

**APPENDIX F**  
**TRANSIT AND PEDESTRIANS**

**APPENDIX F.**

**TRANSIT AND PEDESTRIANS**

<b>Table F-1 Pre-September 11 Conditions 2001 Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile	0.11	A	0.48	C
N92.X1	HET	0.24	B	0.01	A
N92.X2	HET	1.09	F	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.57	B	0.77	C
P18A/B & P19A/B	Stairway to Platform	0.51	B	0.32	A
N92	Turnstile	0.32	B	0.55	C
N92.X3	HET	0.36	B	0.03	A
N92.X4	HET	0.69	D	0.08	A
P10 A/B	Stairway to Platform	0.10	A	0.65	B
P11	Stairway to Platform	0.67	B	1.43	E
P12	Stairway to Platform	0.02	A	0.36	A
P13	Stairway to Platform	0.40	A	0.17	A
N91	Turnstile	0.37	B	0.35	B
N91.X1	1 HEET plus 1 HET	0.17	A	0.03	A
N91.X2	HEET	0.25	B	0.05	A
N92.X5	HET	0.13	A	0.04	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.20	A	0.07	A
P15	Stairway to Platform	0.17	A	0.09	A
P16	Stairway to Platform	0.41	A	0.19	A
P17	Stairway to Platform	0.75	C	1.09	D
<b>4/5 Fulton Street Station</b>					
N95 (West)	Turnstile	0.15	A	0.40	C

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Ramp R8 (West)	To 4/5 Northbound Platform	1.52	E	0.68	B
R205 (South)	Turnstile	0.12	A	0.42	C
M2/O2	Stairway to Street	0.98	C	2.94	F
M4/O4/P4	Stairway to Street	0.18	A	0.77	C
R208 North	Turnstile	0.00	A	0.47	C
R208 North	HEET	0.00	A	0.53	C
R206 South	3 HET and 2 HEET	0.30	B	0.58	C
ML7 A/B	Transfer Stairway (To A/C)	1.08	D	0.99	C
ML5	Stairway to Platform	2.24	F	1.54	E
ML6 A/B	Transfer Stairway (To A/C)	0.18	A	1.55	E
S6/M8	Stairway to Street	0.00	A	1.86	F
S5/M7	Stairway to Street	0.00	A	0.48	B
O6/O5	Stairway to Street	0.64	B	1.14	D
R206	9 Turnstiles + 1 HET	0.37	B	0.13	A
S1/M1	Stairway to Street	1.02	D	0.31	A
<b>4/5 Fulton Street Station</b>					
S3/M3	Stairway to Street	1.60	E	0.94	C
O1/O2	Stairway to Street	0.65	B	0.00	A
<b>Church Street Passageway</b>					
N94	Turnstile	0.82	E	0.66	D
N94.X3	1 HET plus 2 HEET (north)	0.60	C	0.62	D
N92	Turnstile (South)	0.11	A	0.48	C
N92.X1	HET (South)	0.24	B	0.01	A
N92.X2	HET (South)	1.09	F	0.15	A
N92	Turnstile (North)	0.32	B	0.55	C
N92.X3	HET (North)	0.36	B	0.03	A
N92.X4	HET (North)	0.69	D	0.08	A
N92.X5	HET	0.13	A	0.04	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.37	B	0.35	B
N91.X1	1 HEET plus 1 HET	0.17	A	0.03	A
N91.X2	HEET	0.25	B	0.05	A
P2 A/B	Stairway to Street	0.77	C	1.08	D
S3	Stairway to Street	1.08	D	1.45	E

**Appendix F. Transit and Pedestrians**

S2	Stairway to Street	0.46	B	0.71	C
P4/S5	Stairway to Street	0.49	B	0.46	B
P5/S6	Stairway to Street	0.60	B	0.52	B
S7 ML1A/B	Stairway to Street	0.66	B	1.13	D
S8 M1A/B	Stairway to Street	0.83	C	0.79	C
S10/M3	Stairway to Street	0.71	C	0.94	C
S9/M2	Stairway to Street	0.71	C	0.98	C
S11 M4A/B	Stairway to Street	0.13	A	0.33	A
S12 M5A/B	Stairway to Street	0.57	B	0.17	A
S13 M6 A/B	Stairway to Street	0.04	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.17	A	0.14	A
S19 M13 A/B	Stairway to Street	0.88	C	0.67	B
S18/M12	Stairway to Street	0.24	A	0.25	A
S20 M14A/B	Stairway to Street	1.16	D	0.86	C
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.30	B	0.24	B
S6/P6	Stairway to Street	0.06	A	0.30	A
S8/P8	Stairway to Street	0.77	C	0.61	B
U2/U4	Transfer Stairway	0.54	B	0.50	B
U6/U8	Transfer Stairway	0.88	C	0.88	C
A52	Turnstile	0.32	B	0.33	B
P3 A/B	Stairway to Fare Array	0.83	C	0.83	C
<b>N/R Cortlandt Street Station</b>					
U9 A/B	Transfer Stairway	0.45	B	0.44	A
	Stairway to WTC	0.09	A	0.09	A
	Escalator to WTC (UP)	0.18	A	0.11	A
	Escalator to WTC (DN)	0.27	B	0.37	B
A51	Turnstile	0.13	A	0.13	A
S4/P4	Stairway to Street	0.22	A	0.36	A
P2	Stairway to Street/1 Liberty Plaza	0.13	A	0.05	A
	Stairways to Street	0.77	C	0.56	B
	Stairway to Mezzanine	0.39	A	0.26	A
	Transfer Stairway	0.44	A	0.14	A

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1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.22	B	0.14	A
	4-Foot wide Transfer Escalator	0.18	A	0.27	B
A53	Turnstile	0.17	A	0.19	A
S1/S3, P1A/B	Stairway to Street	0.51	B	0.56	B
	Transfer Stairway	0.23	A	0.30	A
	Stairway to WTC	0.20	A	0.22	A
	4-Foot wide Transfer Escalator	0.40	C	0.11	A
<b>1/9 Cortlandt Street Station</b>					
R106	5 Turnstiles plus 2 HEET	0.26	B	0.23	B
P4/M2	Stairway to WTC Concourse	0.09	A	0.93	C
P5/M3	Stairway to WTC Concourse	0.87	C	0.12	A
R107	5 Turnstiles plus 1 HEET	0.15	A	0.44	C
P1A/B	Stairway to Street	0.42	A	1.23	D
R108	2 Turnstiles plus 2 HET	0.68	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.46	E	0.21	A
R109	Turnstile (North)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.15	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.09	A
S1 A/B	Stairway to Street	0.11	A	0.09	A
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.10	A	0.11	A
S1/M1	Stairway to Street	0.29	A	0.31	A
R115	3 Turnstiles, 1 HET and 2 HEET	0.10	A	0.11	A
P1/P3/P5	Stairway to Platform	0.01	A	0.00	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.23	B	0.05	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.02	A	0.23	B
P10/P12	Stairway to Platform	0.66	B	0.81	C
P11/P13	Stairway to Platform	0.46	B	0.62	B
<b>2/3 Park Place Station</b>					
P9 A/B	Stairway to Mezzanine	0.76	C	1.02	D
<b>E World Trade Center</b>					
N94	Turnstile	0.82	E	0.66	D
N94.X3	1 HET plus 2 HEET (north)	0.60	C	0.62	D

## Appendix F. Transit and Pedestrians

P9	Stairway to Platform	0.70	B	0.69	B
P8	Stairway to Platform	0.27	A	0.31	A
P7 A/B	Stairway to Platform	0.35	A	0.36	A
P10 A/B	Stairway to Platform	0.41	A	0.65	B
<b>Notes</b> : v/c = volume/capacity ratio; LOS = Level of Service; HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate <b>Source</b> : Louis Berger Group, Inc., 2003					

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<b>Table F-2 Current Conditions Scenario 2003 Subway Pedestrian Analysis Based upon Spring 2003 Survey</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile	0.06	A	0.27	B
N92.X1	HET	0.13	A	0.01	A
N92.X2	HET	0.61	D	0.09	A
P8 A/B	Transfer Stairway (to 2/3)	0.32	A	0.43	A
P18A/B & P19A/B	Stairway to Platform	0.29	A	0.18	A
N92	Turnstile	0.18	A	0.30	B
N92.X3	HET	0.20	B	0.01	A
N92.X4	HET	0.39	B	0.05	A
P10 A/B	Stairway to Platform	0.05	A	0.36	A
P11	Stairway to Platform	0.38	A	0.81	C
P12	Stairway to Platform	0.01	A	0.13	A
P13	Stairway to Platform	0.23	A	0.08	A
N91	Turnstile	0.36	B	0.34	B
N91.X1	1 HEET plus 1 HET	0.17	A	0.03	A
N91.X2	HEET	0.24	B	0.05	A
N92.X5	HET	0.12	A	0.04	A
N92.X6	HET	0.04	A	0.01	A
P14	Stairway to Platform	0.20	A	0.07	A
P15	Stairway to Platform	0.16	A	0.08	A
P16	Stairway to Platform	0.39	A	0.19	A
P17	Stairway to Platform	0.72	C	1.06	D
<b>4/5 Fulton Street Station</b>					
N95 (West)	Turnstile	0.09	A	0.25	B
Ramp R8 (West)	To 4/5 Northbound Platform	1.48	E	0.69	B
R205 (South)	Turnstile	0.09	A	0.30	B
M2/O2	Stairway to Street	0.70	C	2.11	F

