F

River North (Liberty Towers) DEIS
Construction

LANGAN

E-1

Construction
Air Quality

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Building 1

Equipment Description	Phase Excavation & Foundation				Phase Superstructure				Phase All Envelope Façade				Phase All Interior Fitout Activities				
	Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used			
		Q1	Q2	Q3		Q3	Q4	Q5		Q5	Q6	Q7		Q7	Q8	Q9	Q10
All Other Equipment > 5 HP																	
Bar Bender	6	x	x	x	5	x	x	x	N/A				N/A				
Compactor (ground)	4	x	x		N/A				N/A				N/A				
Compressor (air, less than or equal to 350 cfm)	N/A				2	x	x	x	N/A				N/A				
Compressor (air, greater than 350 cfm)	6	x	x	x	3	x	x	x	3	x	x	x	N/A				
Concrete Mixer Truck	3	x	x	x	5	x	x	x	N/A				N/A				
Concrete Pump Truck	3	x	x	x	3	x	x	x	N/A				N/A				
Dozer	4	x	x		1	x	x	x	N/A				N/A				
Dump Truck	7	x	x	x	7	x	x	x	N/A				N/A				
Excavator	4	x	x		N/A				N/A				N/A				
Front End Loader	6	x	x		N/A				N/A				N/A				
Generator (< 25 KVA, VMS signs)	3	x	x	x	N/A				2	x	x	x	3	x	x	x	x
Gradall	1	x	x	x	N/A				N/A				N/A				
Pumps	4	x	x	x	N/A				N/A				N/A				
Impact Pile Driver	6	x	x	x	N/A				N/A				N/A				
Slurry Plant	N/A				N/A				N/A				N/A				
Auger Drill Rig	N/A				N/A				N/A				N/A				
Soil Mix Drill Rig	N/A				N/A				N/A				N/A				
Pickup Truck	4	x	x	x	8	x	x	x	4	x	x	x	8	x	x	x	x
Grader	N/A				N/A				N/A				N/A				
Paver	N/A				N/A				N/A				N/A				
Vacuum Street Sweeper	N/A				N/A				N/A				N/A				
Concrete Saw	N/A				3	x	x	x	N/A				N/A				
Crane	N/A				3	x	x	x	N/A				N/A				
Drum Mixer	N/A				3	x	x	x	N/A				N/A				
Dumpster/Rubbish Removal	N/A				3	x	x	x	3	x	x	x	3	x	x	x	x
Flat Bed Truck	N/A				6	x	x	x	3	x	x	x	3	x	x	x	x
Jackhammer	N/A				6	x	x	x	3	x	x	x	3	x	x	x	x
Man Lift	N/A				3	x	x	x	3	x	x	x	3	x			x
Pneumatic Tools	N/A				6	x	x	x	6	x	x	x	6	x			x
Ventilation Fan	N/A				6				6	x	x	x	6	x	x	x	x
Welder / Torch	N/A				3	x	x	x	3	x	x	x	3	x	x	x	x

Building 2 & 3

Equipment Description	Phase Excavation & Foundation Building 2 & 3				Phase Superstructure Building 2				Phase All Envelope Façade Building 2			Phase All Interior Fitout Activities Building 2					Phase Superstructure Building 3				Phase All Envelope Façade Building 3			Phase All Interior Fitout Activities Building 3				
	Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used		Number Used	Number Of Quarters Used				Number Used	Number Of Quarters Used			Number Used	Number Of Quarters Used		Number Used	Number Of Quarters Used			
		Q1	Q2	Q3		Q3	Q4	Q5		Q5	Q6		Q6	Q7	Q8	Q9		Q3	Q4	Q5		Q5	Q6		Q6	Q7	Q8	Q9
All Other Equipment > 5 HP																												
Bar Bender	6	x	x	x	5	x	x	x	N/A			N/A					5	x	x	x	N/A			N/A				
Compactor (ground)	4	x	x		N/A				N/A			N/A					N/A				N/A			N/A				
Compressor (air, less than or equal to 350 cfm)	N/A				2	x	x	x	N/A			N/A					2	x	x	x	N/A			N/A				
Compressor (air, greater than 350 cfm)	6	x	x	x	3	x	x	x	3	x	x	N/A					3	x	x	x	3	x	x	N/A				
Concrete Mixer Truck	3	x	x	x	5	x	x	x	N/A			N/A					5	x	x	x	N/A			N/A				
Concrete Pump Truck	3	x	x	x	3	x	x	x	N/A			N/A					3	x	x	x	N/A			N/A				
Dozer	4	x	x		1	x	x	x	N/A			N/A					1	x	x	x	N/A			N/A				
Dump Truck	7	x	x	x	7	x	x	x	N/A			N/A					7	x	x	x	N/A			N/A				
Excavator	4	x	x		N/A				N/A			N/A					N/A				N/A			N/A				
Front End Loader	6	x	x		N/A				N/A			N/A					N/A				N/A			N/A				
Generator (< 25 KVA, VMS signs)	3	x	x	x	N/A				2	x	x	3	x	x	x	x	N/A				2	x	x	3	x	x	x	x
Gradall	1	x	x	x	N/A				N/A			N/A					N/A				N/A			N/A				
Pumps	4	x	x	x	N/A				N/A			N/A					N/A				N/A			N/A				
Impact Pile Driver	6	x	x	x	N/A				N/A			N/A					N/A				N/A			N/A				
Slurry Plant	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Auger Drill Rig	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Soil Mix Drill Rig	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Pickup Truck	4	x	x	x	8	x	x	x	4	x	x	8	x	x	x	x	8	x	x	x	4	x	x	8	x	x	x	x
Grader	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Paver	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Vacuum Street Sweeper	N/A				N/A				N/A			N/A					N/A				N/A			N/A				
Concrete Saw	N/A				3	x	x	x	N/A			N/A					3	x	x	x	N/A			N/A				
Crane	N/A				3	x	x	x	N/A			N/A					3	x	x	x	N/A			N/A				
Drum Mixer	N/A				3	x	x	x	N/A			N/A					3	x	x	x	N/A			N/A				
Dumpster/Rubbish Removal	N/A				3	x	x	x	3	x	x	3	x	x	x	x	3	x	x	x	3	x	x	3	x	x	x	x
Flat Bed Truck	N/A				6	x	x	x	3	x	x	3	x	x	x	x	6	x	x	x	3	x	x	3	x	x	x	x
Jackhammer	N/A				6	x	x	x	3	x	x	3	x	x	x	x	6	x	x	x	3	x	x	3	x	x	x	x
Man Lift	N/A				3	x	x	x	3	x	x	3	x			x	3	x	x	x	3	x	x	3	x			x
Pneumatic Tools	N/A				6	x	x	x	6	x	x	6	x			x	6	x	x	x	6	x	x	6	x			x
Ventilation Fan	N/A				6				6	x	x	6	x	x	x	x	6				6	x	x	6	x	x	x	x
Welder / Torch	N/A				3	x	x	x	3	x	x	3	x	x	x	x	3	x	x	x	3	x	x	3	x	x	x	x

