Appendix E

- Transportation Planning Factors Memorandum
- 125th Street Rezoning and Related Actions FEIS Traffic Mitigation Memos

Engineers and Planners • 102 Madison Avenue • New York, NY 10016 • 212 929 5656 • 212 929 5605 (fax)

TECHNICAL MEMORANDUM

TO: NYCDCP

FROM: Philip Habib & Associates

DATE: August 16, 2012

PROJECT: West Harlem Rezoning (PHA #0769D)

RE: Transportation Planning Factors

This memorandum summarizes the transportation planning factors used for the EIS analyses of traffic, parking, transit, and pedestrian conditions for the environmental review of the proposed West Harlem Rezoning. Travel demand forecasts based on these factors are also presented for four potential reasonable worst case development scenarios, one of which was selected for detailed analysis based on the amount of new travel demand that would be generated. Traffic and transit assignments for this scenario are provided along with a study area for the transportation analyses.

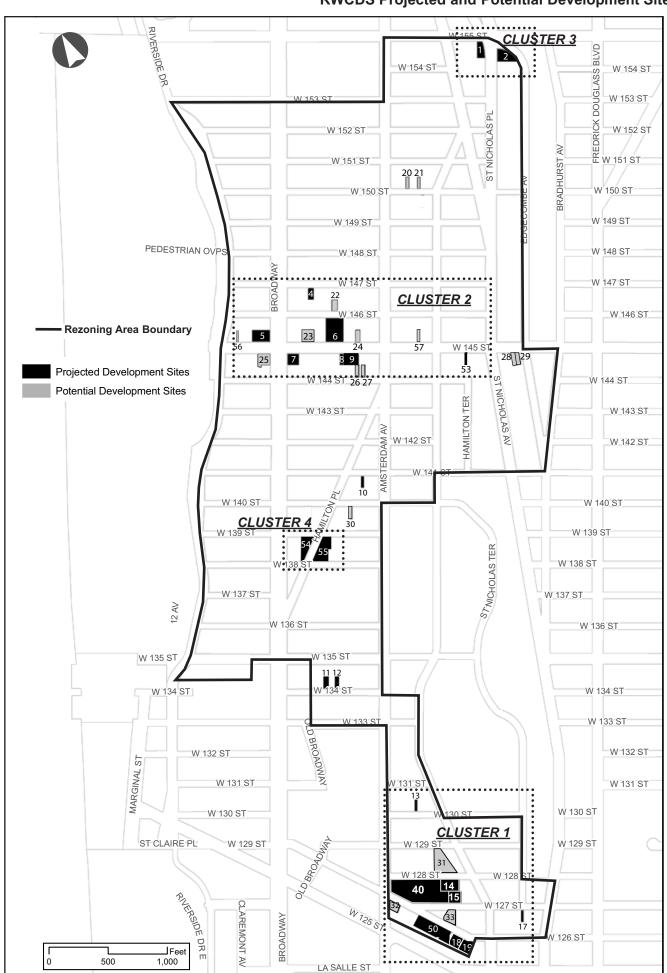
It should be noted that subsequent to the publication of the Draft EIS, changes were made to the reasonable worst case development scenarios, including the elimination of two projected development sites from consideration (Nos. 51 and 52), and a reduction in the projected amount of retail space at a third site (No. 55). These modifications are reflected in the travel demand forecasts presented in this memorandum. However, the resulting changes in incremental trips proved to be relatively small and widely dispersed, and in many cases represented a reduction from the numbers of trips analyzed for the Draft EIS. For example, peak hour vehicle trips increased by only six in the AM and four in the PM, and decreased by 17 and 18 in the midday and Saturday midday, respectively. There were no changes in the numbers of pedestrian trips in any peak hour at analyzed sidewalks and crosswalks. Therefore, the vehicle and pedestrian trip assignments reflected in this memorandum have not been modified from those in the Draft EIS.

THE PROPOSED ACTION

The Proposed Action includes zoning map changes and a zoning text amendment for approximately 90 blocks in West Harlem in Manhattan Community District 9. As shown in Figure 1, the rezoning area is generally bounded by West 126th Street on the south, West 155th Street on the north, Edgecombe, Bradhurst and St. Nicholas avenues on the east and Riverside Drive on the west. The proposed rezoning would allow for the addition of affordable

RWCDS Projected and Potential Development Sites

Source: NYC Department of City Planning



housing and mixed-use development with bulk controls that reflect the existing character and scale in the West Harlem area.

The rezoning area is currently mapped R7-2, R8, C8-3, and M1-1. The proposed West Harlem Rezoning Project would preserve the low-scale residential character of the neighborhood while allowing for modest residential growth where appropriate by mapping contextual zoning districts within the rezoning area. The proposed zoning map and text changes would create C6-3X-IH, R8A-IH, R8A, R8*, R7A, R6A, MX (M1-5/R7-2), C1-4 and C2-4 overlays.

A related zoning text amendment would allow for additional affordable housing while maintaining existing building patterns that are characteristic to the area. The text amendment would also clarify that mid-block residences would be low-scale brownstones and rowhouses. The MX District would be used by the community for various public events and community activities, which was a goal in Manhattan Community Board 9's 197-a Plan.

PROJECTED DEVELOPMENT

Based on the reasonable worst case development scenarios (RWCDS) developed by NYCDCP, 22 projected development, conversion, or enlargement sites have been identified, including two sites with alternate scenarios (Nos. 6 and 40). These sites are judged most likely to be developed by 2021, the analysis year for the Proposed Action. In addition, there are 16 potential development sites, which are considered less likely to be developed in the next decade. The locations of all projected and potential development sites are shown in Figure 1. As shown in Table 1, compared to future conditions without the Proposed Action, the RWCDS associated with the proposed rezoning anticipates that the 20 projected sites without alternate scenarios would result in a net increase of 186 dwelling units, 75,128 square feet (sf) of destination retail space, 116,338 sf of office and other commercial space, and 190,005 sf of community facility space, and a net decrease of 2,272 sf of local retail space. Also shown in Table 1 are the net increments for each of the alternate scenarios for projected development sites 6 and 40.

TRANSPORTATION PLANNING FACTORS

Table 2 shows the transportation planning factors to be used for the travel demand forecast generated by the RWCDS in the weekday AM, midday, and PM and Saturday midday peak hours. These include trip generation rates, temporal and directional distributions, mode choice factors, vehicle occupancies and truck trip factors for office, residential, retail and community facility uses. The factors in Table 2 were based on accepted *City Environmental Quality Review (CEQR) Technical Manual* criteria, data from the 2000 U.S. Census, and data from other EISs for projects on the west side of Manhatttan, including the 2008 125th Street Corridor Rezoning and Related Actions FEIS, the 2007 Manhattanville in West Harlem Rezoning and Academic Mixed-Use Development FEIS, and the 2004 No. 7 Subway Extension – Hudson Yards Rezoning and Development Program FGEIS.

Office

The forecast of travel demand from office development was based on the trip rates and temporal distribution cited in the *CEQR Technical Manual*. Modal and directional splits and vehicle occupancies were determined based upon 2000 Census reverse journey-to-work data and data from the 125th Street Rezoning and Related Actions FEIS.

Table 1
Net Change in Land Uses on Projected Development Sites Under the RWCDS

	Dwelling Units	Local Retail (sf)	Destination Retail (sf)*	Office/Other Commercial (sf)	Community Facility (sf)
RWCDS Without Projected	Development	Sites 6 and 40			
No-Action	465	28,250	10,217	128,417	94,411
With-Action	651	25,978	85,345	244,755	284,416
Net Increment	186	(2,272)	75,128	116,338	190,005
Projected Site 6a – 85 Perc	ent Communit	y Facility			
No-Action	0	7,421	0	0	207,079
With-Action	0	7,421	0	0	141,724
Net Increment	0	0	0	0	(65,355)
Projected Site 6b - Remov	e Deed Restric	tion			
No-Action	0	7,421	0	0	207,079
With-Action	155	7,421	0	0	22,261
Net Increment	155	0	0	0	(184,818)
Projected Site 40a – Retain	Existing Build	dings			
No-Action	0	0	0	271,238	0
With-Action	158	0	33,182	235,754	170,510
Net Increment	158	0	33,182	(35,484)	170,510
Projected Site 40b - New D	evelopment				
No-Action	0	0	0	271,238	0
With-Action	228	0	57,665	170,786	140,485
Net Increment	228	0	57,665	(100,452)	140,485
Scenario 1 – 6a & 40a					
No-Action	465	35,671	10,217	399,655	301,490
With-Action	809	33,399	118,527	480,509	596,650
Net Increment	344	(2,272)	108,310	80,854	295,160
Scenario 2 – 6a & 40b					
No-Action	465	35,671	10,217	399,655	301,490
With-Action	879	33,399	143,010	415,541	566,625
Net Increment	414	(2,272)	132,793	15,886	265.135
Scenario 3 – 6b & 40a					
No-Action	465	35,671	10,217	399,655	301,490
With-Action	964	33,399	118,527	480,509	477,187

Net Increment
Source: NYCDCP.

Net Increment

No-Action

With-Action

Scenario 4 - 6b & 40b

499

465

1,034

569

(2,272)

35,671

33,399

(2,272)

108,310

10,217

143,010 132,793 80,854

399,655

415,541

15,886

175,697

301,490

447,162

145,672

^{*} Any site with more than 10,000 sf of retail is assumed to consist of destination retail.

TABLE 2
Transportation Planning Factors

Land Use:	<u>Off</u>	<u>ice</u>	Resid	<u>ential</u>		nation tail		<u>cal</u> tail	Comm Faci (Offi	ility		nunity ility eation)	Fac	nunity cility nitory)	Comm Faci (Muse	ility
Trip Generation:	(1	1)	(-	1)	(1)	(1)	(1)	(4	1)	(5)	(1)
Weekday	1	8		75		3.2		05	18	8		1.7		4	27	7
Saturday	3.		9.	.6	92	2.5		40	3.			6.6	·	4	20	
	per 1,	000 sf	per	DU	per 1,	000 sf	per 1,	000 sf	per 1,0	000 sf	per 1,	000 sf	per	Unit	per 1,0	000 sf
Temporal Distribution:		1)		1)		1)		1)	(4		(4			,5)	(1	
AM (8-9)	12.			0%	3.0% 9.0%			0%	12.0		5.8		9.1%		1.0	
MD (12-1)	15.		5.0					.0%	15.0		7.4			7%	16.0	
PM (5-6)	14.		11.		9.0%		10.0%		14.0		7.6			.7%	13.0	
Sat MD (1-2)	17.	0%	8.0	0%	11.0%		10.0%		17.0	0%	10.	0%	8.0	0%	17.0	0%
	(3			(2)		4)	(4)		(3,		(4		(5)		(6	
Modal Splits:	AM/PM/SAT	MD		PM/SAT		PM/SAT		/PM/SAT	AM/PM/SAT	MD	AM/MD/		1	/PM/SAT	AM/MD/PM	SAT
Auto	38.7%	5.0%		7%		0%		0%	38.7%	5.0%	4.0		1	.0%	12.0%	14.0%
Taxi	1.9%	5.0%	2.0			5%		0%	1.9%	5.0%	9.0			0%	10.0%	10.0%
Subway	32.1%	10.0%	56.			5%		0%	32.1%	10.0%		0%	1	.5%	7.0%	7.0%
Bus	11.9%	5.0%	14.			0%		0%	11.9%	5.0%	5.0			.5%	29.0%	29.0%
Walk/Other	15.4%	75.0%	10.		35.			.0%	15.4%	75.0%	70.			.0%	42.0%	40.0%
	100.0%	100.0%	100	.0%	100	.0%	100	0.0%	100.0%	100.0%	100	.0%	100	0.0%	100.0%	100.0%
	(4			4)	(4)		4)	(4		(4			(5)	(6	
In/Out Splits:	In	Out	In	Out	ln	Out	In	Out	In	Out	In	Out	In	Out	In	Out
AM (8-9)	95%	5%	16%	84%	50%	50%	50%	50%	95%	5%	66%	34%	20%	80%	50%	50%
MD (12-1)	48%	52%	50%	50%	50%	50%	50%	50%	48%	52%	58%	42%	51%	49%	63%	37%
PM (5-6)	15%	85%	67%	33%	50%	50%	50%	50%	15%	85%	34%	66%	65%	35%	52%	48%
Sat MD (1-2)	60%	40%	53%	47%	50%	50%	50%	50%	60%	40%	58%	42%	51%	49%	63%	37%
Vehicle Occupancy:	(3		(3		(4)	(3,		(4			(5)	(6	
Auto	1.		1.			00		00	1.1			40		.20	2.3	
Taxi	1.4	40	1.	40	2.	00	2.	00	1.4	40	1	40	1.	.20	1.9	90
Truck Trip Generation:		I)		1)	(1)	(1)	(4		(4	4)		,5)	(6	
	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday	Weekday	Saturday
	0.32 per 1,	0.01	0.06	0.02 DU	0.35	0.04 000 sf	0.35	0.04 000 sf	0.32 per 1,0	0.01	0.04	0.01 000 sf	0.03	0.01 ,000 sf	0.05 per 1,0	0.01
	per i,	000 SI	per	DO	per i,	000 SI	per i,	000 SI	per i,t	J00 SI	per i,	000 SI	per i,	,000 SI	per 1,0	000 SI
	(1		('			1)		1)	(4			4)		,5)	(6	
AM (8-9)	10.			2%		0%		0%	10.0		7.7			7%	9.6	
MD (12-1)	11.		9.0			0%		0%	11.0		11.		1	1%	11.0	
PM (5-6)	2.0		2.0		2.0			0%	2.0		2.0			1%	1.0	
Sat MD (1-2)	11.	0%	9.0	0%	11.	0%	11.	.0%	11.0	0%	11.	0%	11.	.0%	11.0	0%
	In	Out	ln	Out	ln	Out	In	Out	In	Out	In	Out	In	Out	In	Out
All Peak Hours	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%

4 August 16, 2012

⁽¹⁾ Source: CEQR Technical Manual.

⁽²⁾ Based on 2000 US Census Journey-to-Work Data for Manhattan Tracts 213.01, 213.02, 217.01, 217.02, 219, 221.01, 221.02, 223.01, 223.02, 224, 225, 226, 227.01, 227.02, 229, 231.01, 231.02, 233, 235.01, 235.02 and 237.

⁽³⁾ Based on 2000 US Census Reverse Journey-to-Work Data (see above for tracts).

^{(4) 125}th Street Corridor Rezoning and Related Actions FEIS, February 2008.

⁽⁵⁾ Manhattanville in WestHarlem Rezoning and Academic Mixed-Use Development FEIS, 2007.