**Appendix F. Transit and Pedestrians**

M4/O4/P4	Stairway to Street	0.13	A	0.55	B
R208 North	Turnstile	0.00	A	0.05	A
R208 North	HEET	0.00	A	0.06	A
R206 South	3 HET and 2 HEET	0.24	B	0.07	A
ML7 A/B	Transfer Stairway (To A/C)	0.97	C	0.89	C
ML5	Stairway to Platform	2.01	F	1.39	E
ML6 A/B	Transfer Stairway (To A/C)	0.16	A	1.39	E
S6/M8	Stairway to Street	0.00	A	0.25	A
O6/O5	Stairway to Street	0.53	B	0.14	A
R206	9 Turnstiles + 1 HET	0.31	B	0.11	A
S1/M1	Stairway to Street	0.84	C	0.26	A
<b>4/5 Fulton Street Station</b>					
S3/M3	Stairway to Street	1.32	D	0.78	C
O1/O2	Stairway to Street	0.54	B	0.00	A
<b>Church Street Passageway</b>					
N94.X1	HEET (west)	0.23	B	0.21	B
N94.X2	HEET (east)	0.68	D	0.79	D
N94.X3	1 HET plus 2 HEET (north)	0.34	B	0.32	B
N92	Turnstile (south)	0.06	A	0.27	B
N92.X1	HET (south)	0.13	A	0.01	A
N92.X2	HET (south)	0.61	D	0.09	A
N92	Turnstile (north)	0.18	A	0.30	B
N92.X3	HET (north)	0.20	B	0.01	A
N92.X4	HET (north)	0.39	B	0.05	A
N92.X5	HET	0.12	A	0.04	A
N92.X6	HET	0.04	A	0.01	A
N91	Turnstile	0.36	B	0.34	B
N91.X1	1 HEET plus 1 HET	0.17	A	0.03	A
N91.X2	HEET	0.24	B	0.05	A
P2 A/B	Stairway to Street	0.43	A	0.65	B
S3	Stairway to Street	0.61	B	0.93	C
S2	Stairway to Street	0.26	A	0.38	A
P5/S6	Stairway to Street	0.34	A	0.27	A
S7 ML1A/B	Stairway to Street	0.48	B	0.64	B



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S8 M1A/B	Stairway to Street	0.49	B	0.46	B
S10/M3	Stairway to Street	0.51	B	0.54	B
S9/M2	Stairway to Street	0.46	B	0.59	B
S11 M4A/B	Stairway to Street	0.07	A	0.21	A
S12 M5A/B	Stairway to Street	0.32	A	0.11	A
S13 M6 A/B	Stairway to Street	0.04	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.16	A	0.13	A
S19 M13 A/B	Stairway to Street	0.85	C	0.65	B
S18/M12	Stairway to Street	0.23	A	0.24	A
S20 M14A/B	Stairway to Street	1.13	D	0.83	C
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.07	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.10	A
S8/P8	Stairway to Street	0.30	A	0.19	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.02	A	0.09	A
A52X1/A52X2	HEET	0.05	A	0.04	A
<b>N/R Cortlandt Street Station</b>					
S5/S7	Stairway to Street	0.08	A	0.18	A
S9/S11	Stairway to Street	0.13	A	0.35	A
P3 A/B	Stairway to Fare Array	0.09	A	0.24	A
U1/U3	Transfer Stairway	0.00	A	0.10	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.12	A	0.12	A
S4/P4	Stairway to Street	0.41	A	0.41	A
A53	Turnstile	0.11	A	0.14	A
S1/S3, P1A/B	Stairway to Street	0.31	A	0.42	A
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.13	A	0.14	A
S1/M1	Stairway to Street	0.62	B	0.67	B
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A

**Appendix F. Transit and Pedestrians**

E301	4-Foot Wide Escalator from Platform (UP)	0.29	B	0.06	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.29	B
P10/P12	Stairway to Platform	0.37	A	0.46	B
P11/P13	Stairway to Platform	0.26	A	0.35	A
P9 A/B	Stairway to Mezzanine	0.42	A	0.57	B
<b>E World Trade Center</b>					
N94.X1	HEET (west)	0.23	B	0.21	B
N94.X2	HEET (east)	0.68	D	0.79	D
N94.X3	1 HET plus 2 HEET (north)	0.34	B	0.32	B
P9	Stairway to Platform	0.39	A	0.32	A
P8	Stairway to Platform	0.15	A	0.16	A
P7 A/B	Stairway to Platform	0.20	A	0.19	A
P10 A/B	Stairway to Platform	0.23	A	0.36	A
<p><b>Notes</b> : v/c = volume/capacity ratio; LOS = Level of Service;  HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  <b>Source</b>: Louis Berger Group, Inc., 2003</p>					

**Table F-3  
Future without the Proposed Action - Pre-September 11 Scenario  
2009 Subway Pedestrian Analysis**

Element		AM Peak		PM Peak	
		v/c	LOS	v/c	LOS
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.11	A	0.50	C
N92.X1	HET	0.25	B	0.01	A
N92.X2	HET	1.14	F	0.16	A
P8 A/B	Transfer Stairway (to 2/3)	0.60	B	0.80	C
P18A/B & P19A/B	Stairway to Platform	0.53	B	0.34	A
N92	Turnstile (north)	0.33	B	0.58	C
N92.X3	HET	0.38	B	0.03	A
N92.X4	HET	0.71	D	0.09	A
P10 A/B	Stairway to Platform	0.42	A	0.67	B
P11	Stairway to Platform	0.81	C	2.45	F
P12	Stairway to Platform	0.04	A	0.61	B
P13	Stairway to Platform	0.48	B	0.40	A
N91	Turnstile	0.39	B	0.37	B
N91.X1	1 HEET plus 1 HET	0.18	A	0.03	A
N91.X2	HEET	0.26	B	0.05	A
N92.X5	HET	0.13	A	0.04	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.21	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.42	A	0.20	A
P17	Stairway to Platform	0.78	C	1.13	D
<b>4/5 Fulton Street Station</b>					
N95 (West)	Turnstile	0.10	A	0.27	B
Ramp R8 (West)	To 4/5 Northbound Platform	1.58	E	0.73	C
R205 (South)	Turnstile	0.09	A	0.32	B
M2/O2	Stairway to Street	0.75	C	2.25	F
M4/O4/P4	Stairway to Street	0.13	A	0.59	B

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R208 North	Turnstile	0.00	A	0.00	A
R208 North	HEET	0.00	A	0.23	B
R206 South	3 HET and 2 HEET	0.26	B	0.07	A
ML7 A/B	Transfer Stairway (To A/C)	1.02	D	0.93	C
ML5	Stairway to Platform	2.11	F	1.46	E
ML6 A/B	Transfer Stairway (To A/C)	0.17	A	1.46	E
S6/M8	Stairway to Street	0.00	A	0.21	A
S5/M7	Stairway to Street	0.00	A	0.05	A
O6/O5	Stairway to Street	0.56	B	0.15	A
R206	9 Turnstiles + 1 HET	0.33	B	0.11	A
S1/M1	Stairway to Street	0.90	C	0.28	A
<b>4/5 Fulton Street Station</b>					
S3/M3	Stairway to Street	1.41	E	0.83	C
O1/O2	Stairway to Street	0.57	B	0.00	A
<b>Church Street Passageway</b>					
N94	Turnstile	0.85	E	0.69	D
N94.X3	1 HET plus 2 HEET (north)	0.62	D	0.64	D
N92	Turnstile (south)	0.11	A	0.50	C
N92.X1	HET (south)	0.25	B	0.01	A
N92.X2	HET (south)	1.14	F	0.16	A
N92	Turnstile (north)	0.33	B	0.58	C
N92.X3	HET (north)	0.38	B	0.03	A
N92.X4	HET (north)	0.71	D	0.09	A
N92.X5	HET	0.13	A	0.04	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.39	B	0.37	B
N91.X1	1 HEET plus 1 HET	0.18	A	0.03	A
N91.X2	HEET	0.26	B	0.05	A
P2 A/B	Stairway to Street	0.80	C	1.12	D
S3	Stairway to Street	1.13	D	1.51	E
S2	Stairway to Street	0.48	B	0.74	C
P4/S5	Stairway to Street	0.51	B	0.48	B
P5/S6	Stairway to Street	0.63	B	0.54	B
S7 ML1A/B	Stairway to Street	0.69	B	1.18	D