E-2

Construction
Transportation

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FIGURE F2-1: CONSTRUCTION-GENERATED VEHICLE TRIP ASSIGNMENTS (PCEs)
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

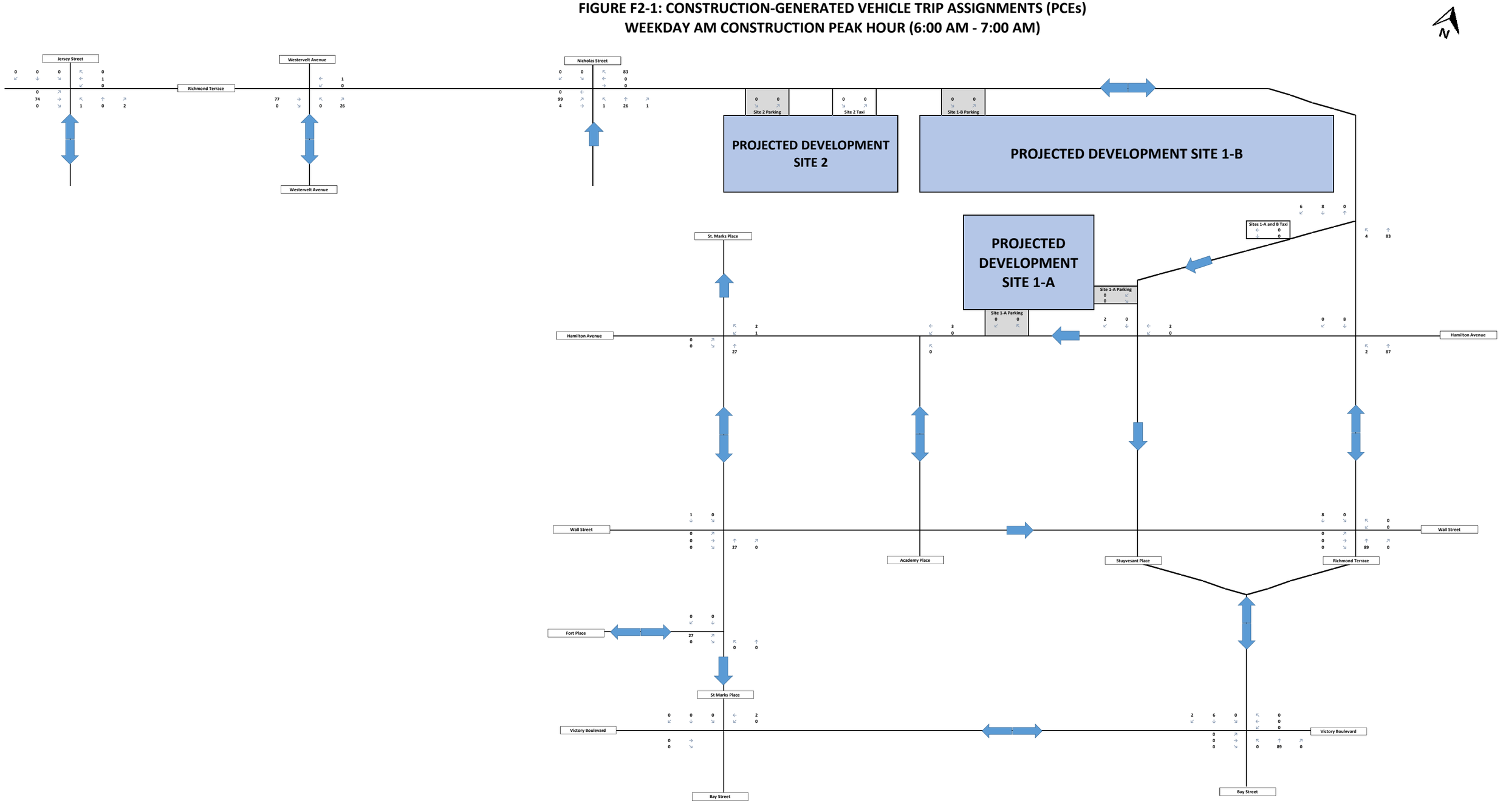


FIGURE F2-2: CONSTRUCTION-GENERATED VEHICLE TRIP ASSIGNMENTS (PCEs)
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

