

Capital Program Oversight Committee Meeting

January 2018

Committee Members

- J. Lhota, Chair
- F. Ferrer
- A. Albert
- N. Brown
- I. Greenberg
- S. Metzger
- J. Molloy
- M. Pally
- L. Schwartz
- P. Trottenberg
- J. Vitiello
- P. Ward
- C. Weisbrod
- C. Wortendyke
- N. Zuckerman

Capital Program Oversight Committee Meeting

2 Broadway, 20th Floor Board Room New York, NY 10004 Monday, 1/22/2018 2:00 - 3:30 PM ET

1. PUBLIC COMMENTS PERIOD

2. APPROVAL OF MINUTES DECEMBER 11, 2017

- Minutes from December '17 - Page 3

3. COMMITTEE WORK PLAN

- 2018-2019 CPOC Committee Work Plan - Page 6

4. NYCT CAPITAL PROGRAM UPDATE

- Progress Report on Bus Procurement Update Page 8
- IEC Project Review on Bus Procurements Page 30
- Progress Report on Subway Car Program Update Page 35
- IEC Project Review on Subway Car Procurements Page 48
- Progress Report on Sandy Recovery and Resiliency Division Update Page 54
- IEC Project Review on Canarsie Tunnel Rehab Page 79
- IEC Project Review on Myrtle Viaduct Page 83
- IEC Project Review on Clifton Shop Page 86

5. CAPITAL PROGRAM STATUS

- Year End Commitments, Completions, and Funding Report - Page 89

MINUTES OF MEETING MTA CAPITAL PROGRAM OVERSIGHT COMMITTEE December 11, 2017 New York, New York 1:30 P.M.

MTA CPOC members present: Hon. Joseph Lhota Hon. Andrew Albert Hon, Norman Brown Hon. Ira Greenberg Hon. Susan Metzger Hon. Mitchell Pally Hon. Polly Trottenberg Hon. Carl Weisbrod Hon. Neal Zuckerman MTA CPOC members not present: Hon. Fernando Ferrer Hon. John Mollov Hon. Lawrence Schwartz Hon. James Vitiello Hon. Peter Ward Hon. Carl Wortendyke MTA Board member present: Hon. Scott Rechler MTA staff present: Veronique Hakim Donald Spero Michael Wetherell MTACC staff present: Tony D'Amico Dan Creighton Tim Gianfrancesco Janno Lieber

NYCT staff present: Mark Bienstock Robert Gomez

Eve Michel

Independent Engineering Consultant staff present: Chris Adams Joe DeVito Nabil Ghaly Dianne Rinaldi

* * *

Chairman Lhota called the December 11, 2017 meeting of the Capital Program Oversight Committee to order at 3:45 P.M.

Public Comments Period

There was one public speaker in the public comments portion of the meeting: Kevin Zeng.

Meeting Minutes

Upon motion duly made and seconded, the CPOC members approved the minutes to the previous meeting held on November 13, 2017.

Committee Work Plan

Mr. Spero announced that there was one change to the Work Plan: the East Side Access presentation, originally scheduled for this month, will be provided in March 2018 as part of MTACC's next appearance at CPOC; meantime, MTACC will continue to report on the project to the LIRR Committee. In addition, Mr. Spero cited the proposed CPOC Work Plan for 2018, and asked Committee Members to provide any questions or suggestions they may have.

Agency Capital Program Updates

Citing the fact that all presentation materials have been provided in the book, and in consideration of the late start time of the meeting (and given that one additional Committee meeting lay yet ahead on the day's schedule), Chairman Lhota proposed that in lieu of the agencies actually making each presentation, that should Committee Members have any questions on the materials, staff would be available to address them. Commissioner Albert did have one such question (on CBTC) to which Mr. Bienstock responded.

MTA Capital Program Commitments & Completions and Funding

Ms. Hakim presented commitment and completion performance highlights through November. With respect to Commitments through November, the MTA has made 28 major commitments, and 14 more commitments are forecast to be made by year's end. With awards expected in December, the MTA currently anticipates meeting its 2017 commitments goal of \$7.3 billion by year's end. With respect to Completions in 2017, agencies plan a total of \$5.0 billion, including 34 major completions. The MTA has achieved 20 major completions year-to-date (with 4 more anticipated within the year). By year's end, the MTA forecasts achieving 84% of its 2017 completions goal.

