO_B	6	20.7	4.27	27	146	2.20	0.10	0.07	4.06E-07	1.05E-08	2.11E-05	4.17E-07

BUILD VOLUMES

#	Link Description	Link Length (m)	Link Length (ft)	Link Width (m)	Link Area (m ²)	PM Volume	Average Vehicle Weight	Silt Loading	Road Dust Emission Factor - PM2.5 ST (g/VMT)	Road Dust Emission Rate (g/s-m ²) - PM	MOVES Emission Rate (g/s-m ²)		TOTAL Emission Rate (g/s-m ²) PM
							tons	g/m ²	PM2.5	PM2.5 ST	PM2.5 ST	CO	PM2.5 ST
1	WB_HB_A	29	94.0	17.07	489	1710	2.33	0.10	0.07	1.26E-06	3.95E-08	4.37E-05	1.30E-06
2	WB_HB_B	11	36.6	12.80	143	1875	2.30	0.10	0.07	1.82E-06	5.79E-08	6.39E-05	1.88E-06
3	WB_HB_C	57	188.5	10.97	630	1875	2.30	0.10	0.07	2.12E-06	6.75E-08	7.44E-05	2.19E-06
4	EB_HB_A	69	227.1	10.97	759	2320	2.28	0.10	0.07	2.60E-06	8.86E-08	7.01E-05	2.69E-06
5	EB_HB_B	30	97.2	18.29	542	2320	2.28	0.10	0.07	1.56E-06	5.20E-08	4.11E-05	1.61E-06
6	NB_U_A	16	53.1	9.75	158	501	2.47	0.10	0.08	6.87E-07	3.61E-08	7.33E-05	7.24E-07
7	NB_U_B	75	245.5	3.66	274	501	2.47	0.10	0.08	1.83E-06	9.58E-08	1.95E-04	1.93E-06
8	SB_U_A	76	249.6	3.66	278	717	2.23	0.10	0.07	2.35E-06	1.36E-07	2.79E-04	2.49E-06
9	SB_U_B	14	44.6	6.10	83	717	2.23	0.10	0.07	1.41E-06	7.79E-08	1.60E-04	1.49E-06
10	EB_HB_B	42	138.8	16.46	696	1640	2.36	0.10	0.07	1.27E-06	4.15E-08	3.28E-05	1.31E-06
11	EB_HB_C	99	323.6	10.97	1082	1640	2.36	0.10	0.07	1.90E-06	6.26E-08	4.95E-05	1.97E-06
12	WB_HB_D	43	142.5	17.68	768	1752	2.30	0.10	0.07	1.23E-06	3.88E-08	4.28E-05	1.27E-06
13	WB_HB_E	25	81.8	14.63	365	1752	2.30	0.10	0.07	1.49E-06	4.54E-08	5.01E-05	1.53E-06
14	WB_HB_F	72	237.2	10.97	793	1752	2.30	0.10	0.07	1.98E-06	6.26E-08	6.91E-05	2.05E-06
15	SB_EO_A	34	110.0	13.11	440	1405	2.17	0.16	0.10	1.93E-06	7.54E-08	1.54E-04	2.00E-06
16	SB_EO_B	15	49.1	10.36	155	1405	2.17	0.16	0.10	2.44E-06	9.15E-08	1.87E-04	2.53E-06
17	SB_EO_C	45	149.2	9.75	443	1405	2.17	0.16	0.10	2.59E-06	9.96E-08	2.04E-04	2.69E-06
18	NB_EO_A	29	94.7	17.37	501	632	2.38	0.16	0.11	7.16E-07	2.57E-08	5.23E-05	7.42E-07
19	NB_EO_B	38	125.9	13.41	514	632	2.38	0.16	0.11	9.28E-07	3.34E-08	6.79E-05	9.61E-07
20	NB_EO_C	17	56.1	6.10	104	632	2.38	0.16	0.11	2.04E-06	7.56E-08	1.54E-04	2.11E-06
21	NB_EO_D	11	36.9	6.40	72	467	2.50	0.16	0.12	1.51E-06	5.14E-08	1.05E-04	1.56E-06