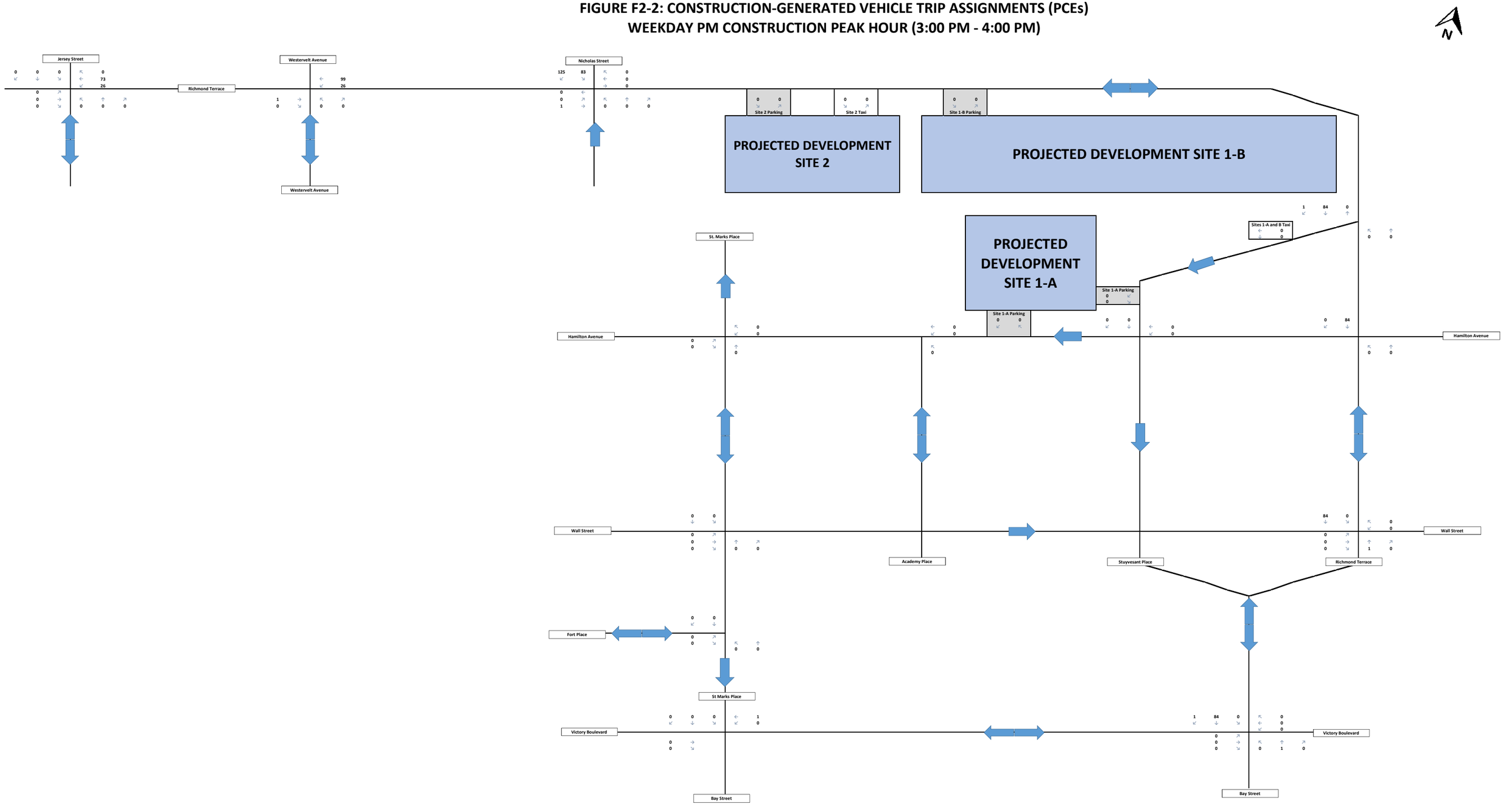


FIGURE F2-3: EXISTING CONDITIONS TRAFFIC VOLUMES
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

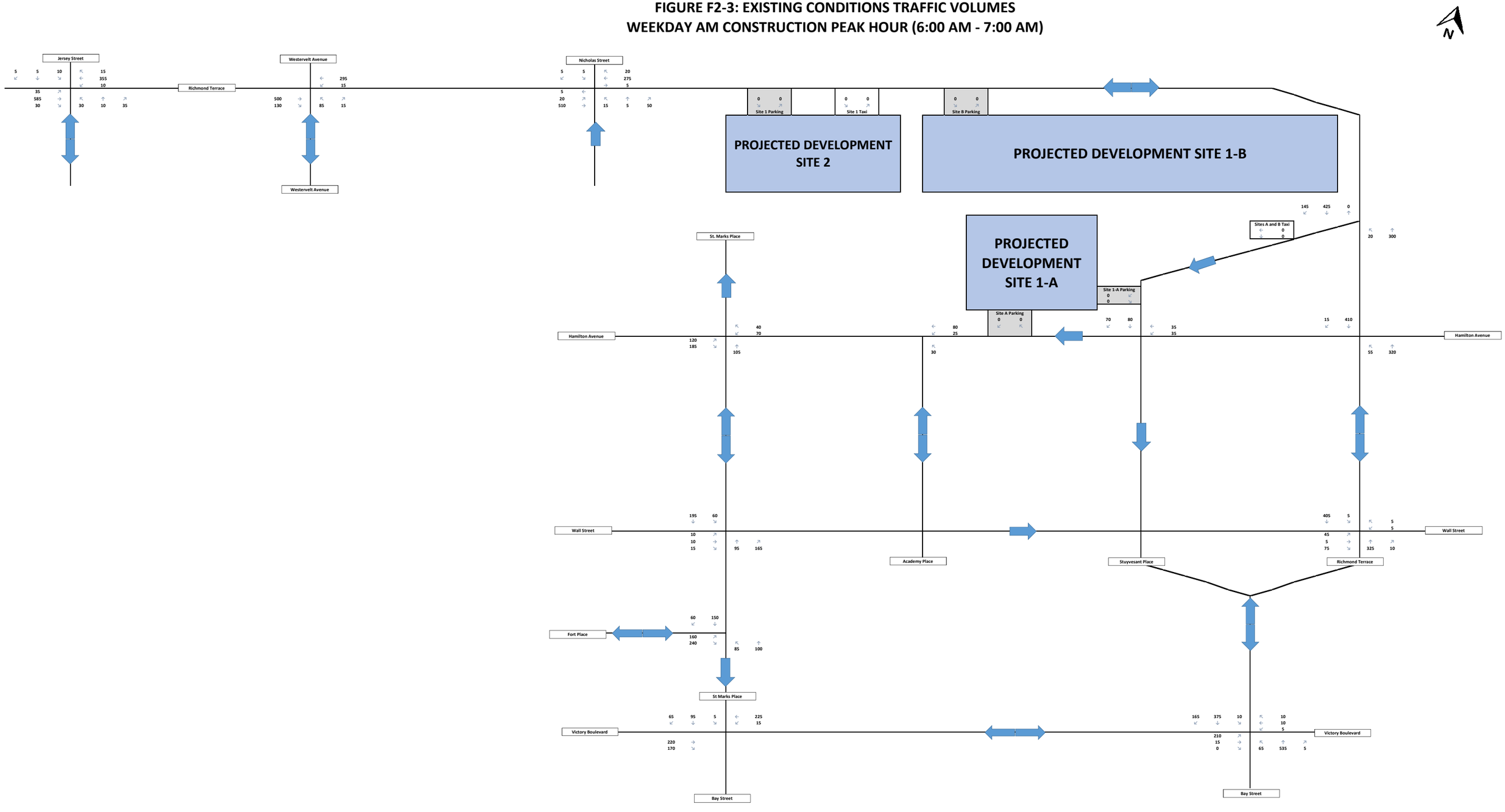


FIGURE F2-4: EXISTING CONDITIONS TRAFFIC VOLUMES
