Review of the G Line: Appendices

Appendix A: Annual System Entries by Station

2012 Station Ridership Rank	Station	2003	2010	2011	2012	2003-2012 % Change	2011-2012 Riders Change	2011-2012 % Change
70	Court Sq (E,G,M,7)*	6,669,877	7,249,807	6,334,869	5,340,581	-19.93%	-994,288	-15.70%
408	21 St (G)	241,231	319,984	364,597	469,173	94.49%	104,576	28.68%
182	Greenpoint Av (G)	2,301,183	2,200,679	2,490,286	2,521,422	9.57%	31,136	1.25%
184	Nassau Av (G)	2,155,562	2,126,804	2,396,169	2,479,649	15.03%	83,480	3.48%
114	Lorimer St (L)/Metropolitan Av (G)	3,213,748	4,394,498	4,479,022	4,643,512	44.49%	164,490	3.67%
356	Broadw ay (G)	955,062	941,243	995,856	1,023,397	7.16%	27,541	2.77%
395	Flushing Av (G)	603,868	553,739	616,083	655,317	8.52%	39,234	6.37%
302	Myrtle-Willoughby Avs (G)	1,057,088	1,223,378	1,383,197	1,440,313	36.25%	57,116	4.13%
220	Bedford-Nostrand Avs (G)	1,143,237	1,895,163	2,012,606	2,138,852	87.09%	126,246	6.27%
313	Classon Av (G)	937,288	1,207,680	1,308,232	1,355,886	44.66%	47,654	3.64%
280	Clinton-Washington Avs (G)	1,329,916	1,517,296	1,628,558	1,637,463	23.13%	8,905	0.55%
326	Fulton St (G)	710,085	1,098,862	1,179,034	1,280,063	80.27%	101,029	8.57%
156	Hoyt-Schermerhorn Sts (A,C,G)	2,657,635	2,923,091	2,968,639	2,990,881	12.54%	22,242	0.75%
136	Bergen St (F,G)	2,839,903	3,296,466	3,452,452	3,529,174	24.27%	76,722	2.22%
115	Carroll St (F,G)	2,730,529	3,025,719	3,598,477	3,961,111	45.07%	362,634	10.08%
-	Smith-9 Sts (F,G) **	1,129,230	1,501,360	577,571	-	-	-	-
113	4 Av (F,G)/9 St (R) ***	2,798,588	3,672,622	4,020,665	4,300,400	53.66%	279,735	6.96%
127	7 Av (F,G) ** ***	3,328,654	3,397,045	3,934,545	3,699,471	11.14%	-235,074	-5.97%
248	15 St-Prospect Park (F,G) ** ***	1,722,748	1,922,348	1,449,241	1,852,346	7.52%	403,105	27.81%
283	Fort Hamilton Pkw y (F,G) ** ***	1,229,338	1,509,737	1,292,131	1,538,039	25.11%	245,908	19.03%
154	Church Av (F,G) ** ***	2,859,021	2,968,167	3,271,729	3,081,142	7.77%	-190,587	-5.83%
Average: 296.6	G Only Stations	11,434,520	13,084,828	14,374,618	15,001,535	31.20%	626,917	4.36%
	All G Stations	42,613,791	48,945,688	49,753,959	49,938,192	17.19%	184,233	0.37%
Average: 224.1	All G Stations except Smith/9 Sts	41,484,561	47,444,328	49,176,388	49,938,192	20.38%	761,804	1.55%
Range: 1-418	System Wide	1,413,177,943	1,604,198,017	1,640,434,672	1,654,582,265	17.08%	14,147,593	0.86%

* The free out of station transfer between the EGM and the 7 was made an in-station Metrocard transfer in 2011.

The 7 platform was closed for a portion of 2012 for construction.

** Smith-9 Sts was closed as part of the Culver Viaduct rehabilitation from June, 2011 through 2012. Bypasses also affected ridership at other noted stations.