22	RT_HB_EO_A	6	20.2	4.27	26	165	2.26	0.10	0.07	4.71E-07	1.30E-08	2.70E-05	4.84E-07
23	RT_HB_EO_B	6	20.7	4.27	27	165	2.26	0.10	0.07	4.71E-07	1.28E-08	2.64E-05	4.84E-07

NO BUILD VOLUMES							Average Vehicle Weight	Silt Loading	Road Dust Emission Factor - PM2.5 ST (g/VMT)	Road Dust Emission Rate (g/s-m ²)	MOVES Emission Rate (g/s-m ²)		TOTAL Emission Rate (g/s-m ²) PM
#	Link Description	Link Length (m)	Link Length (ft)	Link Width (m)	Link Area (m ²)	PM Volume	tons	g/m ²	PM	PM2.5 ST	PM2.5 ST	CO	PM2.5 ST
1	WB_OCR_A	51	167.8	12.19	624	1603	2.37	0.10	0.07	1.68E-06	7.02E-08	1.43E-04	1.75E-06
2	WB_OCR_B	79	260.1	10.36	821	1603	2.37	0.10	0.07	1.98E-06	8.16E-08	1.66E-04	2.06E-06
3	WB_OCR_C	81	266.4	7.01	569	1603	2.37	0.10	0.07	2.92E-06	1.20E-07	2.45E-04	3.04E-06
4	EB_OCR_A	6	21.1	10.67	69	1916	2.40	0.10	0.07	2.32E-06	5.45E-08	1.11E-04	2.38E-06
5	EB_OCR_B	4	13.9	3.66	15	1140	2.07	0.10	0.06	3.48E-06	1.06E-07	2.18E-04	3.59E-06
6	EB_OCR_C	28	92.9	7.01	198	3056	2.28	0.10	0.07	5.36E-06	1.34E-07	2.74E-04	5.49E-06
7	EB_OCR_D	26	83.8	10.97	280	3056	2.28	0.10	0.07	3.42E-06	8.46E-08	1.73E-04	3.51E-06
8	EB_OCR_E	25	83.3	14.02	356	3056	2.28	0.10	0.07	2.68E-06	6.65E-08	1.36E-04	2.75E-06
9	EB_OCR_F	126	411.8	10.67	1339	3056	2.28	0.10	0.07	3.52E-06	8.62E-08	1.76E-04	3.61E-06
10	RT_MA_OCR_A	5	15.8	6.71	32	1294	2.08	0.10	0.06	2.16E-06	7.31E-08	1.50E-04	2.23E-06
11	RT_MA_OCR_B	5	16.2	7.32	36	1294	2.08	0.10	0.06	1.98E-06	6.55E-08	1.34E-04	2.04E-06
12	NB_MA_A	6	19.8	10.97	66	1923	2.12	0.10	0.07	2.01E-06	9.75E-08	2.00E-04	2.10E-06
13	NB_MA_B	13	42.7	13.41	175	1923	2.12	0.10	0.07	1.64E-06	7.40E-08	1.52E-04	1.71E-06
14	NB_MA_C	6	19.8	7.32	44	1923	2.12	0.10	0.07	3.01E-06	1.46E-07	3.00E-04	3.15E-06
15	NB_MA_D	16	52.0	10.67	169	1923	2.12	0.10	0.07	2.06E-06	9.55E-08	1.96E-04	2.16E-06
16	NB_MA_E	12	40.2	12.19	149	1923	2.12	0.10	0.07	1.80E-06	8.65E-08	1.78E-04	1.89E-06
17	NB_MA_F	26	86.5	10.67	281	1923	2.12	0.10	0.07	2.06E-06	9.19E-08	1.89E-04	2.15E-06
18	NB_MA_G	12	38.1	14.33	166	1923	2.12	0.10	0.07	1.54E-06	6.80E-08	1.40E-04	1.60E-06
19	SB_MA_A	68	224.4	6.71	459	1245	2.49	0.10	0.08	2.50E-06	8.01E-08	1.63E-04	2.58E-06
20	SB_MA_B	23	75.8	7.92	183	1245	2.49	0.10	0.08	2.12E-06	6.54E-08	1.33E-04	2.18E-06
21	EB_OCR_G	27	89.2	12.19	331	1908	2.14	0.10	0.07	1.80E-06	4.70E-08	9.67E-05	1.85E-06