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

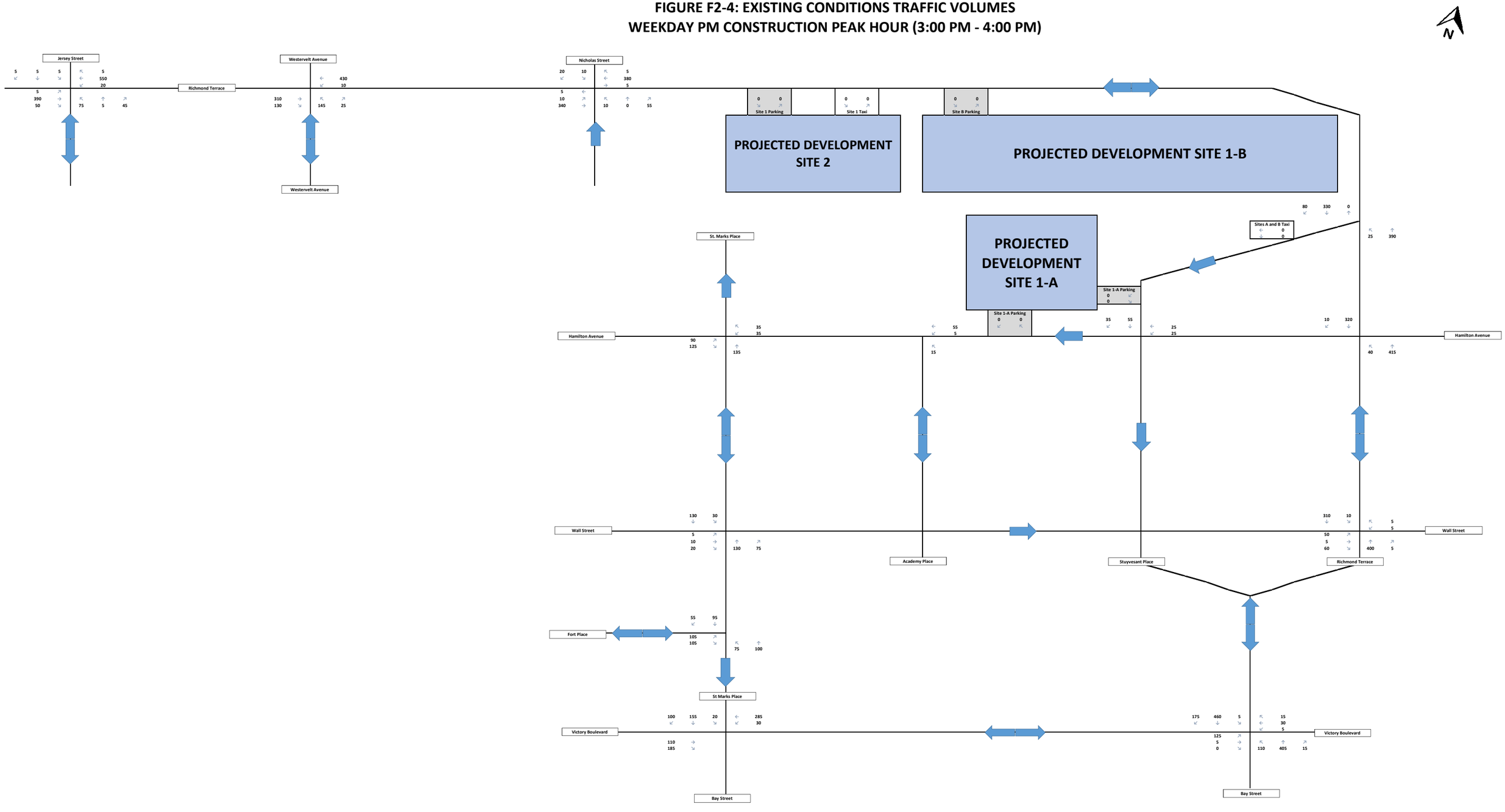


FIGURE F2-5: NO-ACTION CONDITION TRAFFIC VOLUMES
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

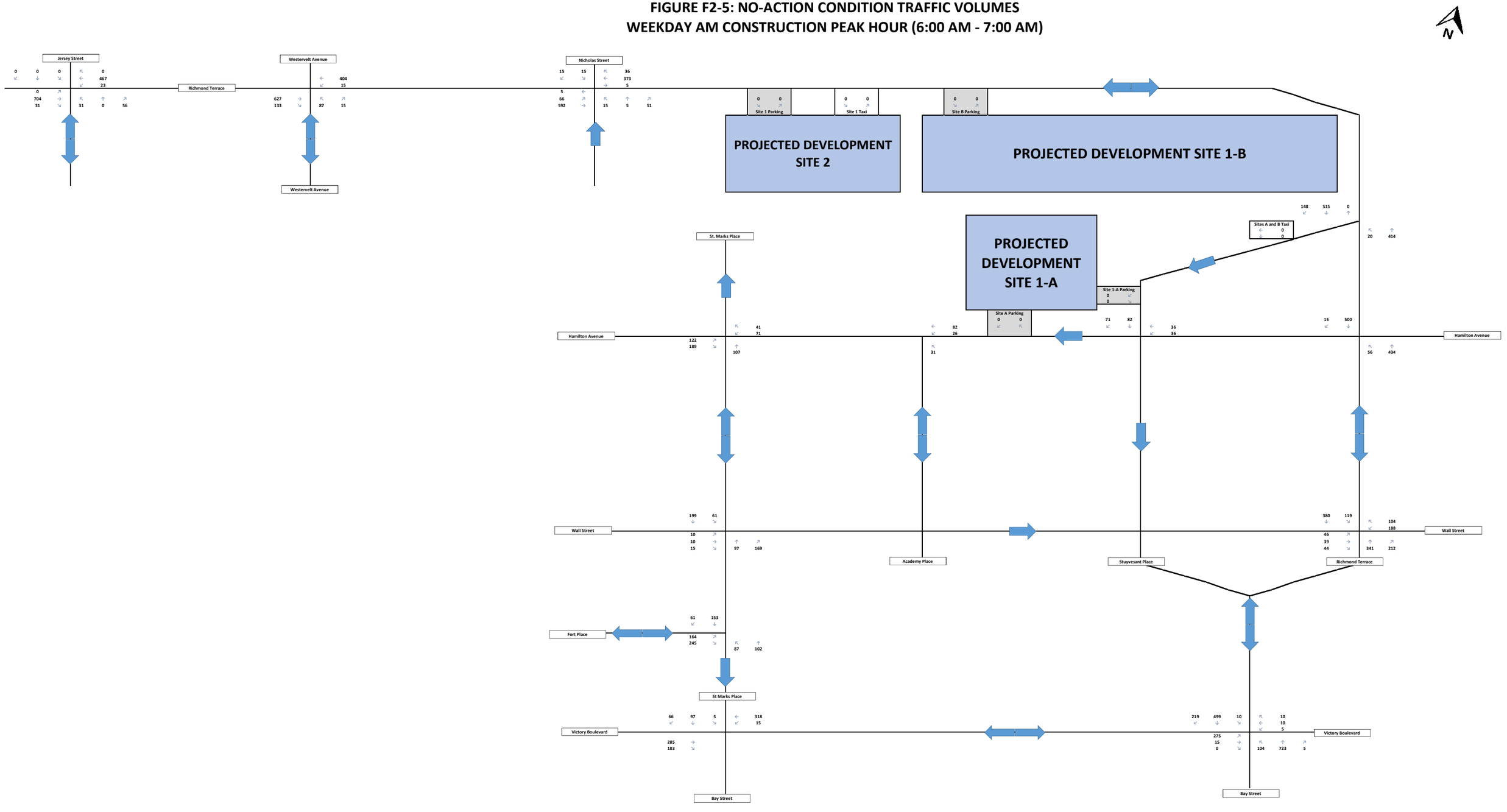


FIGURE F2-6: NO-ACTION CONDITION TRAFFIC VOLUMES