⁽⁶⁾ No. 7 Subway Extension- Hudson Yard Rezoning and Development Program FGEIS, 2004.

Residential

The forecast of travel demand from projected residential development was based on trip rate and temporal distribution data cited in the *CEQR Technical Manual*. The residential modal split reflects journey-to-work data from the 2000 Census. Although residential-based trips in the weekday and Saturday midday periods would likely be more local in nature than in the commuter peak hours (and therefore have a higher walk share, for example), the modal split based on census journey-to-work data is conservatively assumed for these periods for analysis purposes.

Destination Retail

For the purposes of the travel demand forecast, any site with greater than 10,000 sf of retail space is assumed to be destination retail. As shown in Table 2, trip generation rates and temporal distributions for destination retail uses were based on data from the *CEQR Technical Manual*, while modal splits, vehicle occupancy and directional distributions were based on data from the *125th Street Corridor Rezoning and Related Actions FEIS*.

Local Retail

It is anticipated that the local ("or neighborhood") retail uses developed under both the No-Action and With-Action scenarios would attract trips primarily from the residential and worker populations on-site and in surrounding neighborhoods. It is therefore anticipated that the majority of these trips would be via the walk mode and would not represent the addition of considerable numbers of new discrete trips to the study area street and transit systems. For the purposes of the travel demand forecast, it is assumed that 83 percent of local retail trips would be walk-only trips based on data from the 125th Street Corridor Rezoning and Related Actions FEIS. Trip generation rates and temporal and directional distributions were also based on data from this source and from the CEQR Technical Manual.

Community Facility

Table 3 shows the specific types of community facility uses that would be developed on each of the projected development sites under the RWCDS. These would include community facility-related office uses as well as recreation, dormitory and museum uses. As shown in Table 2, the factors used to forecast travel demand from these uses were developed from a variety of sources, including the *CEQR Technical Manual*, 2000 Census data and several EISs for other projects in Manhattan.

TRIP GENERATION

A travel demand forecast was prepared for each of the four reasonable worst case development scenarios based on the factors shown in Table 2 and discussed above. These scenarios include:

Scenario 1 – includes all sites without alternate scenarios plus sites 6a (85 percent community facility) and 40a (retain existing buildings);

Scenario 2 – includes all sites without alternate scenarios plus sites 6a (85 percent community facility) and 40b (new development);

5

Table 3
Net Change in Community Facility Uses on
Projected Development Sites Under the RWCDS

	i i ojedica Dovelopinoni chice chiaci in										
Site	Office (sf)	Recreation (sf)	Museum (sf)	Dormitory (sf/DU)	Total (sf)						
6a				(65,355) / (99)	(65,355)						
6b				(184,819) / (279)	(184,819)						
14	35,363				35,363						
15				60,532 / 91	60,532						
18	34,473				34,473						
40a	56,837	56,837	56,837		170,511						
40b	46,828	46,828	46,828		140,484						
50	33,039	33,039			66,078						
53	(941)				(941)						
54		(4,400)			(4,400)						
55	(1,100)				(1,100)						

Source: NYCDCP

Scenario 3 – includes all sites without alternate scenarios plus sites 6b (remove deed restriction) and 40a (retain existing buildings); and

Scenario 4 – includes all sites without alternate scenarios plus sites 6b (remove deed restriction) and 40b (new development).

Table 4 summarizes the results of the travel demand forecasts for these four scenarios. The data in Table 4 compare the net incremental increase (versus the No-Action condition) in the numbers of peak hour person and vehicle trips that would be generated by each scenario in 2021 with implementation of the Proposed Action. (More detailed travel demand forecast data for each scenario are presented in Tables A-1 through A-4 in the appendix.) As shown in Table 4, on weekdays, Scenario 3 would generate the greatest incremental increase in daily person trips (23,669 in and out combined) as well as vehicle trips (3,481). Weekday peak hour vehicle trips (in and out combined) under this scenario would total 299, 288 and 420 in the AM, midday and PM peak hours, respectively. (Vehicle trips include auto and truck trips, and trips by taxi which have been balanced to reflect that some taxis arrive or depart empty.) Scenario 3 would also generate the greatest incremental increase in transit trips during the peak weekday AM and PM commuter periods, with 417 subway trips and 154 bus trips in the AM and 558 subway trips and 298 bus trips in the PM.

On Saturdays, Scenario 4 would generate the greatest incremental increase in daily person trips (22,307 compared to 20,701 for Scenario 3) and vehicle trips (2,831 compared to 2,568 for Scenario 3). However, the incremental increase in total peak hour vehicle trips during the Saturday midday (312) would only amount to 16 additional trips compared to the 296 trips that would be generated under Scenario 3. Therefore, based on the travel demand forecast data presented in Table 4, Scenario 3 (RWCDS 3) was selected as the reasonable worst case development scenario for the transportation analyses.

Table 4
Comparison of Travel Demand From the Four Reasonable Worst Case Development Scenarios

	Comparison of Travel Demand From the Four Reasonable										nabie v	vorst Ca	se Deveic	pment Sc	enarios	
						Pe	ak Hour						Woo	ekdav	Satur	dov
		AM			Midday			PM		Sat	urday Mi	dday	wee	екиау	Satur	uay
	In	Out	Total	In	Out	Total	ln	Out	Total	In	Out	Total	Total Daily Person Trips	Total Daily Vehicle Trips (1)	Total Daily Person Trips	Total Daily Vehicle Trips (1)
Scenario 1								•			•					•
Total Person Trips	818	509	1,327	1,419	1,314	2,733	979	1,359	2,338	1,119	970	2,089				
Auto Trips	186	60	246	80	72	152	104	230	334	109	87	196				
Taxi Trips	39	27	66	92	82	174	63	79	142	84	71	155				2,434
Subway Trips	203	170	373	175	164	339	220	293	513	213	185	398	22,896	3,384	19,691	
Bus Trips	85	61	146	148	127	275	130	161	291	148	126	274				
Walk-Only Trips	305	191	496	924	869	1,793	462	596	1,058	565	501	1,066				
Vehicle Trips (1)	201	88	290	146	144	290	150	261	411	150	134	284				
Scenario 2																
Total Person Trips	680	563	1,243	1,353	1,256	2,609	1,028	1,245	2,273	1,171	1,051	2,222				
Auto Trips	131	68	199	78	71	149	103	174	277	107	91	198				
Taxi Trips	38	30	68	93	83	176	70	82	152	92	84	176				
Subway Trips	161	198	359	183	173	356	246	264	510	236	212	448	22,828	3,279	21,297	2,703
Bus Trips	73	71	144	149	132	281	139	152	291	161	143	304				
Walk-Only Trips	277	196	473	850	797	1,647	470	573	1,043	575	521	1,096				
Vehicle Trips (1)	150	92	243	142	139	281	151	213	364	154	144	298				
Scenario 3																
Total Person Trips	825	561	1,386	1,433	1,328	2,761	1,021	1,376	2,397	1,152	997	2,149				
Auto Trips	188	71	259	83	75	158	114	234	348	116	92	208				
Taxi Trips	39	27	66	92	82	174	63	79	142	84	72	156				
Subway Trips	209	208	417	186	175	361	251	307	558	236	205	441	23,669	3,481	20,701	2,568
Bus Trips	86	68	154	150	129	279	135	163	298	154	130	284			20,701	2,300
Walk-Only Trips	303	187	490	922	867	1,789	458	593	1,051	562	498	1,060	60			
Vehicle Trips (1)	202	96	299	145	143	288	157	263	420	157	139	296				

7

August 16, 2012

Table 4 (continued)
Comparison of Travel Demand Under RWCDS 1-4

		Peak Hour											Weekday		Saturday	
		AM			Midday			PM		Satu	ırday Mid	day	wee	екаау	Satu	irday
	In	Out	Total	In	Out	Total	In	Out	Total	In	Out	Total	Total Daily Person Trips	Total Daily Vehicle Trips (1)	Total Daily Person Trips	Total Daily Vehicle Trips (1)
Scenario 4																
Total Person Trips	686	614	1,300	1,366	1,269	2,635	1,069	1,263	2,332	1,203	1,076	2,279				
Auto Trips	132	78	210	81	74	155	113	179	292	114	96	210	1			
Taxi Trips	38	30	68	92	82	174	70	82	152	93	84	177				
Subway Trips	167	236	403	194	184	378	277	278	555	258	231	489	23,602	3,376	22,307	2,831
Bus Trips	74	78	152	151	134	285	144	154	298	166	147	313				
Walk-Only Trips	275	192	467	848	795	1,643	465	570	1,035	572	518	1,090				
Vehicle Trips (1)	151	100	252	143	140	283	157	215	372	162	150	312				

⁽¹⁾ Vehicle trips include auto, truck and balanced taxi trips.

PARKING

Parking demand from retail and commercial uses typically peaks in the midday period and declines during the afternoon and evening. By contrast, residential demand typically peaks in the overnight period. The parking analyses therefore document changes in off-street parking utilization in proximity to projected development sites during the weekday midday and overnight periods under the No-Action condition and the With-Action condition under Scenario 3. On-street parking conditions (existing curbside regulations and parking utilization) in the vicinity of projected development sites are also documented for these periods. As it is anticipated that available parking capacity would be limited within ¼-mile of the projected development sites that are expected to generate the most parking demand, the off-street public parking analysis study area encompasses a ½-mile radius around these sites. This is to reflect the fact that some project-generated parking demand would likely occur at more distant parking facilities, as well as to provide data to facilitate the assignment of project-generated auto trips to off-site parking.

Parking demand generated by new residential development is forecast based on the most recently available Census auto ownership data by income group for the proposed rezoning area. Parking demand from retail and other commercial uses and from community facility uses is derived from the forecasts of daily auto trips from these uses. The forecast of new parking supply is based on the net change in parking spaces on projected development sites, consistent with the RWCDS.

SELECTION OF PEAK HOURS FOR ANALYSIS

As discussed above, under the RWCDS for the transportation analyses (Scenario 3), the Proposed Action would result in a net increase of 299, 288, 420, and 296 vehicle trips in the weekday AM, midday and PM, and Saturday midday peak hours, respectively. Under *CEQR Technical Manual* criteria, if a proposed action in any area of the city would generate greater than 50 peak hour vehicle trip ends, there is likely a need for further analysis. The EIS traffic analyses therefore quantitatively examine conditions in the weekday AM, midday, PM and Saturday midday peak hours. Based on automatic traffic recorder counts of existing traffic volumes along major corridors in the study area, the peak hours selected for the weekday analyses are 7:45-8:45 AM, 1-2 PM and 4:45-5:45 PM. The Saturday analysis focuses on the 1-2 PM peak hour.

Transit (subway and bus) analyses generally examine conditions during the weekday 8-9 AM and 5-6 PM commuter peak periods, as it is during these times that overall transit demand (and the potential for significant adverse impacts) is typically greatest. The analyses of transit conditions therefore focus on these two periods.

Walk-only trips from projected development sites (i.e., walk trips not associated with other modes) would be widely dispersed among pedestrian facilities throughout the proposed rezoning area. However, concentrations of new pedestrian trips are expected during the AM and PM commuter peak periods along corridors connecting projected development sites to area subway stations. The analyses of pedestrian conditions therefore focus on the weekday AM and PM peak hours for commuter demand, as well as the weekday and Saturday midday peak hours to assess the effects of midday pedestrian demand from commercial and retail uses.

TRIP ASSIGNMENT AND ANALYSIS LOCATIONS

As shown in Figure 1, there are a total of 22 projected development sites in the proposed rezoning area, generally concentrated in four specific geographic areas. Therefore, for analysis purposes, a majority of the sites have been aggregated into the following four "clusters":

Cluster 1: Sites 13, 14, 15, 17, 18, 19, 40a and 50

Cluster 2: Sites 4, 5, 6b, 7, 8, 9 and 53

Cluster 3: Sites 1 and 2

Cluster 4: Sites 54 and 55

Sites 10, 11 and 12 were considered "outliers" because they are relatively small sites that are not located in proximity to any of the clusters identified above.

As discussed above, Scenario 3 was selected as the RWCDS for the transportation analyses. Tables 5 and 6, below, summarize the net incremental change in peak hour person trips and vehicle trips, respectively, that would be generated under the RWCDS by each of the four projected development site clusters along with the three outlier sites. (Detailed demand forecasts for each of the four projected development site clusters and the three outlier sites are provided in Tables A-5 through A-11 in the appendix.) As shown in Table 5, Cluster 1 (comprised of development sites in the vicinity of West 126th Street) would generate a net total of 1,127, 1,926, 1,834 and 1,515 person trips in the weekday AM, midday, PM and Saturday midday peak hours, respectively. As shown in Table 6, vehicle trips (auto, taxi and truck trips combined) generated by Cluster 1 would total 268, 246, 370 and 244 during these periods, respectively. Overall, it is estimated that this development cluster would account for approximately 70 percent to 81 percent of the total person trips and 81 percent to 86 percent of the total vehicle trips generated by the RWCDS. Clusters 2, 3 and 4 would each generate 34 or fewer vehicle trips in any one peak hour, and these trips would be widely dispersed along the street network in the central and northern portions of the rezoning area. Lastly, as also shown in Table 6, given their relatively small development programs (i.e., two dwelling units each), outlier projected development sites 10, 11 and 12 are not expected to generate an appreciable number of vehicle trips in any peak hour.

Table 5
Net Incremental Person Trips Generated by
Projected Development Sites Under Scenario 3

	AM	Midday	PM	Saturday Midday
Cluster 1	1,127	1,926	1,834	1,515
Cluster 2	158	443	299	308
Cluster 3	91	246	197	237
Cluster 4	14	146	70	87
Site 10	2	1	2	2
Site 11	2	1	2	2
Site 12	2	1	2	2
Total	1,396	2,764	2,406	2,153

Table 6
Net Incremental Vehicle Trips Generated by
Projected Development Sites Under Scenario 3

	AM	Midday	PM	Saturday Midday
Cluster 1	268	246	370	244
Cluster 2	32	28	34	27
Cluster 3	13	24	22	28
Cluster 4	-3	2	3	4
Site 10	0	0	0	0
Site 11	0	0	0	0
Site 12	0	0	0	0
Total	310	300	429	303

Note: The sum of peak hour vehicle trips by cluster may differ slightly from the numbers shown in Table 4 due to rounding and the balancing of taxis on a cluster by cluster basis.

Vehicle Trip Assignment

Rezoning Area Street Network

The rezoning area street system consists of urban arterials connecting with an irregular grid network of West Harlem's local streets (see Figure 2). The east-west local grid is discontinuous between West 130th and West 141st Streets, while the north-south arterial grid is generally continuous throughout the area. Principal arterials within and in the immediate vicinity of the rezoning area include West 155th Street to the north, West 125th Street to the south and, from west to east, Broadway, Amsterdam, Morningside, and St. Nicholas avenues, and Frederick Douglass and Adam Clayton Powell Jr. boulevards.