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S8 M1A/B	Stairway to Street	0.86	C	0.82	C
S10/M3	Stairway to Street	0.73	C	0.97	C
S9/M2	Stairway to Street	0.74	C	1.02	D
S11 M4A/B	Stairway to Street	0.13	A	0.34	A
S12 M5A/B	Stairway to Street	0.59	B	0.18	A
S13 M6 A/B	Stairway to Street	0.04	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.91	C	0.70	B
S18/M12	Stairway to Street	0.25	A	0.26	A
S20 M14A/B	Stairway to Street	1.21	D	0.90	C
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.31	B	0.25	B
S6/P6	Stairway to Street	0.06	A	0.31	A
S8/P8	Stairway to Street	0.80	C	0.63	B
U2/U4	Transfer Stairway	0.56	B	0.52	B
U6/U8	Transfer Stairway	0.92	C	0.91	C
A52	Turnstile	0.34	B	0.34	B
P3 A/B	Stairway to Fare Array	0.86	C	0.87	C
<b>N/R Cortlandt Street Station</b>					
U9 A/B	Transfer Stairway	0.47	B	0.45	B
	Stairway to WTC	0.09	A	0.09	A
	Escalator to WTC (UP)	0.18	A	0.12	A
	Escalator to WTC (DN)	0.28	B	0.39	B
A51	Turnstile	0.14	A	0.13	A
S4/P4	Stairway to Street	0.23	A	0.37	A
P2	Stairway to Street/1 Liberty Plaza	0.13	A	0.05	A
	Stairways to Street	0.80	C	0.58	B
	Stairway to Mezzanine	0.41	A	0.27	A
	Transfer Stairway	0.46	B	0.15	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.23	B	0.14	A
	4-Foot wide Transfer Escalator	0.19	A	0.28	B
A53	Turnstile	0.18	A	0.20	A
S1/S3, P1A/B	Stairway to Street	0.54	B	0.59	B

**Appendix F. Transit and Pedestrians**

	Transfer Stairway	0.24	A	0.31	A
	Stairway to WTC	0.21	A	0.22	A
	4-Foot wide Transfer Escalator	0.42	C	0.11	A
<b>1/9 Cortlandt Street Station</b>					
R106	5 Turnstiles plus 2 HEET	0.28	B	0.24	B
P4/M2	Stairway to WTC Concourse	0.10	A	0.96	C
P5/M3	Stairway to WTC Concourse	0.91	C	0.13	A
R107	5 Turnstiles plus 1 HEET	0.15	A	0.46	C
P1A/B	Stairway to Street	0.43	A	1.28	D
R108	2 Turnstiles plus 2 HET	0.70	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.52	E	0.21	A
R109	Turnstile (north)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.16	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.09	A
S1 A/B	Stairway to Street	0.12	A	0.09	A
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.11	A	0.12	A
S1/M1	Stairway to Street	0.30	A	0.33	A
R115	3 Turnstiles, 1 HET and 2 HEET	0.11	A	0.12	A
P1/P3/P5	Stairway to Platform	0.01	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.24	B	0.05	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.02	A	0.24	B
P10/P12	Stairway to Platform	0.68	B	0.84	C
P11/P13	Stairway to Platform	0.47	B	0.64	B
<b>2/3 Park Place Station</b>					
P9 A/B	Stairway to Mezzanine	0.79	C	1.06	D
<b>E World Trade Center</b>					
N94	Turnstile	0.85	E	0.69	D
N94.X3	1 HET plus 2 HEET (north)	0.62	D	0.64	D
P9	Stairway to Platform	0.73	C	0.72	C
P8	Stairway to Platform	0.28	A	0.32	A
P7 A/B	Stairway to Platform	0.37	A	0.38	A
P10 A/B	Stairway to Platform	0.42	A	0.67	B

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**Notes :** v/c = volume/capacity ratio; LOS = Level of Service;  
HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  
**Source:** Louis Berger Group, Inc., 2003

<b>Table F-4 Future without the Proposed Action Pre-September 11 Scenario 2015 Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.12	A	0.51	C
N92.X1	HET	0.25	B	0.01	A
N92.X2	HET	1.17	F	0.16	A
P8 A/B	Transfer Stairway (to 2/3)	0.61	B	0.82	C
P18A/B & P19A/B	Stairway to Platform	0.55	B	0.35	A
N92	Turnstile (north)	0.34	B	0.59	C
N92.X3	HET	0.39	B	0.03	A
N92.X4	HET	0.73	D	0.09	A
P10 A/B	Stairway to Platform	0.10	A	0.69	B
P11	Stairway to Platform	0.83	C	2.52	F
P12	Stairway to Platform	0.04	A	0.63	B
P13	Stairway to Platform	0.50	B	0.42	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.17	D
<b>4/5 Fulton Street Station</b>					
N95 (West)	Turnstile	0.11	A	0.29	B
Ramp R8 (West)	To 4/5 Northbound Platform	1.71	F	0.79	C
R205 (South)	Turnstile	0.13	A	0.47	C
M2/O2	Stairway to Street	1.08	D	3.24	F
M4/O4/P4	Stairway to Street	0.19	A	0.85	C
R208 North	Turnstile	0.00	A	0.00	A



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R208 North	HEET	0.00	A	2.36	F
R206 South	3 HET and 2 HEET	0.33	B	0.64	D
ML7 A/B	Transfer Stairway (To A/C)	0.93	C	0.85	C
ML5	Stairway to Platform	1.92	F	1.32	D
ML6 A/B	Transfer Stairway (To A/C)	0.15	A	1.33	D
S6/M8	Stairway to Street	0.00	A	2.69	F
S5/M7	Stairway to Street	0.00	A	0.55	B
O6/O5	Stairway to Street	0.70	C	1.26	D
R206	9 Turnstiles + 1 HET	0.41	C	0.14	A
S1/M1	Stairway to Street	1.12	D	0.35	A
<b>4/5 Fulton Street Station</b>					
S3/M3	Stairway to Street	1.76	F	1.04	D
O1/O2	Stairway to Street	0.71	C	0.00	A
<b>Church Street Passageway</b>					
N94	Turnstile	0.87	E	0.71	D
N94.X3	1 HET plus 2 HEET (north)	0.64	D	0.66	D
N92	Turnstile (south)	0.12	A	0.51	C
N92.X1	HET (south)	0.25	B	0.01	A
N92.X2	HET (south)	1.17	F	0.16	A
N92	Turnstile (north)	0.34	B	0.59	C
N92.X3	HET (north)	0.39	B	0.03	A
N92.X4	HET (north)	0.73	D	0.09	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.82	C	1.15	D
S3	Stairway to Street	1.16	D	1.56	E
S2	Stairway to Street	0.50	B	0.76	C
P4/S5	Stairway to Street	0.52	B	0.49	B
P5/S6	Stairway to Street	0.64	B	0.56	B
S7 ML1A/B	Stairway to Street	0.71	C	1.21	D
S8 M1A/B	Stairway to Street	0.89	C	0.85	C

**Appendix F. Transit and Pedestrians**

S10/M3	Stairway to Street	0.76	C	1.00	D
S9/M2	Stairway to Street	0.76	C	1.05	D
S11 M4A/B	Stairway to Street	0.14	A	0.35	A
S12 M5A/B	Stairway to Street	0.61	B	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.32	B	0.26	B
S6/P6	Stairway to Street	0.07	A	0.32	A
S8/P8	Stairway to Street	0.82	C	0.65	B
U2/U4	Transfer Stairway	0.58	B	0.53	B
U6/U8	Transfer Stairway	0.94	C	0.94	C
A52	Turnstile	0.35	B	0.35	B
P3 A/B	Stairway to Fare Array	0.88	C	0.89	C
<b>N/R Cortlandt Street Station</b>					
U9 A/B	Transfer Stairway	0.48	B	0.47	B
	Stairway to WTC	0.10	A	0.09	A
	Escalator to WTC (UP)	0.19	A	0.12	A
	Escalator to WTC (DOWN)	0.29	B	0.40	C
A51	Turnstile	0.14	A	0.14	A
S4/P4	Stairway to Street	0.23	A	0.38	A
P2	Stairway to Street/1 Liberty Plaza	0.14	A	0.05	A
	Stairways to Street	0.83	C	0.60	B
	Stairway to Mezzanine	0.42	A	0.27	A
	Transfer Stairway	0.47	B	0.15	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.24	B	0.14	A
	4-Foot wide Transfer Escalator	0.19	A	0.29	B
A53	Turnstile	0.19	A	0.20	B
S1/S3, P1A/B	Stairway to Street	0.55	B	0.60	B
	Transfer Stairway	0.25	A	0.32	A