*** The Church Avextension began in 2009

Appendix B: Selected Performance Indicators

Key Passenger Environment Survey Results, 2nd Half 2012

				9	Syster	n-wide	Diff (%Nor	ne & Light)
Station Results			Surveyed Before Morning Peak	Surveyed After Morning Peak	Surveyed Before Morning Peak	Surveyed After Morning Peak	Surveyed Before Morning Peak	Surveyed After Morning Peak
Litter Condition in Stations		None	3%	1%	1%	3%		
Presence of Litter	Includes	Light	79%	77%	76%	59%	5%	17%
	trackbed	Moderate	18%	20%	22%	35%		
Includes all components of station: mezzanine, passageway, platform, stairways and trackbed	component	Heavy	0%	1%	1%	3%		
paceageway, platerin, clairwaye and racheed		None	32%	31%	42%	24%		•••
	Measured	Light	59%	45%	46%	55%	3%	-3%
	without trackbed	Moderate	9%	24%	11%	19%		
	component	Heavy	0%	0%	1%	2%		
Floor and Seat Cleanliness		None	62%	51%	51%	46%	40/	00/
Conditions in Stations		Light	26%	39%	36%	38%	1%	6%
Degree of Dirtiness		Moderate	12%	10%	12%	14%		
		Heavy	0%	0%	1%	2%		
Graffiti Conditions in Stations		None	68%		84%		0%	
Presence of Graffiti		Light	32%		16%		078	
		Moderate		%	0'			
		Heavy	0	%	0	%		
Subway Car Bagulta				E	System-wide		Diff (%None & Light)	
Subway Car Results			at Terminal	in Service	at Terminal	in Service	at Terminal	in Service
Litter Condition in Cars		None	92%	75%	96%	65%	0%	
Presence of Litter	Includes trackbed	Light	7%	19%	3%	27%	070	2%
	component	Moderate	0%	0%	0%	1%		
	component	Heavy	1%	6%	1%	7%		
Cleanliness of Car Floors and Seats		None	97%	92%	98%	87%	0%	3%
Degree of Dirtiness		Light	2%	3%	1%	5%		
-		Moderate	0%	0%	0%	1%		
		Heavy	1%	5%	1%	7%		
No Interior Graffiti			97	%	99			%
No Scratchitied Windows			93	%	93	3%	0%	
Climate Control Conditions in Cars			100	ገ%	91	%	Q	%
% of cars with average interior temp. b	100	0.70	31	70	3	/0		

Note: Difference greater than ±6% is considered statistically significant

Car Class	Years Built	Car Age	Oct. 2012	Nov. 2012	Dec. 2012	Jan. 2013	Feb. 2013	Mar. 2013
R68	1986-89	24-27	130,661	130,081	129,797	129,654	136,557	140,413
R68A	1986-89	24-27	144,977	138,300	130,990	123,944	121,508	118,047
System	1964-2010	3-49	164,538	163,515	162,138	162,993	162,812	163,739

Mean Distance Between Failure (Miles) for Car Classes in G Service

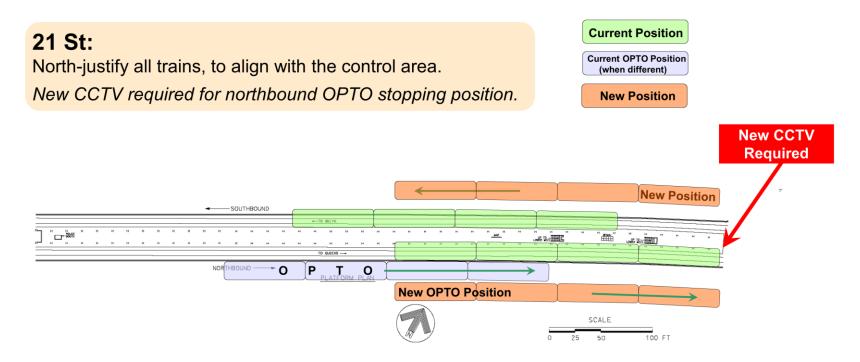
Note: Numbers reported are 12-month rolling averages

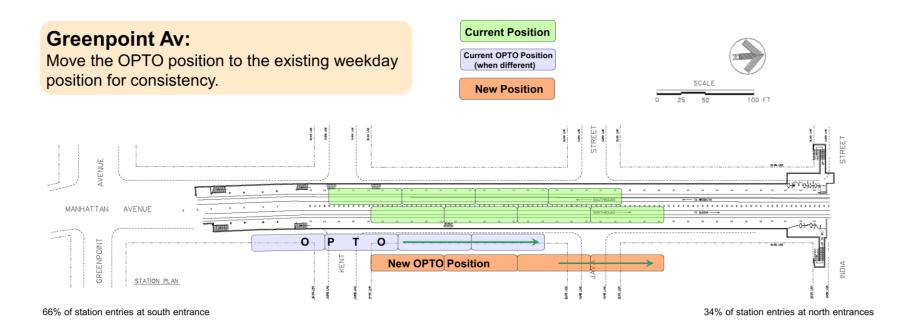
Appendix C: Stopping Position and Bench Location Improvements