Capital Program Traffic Light Reports

Mr. Spero presented highlights of MTA's Traffic Light Report for the 3rd Quarter 2017. A total of 282 projects were reviewed in the 3rd Quarter: 52 in design and 230 in construction: 64% were designated green; 21% were designated yellow and 15% were designated red, which is a decrease of 1 red project from the 2nd Quarter 2017. With respect to Capital Sandy Program Traffic Light Report, a total of 98 projects were reviewed in the 3rd Quarter: 7 in Design, 18 in Post-Design to Construction, and 73 in Construction. Of the 98 projects reviewed: 62% were designated green; 20% were designated yellow; 18% were designated red, which is a decrease of 4 red projects from the 2nd Quarter 2017. Also, for each of the projects designated red, there is a one-page report in the book stating the problem and corrective action.

QUARTERLY CAPITAL CHANGE ORDER REPORT

Mr. Spero cited -- for information only -- the quarterly Capital Change Order Report covering the 3rd Quarter of 2017; he then asked if there were any questions, of which there was none.

Adjournment

Upon motion duly made and seconded, Chairman Lhota adjourned the December 11, 2017 meeting of the MTA Capital Program Oversight Committee at 3:55 PM.

Respectfully submitted, Michael Jew-Geralds Office of Construction Oversight





I. Recurring Agenda Items

Approval of the Minutes Committee Work Plan Commitments/Completions and Funding Report

II. Specific Agenda Items

February

B&T Capital Program Update

- Verrazano–Narrows Bridge Program Update
- Tunnel Program Update
- Robert F. Kennedy Bridge Program Update

LIRR and MNR Update on Positive Train Control (PTC) Update on Minority, Women and Disadvantaged Business Participation

<u>March</u>

Quarterly MTACC Capital Program Update

- Cortlandt Street Station
- East Side Access
- Second Avenue Subway Phase 2
- Penn Station Access

Quarterly Change Order Report Quarterly Traffic Light Reports

<u>April</u>

NYCT Capital Program Update

- Enhanced Stations Initiative
- Signals and Train Control Division
- Systems and Security Division

Update on Capital Program Security Projects (in Executive Session)

<u>May</u>

LIRR and MNR Capital Programs Update NYCT, LIRR, MNR Update on New Fare Payment System

<u>June</u>

Quarterly MTACC Capital Program Update LIRR and MNR Update on Positive Train Control (PTC) Quarterly Change Order Report Quarterly Traffic Light Reports July NYCT Capital Program Update

September

Quarterly MTACC Capital Program Update Update on Minority, Women and Disadvantaged Business Participation Update on Small Business Development Program Quarterly Change Order Report Quarterly Traffic Light Reports

<u>October</u>

LIRR and MNR Capital Programs Update LIRR and MNR Joint Update on Rolling Stock LIRR and MNR Update on Positive Train Control (PTC) Update on Capital Program Security Projects (in Executive Session)

<u>November</u>

NYCT Capital Program Update NYCT, LIRR, MNR Update on New Fare Payment System CPOC Committee Charter Review

December

Quarterly MTACC Capital Program Update Quarterly Change Order Report Quarterly Traffic Light Reports

<u>January</u>

NYCT Capital Program Update

Bus Procurement Update

Capital Program Oversight Committee

John Higgins Chief Maintenance Officer – Bus Operations



January 2018

Vision

Area	Action				
Safety	Employ latest safety technologyImprove driver visibility				
Environmental Sustainability	 Transition to a zero-emissions fleet Purchase first all-electric buses Continue commitment to CNG and hybrid-electric buses 				
Customer Amenities	 Equip all new buses with digital information screens, free wi-fi, and USB charging ports 				
Improved Service	 Make all buses Transit Signal Priority (TSP) ready Install Automatic Passenger Counters (APC) 				



SAFETY

New Safety Technology







Pedestrian Turn Warning (PTW)

- Audible announcement outside the bus when the bus makes a turn
- Included on all new bus deliveries