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	Stairway to WTC	0.21	A	0.23	A
	4-Foot wide Transfer Escalator	0.43	C	0.11	A
<b>1/9 Cortlandt Street Station</b>					
R106	5 Turnstiles plus 2 HEET	0.28	B	0.25	B
P4/M2	Stairway to WTC Concourse	0.10	A	0.99	C
P5/M3	Stairway to WTC Concourse	0.93	C	0.13	A
R107	5 Turnstiles plus 1 HEET	0.16	A	0.47	C
P1A/B	Stairway to Street	0.45	A	1.31	D
R108	2 Turnstiles plus 2 HET	0.72	D	0.10	A
P3A/B, M1A/B	Stairway to Street	1.56	E	0.22	A
R109	Turnstile (north)	0.09	A	0.07	A
P1	Stairway to Mezzanine	0.16	A	0.03	A
P2 A/B	Stairway to Mezzanine	0.02	A	0.10	A
S1 A/B	Stairway to Street	0.12	A	0.09	A
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.11	A	0.12	A
S1/M1	Stairway to Street	0.31	A	0.34	A
R115	3 Turnstiles, 1 HET and 2 HEET	0.11	A	0.12	A
P1/P3/P5	Stairway to Platform	0.01	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.25	B	0.05	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.02	A	0.25	B
P10/P12	Stairway to Platform	0.70	C	0.87	C
P11/P13	Stairway to Platform	0.49	B	0.66	B
<b>2/3 Park Place Station</b>					
P9 A/B	Stairway to Mezzanine	0.81	C	1.09	D
<b>E World Trade Center</b>					
N94	Turnstile	0.87	E	0.71	D
N94.X3	1 HET plus 2 HEET (north)	0.64	D	0.66	D
P9	Stairway to Platform	0.75	C	0.74	C
P8	Stairway to Platform	0.29	A	0.33	A
P7 A/B	Stairway to Platform	0.38	A	0.39	A
P10 A/B	Stairway to Platform	0.44	A	0.69	B
<p><b>Notes :</b> v/c = volume/capacity ratio; LOS = Level of Service;  HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate</p> <p><b>Source:</b> Louis Berger Group, Inc., 2003</p>					

<b>Table F-5 Future without the Proposed Action - Current Conditions Scenario 2009 Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.11	A	0.32	B
N92.X1	HET	0.16	A	0.01	A
N92.X2	HET	0.85	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.37	A	0.49	B
P18A/B & P19A/B	Stairway to Platform	0.45	A	0.24	A
N92	Turnstile (north)	0.29	B	0.41	C
N92.X3	HET	0.23	B	0.02	A
N92.X4	HET	0.43	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.40	A
P11	Stairway to Platform	0.58	B	1.67	F
P12	Stairway to Platform	0.03	A	0.42	A
P13	Stairway to Platform	0.35	A	0.28	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.16	D
<b>Church Street Passageway</b>					
N94	Turnstile	0.46	C	0.38	B
N94.X3	1 HET plus 2 HEET (north)	0.37	B	0.35	B
N92	Turnstile (south)	0.11	A	0.32	B
N92.X1	HET (south)	0.16	A	0.01	A
N92.X2	HET (south)	0.85	E	0.15	A
N92	Turnstile (north)	0.29	B	0.41	C

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N92.X3	HET (north)	0.23	B	0.02	A
N92.X4	HET (north)	0.43	C	0.07	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.61	B	0.91	C
S3	Stairway to Street	0.89	C	1.27	D
S2	Stairway to Street	0.34	A	0.55	B
<b>Church Street Passageway</b>					
P4/S5	Stairway to Street	0.50	B	0.58	B
P5/S6	Stairway to Street	0.60	B	0.63	B
S7 ML1A/B	Stairway to Street	0.60	B	0.92	C
S8 M1A/B	Stairway to Street	0.73	C	0.71	C
S10/M3	Stairway to Street	0.65	B	0.81	C
S9/M2	Stairway to Street	0.59	B	0.93	C
S11 M4A/B	Stairway to Street	0.12	A	0.29	A
S12 M5A/B	Stairway to Street	0.40	A	0.17	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.68	B	0.74	C
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.32	B	0.07	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.42	A	0.51	B

**Appendix F. Transit and Pedestrians**

P11/P13	Stairway to Platform	0.30	A	0.39	A
P9 A/B	Stairway to Mezzanine	0.49	B	0.64	B
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.07	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.11	A
S8/P8	Stairway to Street	0.32	A	0.20	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.03	A	0.10	A
A52X1/A52X2	HEET	0.05	A	0.05	A
S5/S7	Turnstile (north)	0.08	A	0.19	A
S9/S11	Stairway to Street	0.14	A	0.37	A
P3 A/B	Stairway to Fare Array	0.10	A	0.25	A
U1/U3	Transfer Stairway	0.01	A	0.11	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.12	A	0.12	A
S4/P4	Stairway to Street	0.43	A	0.43	A
A53	Turnstile	0.11	A	0.15	A
<b>N/R Cortlandt Street Station</b>					
S1/S3, P1A/B	Stairway to Street	0.33	A	0.44	A
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P9	Street Stairs	0.86	C	0.19	A
P11	Street Stairs	0.08	A	0.07	A
P16	Street Stairs	0.69	B	0.16	A
P17	Street Stairs	0.22	A	0.49	B
P2	Escalator up to street (north)	0.09	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.41	C
P4	Escalator up to street (northeast corner)	0.21	B	0.06	A
P21	Escalator down from street (northeast corner)	0.08	A	0.10	A
P3	Escalator up to street (south)	0.18	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.31	B
P5	Escalator up to street (southeast corner)	0.21	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.10	A

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P15	Escalator up from platform to World of Golf	0.48	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.28	B
C25	Escalator up (express)	0.22	B	0.02	A
C26	Escalator down (express)	0.22	B	0.02	A
S5	Walkway (southeast exit to John)	0.20	A	0.17	A
<b>Concourse Level</b>					
C11 and C27	Turnstile	0.34	B	0.34	B
C1	A/C Platform Stairs	0.49	B	0.38	A
C2	A/C Platform Stairs	0.73	C	0.56	B
C3	A/C Platform Stairs	0.97	C	0.75	C
C4	A/C Platform Stairs	0.97	C	0.75	C
C5	A/C Platform Stairs	1.00	C	0.77	C
C8&C20	Stair to platform (north)	0.66	B	0.14	A
C9&C21	Stair to platform (south)	0.42	A	0.30	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.34	A	0.21	A
C19&C24	Stair from underpass to platform	0.16	A	0.53	B
C8	Escalator up to platform (north)	0.52	C	0.04	A
C20	Escalator down from platform (north)	0.09	A	0.17	A
C9	Escalator up to platform (south)	0.45	C	0.45	C
C21	Escalator down from platform (south)	0.26	B	0.07	A
C12	Escalator up	0.13	A	0.03	A
C22	Escalator down	0.04	A	0.10	A
C25	Escalator up (express)	0.22	B	0.02	A
<b>4/5 Fulton Street Station</b>					
<b>Concourse Level</b>					
C26	Escalator down (express)	0.22	B	0.02	A
C15	Escalator up from street to platform	0.26	B	0.20	A
C23	Escalator down from platform to street	0.56	C	0.32	B
C19	Escalator up from underpass to platform	0.17	A	0.15	A
C24	Escalator down from platform to underpass	0.11	A	0.56	C
C13 and C28	Dey Street Concourse (east)	0.37	A	0.35	A
C14 and C29	Dey Street Concourse (west)	0.50	B	0.42	A
C18 and C31	Central underpass	0.61	B	0.24	A

**Appendix F. Transit and Pedestrians**

<b>Platform Level</b>					
P6 and P13	Turnstile	0.48	C	0.54	C
P8	HEETs SB Lex platform (NW corner)	0.57	C	0.13	A
P10	HEETs SB Lex platform (SW corner)	0.14	A	0.12	A
P14 and P26	Turnstile	0.35	B	0.17	A
P9	Street Stairs	0.86	C	0.19	A
P11	Street Stairs	0.08	A	0.07	A
P16	Street Stairs	0.69	B	0.16	A
P17	Street Stairs	0.22	A	0.49	B
P2&P18	Stair to street (north)	0.02	A	0.03	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.11	A	0.06	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.34	A	0.21	A
C19&C24	Stair from underpass to platform	0.16	A	0.53	B
P2	Escalator up to street (north)	0.09	A	0.01	A
P18	Escalator down from street (north)	0.06	A	0.41	C
P3	Escalator up to street (south)	0.18	A	0.01	A
P19	Escalator down from street (south)	0.02	A	0.31	B
P4	Escalator up to street (northeast corner)	0.21	B	0.06	A
P21	Escalator down from street (northeast corner)	0.08	A	0.10	A
P5	Escalator up to street (southeast corner)	0.21	B	0.05	A
P22	Escalator down from street (southeast corner)	0.06	A	0.10	A
P15	Escalator up from platform to World of Golf	0.48	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.28	B
C12	Escalator up	0.13	A	0.03	A
C22	Escalator down	0.04	A	0.10	A
C15	Escalator up from street to platform	0.26	B	0.20	A
C23	Escalator down from platform to street	0.56	C	0.32	B
<b>4/5 Fulton Street Station</b>					
<b>Platform Level</b>					
C19	Escalator up from underpass to platform	0.17	A	0.15	A
C24	Escalator down from platform to underpass	0.11	A	0.56	C
<b>E World Trade Center</b>					