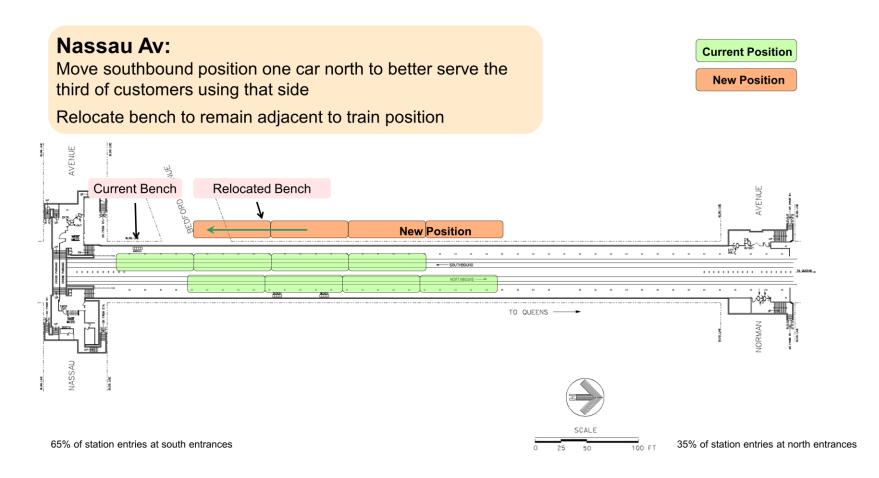
Proposed Bench Relocations:

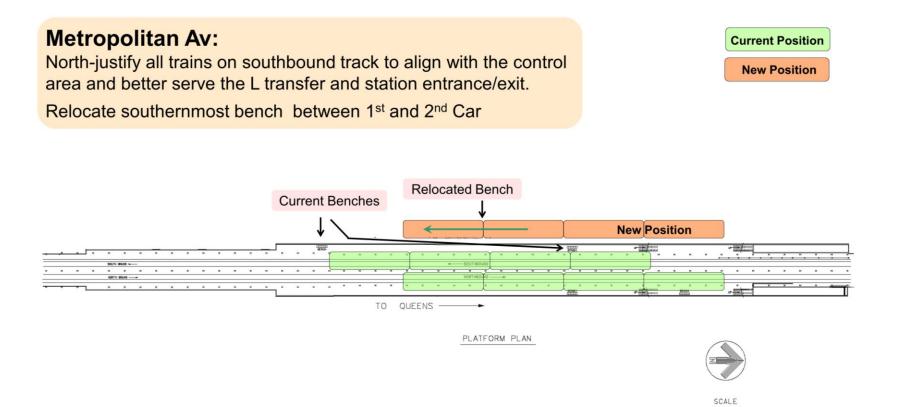
Station	Number of Benches	Number to Move	Rationale and Directions for Move
Nassau Av	1 sb, 2 nb	1	Currently, the bench on the southbound platform is on the southernmost part of the platform beyond the future stopping position. Relocate the bench between the 1st and 2nd car at the new train stopping location.
Metropolitan Av	2 nb, 2 sb	1	The southernmost bench on the southbound platform is just beyond the 1st car of the current stopping location and far beyond the recommended train position. Relocate the bench between the 1st and 2nd car of the new train stopping location.
Bedford-Nostrand Avs	edford-Nostrand Avs2 nb, 2 sb2because they are at the front of the northernmost cars. Move middle of the 2nd car southbound and the middle of the 3rd of		The two northernmost benches potentially exacerbate end-loading because they are at the front of the northernmost cars. Move to the middle of the 2nd car southbound and the middle of the 3rd car northbound about 200 feet back. This also decreases bench distance for those entering at Bedford Avenue
Bergen St	3 nb, 3 sb	1	Currently there are 3 benches located toward the northern end of the southbound platform, and there are no benches toward the middle or the southern end of the platform. The middle bench should be relocated between the 1 st and 2 nd car of the ③ . This will also better serve ③ riders, as benches only exist adjacent to the back quarter of each southbound train, despite entrances at both ends of the platform.
Carroll St	2 nb, 1 sb	1	The bench on the southbound platform should be centered between the 2nd and 3rd car of the G to better serve both F and G riders on the northern half of the platform.