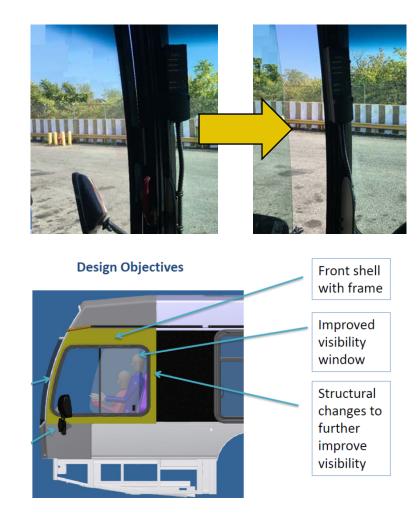
Additional on-bus cameras

Improves situational awareness for incident investigations

Collision Warning System (CWS)

- Detects potential front and side collisions and warns the operator
- Ongoing testing to improve functionality

Further Improved Driver Visibility



Smaller A-Pillar

- Reduces obstruction by ~50%
- Included on all new transit bus deliveries

Relocated B-Pillar

- Expands front left window next to operator
- Included on Nova production buses starting September 2018



SAFETY

Electric Bus Market

All-electric bus market is still new

- Approximately 250 all-electric buses in use by an estimated 30 North American transit agencies
- 4 major manufacturers: New Flyer, Proterra, Nova, and BYD
- Largest known fleet in operation is 18 buses at Sun Valley Transit in Pomona, CA
- Largest committed purchase is 95 buses by LA Metro

Design and technical standards are continuing to develop

- Charging protocols are often manufacturer specific
- Battery technology is continually evolving
- Full life-cycle experience is not yet available



Electric Bus Pilot (1/2)

10 leased all-electric bus pilot began service this month

- **5** buses from New Flyer operating in Manhattan on the M42
 - On street charging stations at terminal areas at each end of 42nd street
 - Supplemental overnight chargers at MJ Quill Depot
- 5 buses from Proterra operating in Queens and Brooklyn on the B32
 - Overnight chargers at Grand Ave Depot
 - On street charging station at Williamsburg Bridge Plaza (for longer route testing)





ENVIRONMENTAL

SUSTAINABILITY

Electric Bus Pilot (2/2)

Technical and operational testing will proceed throughout 2018

- Charging times and efficiency
- Battery usage under various conditions
- Impacts of weather on equipment and battery life





Planned Electric Bus Purchases

Purchase 60 all-electric buses through 2020

- 15 articulated all-electric buses to be delivered in time for operation on 14th Street for the L-Line Bus Shuttle Replacement Service.
- 45 standard all-electric bus purchase award planned for Q4 2019





ENVIRONMENTAL SUSTAINABILITY

Commitment to Low-emissions Fleet

1/3 of all new bus purchases in the 2015-2019 capital plan are CNG, hybrid diesel-electric, or all-electric

- 248 CNG buses (138 standard; 110 articulated)
- 285 hybrid diesel-electric standard buses
- 60 all-electric buses (45 standard; 15 articulated)

First Articulated Compressed Natural Gas (CNG) Buses

- Expands service flexibility of CNG fleet
- 110 bus purchase to be delivered by December 2018



New Hybrid-Electric Technology

- Test fleet of 10 new hybrid-electric standard buses to be delivered in 2018
 - Follow-up purchase of 275 new technology hybrids planned for 2019

Master Page #

16

of 107

AMENITIES

New Customer Amenities



Digital Information Screens (DIS)

- Provide route and next stop information, as well as targeted advertising
- Included on all new bus deliveries beginning with the 377 New Flyer 40' standard order



Free Wi-Fi

- Allows riders to stay connected during their trip
- Included on all new deliveries

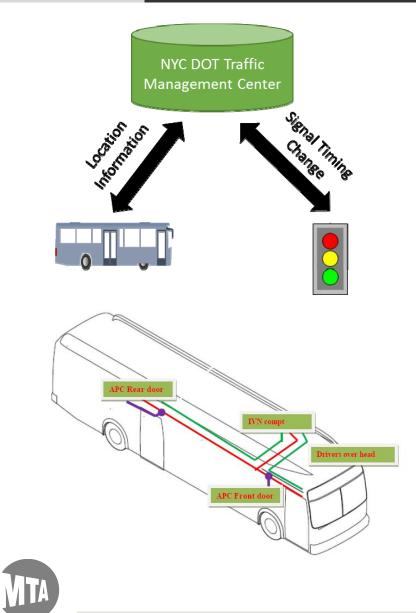


USB Charging Ports

- Allows riders to charge their devices during their trip
- Included on all new deliveries