North-South Avenues

The westernmost of the north-south arterials expected to be used by appreciable numbers of project-generated trips is **Broadway**, which operates two-way with two to three travel lanes in each direction plus curbside parking/loading. Exclusive left-turn lanes are typically provided at major intersections, and the roadway is bisected by support columns for the elevated subway structure carrying NYC Transit's Broadway Line (No. 1 trains). Broadway is a designated local truck route.

Paralleling Broadway to the east is two-way **Amsterdam Avenue** which typically operates with two travel lanes and curbside parking/loading in each direction and is a designated local truck route. Continuing east, the next north-south arterial is two-way **Morningside Avenue**. To the south of West 126th Street, Morningside Avenue typically operates with two travel lanes in each direction with parking/loading along each curb. North of West 126th Street, Morningside Avenue narrows to one travel lane in each direction plus curbside parking/loading. North of West 127th Street the roadway continues as Convent Avenue.

St. Nicholas Avenue is a two-way roadway that approaches the study area from the southeast on a diagonal alignment until intersecting Manhattan Avenue at West 124th Street where it continues on an alignment generally parallel to the other north-south avenues in the



rezoning area. It typically operates with one travel lane and a bicycle lane in each direction plus parking/loading along both curbs.

One of two key arterials to the east of the rezoning area is **Frederick Douglas Boulevard** (**Eighth Avenue**), which operates two-way with two travel lanes plus curbside parking/loading in each direction. The second key north-south arterial to the east of the rezoning area is **Adam Clayton Powell Jr. Boulevard (Seventh Avenue)** which operates two-way with three moving lanes plus curbside parking/loading in each direction. The northbound and southbound lanes are separated by a planted median, and the street is a designated local truck route.

East-West Cross Streets

The east-west street system in the vicinity of the rezoning area is generally discontinuous with the exception of West 125th Street and West 126th Street. The major river to river east-west corridor in proximity to Cluster 1 is **West 125th Street (Dr. Martin Luther King Jr. Boulevard)**, which operates two-way, typically with two moving lanes plus curbside parking/loading in each direction. The street is a major retail corridor characterized by heavy pedestrian activity (especially east of Morningside Avenue), and it is a designated local truck route.

One block north is **West 126th Street** which is one-way westbound. Although it operates as a local street, generally with one to two moving lanes plus curbside parking/loading, it also functions as a parallel diversion route to West 125th Street. West 126th Street ends at Broadway opposite West 129th Street. The next cross street to the north is **West 127th Street** which also operates one-way westbound, generally with one moving lane plus curbside parking/loading. West 127th Street ends to the east of Amsterdam Avenue where it intersects West 126th Street.

Traffic Assignment and Analysis Locations

The assignments of auto and taxi trips were based on the locations of individual projected development sites (or groups of development sites) within each cluster, the locations of off-street public parking garages that would likely be used by project-generated auto trips, and the anticipated origins and destinations of vehicle trips associated with the different uses projected for each site (e.g., commercial, residential, etc.). The origins/destinations of residential and non-retail commercial trips were determined based upon 2000 Census journey-to-work and reverse journey-to-work data, respectively. Retail trip origins/destinations were based on population density in proximity to the rezoning area.

Truck trips en route to and from each cluster were assigned based on the most direct paths to and from designated local and through truck routes. Local truck routes in the vicinity of the rezoning area include Broadway, Amsterdam Avenue, West 145th Street and West 125th Street.

Figure 2 shows the assignment of vehicle trips (including auto, taxi and truck trips) generated by all development sites under RWCDS 3 during the weekday AM, midday and PM and Saturday midday peak hours. (Vehicle trip assignments for each individual development cluster are shown in Figures A-1 through A-4 in the appendix.) As shown in Figure 2, action-generated vehicle trips would be most concentrated in the vicinity of Cluster 1 which would generate the majority of new travel demand under RWCDS 3. The maximum number of vehicles through any one intersection in any peak hour is expected to be approximately 188 vehicles at the intersection of West 126th Street and Amsterdam Avenue in the PM peak hour.

Overall, as shown in Figure 2, project-generated traffic is expected to exceed the 50-trip *CEQR Technical Manual* analysis threshold at a total of 11 intersections (10 signalized and one unsignalized) along the West 125th Street, West 126th Street, West 127th Street and West 128th Street corridors in one or more peak hours. Therefore, based on this traffic assignment, these 11 intersections have been selected for detailed analysis.

Transit Trip Assignment

Subway

There are a total of eight subway stations located in proximity to the rezoning area. As shown in Figure 3, these include four IND stations along St. Nicholas Avenue including express stops at West 125th Street and West 145th Street (served by A, B, C and D trains), and local stops at West 135th Street (B, C) and West 155th Street (C); three IRT stations along Broadway at West 125th Street, West 137th Street-City College and West 145th Street (all served by No. 1 trains); and an IND station at West 155th Street and Eighth Avenue (served by B and D trains).

According to the general thresholds used by the Metropolitan Transportation Authority (MTA) and specified in the *CEQR Technical Manual*, detailed transit analyses are generally not required if a Proposed Action is projected to result in fewer than 200 peak hour rail or bus transit riders. If a proposed action would result in 50 or more bus passengers being assigned to a single bus line (in one direction), or if it would result in an increase of 200 or more passengers at a single subway station or on a single subway line, a detailed bus or subway analysis would be warranted.

Table 7 shows the forecast of weekday AM and PM peak hour transit trips for the clusters of projected development sites. (Transit analyses typically focus on the weekday AM and PM commuter peak hours as it is during these periods that overall demand on the subway and bus systems is usually highest.) As shown in Table 7, it is estimated that under RWCDS 3, projected development sites in Cluster 1 would generate a total of 317 and 428 new subway trips in the weekday AM and PM peak hours, respectively. The remaining clusters and outlying development sites would each generate 78 or fewer new subway trips in any peak hour, and these trips are expected to occur at different subway stations than those serving Cluster 1. Therefore, only the two subway stations in proximity to Cluster 1 – the IND station at St. Nicholas Avenue and West 125th Street (served by A, B, C and D trains), and the IRT station at Broadway at West 125th Street (served by No. 1 trains) – would potentially experience an increase of 200 or more peak hour trips as a result of the Proposed Action.

To determine if both of these subway stations would require detailed analysis, the subway trips generated by Cluster 1 were assigned to each based on proximity to station entrances and existing ridership patterns for the subway routes serving each station. Based on 2010 turnstile registration data, it was estimated that approximately 77 percent of all the subway trips generated by Cluster 1 would use the IND station at St. Nicholas Avenue, while 23 percent would use the IRT local stop on Broadway. As shown in Table 8, based on this assignment, only the 125th Street IND station on St. Nicholas Avenue is expected to experience more than 200 action-generated trips, with approximately 244 trips in the AM peak hour and 330 in the PM peak hour. The 125th Street IRT station at Broadway would experience 73 and 98 trips during these peak hours, respectively. Therefore, the analysis of conditions at subway stations serving the rezoning area focus on street stairs and fare arrays at the 125th Street IND station at St. Nicholas Avenue that are expected to be used by project-generated trips in the AM and PM peak hours.

Rezoning Area Subway and Bus Services

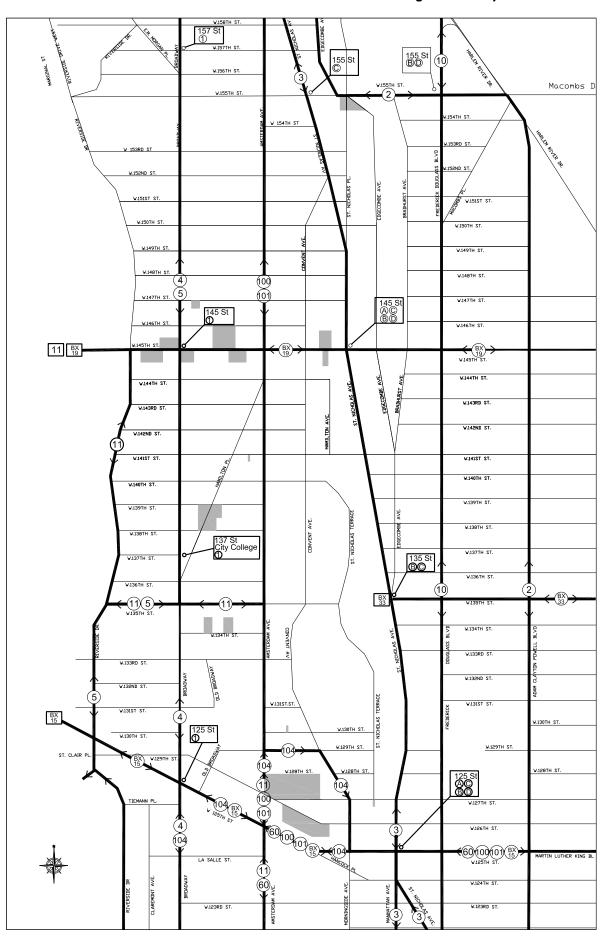


Table 7
Net Incremental Transit Trips Generated by
by Projected Development Sites Under RWCDS 3

	Sub	way	Ві	us
	AM	PM	AM	PM
Cluster 1	317	428	126	245
Cluster 2	65	78	17	27
Cluster 3	34	49	12	26
Cluster 4	0	3	2	6
Site 10	1	1	0	0
Site 11	1	1	0	0
Site 12	1	1	0	0
Total	419	561	155	304

Note: The sum of peak hour subway trips by cluster may differ slightly from the totals shown in Table 4 due to rounding.

Table 8
Project Increment Subway Trip Assignment by Station
Under RWCDS 3 - Cluster 1

Subway Station	AM Peak Hour	PM Peak Hour
West 125 th Street & St. Nicholas Avenue (A, B, C, D)	244	330
West 125 th Street & Broadway (1)	73	98
Total	317	428

Subway Line Haul

The proposed rezoning area is served by a total of five NYC Transit subway routes, including A and D express and B and C local services along the IND Eighth Avenue Line, and No. 1 local service on the IRT Broadway/Seventh Avenue Line. According to the general thresholds used by the MTA and specified in the *CEQR Technical Manual*, a detailed analysis of subway line haul conditions is generally not required if a Proposed Action is projected to result in fewer than 200 peak hour trips being assigned to a single route (in one direction), as this level of new demand is considered unlikely to result in significant adverse impacts. As shown in Table 7, it is estimated that all of the projected development sites within the proposed rezoning area would generate a combined total of 419 and 561 new subway trips in the weekday AM and PM peak hours, respectively. As these trips would be distributed among a total of five subway routes, it is unlikely that any one route would experience 200 or more trips in one direction in any peak hour. Therefore, the Proposed Action is not expected to result in any significant adverse impacts to subway line haul conditions based on *CEQR Technical Manual* criteria, and a detailed analysis is not warranted.

Bus

The proposed rezoning area is served by ten NYC Transit local bus routes that connect the area with other parts of Manhattan. As shown in Figure 3, these include the M2, M3, M4, M5, M10, M11, M60, M100, M101 and M104 routes. The rezoning area is also served by three NYC Transit local bus routes that connect Manhattan with the Bronx – the Bx6, Bx15 and Bx19.

According to the general thresholds used by the Metropolitan Transportation Authority (MTA) and specified in the CEQR Technical Manual, a detailed analysis of bus conditions is generally not required if a Proposed Action is projected to result in fewer than 50 peak hour trips being assigned to a single bus line (in one direction), as this level of new demand is considered unlikely to result in significant adverse impacts. As shown in Table 7, it is estimated that all of the projected development sites within the proposed rezoning area would generate a total of 155 and 304 new bus trips in the weekday AM and PM peak hours, respectively. As these trips would be widely disbursed throughout the study area and distributed among a total of 13 bus routes, it is highly unlikely that any one route would experience 50 or more trips in one direction in any peak hour. A preliminary assignment of bus trips was prepared to confirm this assumption, and this assignment is shown in Table A-12 in the appendix. To be conservative, all of the project-generated bus trips were assumed to be concentrated on the ten routes operating primarily in Manhattan. Trips were assigned to each route based on proximity to individual projected development sites and current ridership patterns. As shown in Table A-12, no one route is expected to experience more than 32 trips in one direction in either the AM or PM peak hours, below the 50-trip CEQR Technical Manual analysis threshold. Therefore, the Proposed Action is not expected to result in any significant adverse impacts to bus transit services based on CEQR Technical Manual criteria, and a detailed bus analysis is not warranted.

Pedestrian Trip Assignment

According to CEQR Technical Manual criteria, projected pedestrian volume increases of less than 200 pedestrians per hour at any pedestrian element would not typically be considered a significant impact, since that level of increase would not generally be noticeable and therefore would not require further analysis. As shown in Table 9, the maximum number of pedestrian trips generated by projected development site clusters 2, 3 and 4 in any one peak hour (including walk-only trips and walk trips to area subway stations and bus stops), is expected to total 411, 218 and 140, respectively. (Pedestrian trips generated by the three outlier sites are expected to be negligible.) However these trips would be widely dispersed among the sidewalks and crosswalks in proximity to each of the projected development sites within each of these clusters, and the total number of new trips at any one sidewalk or crosswalk is not expected to exceed the 200-trip CEQR Technical Manual analysis threshold.