22	EB_OCR_H	29	94.2	13.41	385	1908	2.14	0.10	0.07	1.64E-06	4.29E-08	8.81E-05	1.68E-06
23	EB_OCR_I	41	135.6	9.75	403	1908	2.14	0.10	0.07	2.26E-06	5.92E-08	1.22E-04	2.32E-06
24	EB_OCR_J	35	115.2	10.36	364	1908	2.14	0.10	0.07	2.12E-06	5.55E-08	1.14E-04	2.18E-06
25	WB_OCR_D	20	64.6	12.80	252	1312	2.30	0.10	0.07	1.27E-06	5.30E-08	1.08E-04	1.32E-06
26	WB_OCR_E	85	278.6	10.36	880	1312	2.30	0.10	0.07	1.57E-06	6.71E-08	1.37E-04	1.64E-06
27	WB_OCR_F	27	88.8	8.53	231	1312	2.30	0.10	0.07	1.91E-06	8.20E-08	1.67E-04	1.99E-06
28	SB_P_A	9	30.4	6.10	57	860	2.46	0.10	0.08	1.88E-06	6.24E-08	1.27E-04	1.94E-06
29	SB_P_B	31	102.1	9.75	303	860	2.46	0.10	0.08	1.17E-06	3.69E-08	7.50E-05	1.21E-06
30	SB_P_C	58	191.3	3.66	213	860	2.46	0.10	0.08	3.13E-06	9.94E-08	2.02E-04	3.23E-06
31	NB_P_A	99	323.7	8.23	812	681	2.33	0.10	0.07	1.04E-06	4.34E-08	8.85E-05	1.08E-06

BUILD VOLUMES							Average Vehicle		Road Dust Emission	Road Dust	MOVES Emission Rate		TOTAL Emission
							Weight	Silt Loading	Factor - PM2.5 ST	Emission Rate	(g/s-m ²)		Rate (g/s-m ²) PM
#	Link Description	Link Length (m)	Link Length (ft)	Link Width (m)	Link Area (m ²)	PM Volume	tons	g/m ²	PM	PM2.5 ST	PM2.5 ST	CO	PM2.5 ST
1	WB_OCR_	51	167.8	12.19	624	1619	2.37	0.10	0.07	1.70E-06	7.08E-08	1.44E-04	1.77E-06
2	WB_OCR_B	79	260.1	10.36	821	1619	2.37	0.10	0.07	2.00E-06	8.24E-08	1.68E-04	2.08E-06
3	WB_OCR_C	81	266.4	7.01	569	1619	2.37	0.10	0.07	2.96E-06	1.21E-07	2.47E-04	3.08E-06
4	EB_OCR_A	6	21.1	10.67	69	1941	2.40	0.10	0.08	2.36E-06	5.52E-08	1.12E-04	2.41E-06
5	EB_OCR_B	4	13.9	3.66	15	1140	2.07	0.10	0.06	3.48E-06	1.06E-07	2.18E-04	3.59E-06
6	EB_OCR_C	28	92.9	7.01	198	3081	2.28	0.10	0.07	5.41E-06	1.35E-07	2.76E-04	5.54E-06
7	EB_OCR_D	26	83.8	10.97	280	3081	2.28	0.10	0.07	3.46E-06	8.52E-08	1.74E-04	3.54E-06
8	EB_OCR_E	25	83.3	14.02	356	3081	2.28	0.10	0.07	2.70E-06	6.71E-08	1.37E-04	2.77E-06
9	EB_OCR_F	126	411.8	10.67	1339	3081	2.28	0.10	0.07	3.55E-06	8.69E-08	1.78E-04	3.64E-06
10	RT_MA_OCR_A	5	15.8	6.71	32	1319	2.45	0.10	0.08	2.60E-06	7.60E-08	1.54E-04	2.68E-06
11	RT_MA_OCR_B	5	16.2	7.32	36	1319	2.45	0.10	0.08	2.39E-06	6.82E-08	1.38E-04	2.46E-06
12	NB_MA_A	6	19.8	10.97	66	1959	2.42	0.10	0.08	2.33E-06	1.01E-07	2.06E-04	2.43E-06