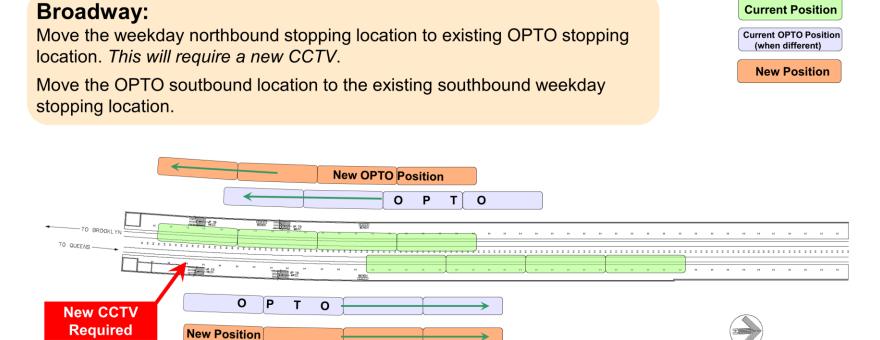
Diagrams of Bench and Stopping Position Changes











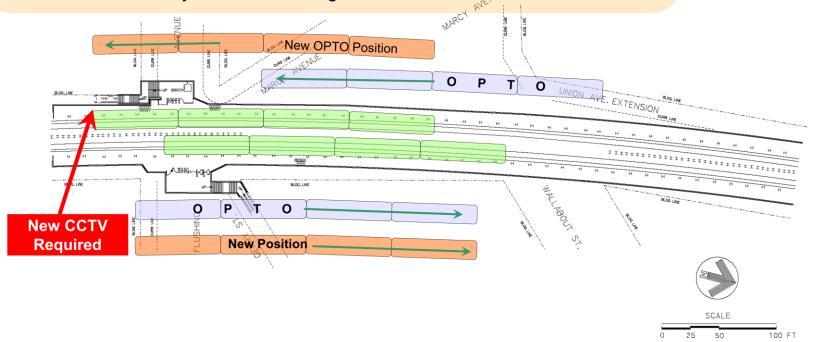


Flushing Av:

Move the southbound OPTO stopping location to the current weekday stopping location to align with the station entrance/exit.

This will require a new CCTV.

Move the northbound weekday stopping position to the current OPTO stopping position for consistency and to better align with the station entrance/exit.

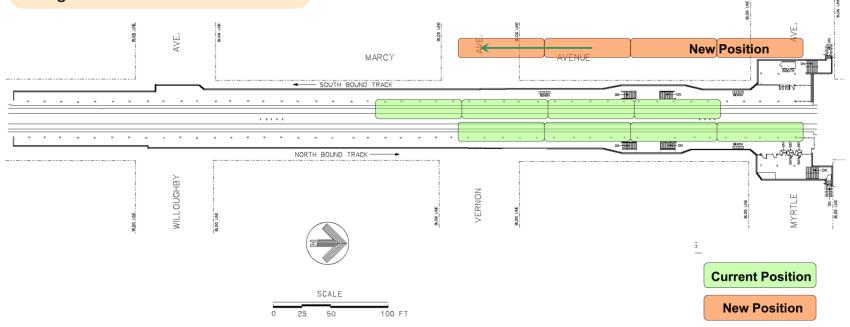


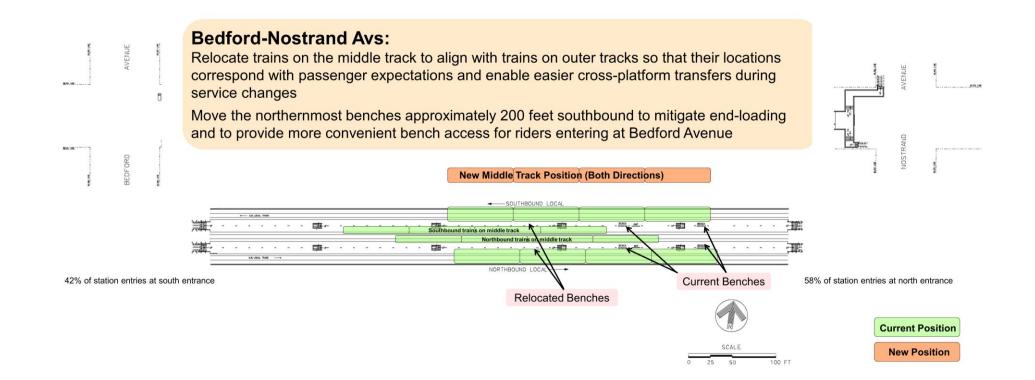
Current Position

Current OPTO Position (when different)