By contrast, as shown in Table 9, substantially greater numbers of walk-only and transitrelated pedestrian trips are expected to be generated by Cluster 1, with a total of approximately 846 in the AM peak hour, 1,662 in the midday, 1,410 in the PM, and 1,217 during the Saturday midday. In addition, based on the assignment of project-generated auto trips, there would be an estimated 94, 42, 140 and 78 new pedestrian trips en route between Cluster 1 and outlying off-street public parking facilities in these same peak hours, respectively. Although these pedestrian trips would be dispersed throughout the portion of the rezoning area encompassing Cluster 1, concentrations of new pedestrian trips would likely occur along corridors connecting this cluster to bus routes and the two subway stations in the vicinity. Figure 4 shows the assignment of project increment pedestrian trips to area sidewalks

Peak Hour Project Increment Sidewalk and Crosswalk Volumes for RWCDS 3 - Cluster 1

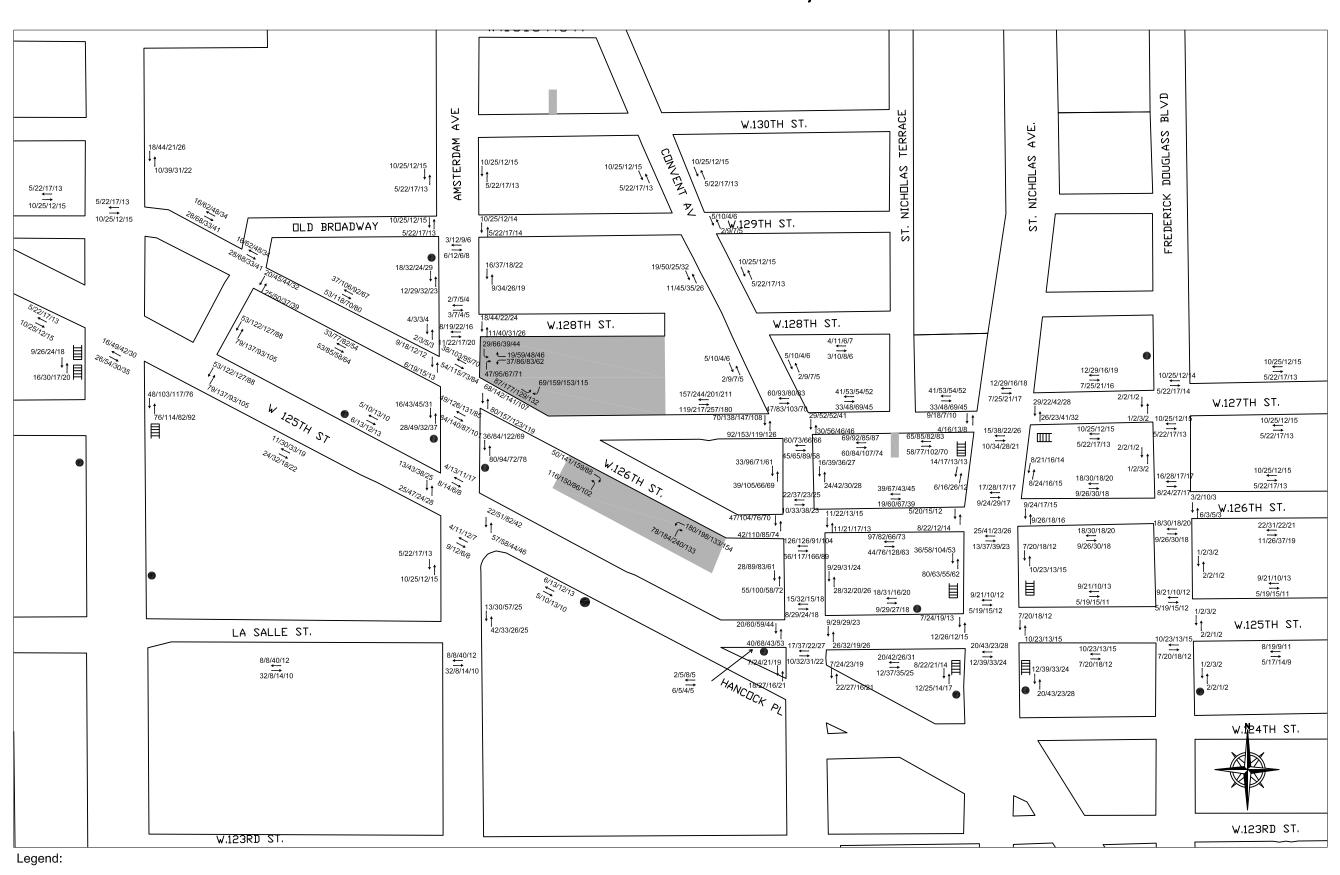


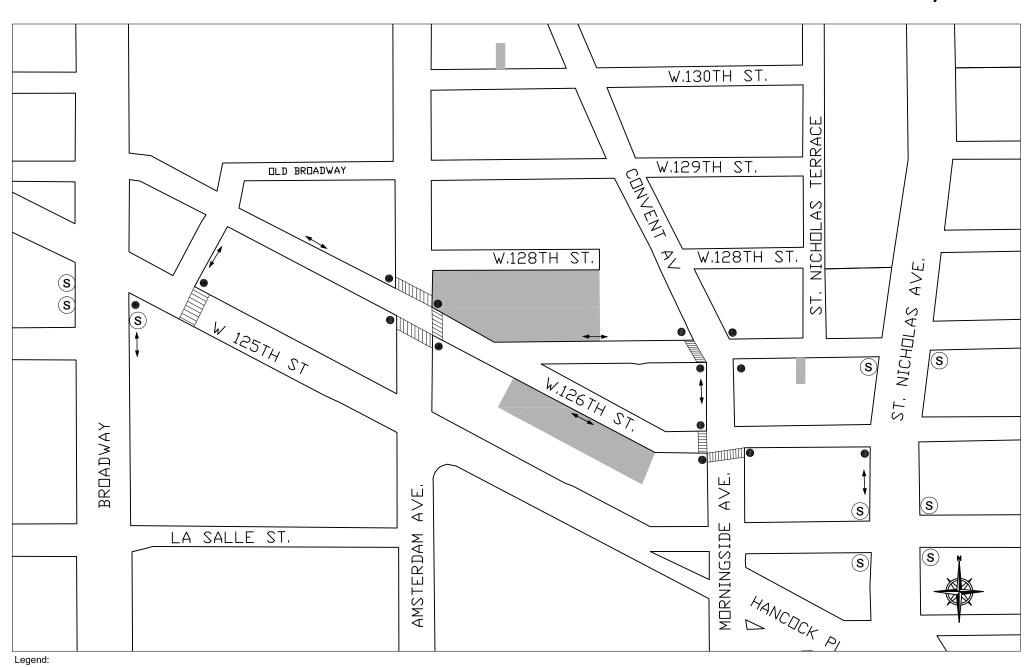
Table 9
Net Incremental Pedestrian Trips Generated by
Projected Development Sites Under Scenario 3

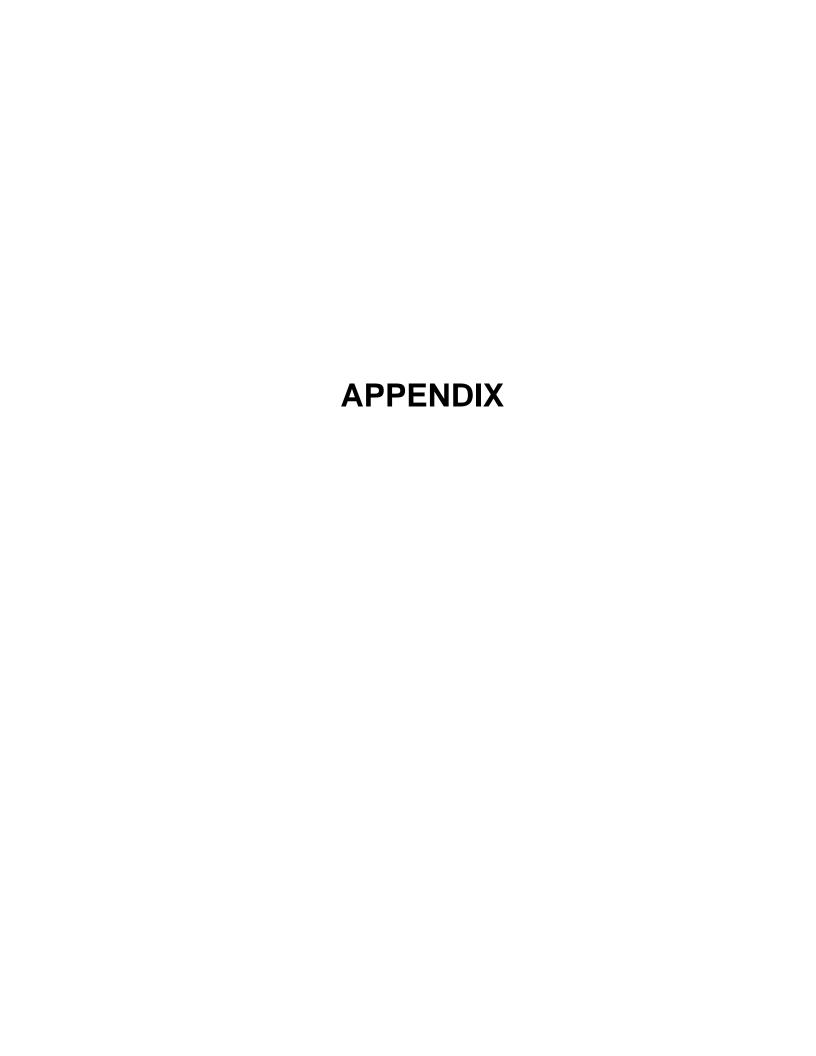
		AM	Midday	PM	Saturday Midday
Cluster 1		846	1,662	1,410	1,217
Cluster 2		124	411	258	277
Cluster 3		78	218	174	204
Cluster 4		16	140	68	84
Site 10		1	0	1	0
Site 11		1	0	1	0
Site 12		1	0	1	0
To	otal	1,067	2,431	1,913	1,782

and crosswalks in the weekday and Saturday peak hours. Subway and bus trips were assigned to the most direct routes between these transit services and projected development sites, while walk-only trips to/from projected development sites were assumed to be distributed throughout the area. Pedestrian trips en route between Cluster 1 and off-street public parking garages in the vicinity are also reflected in the volumes shown in Figure 4. Based on this assignment, a total of seven sidewalks, 14 corner reservoir areas and seven crosswalks were identified where project-generated pedestrian trips are expected to exceed the 200-trip *CEQR Technical Manual* analysis threshold in one or more peak hours. As shown in Figure 4, these pedestrian elements are generally located along the West 126th Street and West 127th Street corridors, as well as along West 125th Street at Morningside Avenue and Broadway. Therefore, a quantitative pedestrian impact analysis is provided in the EIS focusing on these seven sidewalks, 14 corner areas and seven crosswalks, which are shown in Figure 5.

Parking

As a quantitative traffic analysis is necessary, analyses of on-street (curbside) and off-street parking conditions are also provided. These analyses focus on the existing and future parking supply and demand in proximity to projected development site Cluster 1, which would generate the majority of the new vehicle trips and parking demand resulting from the proposed action.





	1		-				-		1		1		-		Travel Demand Forecast - Scenario 1					
Land Use	e:	Off	fice	Reside	ential	Destir Ret			ocal etail	(Of	nunity ility fice)	Fac	nunity cility ceation)	Fa	munity cility mitory)	Fac	nunity cility seum)		Total	
Size/Unit	ts:	80,854	gsf	344	DU	70,832	gsf	35,204	gsf	123,198	gsf	119,949	gsf	-4,823 -7	gsf Unit	56,837	gsf			
Peak Ho	AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	17 21 20 5	18	27 13 30 26	9 96	12 37 37 54	'4 '4	1,0	62 028 41 34			39	11 97 07		-3 -1 -3 -2	2	15 246 199 199		1,329 2,733 2,339 2,090	
Person T	Trips:	In	Out	To.	Out	In	Out	In	Out	In	Out	T _D	Out	In	Out	In	Out	In	Out	Total
AM	Auto Taxi Subway Bus Walk/Other Total	In 64 3 53 20 26 166	Out 3 0 3 1 1 8	In 7 1 25 6 4 43	Out 39 5 132 34 23 233	In 6 9 13 12 22 62	Out 6 9 13 12 22 62	In 2 2 5 5 67 81	Out 2 2 5 5 81	In 98 5 81 30 39 253	Out 5 0 4 2 2 13	In 8 18 25 10 144 205	Out 4 10 13 5 74 106	In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Out 0 0 -1 0 -1 -2	In 1 1 2 3 8	Out 1 1 1 2 3 8	In 186 39 203 85 305 818	Out 60 27 170 61 191 509	Total 246 66 373 146 496 1,327
MD	Auto Taxi Subway Bus Walk/Other Total	In 5 5 10 5 79 104	Out 6 6 11 6 85 114	In 12 1 39 10 7 69	Out 12 1 39 10 7 69	In 17 27 40 37 <u>65</u> 186	Out 17 27 40 37 65 186	In 10 15 31 31 427 514	Out 10 15 31 31 427 514	In 8 8 16 8 120 160	Out 9 9 17 9 130 174	In 9 21 28 12 161 231	Out 7 15 20 8 117 167	In 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	In 19 15 11 45 65 155	Out 11 9 6 26 38 90	In 80 92 175 148 <u>924</u> 1,419	Out 72 82 164 127 869 1,314	Total 152 174 339 275 1,793 2,733
PM	Auto Taxi Subway Bus Walk/Other Total	In 12 1 10 4 <u>5</u> 32	Out 67 3 56 21 27 174	In 34 4 116 30 20 204	Out 17 2 57 15 10	In 17 27 40 37 <u>65</u> 186	Out 17 27 40 37 <u>65</u> 186	In 5 8 16 16 225 270	Out 5 8 16 16 225 270	In 18 1 15 6 7 47	Out 102 5 85 31 41 264	In 6 12 17 7 97 139	Out 11 24 32 13 188 268	In 0 0 -1 0 -1 2	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In 12 10 7 30 <u>44</u> 103	Out 11 10 7 28 40 96	In 104 63 220 130 <u>462</u> 979	Out 230 79 293 161 <u>596</u> 1,359	Total 334 142 513 291 1,058 2,338
Sat MD	Auto Taxi Subway Bus Walk/Other Total	In 12 1 10 4 5 32	Out 8 0 7 3 3 21	In 23 3 79 20 14 139	Out 21 2 70 18 12 123	In 24 39 58 54 95 270	Out 24 39 58 54 95 270	In 6 10 19 19 263 317	Out 6 10 19 19 263 317	In 19 1 16 6 8 50	Out 13 1 10 4 <u>5</u> 33	In 7 17 22 9 130 185	Out 5 12 16 7 94 134	In 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	In 18 13 9 36 50 126	Out 10 7 5 21 29 72	In 109 84 213 148 <u>565</u> 1,119	Out 87 71 185 126 501 970	Total 196 155 398 274 1,066 2,089
Vehicle T	Trips :																			
АМ	Auto (Total) Taxi Taxi Balanced Truck Total	In 56 2 2 1 59	Out 3 0 2 1 6	In 6 1 4 1 11	Out 31 4 4 1 36	In 3 5 8 <u>1</u> 12	Out 3 5 8 <u>1</u> 12	In 1 2 0 3	Out 1 1 2 0 3	In 86 4 3 <u>2</u> 91	Out 4 0 3 2 9	In 6 13 17 0 23	Out 3 7 17 0 20	In 0 0 0 0 0 0 0 0	Out 0 0 0 0 0	In 0 1 2 0 2	Out 0 1 2 0 2	In 158 27 38 <u>5</u> 201	Out 45 18 38 <u>5</u> 88	Total 203 76 11 290
MD	Auto (Total) Taxi Taxi Balanced Truck Total	In 4 4 7 1	Out 5 4 7 <u>1</u> 13	In 10 1 2 1 13	Out 10 1 2 1 13	In 9 14 24 <u>1</u> 34	Out 9 14 24 <u>1</u> 34	In 5 8 14 <u>1</u> 20	Out 5 8 14 <u>1</u> 20	In 7 6 10 2 19	Out 8 6 10 2 20	In 6 15 23 <u>0</u> 29	Out 5 11 23 <u>0</u> 28	In 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	In 8 8 11 0 19	Out 5 5 11 <u>0</u> 16	In 49 56 91 <u>6</u> 146	Out 47 49 91 <u>6</u> 144	Total 96 182 <u>12</u> 290
PM	Auto (Total) Taxi Taxi Balanced Truck Total	In 11 1 3 0 14	Out 59 2 3 <u>0</u> 62	In 27 3 4 <u>0</u> 31	Out 13 1 4 <u>0</u> 17	In 9 14 25 <u>0</u> 34	Out 9 14 25 <u>0</u> 34	In 3 4 7 <u>0</u> 10	Out 3 4 7 <u>0</u> 10	In 16 1 4 <u>0</u> 20	Out 89 4 4 0 93	In 4 9 23 <u>0</u> 27	Out 8 17 23 <u>0</u> 31	In 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	In 5 5 9 <u>0</u> 14	Out 5 5 9 <u>0</u> 14	In 75 37 75 0 150	Out 186 47 75 <u>0</u> 261	Total 261 150 <u>0</u> 411
Sat MD	Auto (Total) Taxi Taxi Balanced Truck Total	In 11 1 1 0 12	Out 7 0 1 <u>0</u> 8	In 18 2 3 <u>0</u> 21	Out 17 1 3 <u>0</u> 20	In 12 20 33 0 45	Out 12 20 33 <u>0</u> 45	In 3 5 9 <u>0</u> 12	Out 3 5 9 0 12	In 17 1 2 <u>0</u> 19	Out 11 1 2 <u>0</u> 13	In 5 12 18 <u>0</u> 23	Out 4 9 18 0 22	In 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	In 8 7 10 <u>0</u> 18	Out 4 4 10 0 14	In 74 48 76 0 150	Out 58 40 76 <u>0</u> 134	Total 132 152 <u>0</u> 284
	Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	<u>In</u> 201 146 150 150	Out 88 144 261 134	Total 290 290 411 284		l														