Service Improvement Technology



Traffic Signal Priority (TSP)

- Communicates with traffic signal to shorten red lights or extend green lights
- All new bus deliveries are TSP-ready

Automatic Passenger Counters (APC)

- Counts all boardings and alightings using sensors at each door
- Included on all new bus deliveries starting in April 2018
- Better management of service and schedule with real time data

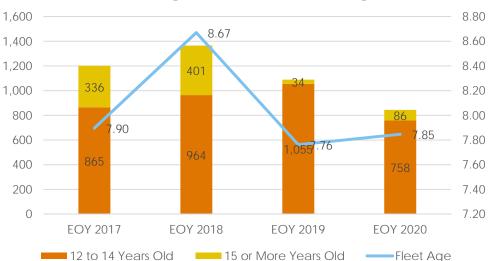
IMPROVED

SERVICE

RELIABILITY

Fleet Dynamics

- 2015-2019 bus purchases will reduce the share of the fleet over 15 years old from 7% in 2018 to 1.5% in 2020
- Buses over 15 years old have the highest failure rate in the fleet, negatively impacting service
- 200 buses will have their retirement delayed to support L-Line Bus Shuttle Replacement Service in 2019







Current Fleet

	NYCT DOB	MTA Bus	Total
Standard 40'	3,184	671	3,855
Diesel	1,350	66	1,416
CNG	548	218	766
Hybrid	1,286	387	1,673
Articulated 60'	789	115	904
Express 45'	497	522	1,019
TOTAL	4,470	1,308	5,778

Based on Winter 2018 Bus Assignment



2017 Deliveries

Fleet	Туре	Agency	Total Order	Delivered	Status	Capital Program
New Flyer XN-40 CNG	Standard	NYCT	138	138	Complete	2015-2019
New Flyer XD-60 Clean Diesel	Articulated	NYCT	139	139	Complete	2010-2014
Nova 60-ft Clean Diesel	Articulated	NYCT	92	1	In Production	2010-2014
New Flyer XN-60 CNG	Articulated	NYCT	110	1	Pilot Bus In-Service Evaluation	2015-2019
New Flyer XD-40 Clean Diesel / Hybrid	Standard	NYCT	377	1	Pilot Bus In-Service Evaluation	2015-2019
New Flyer All Electric Bus (Lease)	Standard	NYCT	5	5	Complete	N/A
Proterra All Electric Bus (Lease)	Standard	NYCT	5	3	In Production N/A	
Total			866	288		
All Procurements are on schedule and on hudget						

All Procurements are on schedule and on budget.



Current Bus Deliveries

92 60-ft Diesel Artics (NYCT-DOB)

Item	Comments
Scope	92 buses from Nova
Schedule	Awarded in March 2016 Configuration audit occurred in Nov 2016 Pilot bus in-service evaluation began in Jan 2017 Deliveries expected between December 2017 and May 2018
Project Budget	\$81.9 million
Highlights	 First Nova "New Look" buses.

- Replaces some SBS routes in Manhattan and the Bronx.
- Equipped with Wi-Fi, USB chargers, and hi-vis windows, phase 1.





Current Bus Deliveries

110 60-ft CNG Artics (NYCT-DOB)

Item	Comments
Scope	110 buses from New Flyer
Schedule	Awarded April 2017 Pilot bus in-service evaluation began October 2017 Deliveries expected between April and December 2018
Project Budget	\$106.4 million
Highlights	 First articulated CNG bus. Will operate in Brooklyn and the Bronx. Replace end-of-life 2004 CNG buses. Equipped with USB chargers, Wi-Fi, digital information screens, automatic passenger counters, pedestrian turn warning, exterior cameras, and hi-vis windows.





Current Bus Deliveries

367 Clean Diesel & 10 Hybrid 40-ft Standards (NYCT-DOB)

Item	Comments				
Scope	377 buses from New Flyer				
Schedule	Awarded June 2017 Pilot In-service evaluation began January 2018 and Hybrid expected to start in February 2018 Deliveries expected between April 2018 and June 2019 Hybrid deliveries expected between March and September 2018				
Project Budget	\$235.7 million				
Highlights - -	Will replace end-of-life Nova 1999 diesels and Orion 2004 hybrids. Equipped with USB chargers, Wi-Fi, and digital information screens, pedestrian turn warning, exterior cameras, automatic passenger counters, and hi-vis windows.				