New Position

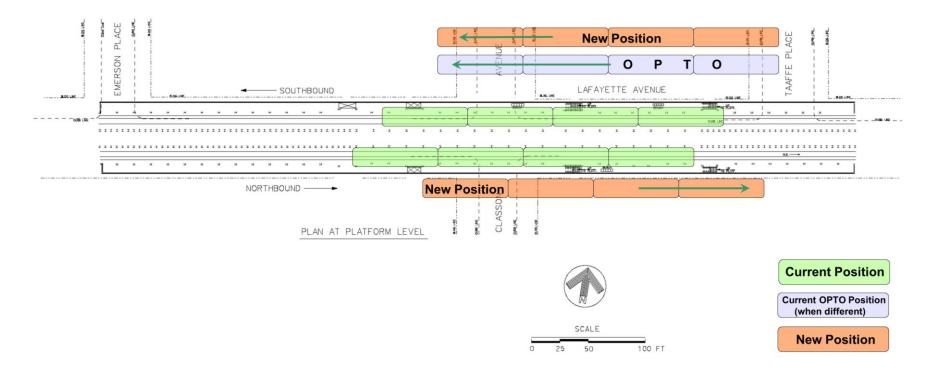
Myrtle-Willoughby Avs: North-justify all southbound trains to align with the entrance/exit

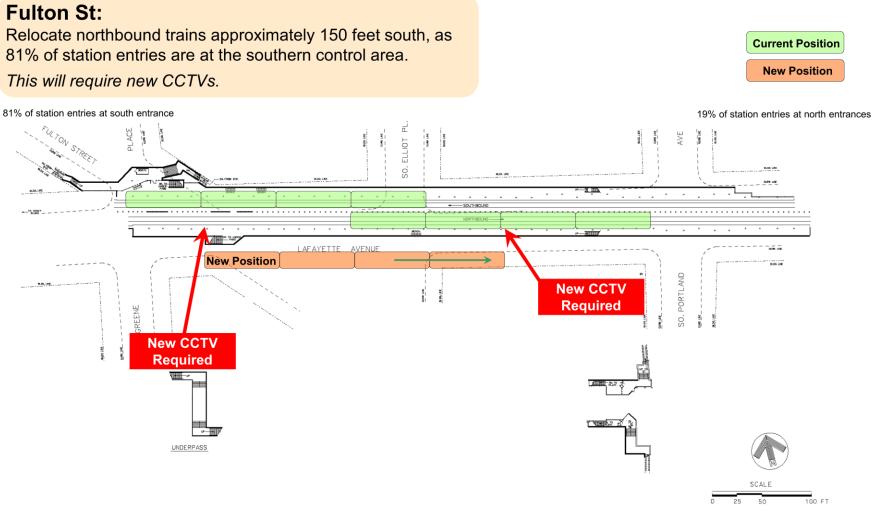




Classon Av:

Move the southbound weekday stopping position to the southbound OPTO stopping position. Move all northbound positions northward. The current stopping positions potentially exacerbate end-loading. Moving the stopping position will better distribute loads.

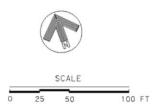


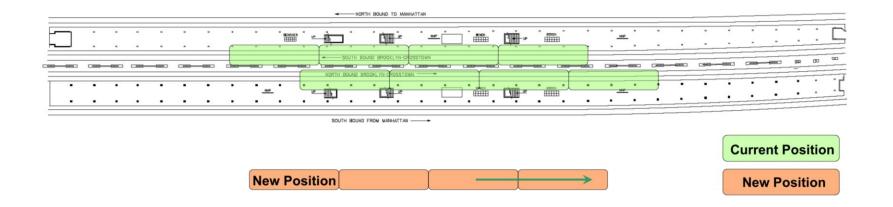


Appendix C: Stopping Position and Bench Location Improvements - 11

Hoyt-Schermerhorn Sts:

Relocate northbound trains approximately 40 feet south to position more train doors at the foot of the southernmost stair to minimize dwell time and encourage more even loading. The current northbound stopping position places only one door at the foot of the southernmost stair. Moving the train south will permit boarding through multiple doors at that location.

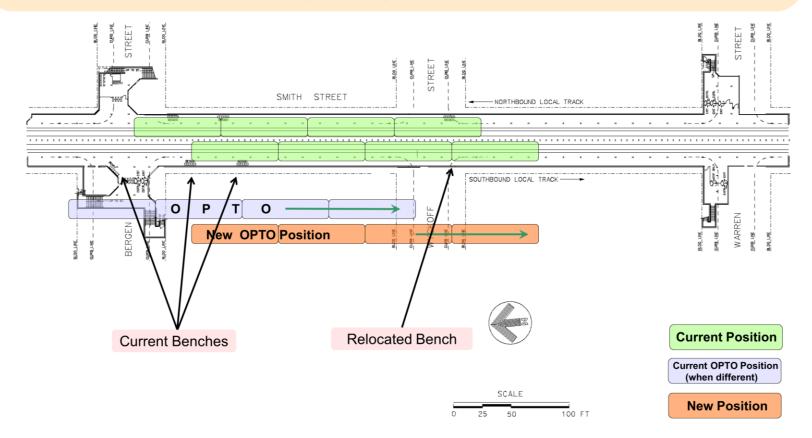




Bergen St:

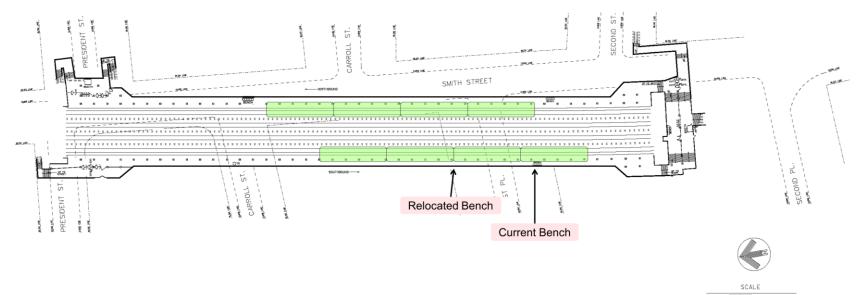
Relocate southbound OPTO to weekday position for consistency.

Currently there are 3 benches located toward the northern end of the southbound platform, and there are no benches toward the middle or the southern end of the platform. The center of the 3 benches should be relocated between the 1st and 2nd cars of the G. This will also better serve F riders as benches only exist adjacent to the back quarter of each train.

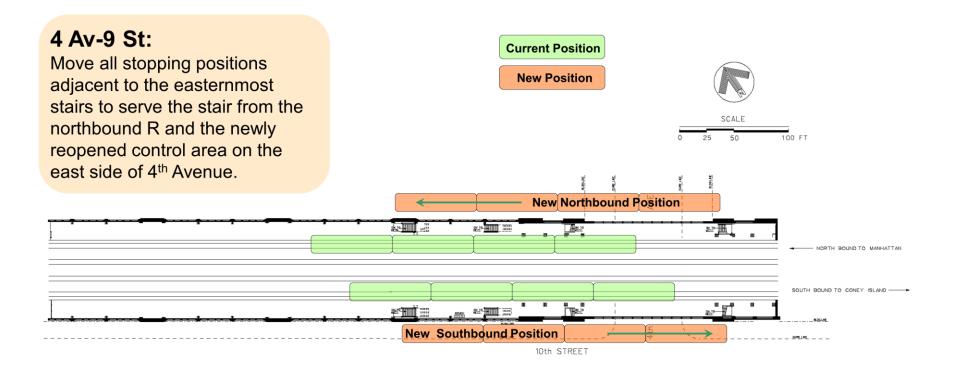


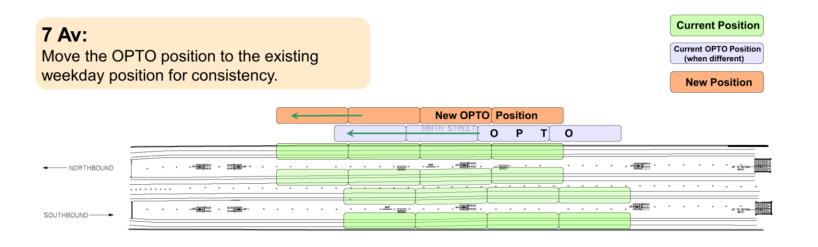
Carroll St:

The bench on the southbound platform should be centered between the 2nd and 3rd car of the G to better serve both F and G riders entering the northern half of the platform.



0 25 50 100 FT



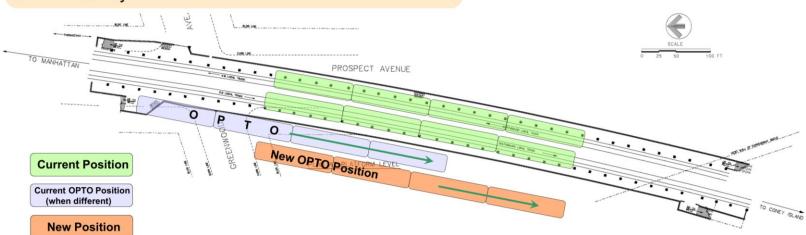




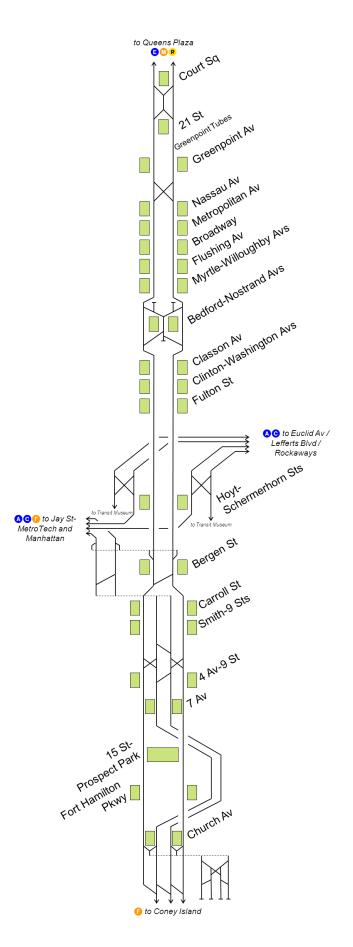


Ft Hamilton Pkwy:

Move the OPTO position to the existing weekday position for consistency.