								Travel Den	nand Forecast - Scenario 2
Land Use: Size/Units:	Office	Residential 414 DU	Destination Retail	Local Retail	Community Facility (Office) 113,189 gsf	Community Facility (Recreation) 109,940 gsf	Community Facility (Dormitory) -4,823 gsf	Community Facility (Museum) 46,828 gsf	Total
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	34 43 40 11	334 167 368 318	168 503 503 727	162 1,028 541 634	244 306 285 75	285 364 373 292	-7 Unit -3 -1 -3 -2	13 202 164 164	1,238 2,612 2,272 2,219
Person Trips: AM Auto Taxi Subway Bus Walk/Other	In Out 13 1 1 0 10 1 4 0 5 0	In Out 9 47 1 6 300 159 8 41 5 28	In Out 8 8 8 12 12 12 18 18 17 17 29 29	In Out 2 2 2 2 5 5 5 5 5 67 67 67 67	In Out 90 5 4 0 75 4 28 1 36 2	In Out 8 4 17 9 23 12 9 5 132 68	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 1 1 1 1 0 0 2 2 3 3	In Out Total 131 68 199 38 30 68 161 198 359 73 71 144 277 196 473
Total MD Auto Taxi Subway Bus Walk/Other Total	33 2 In Out 1 1 1 2 2 1 155 17 20 22	53 281 In Out 14 14 2 2 47 47 12 12 8 8 83 83	84 84 In Out 23 23 36 36 54 54 50 50 88 88 251 251	81 81 In Out 10 10 15 15 31 31 31 31 427 427 514 514	233 12 In Out 7 8 7 8 15 16 7 8 110 119 146 159	In Out 8 6 19 14 25 18 11 8 148 107 211 153	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 7 In Out 15 9 13 7 9 5 37 22 54 31 128 74	680 563 1,243 In Out Total 78 71 149 93 83 176 183 173 356 149 132 281 850 797 1,647 1,353 1,256 2,609
PM Auto Taxi Subway Bus Walk/Other Total	In Out 2 13 0 1 2 11 1 4 1 5 6 34	In Out 41 20 5 2 140 69 36 18 25 12 247 121	In Out 23 23 36 36 54 54 50 50 88 88 251 251	In Out 5 5 5 8 8 8 16 16 16 225 225 270 270	In Out 17 94 1 5 14 78 5 29 7 37 44 243	In Out 5 10 11 22 15 30 6 12 89 173 126 247	In Out 0 0 0 0 -1 0 0 0 -1 0 0 0 -1 0 0 0 -1 0	In Out 10 9 8 6 6 6 25 23 36 33 86 79	In Out Total 103 174 277 70 82 152 246 264 510 139 152 291 470 573 1,043 1,028 1,245 2,273
Sat MD Auto Taxi Subway Bus Walk/Other Total	In Out 2 2 0 0 2 1 1 1 1 1 5 5	In Out 28 25 3 3 96 85 25 22 17 15 169 150	In Out 33 33 53 53 78 78 73 73 127 127 364 364	In Out 6 10 10 19 19 19 19 263 263 317 317	In Out 17 12 1 1 14 10 5 4 7 5 44 32	In Out 7 5 15 11 20 15 8 6 119 86 169 123	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 14 8 10 6 7 4 30 18 41 24 102 60	In Out Total 107 91 198 92 84 176 236 212 448 161 143 304 575 521 1,096 1,171 1,051 2,222
Vehicle Trips : AM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 11 1 1 0 1 1 0 0 12 2	In Out 7 37 1 4 4 4 2 2 2 13 43	In Out 4 4 6 6 10 10 1 15 15	In Out 1 1 1 1 2 2 0 0 3 3	In Out 79 4 3 0 3 3 2 2 84 9	In Out 6 3 12 6 15 15 0 0 21 18	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 1 1 2 2 2 0 0 2 2	In Out Total 108 50 158 25 18 37 37 74 5 5 11 150 92 243
MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 1 1 1 2 0 0 3 3	In Out 11 11 1 2 2 2 1 14 14	In Out 12 12 18 18 30 30 2 2 44 44	In Out 5 5 8 8 14 14 14 1 20 20	In Out 6 7 5 6 10 10 2 2 18 19	In Out 6 4 14 10 21 21 0 0 27 25	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 6 4 7 4 10 10 0 0 16 14	In Out Total 47 44 91 54 48 89 89 178 6 6 12 142 139 281
PM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 11 0 1 1 1 0 0 3 12	In Out 33 16 4 1 4 4 0 0 37 20	In Out 12 12 18 18 33 33 0 0 45 45	In Out 3 3 4 4 7 7 0 0 10 10	In Out 15 82 1 4 4 4 0 0 19 86	In Out 4 7 8 16 21 21 0 0 25 28	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 4 4 5 4 8 8 0 0 12 12	In Out Total 73 135 208 40 48 78 78 156 0 0 0 151 213 364
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 2 0 0 0 0 0 0 2 2 2	In Out 22 20 2 2 3 3 0 0 25 23	In Out 17 17 27 27 47 47 0 0 64 64	In Out 3 3 5 5 9 9 0 0 12 12	In Out 15 11 1 1 2 2 0 0 17 13	In Out 5 4 11 8 16 16 0 0 21 20	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 6 3 5 3 7 7 0 0 13 10	In Out Total 70 60 130 51 46 84 84 168 0 0 0 154 144 298
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	In Out 150 92 142 139 151 213 154 144	Total 243 281 364 298	,	,	,		'		

		-	1	-		-	1	-	1	- 1		- 1			1				
Land Use:	Office		Reside		Re	nation tail	Lo Re	tail	Comm Faci (Off	ility lice)	Comn Fac (Recre	ility eation)	(Dorn	ility nitory)		ility seum)		Total	
Size/Units:	80,854	gsf	499	DU	70,832	gsf	35,204	gsf	123,198	gsf	119,949	gsf	-124,287 -188	gsf Unit	56,837	gsf			
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	175 218 204 54		40 20 44 38	3	3	25 74 74 41	16 1,0 54 63)28 41	26 33 31 8	33	31 39 40 31	97 97	-3 -8	58 35 30 50	1 24 19	99		1,389 2,762 2,399 2,151	
Person Trips:		0.		0.		0.		0		0.		0.		0.		0.		0.	T . 1
AM Auto Taxi Subway Bus Walk/Other Total	In 64 3 53 20 26 166	Out 3 0 3 1 1 1 8	In 11 37 9 <u>6</u> 64	Out 57 7 192 49 <u>34</u> 339	In 6 9 13 12 22 62	Out 6 9 13 12 22 62	In 2 2 5 5 67 81	Out 2 2 5 5 67 81	In 98 5 81 30 <u>39</u> 253	Out 5 0 4 2 2 13	In 8 18 25 10 144 205	Out 4 10 13 5 74 106	In -2 0 -6 -2 <u>-4</u> -14	Out -7 -2 -23 -8 -16 -56	In 1 1 2 3 8	Out 1 1 1 2 3 8	In 188 39 209 86 303 825	Out 71 27 208 68 187 561	Total 259 66 417 154 490 1,386
MD Auto Taxi Subway Bus Walk/Other Total	In 5 5 10 5 79 104	Out 6 6 11 6 85 114	In 17 2 57 15 10	Out 17 2 57 15 10 101	In 17 27 40 37 <u>65</u> 186	Out 17 27 40 37 <u>65</u> 186	In 10 15 31 31 427 514	Out 10 15 31 31 427 514	In 8 8 16 8 120 160	Out 9 9 17 9 130 174	In 9 21 28 12 161 231	Out 7 15 20 8 <u>117</u> 167	In -2 -1 -7 -3 -5 -18	Out -2 -1 -7 -3 <u>-5</u> -18	In 19 15 11 45 <u>65</u> 155	Out 11 9 6 26 38 90	In 83 92 186 150 922 1,433	Out 75 82 175 129 <u>867</u> 1,328	Total 158 174 361 279 1,789 2,761
PM Auto Taxi Subway Bus Walk/Other Total	In 12 1 10 4 5 32	Out 67 3 56 21 27 174	In 50 6 168 43 30 297	Out 24 3 83 21 15 146	In 17 27 40 37 <u>65</u> 186	Out 17 27 40 37 <u>65</u> 186	In 5 8 16 16 225 270	Out 5 8 16 16 225 270	In 18 1 15 6 7 47	Out 102 5 85 31 41 264	In 6 12 17 7 <u>97</u> 139	Out 11 24 32 13 <u>188</u> 268	In -6 -2 -22 -8 -15 -53	Out -3 -1 -12 -4 -8 -28	In 12 10 7 30 44 103	Out 11 10 7 28 40 96	In 114 63 251 135 <u>458</u> 1,021	Out 234 79 307 163 <u>593</u> 1,376	Total 348 142 558 298 1,051 2,397
Sat MD Auto Taxi Subway Bus Walk/Other Total	In 12 1 10 4 5 32	Out 8 0 7 3 3 21	In 34 4 115 30 20 203	Out 30 4 102 26 18 180	In 24 39 58 54 95 270	Out 24 39 58 54 95 270	In 6 10 19 19 263 317	Out 6 10 19 19 263 317	In 19 1 16 6 8 50	Out 13 1 10 4 5 33	In 7 17 22 9 130 185	Out 5 12 16 7 94 134	In -4 -1 -13 -4 -9 -31	Out -4 -1 -12 -4 -9 -30	In 18 13 9 36 50 126	Out 10 7 5 21 29 72	In 116 84 236 154 <u>562</u> 1,152	Out 92 72 205 130 498 997	Total 208 156 441 284 1,060 2,149
Vehicle Trips :																			
AM Auto (Total) Taxi Taxi Balanced Truck Total	In 56 2 2 1 59	Out 3 0 2 1 6	In 9 1 5 2 16	Out 45 5 5 2 52	In 3 5 8 1	Out 3 5 8 <u>1</u> 12	In 1 2 0 3	Out 1 1 2 0 3	In 86 4 3 2 91	Out 4 0 3 2 9	In 6 13 17 0 23	Out 3 7 17 <u>0</u> 20	In -2 0 -2 <u>0</u> -4	Out -6 -2 -2 0 -8	In 0 1 2 0 2	Out 0 1 2 0 2	In 159 27 37 <u>6</u> 202	Out 53 17 37 <u>6</u> 96	Total 212 74 13 299
MD Auto (Total) Taxi Taxi Balanced Truck Total	In 4 4 7 1 12	Out 5 4 7 <u>1</u> 13	In 13 1 2 1 16	Out 13 1 2 1 16	In 9 14 25 <u>1</u> 35	Out 9 14 25 <u>1</u> 35	In 5 8 14 1 20	Out 5 8 14 <u>1</u> 20	In 7 6 10 2 19	Out 8 6 10 2 20	In 6 15 22 0 28	Out 5 11 22 0 27	In -2 -1 -2 0 -4	Out -2 -1 -2 0 -4	In 8 8 11 0 19	Out 5 5 11 0 16	In 50 55 89 <u>6</u> 145	Out 48 48 89 <u>6</u> 143	Total 98 178 12 288
PM Auto (Total) Taxi Taxi Balanced Truck Total	In 11 1 3 0 14	Out 59 2 3 0 62	In 40 4 5 <u>0</u> 45	Out 19 2 5 <u>0</u> 24	In 9 14 26 <u>0</u> 35	Out 9 14 26 <u>0</u> 35	In 3 4 7 0 10	Out 3 4 7 <u>0</u> 10	In 16 1 4 <u>0</u> 20	Out 89 4 4 0 93	In 4 9 23 <u>0</u> 27	Out 8 17 23 <u>0</u> 31	In -5 -2 -3 <u>0</u> -8	Out -3 -1 -3 0 -6	In 5 5 9 0 14	Out 5 5 9 <u>0</u> 14	In 83 36 74 <u>0</u> 157	Out 189 47 74 <u>0</u> 263	Total 272 148 <u>0</u> 420
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In 11 1 1 0 12	Out 7 0 1 0 8	In 27 3 5 <u>0</u> 32	Out 24 3 5 0 29	In 12 20 34 <u>0</u> 46	Out 12 20 34 <u>0</u> 46	In 3 5 9 0 12	Out 3 5 9 0 12	In 17 1 2 0 19	Out 11 1 2 0 13	In 5 12 18 0 23	Out 4 9 18 0 22	In -3 -1 -2 0 -5	Out -3 -1 -2 0 -5	In 8 7 10 <u>0</u> 18	Out 4 4 10 0 14	In 80 48 77 <u>0</u> 157	Out 62 41 77 <u>0</u> 139	Total 142 154 <u>0</u> 296
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	202 145	Out 96 143 263 139	Total 299 288 420 296		1		1	<u> </u>			1		ı		ı		1		