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

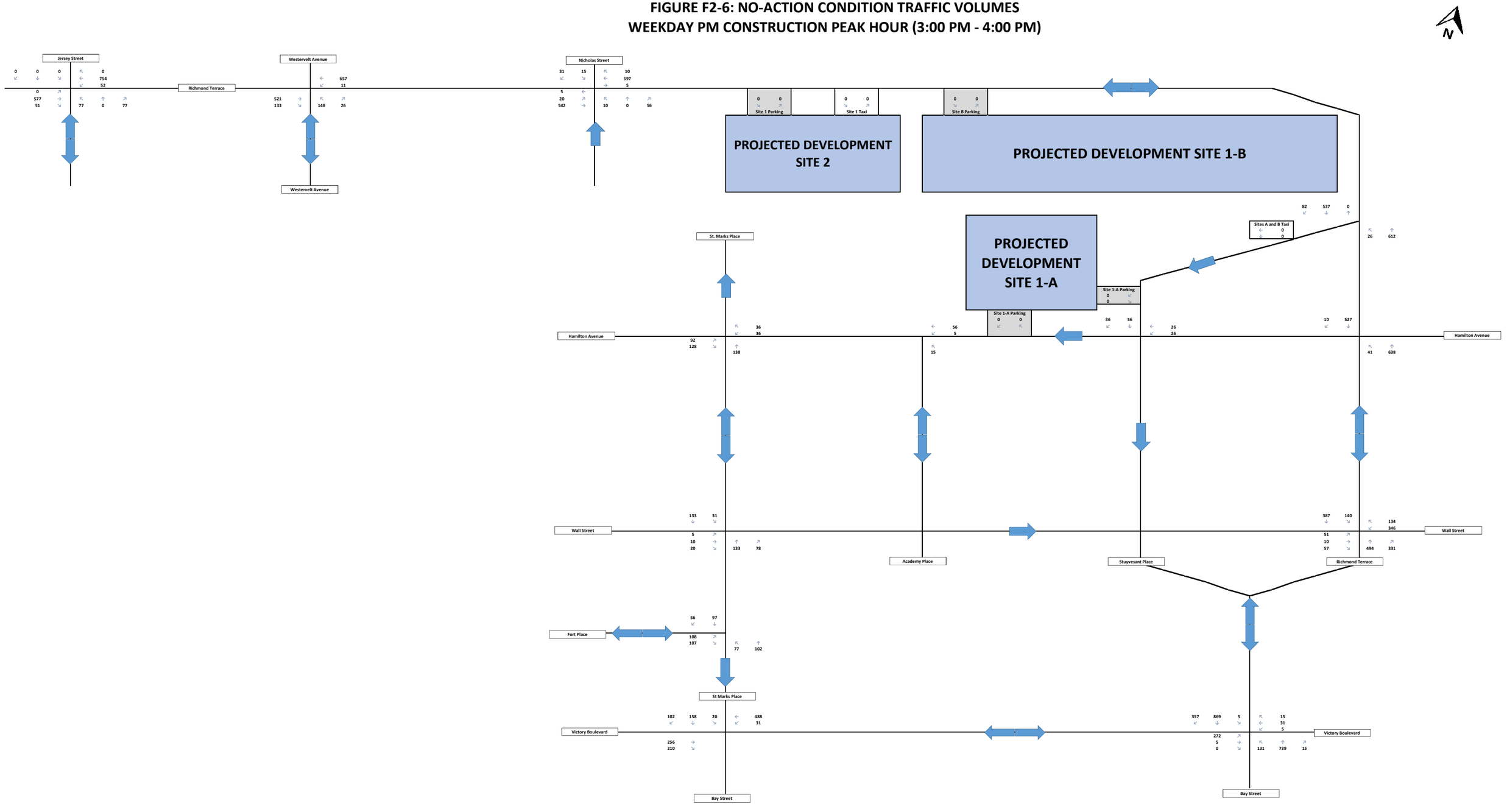


FIGURE F2-7: CONSTRUCTION-GENERATED VEHICLE TRIP ASSIGNMENTS
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