Appendix D: Track Diagram

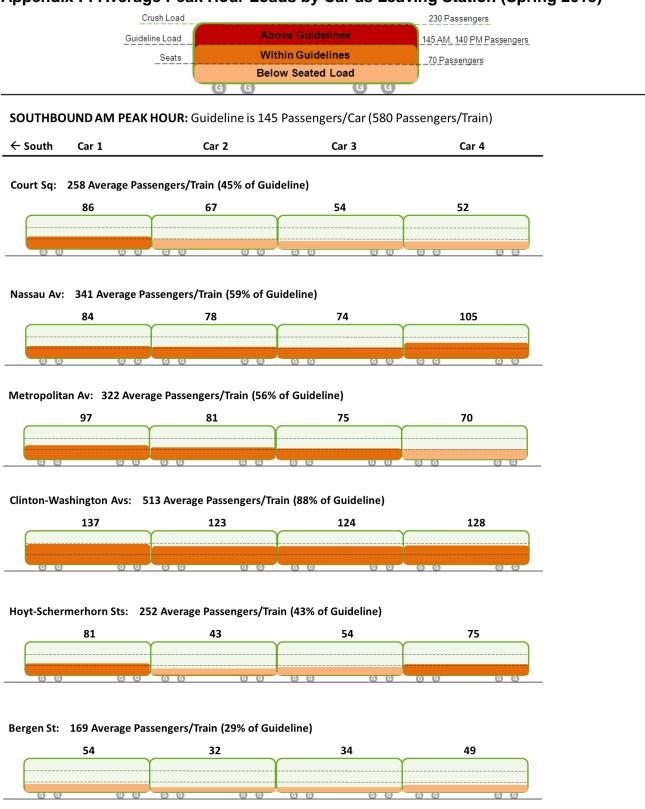


Appendix E: Component Conditions at **G** Stations

The first table lists the component categories evaluated at each station. The components are rated on a scale of 1 to 5, with 1 being the best (no deterioration) and 5 the worst (high level of deterioration). The second table summarizes the percentage of **G** station components rated as deficient – a rating of 3.5 or higher, indicating more than moderate deterioration.

Component	Component	
Street Stairs	Platform Edges	
Interior Stairs	Windscreen	
Mezzanine Areas & Platform Areas:	Canopy	
Ceilings & walls Through-Spans	Vents	
Floors Columns	Other	

Line	Station	Total Components	% Rated 3.5 or Worse
	Court Square	29	0%
	21 St	48	33%
	Greenpoint Av	33	6%
	Nassau Av	34	0%
	Metropolitan Av	48	0%
Crosstown Line Only	Broadway	33	18%
Crosstown Line Only	Flushing Av	24	4%
	Myrtle-Willoughby Avs	38	0%
	Bedford-Nostrand Avs	58	7%
	Classon Av	39	8%
	Clinton-Washington Avs	45	11%
	Fulton St	39	8%
	Hoyt-Schermerhorn Sts	63	6%
	Bergen St	66	15%
	Carroll St	37	3%
	Smith-9 Sts	22	0%
Shared	4 Av	41	2%
	7 Av	68	4%
	15 St-Prospect Park	36	0%
	Fort Hamilton Pkwy	45	4%
	Church Av	65	11%

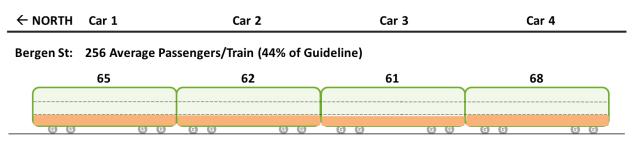


Appendix F: Average Peak Hour Loads by Car as Leaving Station (Spring 2013)ⁱ

ⁱ Leave load observations were performed at each station on two days in each direction, at each peak period in spring, 2013. Although the sample size is relatively small, these observations are consistent with the larger samples of prior years.