									nand Forecast - Scenario 4
Land Use: Size/Units:	Office	Residential 569 DU	Destination Retail	Local Retail	Community Facility (Office) 113,189 gsf	Community Facility (Recreation) 109,940 gsf	Community Facility (Dormitory) -124,287 gsf	Community Facility (Museum) 46,828 gsf	Total
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	34 43 40 11	459 230 505 437	168 503 503 727	162 1,028 541 634	244 306 285 75	285 364 373 292	-188 Unit -68 -35 -80 -60	13 202 164 164	1,298 2,640 2,332 2,280
Person Trips:									
AM Auto Taxi Subway Bus Walk/Other Total	In Out 13 1 1 0 10 1 4 0 5 0 33 2	In Out 12 64 1 8 42 219 11 56 7 39 73 386	In Out 8 8 8 112 112 118 118 117 117 117 119 29 29 84 84	In Out 2 2 2 5 5 5 67 67 81 81	In Out 90 5 4 0 75 4 28 1 36 2 233 12	In Out 8 4 17 9 23 12 9 5 132 68 189 98	In Out -2 -7 0 -2 -6 -23 -2 -8 -4 -16 -14 -56	In Out 1	In Out Total 132 78 210 38 30 68 167 236 403 74 78 152 275 192 467 686 614 1,300
MD Auto Taxi Subway Bus Walk/Other Total	In Out 1 1 1 1 2 2 1 1 15 17 20 22	In Out 19 19 2 2 65 65 17 17 11 11 114 114	In Out 23 23 36 36 54 54 50 50 88 88 251 251	In Out 10 10 15 15 31 31 31 31 427 427 514 514	In Out 7 8 7 8 15 16 7 8 110 119 146 159	In Out 8 6 19 14 25 18 11 8 148 107 211 153	In Out -2 -2 -1 -1 -7 -7 -3 -3 -5 -5 -18 -18	In Out 15 9 13 7 9 5 37 22 54 31 128 74	In Out Total 81 74 155 92 82 174 194 184 378 151 134 285 848 795 1,643 1,366 1,269 2,635
PM Auto Taxi Subway Bus Walk/Other Total	In Out 2 13 0 1 2 11 1 4 1 5 6 34	In Out 57 28 7 3 192 95 49 24 34 17 339 167	In Out 23 23 36 36 54 54 50 50 88 88 251 251	In Out 5 5 5 8 8 8 16 16 16 16 225 225 270 270	In Out 17 94 1 5 14 78 5 29 7 37 44 243	In Out 5 10 11 22 15 30 6 12 89 173 126 247	In Out -6 -3 -2 -1 -22 -12 -8 -4 -15 -8 -53 -28	In Out 10 9 9 8 6 6 25 23 36 33 86 79	In Out Total 113 179 292 70 82 152 277 278 555 144 154 298 465 570 1.035 1,069 1,263 2,332
Sat MD Auto Taxi Subway Bus Walk/Other Total	In Out 2 2 0 0 2 1 1 1 1 1 6 5	In Out 39 34 5 4 131 116 34 30 23 21 232 205	In Out 33 33 53 53 78 78 73 73 127 127 364 364	In Out 6 6 6 10 10 19 19 19 19 263 263 317 317	In Out 17 12 1 1 14 10 5 4 7 5 44 32	In Out 7 5 15 11 20 15 8 6 119 86 169 123	In Out -4 -4 -1 -1 -13 -12 -4 -4 -9 -9 -31 -30	In Out 14 8 10 6 7 4 30 18 41 24 102 60	In Out Total 114 96 210 93 84 177 258 231 489 166 147 313 572 518 1,090 1,203 1,076 2,279
Vehicle Trips :									
AM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 11 1 1 0 1 1 0 0 12 2	In Out 10 51 1 6 6 6 2 2 18 59	In Out 4 4 6 6 10 10 1 15 15	In Out 1 1 1 2 0 0 3 3	In Out 79 4 3 0 3 3 2 2 84 9	In Out 6 3 12 6 15 15 0 0 21 18	In Out -2 -6 0 -2 -2 -2 0 0 -4 -8	In Out 0 1 1 2 2 0 0 2 2	In Out Total 109 58 167 25 18 37 37 74 5 5 11 151 100 252
MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 1 1 1 2 0 0 3 3	In Out 15 15 1 1 2 2 2 2 19 19	In Out 12 12 18 18 30 30 2 2 44 44	In Out 5 5 8 8 14 14 14 1 20 20	In Out 6 7 5 6 10 10 2 2 18 19	In Out 6 4 14 10 21 21 0 0 27 25	In Out -2 -2 -1 -1 -2 -2 0 0 -4 -4	In Out 6 4 7 4 10 10 0 0 16 14	In Out Total 49 46 95 53 47 87 87 174 7 7 14 143 140 283
PM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 11 0 1 1 1 0 0 3 12	In Out 45 22 5 2 6 6 6 0 0 51 28	In Out 12 12 18 18 33 33 0 0 45 45	In Out 3 3 4 4 7 7 0 0 10 10	In Out 15 82 1 4 4 0 19 86	In Out 4 7 8 16 21 21 0 0 25 28	In Out -5 -3 -2 -1 -3 -3 0 0 -8 -6	In Out 4 4 5 4 8 8 0 0 12 12	In Out Total 80 138 218 39 48 77 77 154 0 0 0 157 215 372
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 2 0 0 0 0 0 0 2 2 2	In Out 31 27 4 3 6 6 1 1 38 34	In Out 17 17 27 27 47 47 0 0 64 64	In Out 3 3 5 5 9 9 0 0 12 12	In Out 15 11 1 2 2 2 0 0 17 13	In Out 5 4 11 8 16 16 0 0 21 20	In Out -3 -3 -1 -1 -2 -2 0 0 -5 -5	In Out 6 3 5 3 7 7 0 0 13 10	In Out Total 76 64 140 52 46 85 85 170 1 1 2 162 150 312
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Set MD (1-2)	In Out 151 100 143 140 157 215	Total 252 283 372							

Sat MD (1-2)

25% linked-trip credit applied to destination and local retail uses.

162

150

312

				<u> </u>			1	T	
Land Use: Size/Units:	Office 68,133 gsf	Residential 225 DU	Destination Retail	Local Retail	Community Facility (Office) 125,239 gsf	Community Facility (Recreation) 124,349 gsf	Community Facility (Dormitory) 60,532 gsf	Community Facility (Museum) 56,837 gsf	Total
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	147 184 172 45	182 91 200 173	105 315 315 455	51 324 171 200	125,239 gsf 271 338 316 83	322 411 422 331	92 Unit 33 17 39 29	56.837 gsf 15 246 199 199	1,127 1,926 1,834 1,515
Person Trips:	In Out	In Out	In Out	In Out	In Out	In Out	In Out	In Out	In Out Total
AM Auto Taxi Subway Bus Walk/Other Total	54 3 3 0 45 2 17 1 22 1 1 7	5 25 1 3 16 87 4 22 3 15 29 152	5 5 8 8 11 11 10 10 10 18 18 52 52	1 1 1 1 2 2 2 2 2 2 2 21 21 27	99 5 5 0 82 4 31 2 40 2 257 13	9 4 19 10 26 13 11 5 149 77 214 109	1 3 0 1 3 11 1 4 2 8 7 27	1 1 1 1 1 1 2 2 2 3 8 8 8	175 47 222 38 24 62 186 131 317 78 48 126 258 145 403 735 395 1,130
MD Auto Taxi Subway Bus Walk/Other Total	In Out 4 5 4 5 9 10 4 5 66 72 87 97	In Out 8 8 1 1 26 26 7 7 5 5 47 47	In Out 14 14 23 23 34 34 31 31 55 55 157 157	In Out 3 3 5 5 10 10 10 10 135 135 163 163	In Out 8 9 8 9 16 18 8 9 122 132 162 177	In Out 10 7 21 16 29 21 12 9 167 121 239 174	In Out 1 1 0 0 4 4 1 1 2 2 9 8	In Out 19 11 15 9 11 6 45 26 65 38 155 90	In Out Total 67 58 125 77 68 145 139 129 268 118 98 216 618 560 1178 1,019 913 1,932
PM Auto Taxi Subway Bus Walk/Other Total	In Out 10 56 0 3 8 47 3 17 4 22 25 145	In Out 22 11 3 1 76 37 20 10 13 7 134 66	In Out 14 14 23 23 34 34 31 31 55 55 157 157	In Out 2 2 3 3 5 5 5 5 71 71 86 86	In Out 18 104 1 5 15 86 6 32 7 41 47 268	In Out 6 11 13 25 17 33 7 14 101 195 144 278	In Out 3 2 1 0 11 6 4 2 7 4 26 14	In Out 12 11 10 10 7 7 30 28 44 40 103 96	In Out Total 87 211 298 54 70 124 173 255 428 106 139 245 302 435 737 722 1,110 1,832
Sat MD Auto Taxi Subway Bus Walk/Other Total	In Out 10 7 1 0 9 6 3 2 4 3 27 18	In Out 15 14 2 2 52 46 13 12 9 8 91 82	In Out 20 20 33 33 49 49 45 45 80 80 227 227	In Out 2 2 3 3 6 6 6 6 83 83 100 100	In Out 19 13 1 1 16 11 6 4 8 5 50 34	In Out 8 6 17 13 23 17 10 7 134 97 192 140	In Out 2 2 0 0 6 6 2 2 4 4 14 14	In Out 18 10 13 7 9 5 36 21 50 29 126 72	In Out Total 94 74 168 70 59 129 170 146 316 121 99 220 372 309 681 827 687 1,514
Vehicle Trips : AM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 47 3 2 0 2 2 1 1 50 6	In Out 4 20 1 2 3 3 1 1 8 24	In Out 3 3 4 4 7 7 1 1 11	In Out 1 1 1 2 2 2 0 0 3	In Out 87 4 4 0 3 3 2 2 92 9	In Out 6 3 14 7 16 16 0 0 22 19	In Out 1 3 0 1 1 1 0 0 2 4	In Out 0 0 1 1 2 2 2 0 0 2 2	In Out Total 149 37 186 27 16 36 36 72 5 5 10 190 78 268
MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 4 4 3 4 6 6 1 1 11	In Out 6 6 1 1 2 2 1 9 9	In Out 7 7 12 12 21 21 1 1 29 29	In Out 2 2 3 3 5 5 0 0 7	In Out 7 8 6 6 10 10 2 2 19 20	In Out 7 5 115 11 23 23 Q Q 30 28	In Out 1 1 0 0 0 0 0 0 1 1 1	In Out 8 5 8 5 11 11 0 0 16	In Out Total 42 38 80 48 42 78 78 156 5 111 125 121 247
PM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 9 49 0 2 2 2 0 0 11 51	In Out 17 9 2 1 3 3 0 0 20 12	In Out 7 7 12 12 21 21 0 0 28 28	In Out 1 1 2 2 4 4 0 0 5 5	In Out 16 91 1 4 4 4 0 0 20 95	In Out 4 8 9 18 24 24 0 0 28 32	In Out 3 2 1 0 1 1 0 4 3	In Out 5 5 5 5 9 9 0 0 14 14	In Out Total 62 172 234 32 44 68 68 136 0 0 0 130 240 370
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 9 6 1 0 1 1 0 1 0 7	In Out 12 11 1 1 2 2 0 0 14 13	In Out 10 10 17 17 29 29 0 0 39 39	In Out 1 1 2 2 3 3 0 0 4 4	In Out 17 11 1 1 2 2 0 0 19 13	In Out 6 4 12 9 18 18 0 0 24 22	In Out 2 2 0 0 0 0 0 0 2 2 2	In Out 8 4 7 4 10 10 0 0 18 14	In Out Total 65 49 114 41 34 65 65 130 0 0 0 130 114 244
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	In Out 190 78 125 121 130 240 130 114	Total 268 246 370 244							

					1				
Land Use: Size/Units:	Office	Residential 204 DU	Destination Retail 0 gsf	Local Retail	Community Facility (Office) -941 gsf	Community Facility (Recreation) 0 gsf	Community Facility (Dormitory)	Community Facility (Museum) 0 gsf	Total
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	15,827 gsf 34 43 40 10	165 82 181 157	0 gsf 0 0 0	12,814 gsf 59 374 197 231	-941 gsf -2 -3 -2 -1	0 gsf 0 0 0	-184,819 gsf -280 Unit -102 -53 -120 -90	0 gsf 0 0 0 0 0	154 444 296 308
Person Trips: AM Auto Taxi Subway Bus Walk/Other Total	In Out 13 1 1 0 10 1 4 0 5 0 33 2	In Out 4 23 1 3 15 78 4 20 3 14 27 138	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 1 1 1 1 2 2 2 2 2 2 35 25 31 31	In Out -1 0 0 0 -1 0 0 0 0 2 0 -2 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -2 -10 -1 -2 -8 -34 -3 -12 -6 -24 -20 -82	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 15 15 30 2 2 4 18 47 65 7 10 17 27 15 42 69 89 158
MD Auto Taxi Subway Bus Walk/Other Total	In Out 1 1 1 2 2 2 1 1 15 17 20 22	In Out 7 7 1 1 23 23 6 6 4 4 41 41	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 4 4 6 6 11 11 11 11 155 155 187 187	In Out 0 0 0 0 0 0 0 0 -1 -1 -1	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -3 -3 -1 -1 -11 -11 -4 -4 -8 -7 -27 -26	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 9 9 18 7 7 14 25 25 50 14 14 28 165 168 333 220 223 443
PM Auto Taxi Subway Bus Walk/Other Total	In Out 2 13 0 1 2 11 1 4 1 5 6 34	In Out 20 10 2 1 69 34 18 9 12 6 121 60	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 2 2 3 3 3 6 6 6 6 6 82 82 99 99	In Out 0 -1 0 0 0 -1 0 0 0 0 0 -2 0 0 0 -2	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -9 -5 -2 -1 -32 -17 -11 -6 -23 -12 -77 -41	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 15 19 34 3 4 7 45 33 78 14 13 27 72 81 153 149 150 299
Sat MD Auto Taxi Subway Bus Walk/Other Total	In Out 2 2 0 0 2 1 1 0 1 4	In Out 14 12 2 1 47 42 12 11 8 7 83 73	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 2 2 3 3 7 7 7 7 96 96 115 115	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -5 -5 -1 -1 -19 -18 -7 -6 -13 -13 -45 -43	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 13 11 24 4 3 7 37 32 69 13 12 25 92 91 183 159 149 308
Vehicle Trips : AM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 11 1 1 0 1 1 0 0 1 2 2	In Out 3 18 1 2 3 3 1 1 1 7 22	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 1 1 1 1 2 2 0 0 3 3	In Out -1 0 0 0 0 0 0 0 0 0 -1 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -2 -8 -1 -2 -3 -3 0 0 -5 -11	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 12 12 24 2 1 3 3 6 1 1 2 16 16 32
MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 1 1 1 2 2 0 0 3 3	In Out 6 6 1 1 2 2 1 1 9 9	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 2 2 3 3 5 5 0 0 7 7	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -3 -3 -1 -1 -2 -2 0 0 -5 -5	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 6 6 12 4 4 7 7 14 1 1 3 14 14 29
PM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 11 0 1 1 1 0 0 3 12	In Out 16 8 1 1 2 2 0 0 18 10	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 1 1 2 2 4 4 0 0 5 5	In Out 0 -1 0 0 0 0 0 0 0 -1 1 -1	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out -8 -4 -2 -1 -3 -3 0 0 -11 -7	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 11 15 26 1 3 4 4 8 0 0 0 15 19 34 1 10 10 10 10 10 10 10
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 2 2 0 0 0 0 0 0 2 2 2	In Out 11 10 1 1 2 2 0 0 13 12	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 1 1 2 2 4 4 0 0 5 5	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out -4 -4 -1 -1 -2 -2 0 0 -6 -6	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 10 9 19 2 2 4 4 8 0 0 0 14 13 27 14 13 27
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	<u>In</u> <u>Out</u> 16 16 14 14 15 19 14 13	Total 32 28 34 27							