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N94	Turnstile	0.46	C	0.38	B
N94.X3	1 HET plus 2 HEET (north)	0.37	B	0.35	B
P9	Stairway to Platform	0.43	A	0.35	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.25	A	0.40	A
<p><b>Notes :</b> v/c = volume/capacity ratio; LOS = Level of Service;                  HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  <b>Source:</b> Louis Berger Group, Inc., 2003</p>					

<b>Table F-6 Future Without the Proposed Action - Current Conditions Scenario 2015 Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.12	A	0.33	B
N92.X1	HET	0.17	A	0.01	A
N92.X2	HET	0.88	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.38	A	0.50	B
P18A/B & P19A/B	Stairway to Platform	0.47	B	0.25	A
N92	Turnstile (north)	0.31	B	0.43	C
N92.X3	HET	0.23	B	0.02	A
N92.X4	HET	0.44	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.41	A
P11	Stairway to Platform	0.60	B	1.73	F
P12	Stairway to Platform	0.03	A	0.43	A
P13	Stairway to Platform	0.36	A	0.29	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.19	A	0.10	A
P16	Stairway to Platform	0.45	A	0.21	A
P17	Stairway to Platform	0.82	C	1.20	D
<b>Church Street Passageway</b>					
N94	Turnstile	0.48	C	0.40	B
N94.X3	1 HET plus 2 HEET (north)	0.38	B	0.36	B
N92	Turnstile (south)	0.12	A	0.33	B
N92.X1	HET (south)	0.17	A	0.01	A
N92.X2	HET (south)	0.88	E	0.15	A
N92	Turnstile (north)	0.31	B	0.43	C

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N92.X3	HET (north)	0.23	B	0.02	A
N92.X4	HET (north)	0.44	C	0.07	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
P2 A/B	Stairway to Street	0.63	B	0.94	C
S3	Stairway to Street	0.92	C	1.32	D
S2	Stairway to Street	0.35	A	0.57	B
<b>Church Street Passageway</b>					
P4/S5	Stairway to Street	0.53	B	0.60	B
P5/S6	Stairway to Street	0.62	B	0.65	B
S7 ML1A/B	Stairway to Street	0.61	B	0.95	C
S8 M1A/B	Stairway to Street	0.76	C	0.73	C
S10/M3	Stairway to Street	0.67	B	0.84	C
S9/M2	Stairway to Street	0.61	B	0.97	C
S11 M4A/B	Stairway to Street	0.12	A	0.31	A
S12 M5A/B	Stairway to Street	0.42	A	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.08	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.15	A
S19 M13 A/B	Stairway to Street	0.96	C	0.73	C
S18/M12	Stairway to Street	0.27	A	0.27	A
S20 M14A/B	Stairway to Street	1.28	D	0.95	C
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.70	C	0.76	C
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.33	B	0.07	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.43	A	0.53	B

**Appendix F. Transit and Pedestrians**

P11/P13	Stairway to Platform	0.30	A	0.40	A
P9 A/B	Stairway to Mezzanine	0.50	B	0.66	B
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.08	A	0.06	A
S6/P6	Stairway to Street	0.04	A	0.11	A
S8/P8	Stairway to Street	0.33	A	0.20	A
U2/U4	Transfer Stairway	0.00	A	0.04	A
U6/U8	Transfer Stairway	0.00	A	0.06	A
A52	Turnstile	0.03	A	0.10	A
A52X1/A52X2	HEET	0.06	A	0.05	A
S5/S7	Turnstile (north)	0.08	A	0.20	A
S9/S11	Stairway to Street	0.14	A	0.38	A
P3 A/B	Stairway to Fare Array	0.10	A	0.26	A
U1/U3	Transfer Stairway	0.01	A	0.11	A
U9 A/B	Transfer Stairway	0.00	A	0.03	A
A51	Turnstile	0.13	A	0.13	A
S4/P4	Stairway to Street	0.44	A	0.44	A
A53	Turnstile	0.11	A	0.15	A
<b>N/R Cortlandt Street Station</b>					
S1/S3, P1A/B	Stairway to Street	0.33	A	0.46	B
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P9	Street Stairs	0.97	C	0.21	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.78	C	0.18	A
P17	Street Stairs	0.25	A	0.56	B
P2	Escalator up to street (north)	0.11	A	0.01	A
P18	Escalator down from street (north)	0.07	A	0.46	C
P4	Escalator up to street (northeast corner)	0.24	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P3	Escalator up to street (south)	0.21	B	0.01	A
P19	Escalator down from street (south)	0.02	A	0.35	B
P5	Escalator up to street (southeast corner)	0.24	B	0.05	A
P22	Escalator down from street (southeast corner)	0.07	A	0.11	A

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P15	Escalator up from platform to World of Golf	0.54	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.32	B
C25	Escalator up (express)	0.25	B	0.02	A
C26	Escalator down (express)	0.25	B	0.02	A
S5	Walkway (southeast exit to John)	0.23	A	0.14	A
<b>Concourse Level</b>					
C11 and C27	Turnstile	0.38	B	0.38	B
C1	A/C Platform Stairs	0.55	B	0.43	A
C2	A/C Platform Stairs	0.83	C	0.64	B
C3	A/C Platform Stairs	1.10	D	0.85	C
C4	A/C Platform Stairs	1.10	D	0.85	C
C5	A/C Platform Stairs	1.13	D	0.87	C
C8&C20	Stair to platform (north)	0.74	C	0.16	A
C9&C21	Stair to platform (south)	0.47	B	0.34	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.39	A	0.24	A
C19&C24	Stair from underpass to platform	0.16	A	0.60	B
C8	Escalator up to platform (north)	0.59	C	0.04	A
C20	Escalator down from platform (north)	0.10	A	0.20	A
C9	Escalator up to platform (south)	0.51	C	0.51	C
C21	Escalator down from platform (south)	0.30	B	0.07	A
C12	Escalator up	0.15	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C25	Escalator up (express)	0.25	B	0.02	A
<b>4/5 Fulton Street Station</b>					
<b>Concourse Level</b>					
C26	Escalator down (express)	0.25	B	0.02	A
C15	Escalator up from street to platform	0.29	B	0.22	B
C23	Escalator down from platform to street	0.64	D	0.36	B
C19	Escalator up from underpass to platform	0.20	A	0.17	A
C24	Escalator down from platform to underpass	0.12	A	0.63	D
C13 and C28	Dey Street Concourse (east)	0.41	A	0.39	A
C14 and C29	Dey Street Concourse (west)	0.57	B	0.48	B
C18 and C31	Central underpass	0.69	B	0.27	A

**Appendix F. Transit and Pedestrians**

<b>Platform Level</b>					
P6 and P13	Turnstile	0.54	C	0.61	D
P8	HEETs SB Lex platform (NW corner)	0.65	D	0.14	A
P10	HEETs SB Lex platform (SW corner)	0.16	A	0.14	A
P14 and P26	Turnstile	0.40	B	0.19	A
P9	Street Stairs	0.97	C	0.21	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.78	C	0.18	A
P17	Street Stairs	0.25	A	0.56	B
P2&P18	Stair to street (north)	0.02	A	0.04	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.12	A	0.07	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.39	B	0.22	A
C19&C24	Stair from underpass to platform	0.16	A	0.60	C
P2	Escalator up to street (north)	0.11	A	0.01	A
P18	Escalator down from street (north)	0.07	A	0.46	C
P3	Escalator up to street (south)	0.21	B	0.01	A
P19	Escalator down from street (south)	0.02	A	0.35	B
P4	Escalator up to street (northeast corner)	0.24	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P5	Escalator up to street (southeast corner)	0.24	B	0.05	A
P22	Escalator down from street (southeast corner)	0.07	A	0.11	A
P15	Escalator up from platform to World of Golf	0.54	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.32	B
C12	Escalator up	0.07	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C15	Escalator up from street to platform	0.29	B	0.22	B
C23	Escalator down from platform to street	0.64	D	0.36	B
<b>4/5 Fulton Street Station</b>					
<b>Platform Level</b>					
C19	Escalator up from underpass to platform	0.20	A	0.17	A
C24	Escalator down from platform to underpass	0.12	A	0.63	D
<b>E World Trade Center</b>					