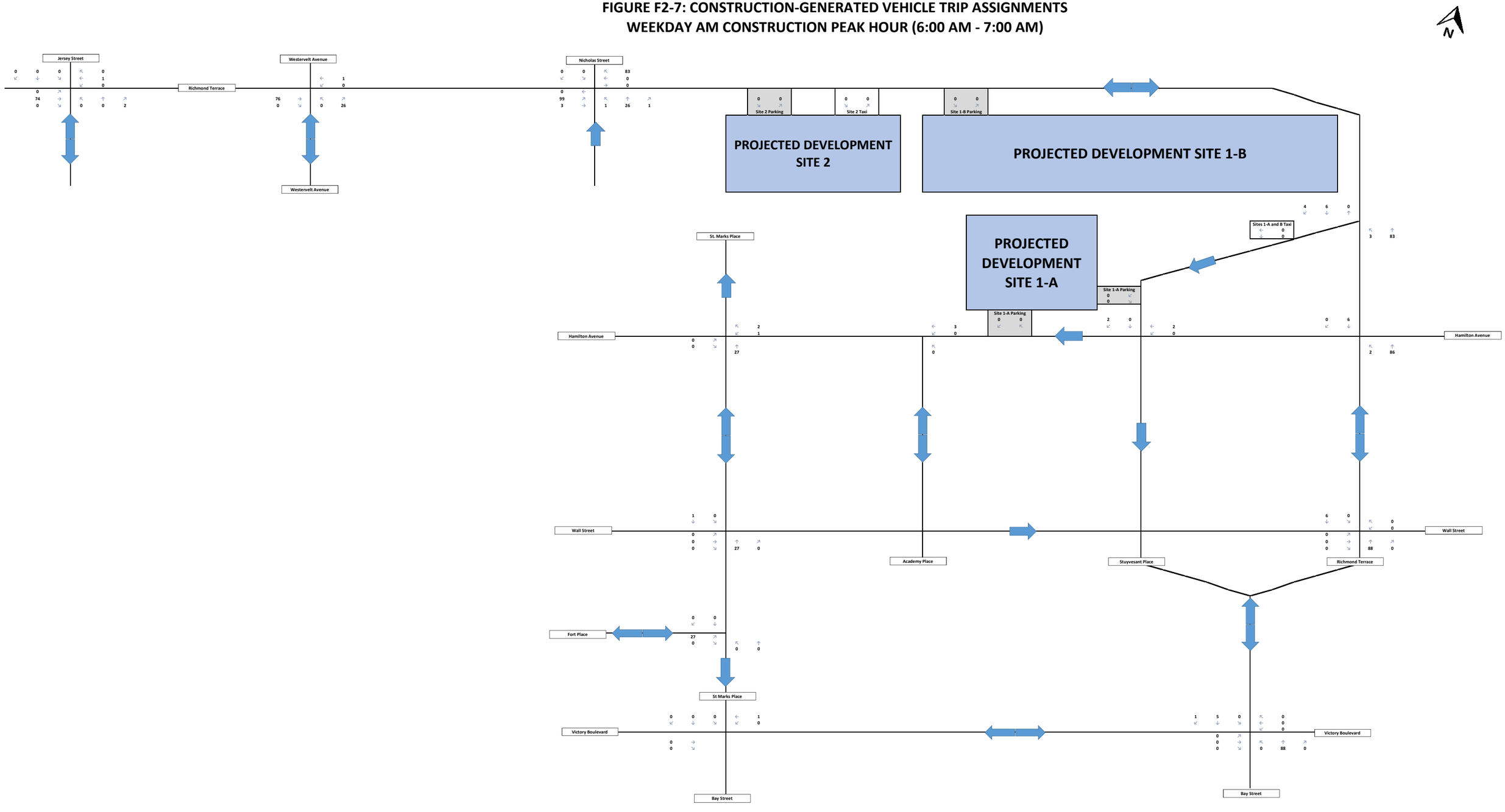


FIGURE F2-8: CONSTRUCTION-GENERATED VEHICLE TRIP ASSIGNMENTS
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

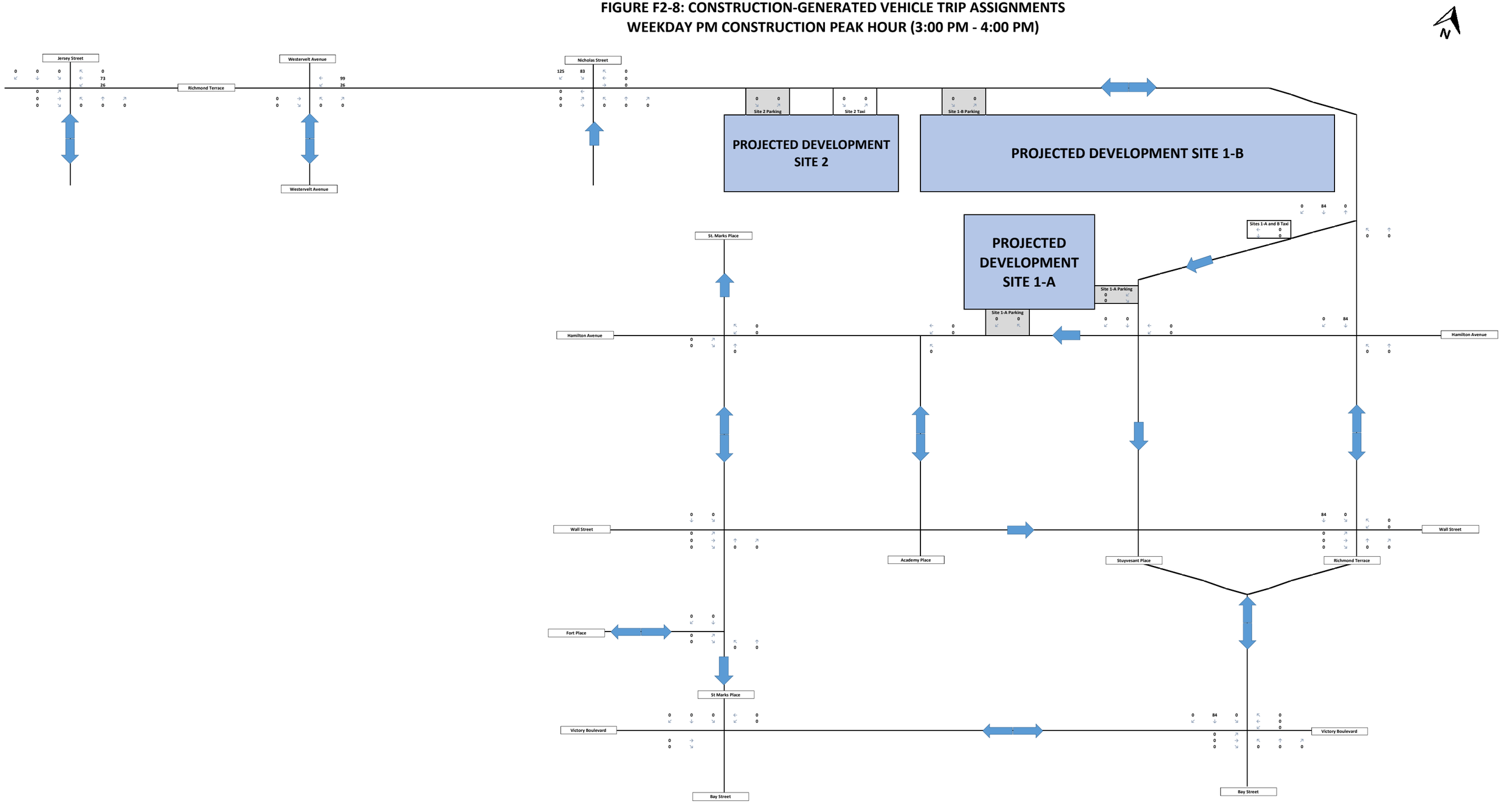


FIGURE F2-9: WITH-ACTION CONDITION TRAFFIC VOLUMES