Current Bus Deliveries

251 40-ft Clean Diesel Standards (NYCT-DOB)

Item	Comments
Scope	251 buses from Nova
Schedule	Awarded June 2017 Pilot bus delivery expected March 2018 Deliveries expected between February and July 2019
Project Budget	\$161.0 million

Highlights

Will replace end-of-life Nova 1999 diesels and Orion 2004 hybrids.
 Equipped with USB chargers, Wi-Fi, and digital information screens, pedestrian turn warning, exterior cameras, automatic passenger counters, and hi-vis windows, phase 2.





Current Bus Deliveries

Lease of 10 40-ft All Electric Buses (NYCT-DOB)

Item	Comments			
Scope	5 buses from Proterra; 5 buses from New Flyer			
Schedule	Awarded August 2017 to Proterra and September 2017 to New Flye Deliveries to be completed in January 2018			
Project Budget	\$23 million			
Highlights	 New Flyer buses will operate in Manhattan on 42nd Street. Proterra buses will operate from the Williamsburg Bridge Plaza on the B32. After evaluation, procure 45 Standard AEBs. 			





Current Bus Deliveries

108 Clean Diesel 60-ft Artics (NYCT-DOB)

ltem	Comments
Scope	108 buses from New Flyer
ScheduleAwarded December 2017SchedulePilot bus expected July 2018Deliveries expected between January 2019 and October 2	
Project Budget \$98.8 million	
Highlights	 Will replace 2003 New Flyer artics and other fleets.

 Equipped with USB chargers, Wi-Fi, and digital information screens, pedestrian turn warning, automatic passenger counters, and exterior cameras, and hi-vis windows.



Current Bus Deliveries

72 Clean Diesel 60-ft Artics (NYCT-DOB)

Item	Comments			
Scope	72 buses from Nova			
Schedule	Awarded January 2018 Deliveries expected between September 2018 and March 2019			
Project Budget	\$65.8 million			
Highlights	 Will replace 2003 New Flyer artics and other fleets. Buses will operate on the L-Line bus shuttle replacement service and then in Manhattan and the Bronx on SBS routes. Equipped with USB chargers, Wi-Fi, and digital information screens, pedestrian turn warning, automatic passenger counters, and exterior cameras, and hi-vis windows (Nova, phase 2). 			



Remaining Procurements for 2015-2019 Capital Program

Fleet	Туре	Agency	Total Order	Status
60-ft Clean Diesel	Artic	MTA	53	In solicitation stage
60-ft All Electric Bus	Artic	NYCT	15	Solicitation release in Q1 2018
45-ft Coach	Express	MTA	257	Solicitation release expected Q2 2018
45-ft Coach	Express	NYCT	50	Solicitation release expected Q2 2018
40-ft Hybrid	Standard	NYCT	275	In development
40-ft All-Electric Bus	Standard	NYCT	45	In development
40-ft Clean Diesel	Standard	MTA	25	In development
Total			720	



January 2018 CPOC IEC Project Review

Bus Procurements

January 22, 2018



Schedule Review

Contracts Awarded in 2016:

- 92 Nova 60-ft Articulated Clean Diesel Buses Deliveries commenced in December 2017 and are scheduled to be completed in June 2018.
- 139 New Flyer 60-ft Articulated Clean Diesel Buses Deliveries were completed in December 2017.
- 138 New Flyer 40-ft CNG Buses Deliveries were completed in November 2017.



Schedule Review Cont'd

- New and Pending Contracts Since January 2017:
 - 110 New Flyer 60-ft CNG Articulated Buses On schedule. Production deliveries are scheduled to begin in April 2018.
 - 377 New Flyer 40-ft std. Clean Diesel Buses On schedule. Production deliveries are scheduled to begin in the 2nd quarter 2018.
 - 251 Nova 40-ft std. Clean Diesel Buses On schedule. Delivery of the pilot bus is scheduled for April 2018.



Budget Review

- Deliveries Completed in 2017:
 - Projects on budget with no significant issues.
- Current Procurements:
 - Projects on budget with no significant issues.