NYC Transit **G** LINE REVIEW

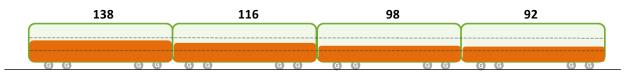
NORTHBOUND AM PEAK HOUR: Guideline is 145 Passengers/Car (580 Passengers/Train)



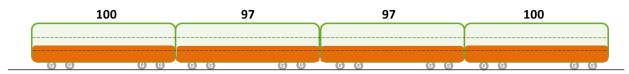
Hoyt-Schermerhorn Sts: 321 Average Passengers/Train (55% of Guideline)



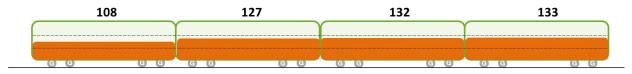
Broadway: 444 Average Passengers/Train (76% of Guideline)



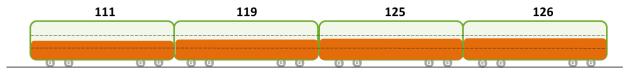
Metropolitan Av: 394 Average Passengers/Train (68% of Guideline)



Greenpoint Av: 500 Average Passengers/Train (86% of Guideline)



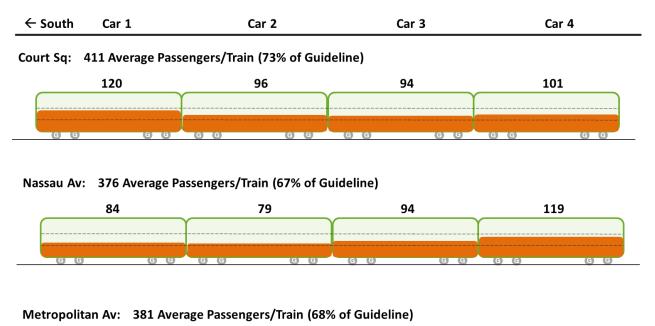
Court Sq: 481 Average Passengers/Train (83% of Guideline)

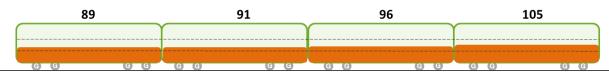


Appendix F: Average Peak Hour Loads by Car as Leaving Station (Spring 2013) – 2

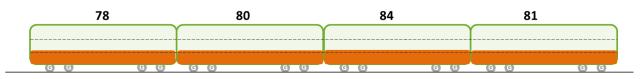
NYC Transit **G** LINE REVIEW

SOUTHBOUND PM PEAK HOUR: Guideline is 140 Passengers/Car (560 Passengers/Train)

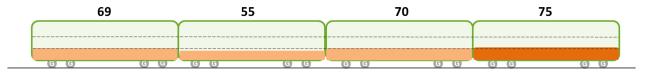




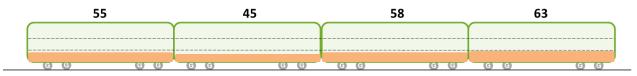
Clinton-Washington Avs: 323 Average Passengers/Train (58% Guideline)



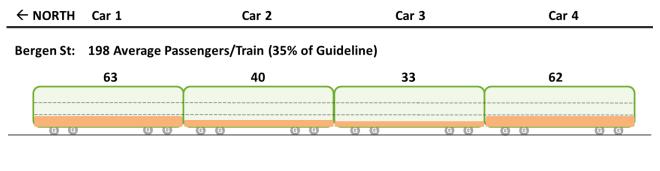
Hoyt-Schermerhorn Sts: 269 Average Passengers/Train (48% of Guideline)



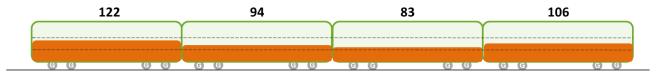
Bergen St: 222 Average Passengers/Train (40% of Guideline)



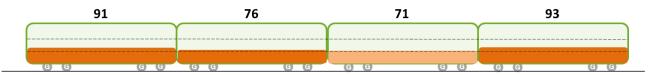
NORTHBOUND PM PEAK HOUR: Guideline is 140 Passengers/Car (560 Passengers/Train)



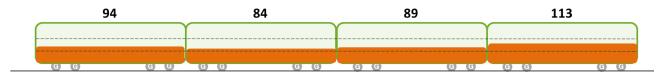
Hoyt-Schermerhorn Sts: 405 Average Passengers/Train (73% of Guideline)



Broadway: 331 Average Passengers/Train (59% of Guideline)



Metropolitan Av: 379 Average Passengers/Train (68% of Guideline)



Court Sq: 243 Average Passengers/Train (43% of Guideline)