	1	11	1	1 1	1 1	1		114,6126	mand Forecast - Cluster 3
Land Use:	Office	Residential	Destination Retail	Local Retail	Community Facility (Office)	Community Facility (Recreation)	Community Facility (Dormitory)	Community Facility (Museum)	Total
Size/Units:	-3,106 gsf	64 DU	11,235 gsf	5,789 gsf	0 gsf	0 gsf	0 gsf	0 gsf	
Peak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	-7 -8 -8 -2	52 26 57 49	20 59 59 86	27 169 89 104	0 0 0 0	0 0 0	0 Unit 0 0 0 0	0 0 0	91 246 197 237
Person Trips:									
AM Auto Taxi Subway Bus Walk/Other Total	In Out -2 0 0 0 -2 0 -1 0 -1 0 -6 0	In Out 1 7 0 1 5 25 1 6 1 4 8 43	In Out 1 1 1 1 2 2 2 2 3 3 9 9	In Out 0 0 0 0 1 1 1 1 1 11 11 13 13	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 0 8 8 1 2 3 6 28 34 3 9 12 14 18 32 24 65 89
MD Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 -3 -3 -3	In Out 2 2 0 0 7 7 2 2 1 12 12	In Out 3 3 4 4 4 6 6 6 6 6 10 10 29 29	In Out 2 2 3 3 5 5 5 70 70 85	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 7 7 14 7 7 14 18 18 36 13 13 26 78 78 156 123 123 246
PM Auto Taxi Subway Bus Walk/Other Total	In Out 0 -3 0 0 0 -2 0 -1 0 -1 0 -7	In Out 6 3 1 0 22 11 6 3 4 2 39 19	In Out 3 3 4 4 6 6 6 6 10 10 29 29	In Out 1	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 10 4 14 6 5 11 31 18 49 15 11 26 51 48 99 113 86 199
Sat MD Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 4 4 1 0 15 13 4 3 3 2 27 22	In Out 4 4 6 6 9 9 9 9 15 15 43 43	In Out 1 1 2 2 3 3 3 3 43 43 52 52	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 9 9 18 9 8 17 27 25 52 16 15 31 61 60 121 122 117 239
Vehicle Trips : AM Auto (Total) Taxi Taxi Balanced Truck Total	In Out -2 0 0 0 0 0 0 0 -2 0	In Out 1 6 0 1 1 1 0 0 2 7	In Out 1 1 1 1 2 2 0 0 3 3	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 0 7 7 1 2 3 3 6 0 0 0 3 10 13
MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 2 2 0 0 0 0 0 0 2 0 2 2	In Out 2 2 2 2 3 3 0 0 5 5	In Out 1 1 2 2 4 4 0 0 5 5	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 5 5 10 4 4 7 7 7 14 Q Q L 12 12 25
PM Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 -3 0 0 0 0 0 0 0 -3	In Out 5 2 1 0 1 1 0 0 6 3	In Out 2 2 2 2 3 3 0 0 5	In Out 1 1 1 1 2 2 0 0 3 3	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 8 2 10 4 3 6 6 12 0 0 14 8 22 2
Sat MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 3 3 1 0 1 1 0 4 4 4	In Out 2 2 3 3 5 5 0 0 7	In Out 1 1 1 2 0 0 3 3	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 6 6 12 5 4 8 8 16 0 0 0 14 14 28
Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	In Out 3 10 12 12 14 8 14 14	Total 13 24 22 28		,	,		,		

					1						- 1									luster 4
Land Use: Size/Units		Of	fice gsf	Resid	lential DU		nation etail	Lo Res 5,500		Fac	nunity ility fice)	Fac	munity cility reation)	Fac	munity cility mitory) gsf	Fac	nunity cility seum)		Total	
		Ü	531	0	БС		531	5,500	531	-1,100	gsi	-4,400	gai	0	Unit		gai			
Peak Hou	r Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)		0 0 0	(0		0 0 0 0	2 16 8 9	51 5	-	2 3 3	-	11 15 15 12		0 0 0 0 0		0 0 0 0 0		12 143 67 87	
Person Tr	rips:	Y.,	0	Y.,	0	r_	0	Y.,	0	T.	Out	Y	0	Υ.,	0	Y	0	Y	0	T-4-1
АМ	Auto Taxi Subway Bus Walk/Other Total	In 0 0 0 0 0 0	Out 0 0 0 0 0 0 0 0	In 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	In 0 0 0 0 0 0	Out 0 0 0 0 0 0 0 0	In 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Out 0 0 1 1 1 11	In -1 0 -1 0 0 -2	Out 0 0 0 0 0 0	In 0 -1 -1 0 - <u>5</u>	Out 0 0 0 0 -3 -3	In 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	In 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	In -1 -1 -1 1 6 4	Out 0 0 1 1 1 8 10	Total -1 -1 0 2 14 14
MD	Auto Taxi Subway Bus Walk/Other Total	In 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	In 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	In 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	In 2 2 5 5 5 67 81	Out 2 2 5 5 67 81	In 0 0 0 0 -1 -1	Out 0 0 0 0 0 -1 -1	In 0 -1 -1 0 - <u>-6</u> -8	Out 0 -1 -1 0 -4 -6	In 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	In 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	In 2 1 4 5 60 72	Out 2 1 4 5 62 74	Total 4 2 8 10 122 146
PM	Auto Taxi Subway Bus Walk/Other Total	In 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	In 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	In 0 0 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0	In 1 1 3 3 3 3 43	Out 1 1 3 3 3 35 43	In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Out -1 0 -1 0 0 -2	In 0 0 -1 0 -4 -5	Out 0 -1 -1 0 -7 -9	In 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	In 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	In 1 2 3 31 38	Out 0 0 1 3 28 32	Total 1 1 3 6 59 70
Sat MD	Auto Taxi Subway Bus Walk/Other Total	In 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	In 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	In 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	In 1 3 3 41 49	Out 1 1 3 3 41 49	In 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	In 0 -1 -1 0 - <u>5</u>	Out 0 0 -1 0 - <u>3</u>	In 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	In 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	In 1 0 2 3 36 42	Out 1 1 2 3 38 45	Total 2 1 4 6 74 87
Vehicle Ti	rips : Auto (Total) Taxi Taxi Balanced Truck Total	In 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	In 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	In 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	In 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	In -1 0 0 -1 -1	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In 0 -1 -1 0 -1	Out 0 0 -1 <u>0</u> -1	In 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	In 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	In -1 -1 -1 -1 -2	Out 0 0 -1 <u>0</u> -1	Total -1 -2 <u>0</u> -3
MD	Auto (Total) Taxi Taxi Balanced Truck Total	In 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	In 0 0 0 0 0 0 0 0	Out 0 0 0 0 0 0	In 0 0 0 0 0	Out 0 0 0 0 0 0 0 0	In 1 2 0 3	Out 1 1 2 0 3	In 0 0 0 0 0 0 0 0	Out 0 0 0 0 0 0	In 0 -1 -2 <u>0</u> -2	Out 0 -1 -2 <u>0</u> -2	In 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	In 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	In 1 0 0 0 0	Out 1 0 0 0 1	Total 2 0 0 2
РМ	Auto (Total) Taxi Taxi Balanced Truck Total	In 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	In 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In 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	In 1 2 0 3	Out 1 1 2 0 3	In 0 0 0 0 0	Out -1 0 0 0 -1	In 0 0 -1 <u>0</u> -1	Out 0 -1 -1 -1 0 -1	In 0 0 0 0	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In 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	In 1 1 1 0 2	Out 0 0 1 0 1 0 1	Total 1 2 0 3
Sat MD	Auto (Total) Taxi Taxi Balanced Truck Total	In 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	In 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	In 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	In 1 2 0 3	Out 1 1 2 0 3	In 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	In 0 -1 0 <u>0</u>	Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In 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	In 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	In 1 0 1 0 2	Out 1 1 1 0 2	Total 2 2 0 4
	Total Vehicle Trips AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	<u>In</u> -2 1 2	Out -1 1 1 2	Total -3 2 3 4				I					L			1		1		

and Use: ze/Units: cak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2) erson Trips: M Auto Taxi Subway Bus Walk/Other Total	Office 0 gsf 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Residential 2 DU 2 1 2 2 2 2	Destination Retail 0 gsf 0 0 0 0	Local Retail 0 gsf 0 0	Community Facility (Office) 0 gsf	Community Facility (Recreation) 0 gsf	Community Facility (Dormitory) 0 gsf 0 Unit	Community Facility (Museum) 0 gsf	Total
AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2) erson Trips: M Auto Taxi Subway Bus Walk/Other	0 0 0	1 2	0 0 0	0		0			
AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2) rson Trips: M Auto Taxi Subway Bus Walk/Other	0 0 0	1 2	0	0		0			
M Auto Taxi Subway Bus Walk/Other	0 0			0	0 0 0	0 0 0	0 0 0	0 0 0	2 1 2 2
Taxi Subway Bus Walk/Other	0 0								
1	0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 1 0 0 0 0 1 0 1 0 1 0 1 0 1 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In
D Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot Out Out
of Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 1 0 0 0 0 0 0 1 0 0 0 1 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 1 0 0 1 0 0 0 0 1 0 1 0 0 0 1 0 1 1 0 1
t MD Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out To 0
ehicle Trips :									
M Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In
D Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In
M Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
at MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0

Notos:

Sat MD (1-2)

nd Use: ze/Units:	Office 0 gsf	Residential 2 DU	Destination Retail 0 gsf	Local Retail	Community Facility (Office) 0 gsf	Community Facility (Recreation) 0 gsf	Community Facility (Dormitory) 0 gsf	Community Facility (Museum) 0 gsf	Total
ak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6)	0 0 0	2 1 2	0 0 0	0 0 0	0 0 0	0 0 0	0 Unit 0 0 0	0 0 0	2 1 2
Sat MD (1-2)	0	2	0	0	0	0	0	0	2
rson Trips: M Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 1 0 0 0 0 0 1 0 0 1 0 1 0 1 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 1 1
O Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
A Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 1 0 0 0 0 0 1 0 1 0 0 0 1 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tol 0 0 0 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 0 1 0 1 1 0 1
t MD Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out To 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
chicle Trips :									
A Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0
D Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
M Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
t MD Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Notor:

Sat MD (1-2)

								1 ravel Demand	l Forecast - Outlier Site 1
Land Use: Size/Units:	Office 0 gsf	Residential 2 DU	Destination Retail	Local Retail	Community Facility (Office) 0 gsf	Community Facility (Recreation) 0 gsf	Community Facility (Dormitory) 0 gsf	Community Facility (Museum) 0 gsf	Total
eak Hour Person Trips: AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	0 0 0	2 1 2 2	0 0 0	0 0 0 0	0 0 0	0 0 0	0 Unit 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	2 1 2 2
erson Trips: M Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Total 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 1 1 1 1 1
ID Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tota 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
M Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tota Tota Out Tota Out Out
at MD Auto Taxi Subway Bus Walk/Other Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tot 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
chicle Trips : M Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tota 0
D Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out Tota 0
of Auto (Total) Taxi Taxi Balanced Truck Total	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out 0 0 0 0 0 0 0 0 0 0 0 0 0 0 In Out	In Out Tota
t MD Auto (Total) Taxi Taxi Balanced Truck Total Total Vehicle Trips	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AM (8-9) MD (12-1) PM (5-6) Sat MD (1-2)	In Out 0 0 0 0 0 0	Total 0 0							

Notos:

Sat MD (1-2)