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

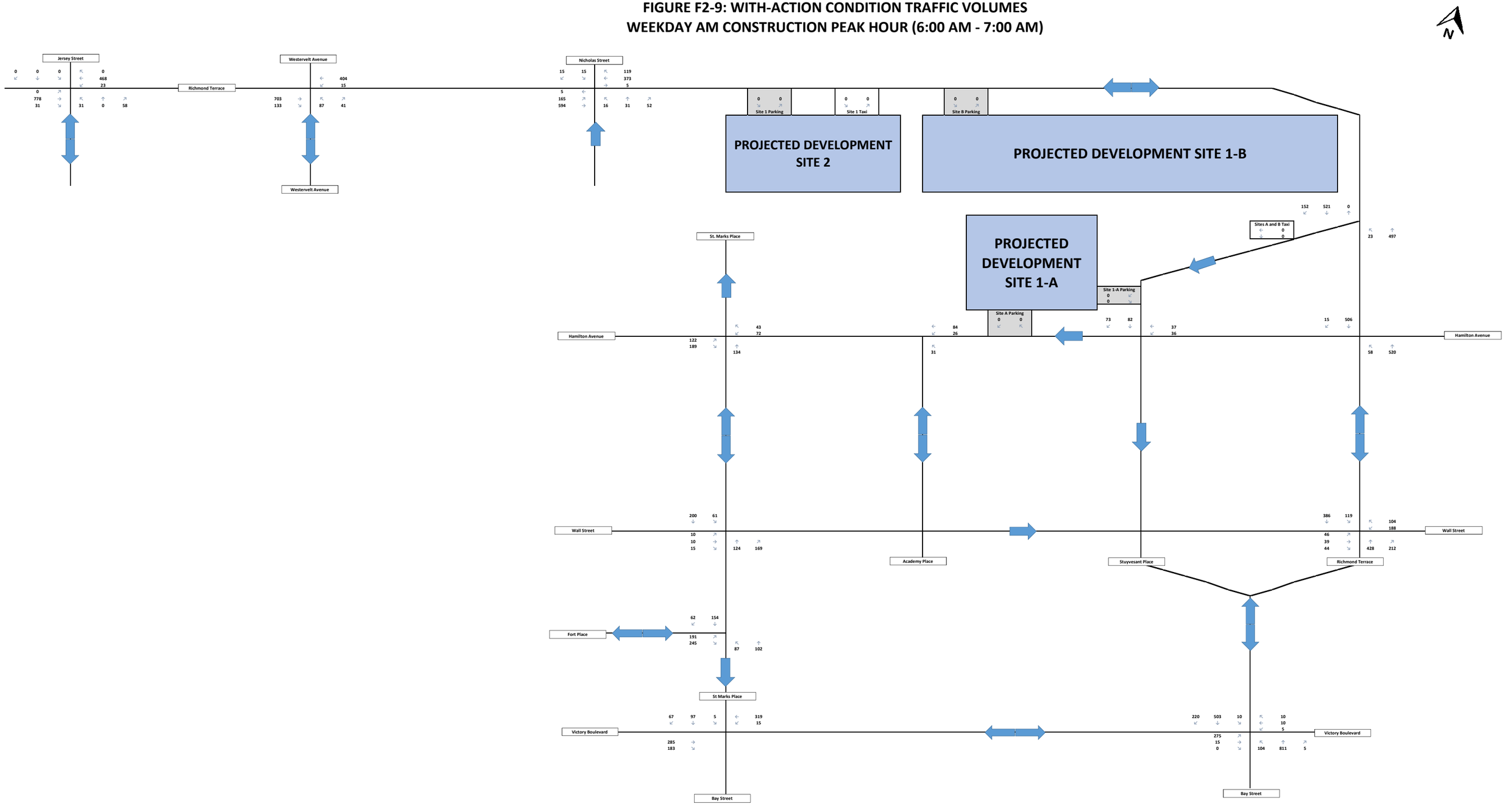


FIGURE F2-10: WITH-ACTION CONDITION TRAFFIC VOLUMES
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

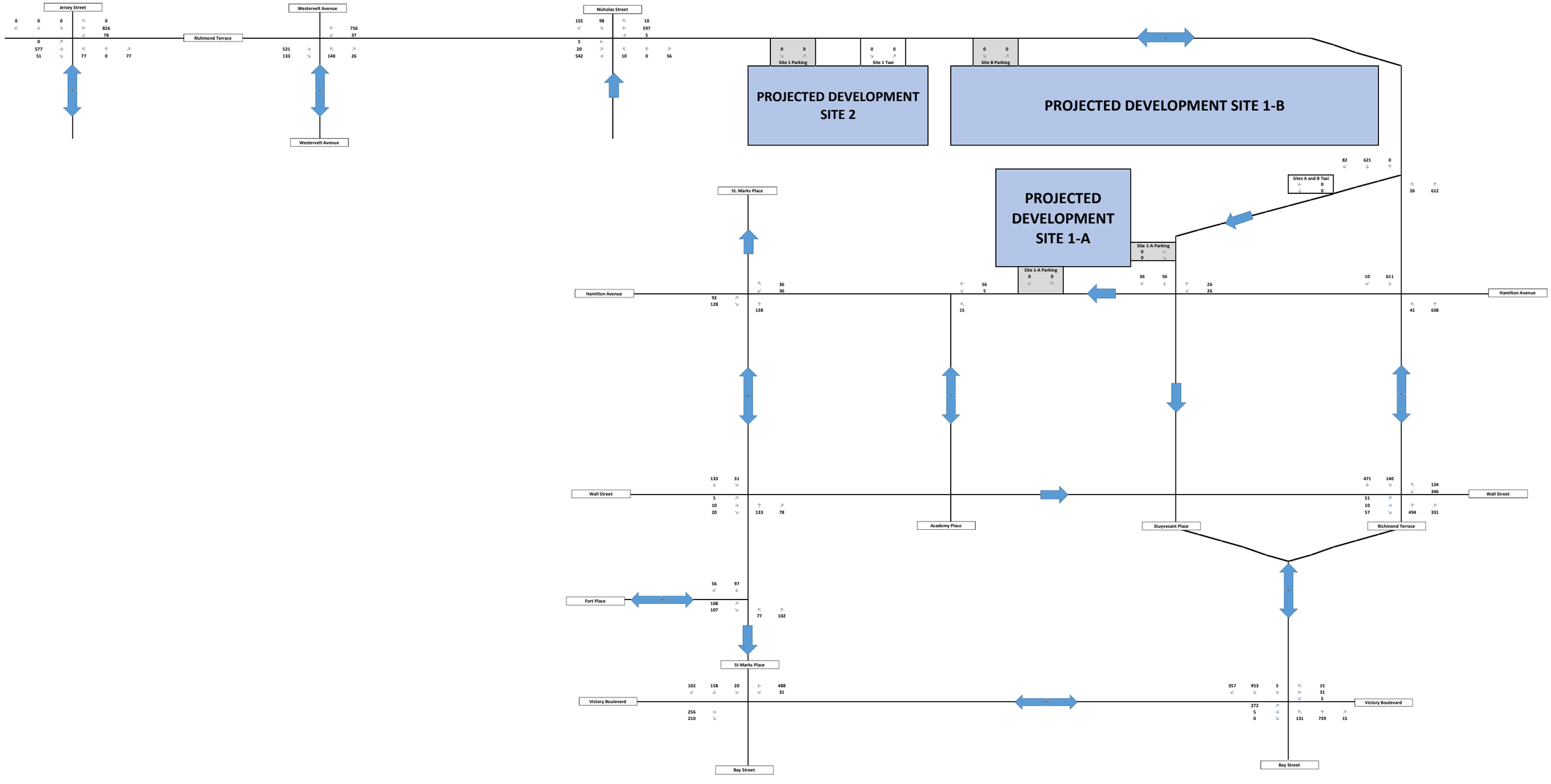