Master Page #

ເມ ເມ



Observations

- The IEC notes that the bus procurement program appears to be well managed.
- The IEC commends NYCT progress in implementing important new safety and technological initiatives that were introduced at the January 2017 CPOC. The new initiatives will improve passenger safety, reduce emissions, introduce new generation hybrid and electric buses, and implement new technologies.



NYCT Subway Car Program

Capital Program Oversight Committee

John Santamaria, P.E.

Acting Vice President & Chief Mechanical Officer, Department of Subways



January 2018

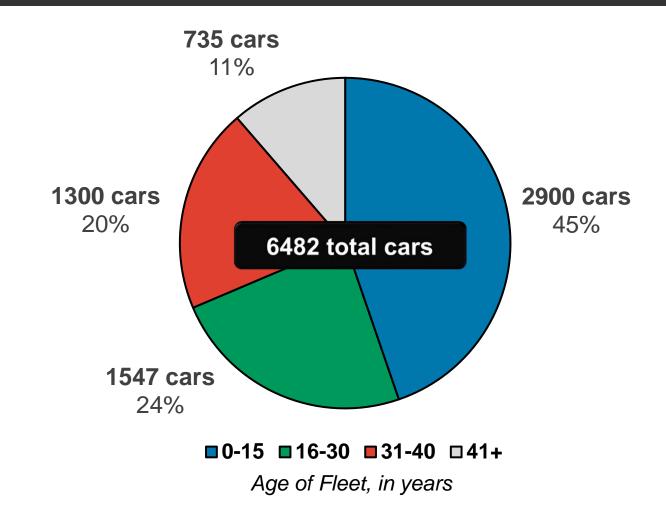
Ongoing Projects

R211 Project Update (Up to 1,612 Cars)

R179 Project Update (300 Cars)



NYCT Subway Car Fleet Age Overview







R211 New B-Division Subway Cars







R211 | Project Overview

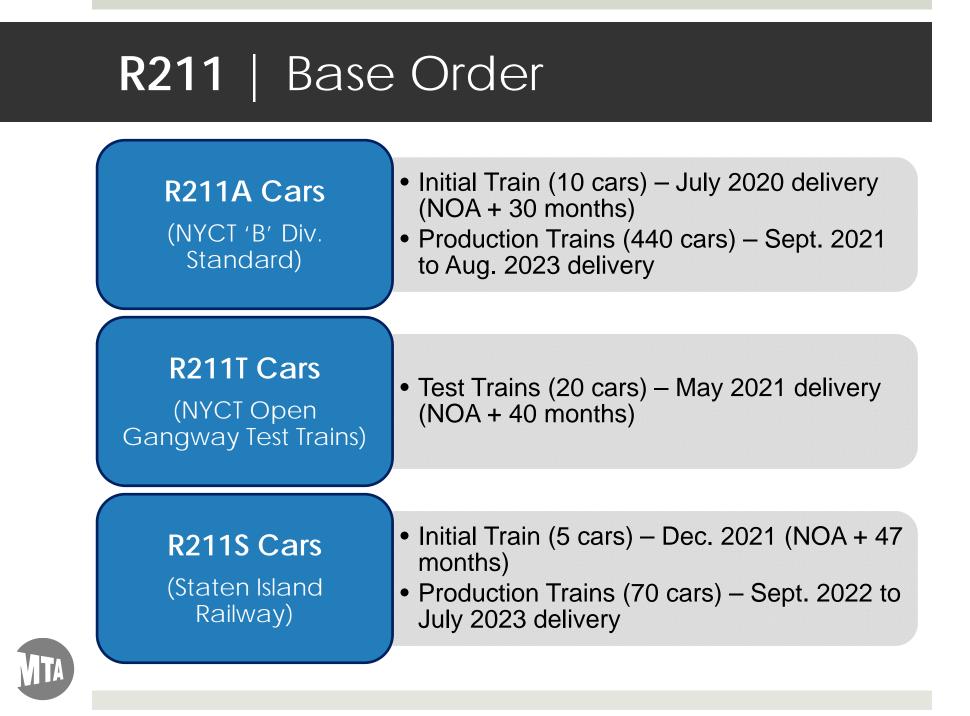
Project Details

Scope	 Purchase up to 1,612 'B' Division Subway Cars Base Order: 20 Open-Gangway, 75 SIR, 440 NYCT Cars Option 1: 640 Cars for NYCT; Option 2: up to 437 NYCT Cars
Schedule	 RFP Advertised: July 22, 2016 Proposals Received: December 15, 2016 Contract Award: January 2018 (Forecasted)
Budget	Base Order: \$2 Billion (2015-19 CP)