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N94	Turnstile	0.48	C	0.40	B
N94.X3	1 HET plus 2 HEET (north)	0.80	B	0.36	B
P9	Stairway to Platform	0.44	A	0.36	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.26	A	0.41	A
<p><b>Notes</b> : v/c = volume/capacity ratio; LOS = Level of Service;            HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  <b>Source</b>: Louis Berger Group, Inc. (2003)</p>					

<b>Table F-7 2009 Future With the Proposed Action Conditions – Weekday Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.13	A	0.37	B
N92.X1	HET	0.16	A	0.01	A
N92.X2	HET	0.85	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.43	A	0.51	B
P18A/B & P19A/B	Stairway to Platform	0.48	B	0.27	A
N92	Turnstile (north)	0.37	B	0.50	C
N92.X3	HET	0.23	B	0.02	A
N92.X4	HET	0.43	C	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.40	A
P11	Stairway to Platform	0.69	B	1.95	F
P12	Stairway to Platform	0.03	A	0.48	B
P13	Stairway to Platform	0.41	A	0.31	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.18	A	0.09	A
P16	Stairway to Platform	0.44	A	0.20	A
P17	Stairway to Platform	0.80	C	1.16	D
<b>Church Street Passageway</b>					
N94	Turnstile	0.58	C	0.53	C
N94.X3	1 HET plus 2 HEET (north)	0.37	B	0.35	B
N92	Turnstile (south)	0.13	A	0.37	B
N92.X1	HET (south)	0.16	A	0.01	A
N92.X2	HET (south)	0.85	E	0.15	A
N92	Turnstile (north)	0.37	B	0.50	C



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N92.X3	HET (north)	0.23	B	0.02	A
N92.X4	HET (north)	0.43	C	0.07	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.40	B	0.38	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.27	B	0.05	A
P2 A/B	Stairway to Street	0.67	B	0.98	C
S3	Stairway to Street	0.95	C	1.35	E
<b>Church Street Passageway</b>					
S2	Stairway to Street	0.40	A	0.62	B
P4/S5	Stairway to Street	0.50	B	0.58	B
P5/S6	Stairway to Street	0.60	B	0.63	B
S7 ML1A/B	Stairway to Street	0.60	B	0.92	C
S8 M1A/B	Stairway to Street	0.73	C	0.71	C
S10/M3	Stairway to Street	0.65	B	0.81	C
S9/M2	Stairway to Street	0.59	B	0.93	C
S11 M4A/B	Stairway to Street	0.12	A	0.29	A
S12 M5A/B	Stairway to Street	0.40	A	0.17	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.07	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.14	A
S19 M13 A/B	Stairway to Street	0.94	C	0.72	C
S18/M12	Stairway to Street	0.26	A	0.26	A
S20 M14A/B	Stairway to Street	1.24	D	0.92	C
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.68	B	0.74	C
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.32	B	0.07	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.44	A	0.54	B

**Appendix F. Transit and Pedestrians**

P11/P13	Stairway to Platform	0.31	A	0.41	A
P9 A/B	Stairway to Mezzanine	0.57	B	0.68	B
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P9	Street Stairs	0.99	C	0.22	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.79	C	0.18	A
P17	Street Stairs	0.25	A	0.57	B
P2	Escalator up to street (north)	0.11	A	0.01	A
P18	Escalator down from street (north)	0.07	A	0.47	C
P4	Escalator up to street (northeast corner)	0.24	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P3	Escalator up to street (south)	0.21	B	0.01	A
P19	Escalator down from street (south)	0.02	A	0.35	B
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P5	Escalator up to street (southeast corner)	0.24	B	0.05	A
P22	Escalator down from street (southeast corner)	0.07	A	0.11	A
P15	Escalator up from platform to World of Golf	0.55	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.33	B
C25	Escalator up (express)	0.26	B	0.02	A
C26	Escalator down (express)	0.26	B	0.02	A
S5	Walkway (southeast exit to John)	0.23	A	0.19	A
<b>Concourse Level</b>					
C11 and C27	Turnstile	0.52	C	0.52	C
C1	A/C Platform Stairs	0.56	B	0.43	A
C2	A/C Platform Stairs	0.84	C	0.65	B
C3	A/C Platform Stairs	1.12	D	0.87	C
C4	A/C Platform Stairs	1.12	D	0.87	C
C5	A/C Platform Stairs	1.15	D	0.89	C
C8&C20	Stair to platform (north)	0.75	C	0.17	A
C9&C21	Stair to platform (south)	0.48	B	0.35	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.39	A	0.25	A

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C19&C24	Stair from underpass to platform	0.16	A	0.61	B
C8	Escalator up to platform (north)	0.59	C	0.04	A
C20	Escalator down from platform (north)	0.10	A	0.20	A
C9	Escalator up to platform (south)	0.52	C	0.52	C
C21	Escalator down from platform (south)	0.30	B	0.07	A
C12	Escalator up	0.15	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C25	Escalator up (express)	0.26	B	0.02	A
C26	Escalator down (express)	0.26	B	0.02	A
C15	Escalator up from street to platform	0.29	B	0.22	B
C23	Escalator down from platform to street	0.65	D	0.36	B
C19	Escalator up from underpass to platform	0.20	A	0.17	A
C24	Escalator down from platform to underpass	0.12	A	0.64	D
C13 and C28	Dey Street Concourse (east)	0.42	A	0.40	A
C14 and C29	Dey Street Concourse (west)	0.58	B	0.48	B
C18 and C31	Central underpass	0.70	C	0.27	A
Platform Level					
P6 and P13	Turnstile	0.55	C	0.62	D
P8	HEETs SB Lex platform (NW corner)	0.66	D	0.14	A
<b>4/5 Fulton Street Station</b>					
<b>Platform Level</b>					
P10	HEETs SB Lex platform (SW corner)	0.16	A	0.14	A
P14 and P26	Turnstile	0.40	C	0.20	A
P9	Street Stairs	0.99	C	0.22	A
P11	Street Stairs	0.09	A	0.08	A
P16	Street Stairs	0.79	C	0.18	A
P17	Street Stairs	0.25	A	0.57	B
P2&P18	Stair to street (north)	0.02	A	0.04	A
P3&P19	Stair to street (south)	0.02	A	0.03	A
P15&P20	Stair from platform to World of Golf	0.12	A	0.07	A
C12&C22	Stair	0.02	A	0.01	A
C15&C23	Stair from street to platform	0.34	A	0.21	A
C19&C24	Stair from underpass to platform	0.16	A	0.53	B
P2	Escalator up to street (north)	0.11	A	0.01	A

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P18	Escalator down from street (north)	0.07	A	0.47	C
P3	Escalator up to street (south)	0.21	B	0.01	A
P19	Escalator down from street (south)	0.02	A	0.35	B
P4	Escalator up to street (northeast corner)	0.24	B	0.07	A
P21	Escalator down from street (northeast corner)	0.09	A	0.11	A
P5	Escalator up to street (southeast corner)	0.24	B	0.05	A
P22	Escalator down from street (southeast corner)	0.07	A	0.11	A
P15	Escalator up from platform to World of Golf	0.55	C	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.33	B
C12	Escalator up	0.15	A	0.03	A
C22	Escalator down	0.04	A	0.11	A
C15	Escalator up from street to platform	0.29	B	0.22	B
C23	Escalator down from platform to street	0.65	D	0.36	B
C19	Escalator up from underpass to platform	0.20	A	0.17	A
C24	Escalator down from platform to underpass	0.12	A	0.64	D
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile (north)	0.06	A	0.04	A
S6/P6	Stairway from platform to street	0.02	A	0.05	A
S8/P8	Stairway from platform to street	0.15	A	0.09	A
	Stairway next to escalator	0.05	A	0.36	A
	Stairway from platform to Concourse	0.12	A	0.10	A
	Stairway from platform to Concourse	0.17	A	0.14	A
	4-Foot wide Escalator (UP)	0.33	B	0.04	A
A52	Turnstile	0.15	A	0.14	A
<b>N/R Cortlandt Street Station</b>					
A52A	HEET	0.25	B	0.19	A
A52B	HEET	0.34	B	0.29	B
	Stairway to Street	0.04	A	0.11	A
	Stairway to Street	0.08	A	0.20	A
SA	Stairway to Concourse	0.12	A	0.10	A
SB1	Stairway to Concourse	0.16	A	0.14	A
SB2	Stairway to Concourse	0.19	A	0.14	A
A	Stairway to PATH	0.44	A	0.30	A
B	Stairway to PATH	0.44	A	0.30	A