FIGURE F2-11: CONSTRUCTION-GENERATED PEDESTRIAN TRIP ASSIGNMENTS
WEEKDAY AM CONSTRUCTION PEAK HOUR (6:00 AM - 7:00 AM)

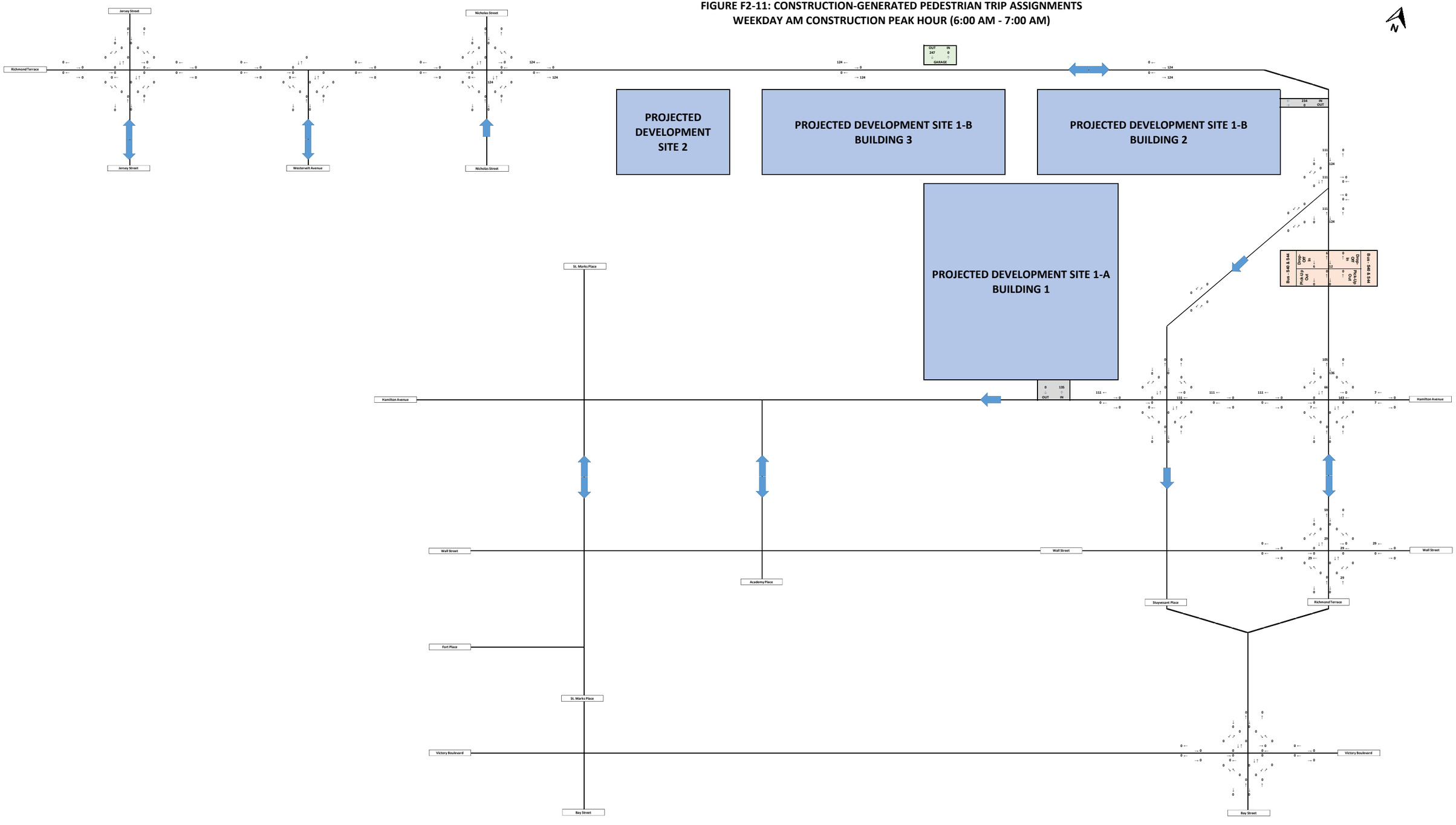


FIGURE F2-12: CONSTRUCTION-GENERATED PEDESTRIAN TRIP ASSIGNMENTS
WEEKDAY PM CONSTRUCTION PEAK HOUR (3:00 PM - 4:00 PM)