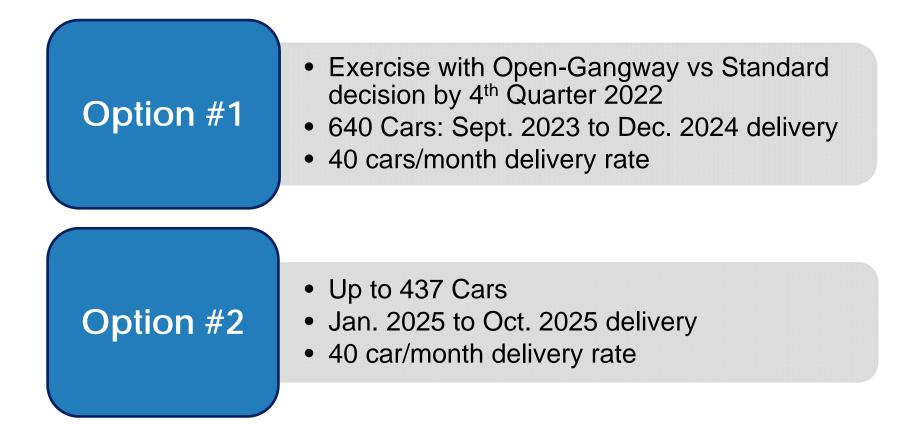
Highlights

Progress	 Commercial & Technical Negotiations - Commenced September 201 Mock Up Open for Customer Feedback – Nov. 30 – Dec. 6, 2017 Notice of Award - January 2018 (F) 	
180-Day Look Ahead	 Design Review Commences: January 2018 (F) 	





R211 | Contract Options

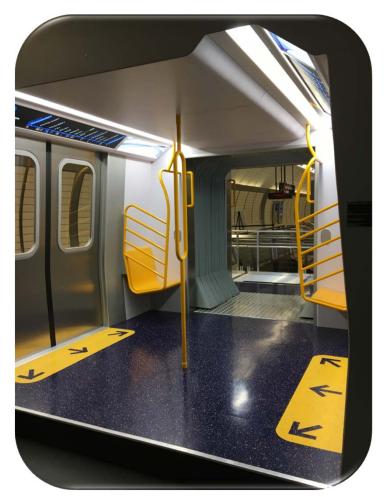




R211 | Mock-Ups



Two mock-ups at 34 St-Hudson Yards



Interior with open gangway



R211 | Mock-Ups







Flexible customer information signs

Door indication lights

R211 | Mock-Ups





Flip-up seats and ADA area



Open gangway

Master Page # 44 of 107 - Capital Program Oversight Committee Meeting 1/22/2018

R179 | Project Overview

Project Details

Carbuilder	Bombardier Transportation Corp.		
Scope	300 60-foot 'B' Division Cars (36 1/2 trains)		
Budget	\$740.6 million		
Schedule	 Award: June 4, 2012 Test Train Delivered: November 2016 Production Car Delivery Begins: January 2018 300th Production Car Delivery Completion (Forecast): January 2019, a 24 month delay from the original schedule 		
Highlights			

Progress	 34 total cars (8 Operating Units) delivered for coordinated testing Electromagnetic interference (EMI) testing complete 30-Day passenger service test complete
180 Day Look Ahead	Continue Production Car Delivery and Acceptance



R179 | Testing Status

Electromagnetic Interference (EMI) Tests

- New test track configured on Brighton Line using in-house forces
- Testing successfully completed as of December 18, 2017

Propulsion & Braking Tests

- 8-car tests successfully completed October 2017
- 10-car testing scheduled for 1st Quarter 2018

30-Day In-Service Test

- Initially began on November 19, 2017
- Door indication light issue corrected
- Successfully completed on December 27, 2017



R179 | In-Service Testing



R179 train operating on Jamaica Line (JZ)



R179 interior



January 2018 CPOC IEC Project Review

Subway Car Procurements

January 22, 2018



R188 Project Summary

- Schedule:
 - Substantial Completion was achieved in June 2016.
 - NYCT and the carbuilder are addressing Field Modification (FMIs), ~ 90% complete.
- Budget:
 - Project is within budget with an EAC of \$613.6M.
- □ Warranty:
 - 153 of 506 cars are still under warranty. The warranty on the remaining cars will be phased out by July 2018.
- Reliability:
 - The MDBF for the combined fleet is 217,239 miles for Sept 2017 and exceeds the contractual requirement of 150,000 miles. The MDBF for the new R188 series cars is 443,704 miles for Sept 2017.