13	NB_MA_B	13	42.7	13.41	175	1959	2.42	0.10	0.08	1.91E-06	7.66E-08	1.56E-04	1.99E-06
14	NB_MA_C	6	19.8	7.32	44	1959	2.42	0.10	0.08	3.50E-06	1.51E-07	3.08E-04	3.65E-06
15	NB_MA_D	16	52.0	10.67	169	1959	2.42	0.10	0.08	2.40E-06	9.89E-08	2.02E-04	2.50E-06
16	NB_MA_E	12	40.2	12.19	149	1959	2.42	0.10	0.08	2.10E-06	8.95E-08	1.82E-04	2.19E-06
17	NB_MA_F	26	86.5	10.67	281	1959	2.42	0.10	0.08	2.40E-06	9.51E-08	1.94E-04	2.49E-06
18	NB_MA_G	12	38.1	14.33	166	1959	2.42	0.10	0.08	1.79E-06	7.04E-08	1.43E-04	1.86E-06
19	SB_MA_A	68	224.4	6.71	459	1269	2.49	0.10	0.08	2.55E-06	8.16E-08	1.66E-04	2.63E-06
20	SB_MA_B	23	75.8	7.92	183	1269	2.49	0.10	0.08	2.16E-06	6.66E-08	1.35E-04	2.23E-06
21	EB_OCR_G	27	89.2	12.19	331	1913	2.14	0.10	0.07	1.81E-06	4.72E-08	9.69E-05	1.86E-06
22	EB_OCR_H	29	94.2	13.41	385	1913	2.14	0.10	0.07	1.64E-06	4.30E-08	8.83E-05	1.69E-06
23	EB_OCR_I	41	135.6	9.75	403	1913	2.14	0.10	0.07	2.26E-06	5.93E-08	1.22E-04	2.32E-06
24	EB_OCR_J	35	115.2	10.36	364	1913	2.14	0.10	0.07	2.13E-06	5.56E-08	1.14E-04	2.18E-06
25	WB_OCR_D	20	64.6	12.80	252	1319	2.31	0.10	0.07	1.28E-06	5.33E-08	1.09E-04	1.34E-06
26	WB_OCR_E	85	278.6	10.36	880	1319	2.31	0.10	0.07	1.59E-06	6.74E-08	1.38E-04	1.65E-06
27	WB_OCR_F	27	88.8	8.53	231	1319	2.31	0.10	0.07	1.93E-06	8.24E-08	1.69E-04	2.01E-06
28	SB_P_A	9	30.4	6.10	57	863	2.48	0.10	0.08	1.90E-06	6.28E-08	1.28E-04	1.96E-06
29	SB_P_B	31	102.1	9.75	303	863	2.48	0.10	0.08	1.19E-06	3.71E-08	7.55E-05	1.22E-06
30	SB_P_C	58	191.3	3.66	213	863	2.48	0.10	0.08	3.16E-06	9.99E-08	2.03E-04	3.26E-06
31	NB_P_A	99	323.7	8.23	812	685	2.33	0.10	0.07	1.05E-06	4.37E-08	8.89E-05	1.09E-06

Mobile Source Analysis Results, Intersection 5						
Pollutant	Averaging Period	Background	No Build	Build	Increment	Impact Threshold (NAAQS)
CO (ppm)	1-hour	2.1	2.8	3.2	0.44	35
CO (ppm)	8-hour	1.9	2.1	2.3	0.16	9
PM2.5 (µg/m3)	24-hour	15.2	18.1	18.3	0.21	35
PM2.5 (µg/m3)	Annual	5.9	7.06	7.15	0.09	9

Mobile Source Analysis Results, Intersection 29						
Pollutant	Averaging Period	Background	No Build	Build	Increment	Impact Threshold (NAAQS)
CO (ppm)	1-hour	2.12	3.70	3.72	0.02	35
CO (ppm)	8-hour	1.9	2.46	2.47	0.01	9
PM2.5 (µg/m3)	24-hour	15.2	18.63	18.81	0.19	35
PM2.5 (µg/m3)	Annual	5.9	7.28	7.33	0.05	9