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	Escalator from Concourse to PATH (UP)	0.53	C	0.06	A
	Escalator from Concourse to PATH (DN)	0.10	A	0.38	B
A51	Turnstile	0.13	A	0.13	A
S4/P4	Stairway to Street	0.19	A	0.20	A
P2	Stairway to Street/1 Liberty Plaza	0.13	A	0.13	A
	Stairways to Street	0.12	A	0.12	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.07	A	0.07	A
A53	Turnstile	0.11	A	0.15	A
S1/S3, P1A/B	Stairway to Street	0.32	A	0.44	A
<b>E World Trade Center</b>					
N94	Turnstile	0.58	C	0.53	C
N94.X3	1 HET plus 2 HEET (north)	0.37	B	0.35	B
P9	Stairway to Platform	0.43	A	0.35	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.25	A	0.40	A
<p><b>Notes</b> : v/c = volume/capacity ratio; LOS = Level of Service;            HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  <b>Source</b>: Louis Berger Group, Inc., 2003</p>					

<b>Table F-8 2015 Future With the Proposed Action Conditions – Weekday Subway Pedestrian Analysis</b>					
<b>Element</b>		<b>AM Peak</b>		<b>PM Peak</b>	
		<b>v/c</b>	<b>LOS</b>	<b>v/c</b>	<b>LOS</b>
<b>A/C Chambers Street Station</b>					
N92	Turnstile (south)	0.17	A	0.42	C
N92.X1	HET	0.17	A	0.01	A
N92.X2	HET	0.88	E	0.15	A
P8 A/B	Transfer Stairway (to 2/3)	0.46	B	0.55	B
P18A/B & P19A/B	Stairway to Platform	0.52	B	0.31	A
N92	Turnstile (north)	0.37	B	0.60	D
N92.X3	HET	0.38	B	0.02	A
N92.X4	HET	0.73	D	0.07	A
P10 A/B	Stairway to Platform	0.06	A	0.41	A
P11	Stairway to Platform	0.82	C	2.31	F
P12	Stairway to Platform	0.04	A	0.55	B
P13	Stairway to Platform	0.49	B	0.34	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
P14	Stairway to Platform	0.22	A	0.08	A
P15	Stairway to Platform	0.19	A	0.10	A
P16	Stairway to Platform	0.45	A	0.21	A
P17	Stairway to Platform	0.82	C	1.20	D
<b>Church Street Passageway</b>					
N94	Turnstile	0.73	D	0.70	D
N94.X3	1 HET plus 2 HEET (north)	0.38	B	0.36	B
N92	Turnstile (south)	0.17	A	0.42	C
N92.X1	HET (south)	0.17	A	0.01	A
N92.X2	HET (south)	0.88	E	0.15	A
N92	Turnstile (north)	0.37	B	0.60	D

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N92.X3	HET (north)	0.38	B	0.02	A
N92.X4	HET (north)	0.73	D	0.07	A
N92.X5	HET	0.14	A	0.05	A
N92.X6	HET	0.05	A	0.01	A
N91	Turnstile	0.41	C	0.39	B
N91.X1	1 HEET plus 1 HET	0.19	A	0.03	A
N91.X2	HEET	0.28	B	0.06	A
P2 A/B	Stairway to Street	0.75	C	1.08	D
S3	Stairway to Street	1.04	D	1.46	E
<b>Church Street Passageway</b>					
S2	Stairway to Street	0.47	B	0.71	C
P4/S5	Stairway to Street	0.53	B	0.60	B
P5/S6	Stairway to Street	0.62	B	0.65	B
S7 ML1A/B	Stairway to Street	0.61	B	0.95	C
S8 M1A/B	Stairway to Street	0.76	C	0.73	C
S10/M3	Stairway to Street	0.67	B	0.84	C
S9/M2	Stairway to Street	0.61	B	0.97	C
S11 M4A/B	Stairway to Street	0.12	A	0.31	A
S12 M5A/B	Stairway to Street	0.42	A	0.18	A
S13 M6 A/B	Stairway to Street	0.05	A	0.06	A
S15 M8A/B	Stairway to Street	0.08	A	0.05	A
S17 M11A/B	Stairway to Street	0.18	A	0.15	A
S19 M13 A/B	Stairway to Street	0.96	C	0.73	C
S18/M12	Stairway to Street	0.27	A	0.27	A
S20 M14A/B	Stairway to Street	1.28	D	0.95	C
<b>2/3 Park Place Station</b>					
R115	3 Turnstiles, 1 HET and 2 HEET	0.15	A	0.16	A
S1/M1	Stairway to Street	0.70	C	0.76	C
P1/P3/P5	Stairway to Platform	0.02	A	0.01	A
P2/P6/P4A/B	Stairway to Platform	0.01	A	0.01	A
E301	4-Foot Wide Escalator from Platform (UP)	0.33	B	0.07	A
E302	4-Foot Wide Escalator to Platform (DOWN)	0.03	A	0.33	B
P10/P12	Stairway to Platform	0.47	B	0.58	B
P11/P13	Stairway to Platform	0.34	A	0.44	A

**Appendix F. Transit and Pedestrians**

P9 A/B	Stairway to Mezzanine	0.61	B	0.72	C
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P9	Street Stairs	1.14	D	0.25	A
P11	Street Stairs	0.11	A	0.09	A
P16	Street Stairs	0.92	C	0.21	A
P17	Street Stairs	0.29	A	0.66	B
P2	Escalator up to street (north)	0.12	A	0.01	A
P18	Escalator down from street (north)	0.08	A	0.54	C
P4	Escalator up to street (northeast corner)	0.28	B	0.08	A
P21	Escalator down from street (northeast corner)	0.11	A	0.13	A
P3	Escalator up to street (south)	0.24	B	0.01	A
P19	Escalator down from street (south)	0.03	A	0.41	C
P5	Escalator up to street (southeast corner)	0.28	B	0.06	A
<b>4/5 Fulton Street Station</b>					
<b>Street Level</b>					
P22	Escalator down from street (southeast corner)	0.08	A	0.13	A
P15	Escalator up from platform to World of Golf	0.63	D	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.38	B
C25	Escalator up (express)	0.30	B	0.03	A
C26	Escalator down (express)	0.30	B	0.03	A
S5	Walkway (southeast exit to John)	0.27	A	0.17	A
<b>Concourse Level</b>					
C11 and C27	Turnstile	0.45	C	0.45	C
C1	A/C Platform Stairs	0.65	B	0.50	B
C2	A/C Platform Stairs	0.97	C	0.75	C
C3	A/C Platform Stairs	1.30	D	1.00	D
C4	A/C Platform Stairs	1.30	D	1.00	D
C5	A/C Platform Stairs	1.33	D	1.03	D
C8&C20	Stair to platform (north)	0.87	C	0.19	A
C9&C21	Stair to platform (south)	0.49	B	0.40	A
C12&C22	Stair	0.02	A	0.02	A
C15&C23	Stair from street to platform	0.46	B	0.25	A
C19&C24	Stair from underpass to platform	0.19	A	0.70	C



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C8	Escalator up to platform (north)	0.69	D	0.05	A
C20	Escalator down from platform (north)	0.12	A	0.23	B
C9	Escalator up to platform (south)	0.60	D	0.60	D
C21	Escalator down from platform (south)	0.35	B	0.09	A
C12	Escalator up	0.18	A	0.04	A
C22	Escalator down	0.05	A	0.13	A
C25	Escalator up (express)	0.30	B	0.03	A
C26	Escalator down (express)	0.30	B	0.03	A
C15	Escalator up from street to platform	0.34	B	0.26	B
C23	Escalator down from platform to street	0.75	D	0.42	C
C19	Escalator up from underpass to platform	0.23	B	0.20	A
C24	Escalator down from platform to underpass	0.14	A	0.75	D
C13 and C28	Dey Street Concourse (east)	0.49	B	0.46	B
C14 and C29	Dey Street Concourse (west)	0.67	B	0.56	B
C18 and C31	Central underpass	0.82	C	0.32	A
<b>Platform Level</b>					
P6 and P13	Turnstile	0.63	D	0.72	D
P8	HEETs SB Lex platform (NW corner)	0.76	D	0.17	A
P10	HEETs SB Lex platform (SW corner)	0.19	A	0.16	A
<b>4/5 Fulton Street Station</b>					
<b>Platform Level</b>					
P14 and P26	Turnstile	0.47	C	0.20	B
P9	Street Stairs	1.14	D	0.25	A
P11	Street Stairs	0.11	A	0.09	A
P16	Street Stairs	0.92	C	0.21	A
P17	Street Stairs	0.29	A	0.66	B
P2&P18	Stair to street (north)	0.03	A	0.05	A
P3&P19	Stair to street (south)	0.02	A	0.04	A
P15&P20	Stair from platform to World of Golf	0.14	A	0.09	A
C12&C22	Stair	0.02	A	0.02	A
C15&C23	Stair from street to platform	0.46	B	0.25	A
C19&C24	Stair from underpass to platform	0.19	A	0.70	C
P2	Escalator up to street (north)	0.12	A	0.01	A
P18	Escalator down from street (north)	0.08	A	0.54	C