Table A-12 **Preliminary Assignment of Project-Generated Bus Trips**

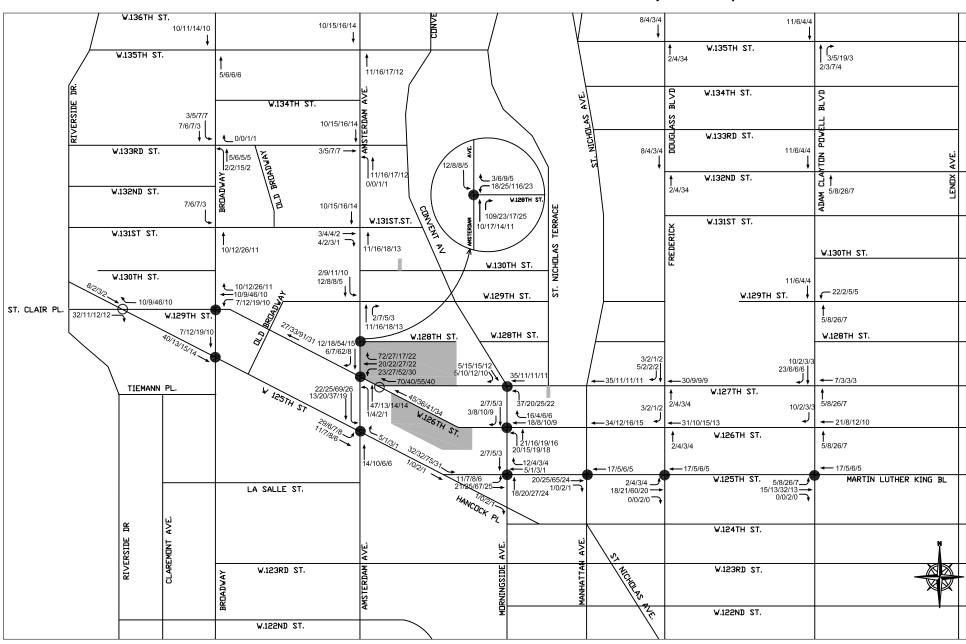
AM Peak Hour

Bus Route	Direction	Cluster 1	Cluster 2	Cluster 3	Cluster 4	Site 10	Site 11	Site 12	Total
M2	NB			0					0
IVIZ	SB			1					1
M3	NB	8	1	1					10
1013	SB	5	2	2					9
M4	NB	11	1		0	0	0	0	12
1014	SB	7	3		0	0	0	0	10
M5	NB	8	1		0	0	0	0	9
IVIS	SB	5	2		0	0	0	0	7
M10	NB	4		0					4
IVITO	SB	3		1					4
M11	NB	6	1		0	0	0	0	7
IVITI	SB	4	2		0	0	0	0	6
M60	EB	5							5
10100	WB	9							9
M100	NB	9	1	1	0	0	0	0	11
IVIIOO	SB	5	3	2	0	0	0	0	10
M101	NB	16		1	0	0	0	0	17
IVITOI	SB	10		3	1	0	0	0	14
M104	NB	7					0	0	7
101104	SB	4					0	0	4
				·					
	In	78	5	3	0	0	0	0	86
	Out	48	12	9	1	0	0	0	70

PM Peak Hour

Bus Route	Direction	Cluster 1	Cluster 2	Cluster 3	Cluster 4	Site 10	Site 11	Site 12	Total
M2	NB			2					2
IVIZ	SB			2					2
M3	NB	11	4	3					18
IVIS	SB	15	3	2					20
M4	NB	15	5		1	0	0	0	21
1414	SB	19	4		1	0	0	0	24
M5	NB	10	4		1	0	0	0	15
IVIS	SB	14	3		1	0	0	0	18
M10	NB	6		2					8
IVIIO	SB	8		1					9
M11	NB	9	3		1	0	0	0	13
14177	SB	12	3		1	0	0	0	16
M60	EB	15							15
10100	WB	12							12
M100	NB	12	4	3	1	0	0	0	20
101100	SB	16	3	2	1	0	0	0	22
M101	NB	22		5	1	0	0	0	28
IAITOT	SB	28		4	0	0	0	0	32
M104	NB	9					0	0	9
111104	SB	12					0	0	12
	In	106	20	15	5	0	0	0	146
	Out	139	16	11	4	0	0	0	170

Preliminary Project Increment Peak Hour Traffic Volumes for Projected Development Site Cluster 1 Under Scenario 3



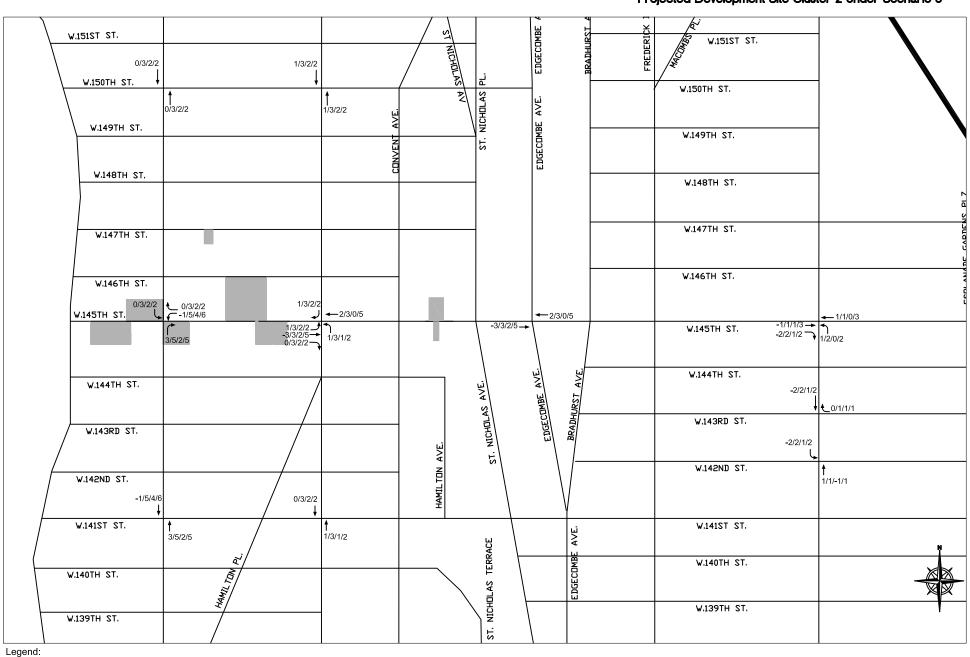
Legend:

Analyzed Signalized Intersection

14/10/6/6 = AM/MD/PM/Sat MD

Projected Development Site Cluster 1 - Sites 13, 14, 15, 17, 18, 19, 40a and 50

Preliminary Project Increment Peak Hour Traffic Volumes for Projected Development Site Cluster 2 Under Scenario 3

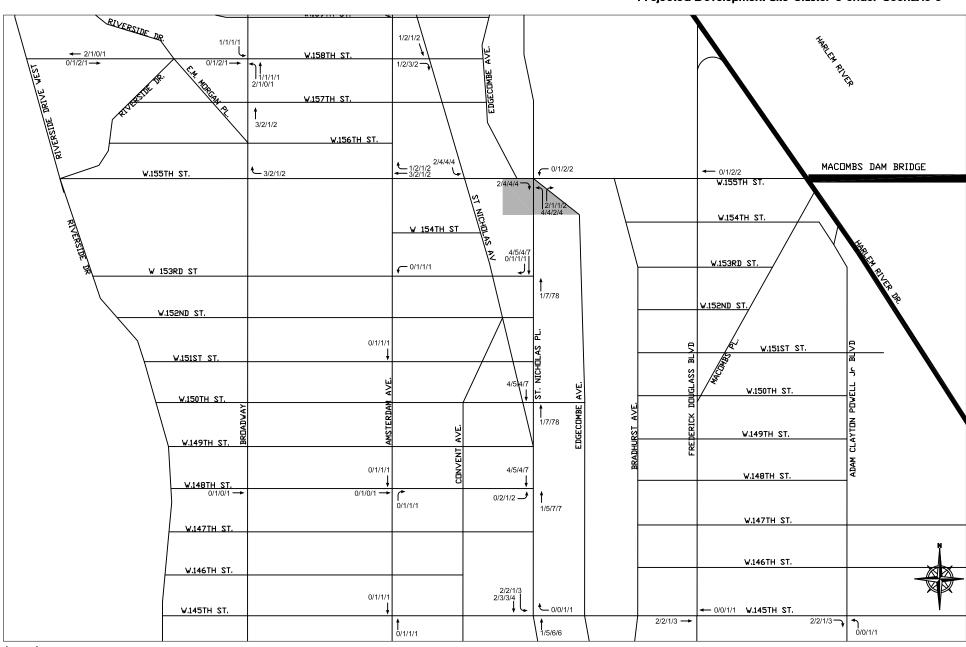


Analyzed Signalized Intersection

3/5/2/5 = AM/MD/PM/Sat MD

Projected Development Site Cluster 2 - Sites 4, 5, 6b, 7, 8, 9, 51, 52 and 53

Preliminary Project Increment Peak Hour Traffic Volumes for Projected Development Site Cluster 3 Under Scenario 3



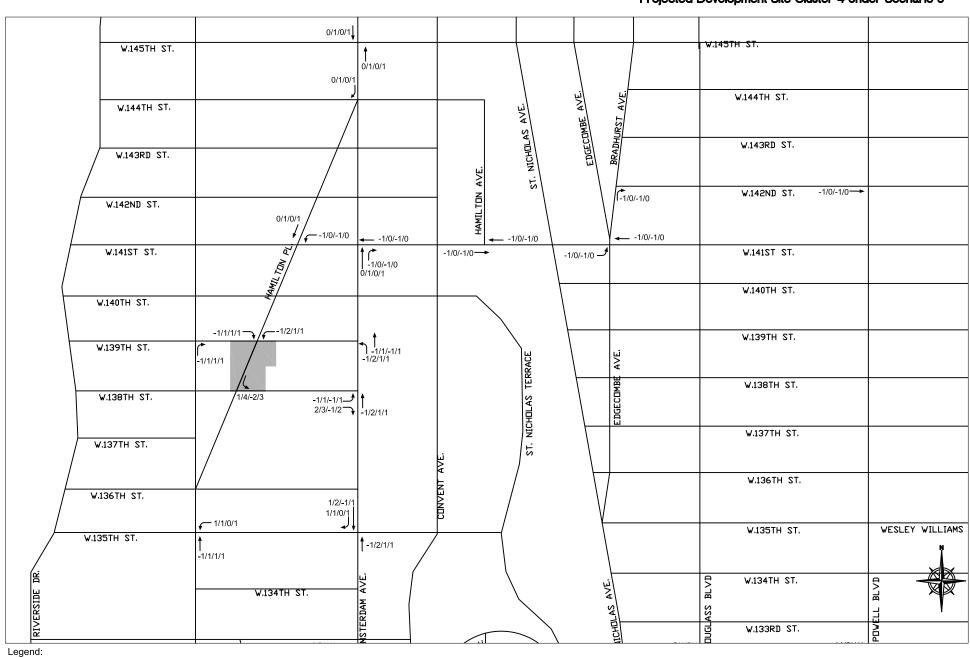
Legend:

Analyzed Signalized Intersection

15/7/7 = AM/MD/PM/Sat MD

Projected Development SIte Cluster 3 - SItes 1 and 2

Preliminary Project Increment Peak Hour Traffic Volumes for Projected Development Site Cluster 4 Under Scenario 3



Projected Development SIte Cluster 4 - SItes 54 and 55

Analyzed Unsignalized Intersection

Analyzed Signalized Intersection

1/1/0/1 = AM/MD/PM/Sat MD

MEMORANDUM

To: Michael Griffith

Office of Project Analysis/CEQR

From: Ernest Athanailos, P.E.

Director of Signals and ITS Engineering

Ref: 125th Rezoning Summary

CM07-1608A

Date: February 21, 2008

We have reviewed the 125th Street Rezoning Summary Signal Timing Modification dated February 20th, 2008 and would like to submit the following comments.

- The proposed left turn phase at Lenox Avenue and West 126th Street is not feasible. Since the total green time allocated for the left turn phase is under the minimum (Green = 3, Amber = 3 and All Red = 2. The total proposed signal timing for the left turn phase is only 8 seconds). The minimum green time is 7 seconds.
- The proposed signal timing changes at the intersection of 2 Avenue and East 125th Street is not feasible. It may impact the southbound approach.
- The proposed to prohibit left turn movements on 125th Street from Amsterdam Avenue to 3rd Avenue are feasible. Actual implementation will be determined upon field survey of build conditions.
- All other proposed signal timing changes are acceptable. Actual implementation will be determined upon field survey of build condition.
- Please note that all the proposed signal timing changes if more than 6 seconds in any directions are not feasible until progression analysis and Syncho simulation submitted.
- Please be specific about the hours during the peak hours. How long, when the peak hours start and ended.

Feel free to contact me if you have any further questions regarding this matter.

Cc: D/C M. Primeggia, A. Borock E. Athanailos, W. Yan.

DN

Memorandum

To: Glen A. Price III, Director

Studies Implementation Division NYC Department of City Planning 22 Reade Street, 4th Floor

New York, NY 10007

From: Atma Sookram, AICP, PP

Matt Lorenz, PE, PTOE

Keren Mor

Re:

125th Street Corridor Rezoning and Related Actions EIS - Response to NYCDOT

Comments of February 21, 2008 on the Traffic Analysis for the FEIS

Date: February 26, 2008

cc: David Cuff, AICP

This memorandum provides our responses to the comments in the February 21, 2008 memorandum prepared by NYCDOT regarding the traffic chapter of the 125th Street Corridor Rezoning and Related Actions EIS. NYCDOT's comments are shown below in *italics* and are followed by our responses.

• The proposed left turn phase at Lenox Avenue and West 126th Street is not feasible. Since the total green time allocated for the left turn phase is under the minimum (Green = 3, Amber = 3 and All Red = 2. The total proposed signal timing for the left turn phase is only 8 seconds). The minimum green time is 7 seconds.

Comment noted. As such, the FEIS will be revised to eliminate the proposed leading northbound left-turn phase as a mitigation measure for the West 125th Street/Lenox Avenue study intersection. Therefore, significant adverse impacts will remain at this intersection during the weekday AM, weekday PM, and Saturday midday peak hours in the proposed Action and all the alternatives.

 The proposed signal timing changes at the intersection of 2 Avenue and East 125th Street is not feasible. It may impact the southbound approach.

The mitigation measures proposed for the study intersection of East 125th Street/Second Avenue/Triborough Bridge off-ramp were checked to verify that they do not impact the southbound approach. Even with these proposed mitigation measures, significant



adverse impacts remain on all approaches to this intersection during the weekday PM peak hour under the Action condition. A summary of the delays and corresponding mitigation measures for this intersection are presented in the attached table for the proposed Action condition, as well as for the C4-4D, Arts Bonus, Expanded Arts Bonus, and C6-3 alternatives.

The proposed to prohibit left turn movements on 125th Street from Amsterdam Avenue to 3rd Avenue are feasible. Actual implementation will be determined upon field survey of build conditions.

Comment noted.

 All other proposed signal timing changes are acceptable. Actual implementation will be determined upon field survey of build condition.

Comment noted.

 Please note that all the proposed signal timing changes if more than 6 seconds in any directions are not feasible until progression analysis and Syncho simulation submitted.

All of the signal timing changes in excess of six (6) seconds were deleted from the text between the issuance of the DEIS and the FEIS. Therefore, a progression analysis is not required.

 Please be specific about the hours during the peak hours. How long, when the peak hours start and ended.

The peak hours analyzed as part of this study are as follows:

Weekday AM peak hour =	7:45 to 8:45 AM
Weekday midday peak hour =	1:00 to 2:00 PM
Weekday PM peak hour =	4:00 to 5:00 PM
Saturday midday peak hour =	1:00 to 2:00 PM