**Appendix F. Transit and Pedestrians**

P3	Escalator up to street (south)	0.24	B	0.01	A
P19	Escalator down from street (south)	0.03	A	0.41	C
P4	Escalator up to street (northeast corner)	0.28	B	0.08	A
P21	Escalator down from street (northeast corner)	0.11	A	0.13	A
P5	Escalator up to street (southeast corner)	0.28	B	0.06	A
P22	Escalator down from street (southeast corner)	0.08	A	0.13	A
P15	Escalator up from platform to World of Golf	0.63	D	0.01	A
P20	Escalator down from World of Golf to platform	0.01	A	0.38	B
C12	Escalator up	0.18	A	0.04	A
C22	Escalator down	0.05	A	0.13	A
C15	Escalator up from street to platform	0.34	B	0.26	B
C23	Escalator down from platform to street	0.75	D	0.42	C
C19	Escalator up from underpass to platform	0.23	B	0.20	A
C24	Escalator down from platform to underpass	0.14	A	0.75	D
<b>N/R Cortlandt Street Station</b>					
A50	Turnstile	0.16	A	0.12	A
S6/P6	Stairway from platform to street	0.03	A	0.16	A
S8/P8	Stairway from platform to street	0.40	A	0.31	A
	Stairway next to Millennium	0.36	A	0.36	A
	Stairway from platform to Concourse	0.17	A	0.18	A
	Stairway from platform to Concourse	0.26	A	0.27	A
	Millennium 4-Foot wide Escalator (UP)	0.04	A	0.04	A
A52	Turnstile	0.23	B	0.26	B
A52A	HEET	0.35	B	0.36	B
<b>N/R Cortlandt Street Station</b>					
	Stairway to Street	0.05	A	0.11	A
	Stairway to Street	0.08	A	0.22	A
SA	Stairway to Concourse	0.17	A	0.18	A
SB1	Stairway to Concourse	0.24	A	0.27	A
SB2	Stairway to Concourse	0.26	A	0.27	A
A	Stairway to PATH	0.71	C	0.57	B
B	Stairway to PATH	0.71	C	0.57	B
	Escalator from Concourse to PATH (UP)	0.63	D	0.09	A
	Escalator from Concourse to PATH (DOWN)	0.13	A	0.47	C

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A51	Turnstile	0.14	A	0.14	A
S4/P4	Stairway to Street	0.24	A	0.40	A
P2	Stairway to Street/1 Liberty Plaza	0.14	A	0.05	A
	Stairways to Street	0.13	A	0.04	A
1 Liberty Plaza	High Revolving Exit and Entrance Gate	0.08	A	0.03	A
A53	Turnstile	0.19	A	0.21	B
S1/S3, P1A/B	Stairway to Street	0.57	B	0.63	B
<b>E World Trade Center</b>					
N94	Turnstile	0.73	D	0.70	D
N94.X3	1 HET plus 2 HEET (north)	0.38	B	0.36	B
P9	Stairway to Platform	0.44	A	0.36	A
P8	Stairway to Platform	0.17	A	0.18	A
P7 A/B	Stairway to Platform	0.22	A	0.21	A
P10 A/B	Stairway to Platform	0.26	A	0.41	A
<p><b>Notes :</b> v/c = volume/capacity ratio; LOS = Level of Service;            HEET = High Entrance/Exit Turnstile; HET = High Revolving Exit Gate  <b>Source:</b> Louis Berger Group, Inc., Inc., 2003</p>					

<b>Table F-9 Pedestrian Sidewalk Analysis (Weekday AM, MD and PM)</b>							
<b>Platoon Level of Service Results</b>							
<b>Location</b>		<b>AM</b>		<b>MD</b>		<b>PM</b>	
		<b>Sidewalk</b>					
		<b>p/m/f</b>	<b>LOS</b>	<b>p/m/f</b>	<b>LOS</b>	<b>p/m/f</b>	<b>LOS</b>
<b>2001 Pre-September 11</b>							
Church Street	Between Fulton and Dey Street (west)	5	B	5	B	5	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	7	B	6	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	5	B	7	B	7	B
Vesey Street	Between Church and Greenwich Street (south)	6	B	8	C	8	C
<b>2003 Current Conditions Scenario</b>							
Church	Between Fulton and Dey Street (west)	4	B	5	B	5	B
<b>2009 Pre-September 11 Scenario</b>							
Church Street	Between Fulton and Dey Street (west)	7	B	6	B	7	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	7	B	6	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	5	B	7	B	7	B
Vesey Street	Between Church and Greenwich Street (south)	6	B	8	C	9	C
<b>2015 Pre-September 11 Scenario</b>							
Church Street	Between Fulton and Dey Street (west)	7	B	6	B	7	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	7	B	6	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	5	B	7	B	7	B

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Vesey Street	Between Church and Greenwich Street (south)	6	B	9	C	9	C
<b>2009 Future Without the Proposed Action</b>							
Church Street	Between Fulton and Dey Street (west)	6	B	6	B	6	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	6	B	6	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	8	C	7	B	7	B
Vesey Street	Between Church and Greenwich Street (south)	6	B	6	B	6	B
<b>2015 Future Without the Proposed Action</b>							
Church Street	Between Fulton and Dey Street (west)	6	B	6	B	6	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	7	B	6	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	8	C	7	B	7	B
Vesey Street	Between Church and Greenwich Street (south)	6	B	6	B	6	B
<b>2009 Future With the Proposed Action</b>							
Church Street	Between Fulton and Dey Street (west)	7	B	7	B	7	B
Greenwich Street	Between Fulton and Cortland Street (east)	6	B	5	B	6	B
Greenwich Street	Between Fulton and Cortland Street (west)	7	B	7	B	7	B
Vesey Street	Between Church and Greenwich Street (north)	9	C	10	C	9	C
Vesey Street	Between Church and Greenwich Street (south)	8	C	8	C	9	C
<b>2015 Future With the Proposed Action</b>							
Church Street	Between Fulton and Dey Street (west)	8	C	9	C	8	C
Greenwich Street	Between Fulton and Cortland Street (east)	7	B	5	B	6	B

**Appendix F. Transit and Pedestrians**

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Greenwich Street	Between Fulton and Cortland Street (west)	9	C	7	B	9	C
Vesey Street	Between Church and Greenwich Street (north)	9	C	9	C	9	C
Vesey Street	Between Church and Greenwich Street (south)	9	C	10	C	9	C
<b>Note:</b> p/m/f = Pedestrians/Minute/Foot							

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<b>Table F-10 Pedestrian Walkway Analysis (Weekday AM, MD and PM)</b>													
<b>Level of Service Results</b>													
<b>Location No.</b>	<b>Intersection</b>	<b>AM</b>				<b>MD</b>				<b>PM</b>			
		<b>Walkway</b>				<b>Walkway</b>				<b>Walkway</b>			
		<b>North</b>		<b>South</b>		<b>North</b>		<b>South</b>		<b>North</b>		<b>South</b>	
		<b>Sq.ft /ped</b>	<b>LOS</b>	<b>Sq.ft /ped</b>	<b>LOS</b>	<b>Sq.ft /ped</b>	<b>LOS</b>	<b>Sq.ft /ped</b>	<b>LOS</b>	<b>Sq.ft /ped</b>	<b>LOS</b>	<b>Sq.ft /ped</b>	<b>LOS</b>
<b>2001 Pre-September 11</b>													
19	South Overpass - Route 9A	-	-	0.20	A	-	-	0.14	A	-	-	0.20	A
20	North Overpass - Route 9A	-	-	0.47	B	-	-	0.31	A	-	-	0.45	B
<b>2003 Current Conditions</b>													
19	South Overpass - Route 9A	-	-	0.20	A	-	-	0.14	A	-	-	0.20	A
<b>2009 Pre-September 11</b>													
19	South Overpass - Route 9A	-	-	0.21	A	-	-	0.15	A	-	-	0.21	A
20	North Overpass - Route 9A	-	-	0.49	B	-	-	0.32	A	-	-	0.47	B
<b>2015 Pre-September 11</b>													
19	South Overpass - Route 9A	-	-	0.21	A	-	-	0.15	A	-	-	0.22	A
20	North Overpass - Route 9A	-	-	0.51	B	-	-	0.33	A	-	-	0.49	B
<b>2009 Future Without the Proposed Action</b>													
21	Underpass - Route 9A	0.38	A	-	-	0.05	A	-	-	0.26	A	-	-
<b>2015 Future Without the Proposed Action</b>													
21	Underpass - Route 9A	0.40	A	-	-	0.06	A	-	-	0.28	A	-	-

**Appendix F. Transit and Pedestrians**

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2009 Future With the Proposed Action													
21	Underpass - Route 9A	0.38	A	-	-	0.05	A	-	-	0.26	A	-	-
2015 Future With the Proposed Action													
21	Underpass - Route 9A	0.40	A	-	-	0.06	A	-	-	0.28	A	-	-

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