R179 Schedule Review

□ Schedule:

- The IEC concurs with NYCT's forecasted schedule delay and production car delivery completion date.
- The In-Service Reliability Test, a major contract milestone, was successfully completed on December 27, 2017.
- Production car deliveries began in January 2018 and will continue through January 2019.

R179 Budget Review

Budget:

The IEC concurs with the project budget and contingency status presented by NYCT.

R179 Observations

Observations:

- The carbuilder has achieved a production rate of 1 car every 2 days and is attempting to reach a production rate of 1 car per day in February 2018.
- The carbuilder will need to achieve the 1 car per day production rate in February to hold the January 2019 delivery completion date.

R211 Observations

Observations:

- The schedule for the R211 3-phase procurement program is aggressive by industry standards, but achievable.
- Additional NYCT engineering, inspection and testing resources may be required for the multi-phase procurement as design reviews, testing and production will overlap.

Master Page #

53



New York City Transit Sandy Recovery & Resiliency Division

Capital Program Oversight Committee

CPM Branko Kleva, P.E. Program Executive



January 2018

NYCT Sandy Recovery & Resiliency Program

Agenda

Program Overview

- Project Update
 - Canarsie Tunnel / Myrtle Viaduct and Bridge
 - Clark Street
 - Clifton Shop



NYCT Sandy Recovery & Resiliency Program Overview

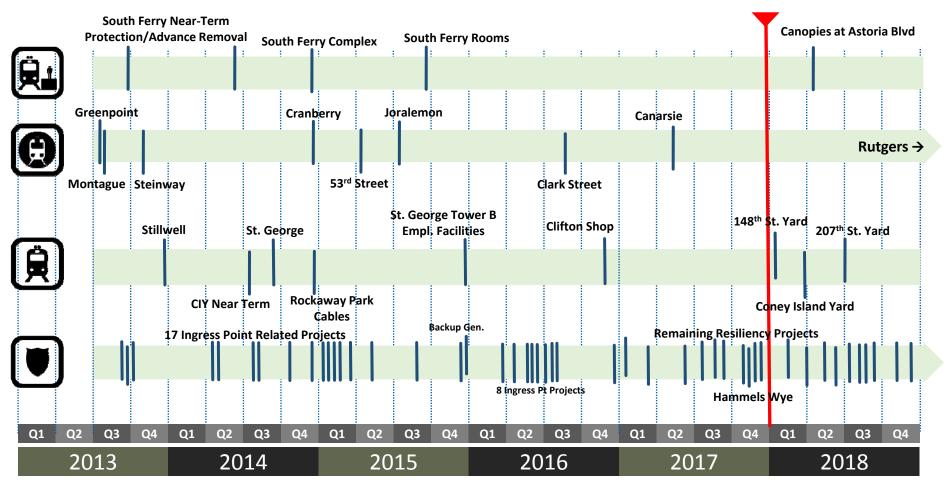
Performance

(\$ billion)



Timeline of Construction Awards





• Awarded to Date:

- 63 Projects
- Remaining to be Awarded:
- 21+ Projects

Awarded:

April 2017

Contractor:

Project Description: Judlau – TC Electric JV

- Demolish and reconstruct duct banks and track
- Replace all lighting, communications, signals and power cables
- Construct new substation and circuit breaker house
- Install new ADA elevators and station stairs
- Refurbish existing pump room and circuit breaker house





Overall Status

	ng 7,110 ft. rete lining	ltem	Comments
Protection system Replacing Cable: Communication 176,000 ft. Power 126,000 ft. Installing 14,400 ft. of new tracks and 15,800 ft. of third rail	 Installing new tunnel lighting system Replacing pumping equipment Rebuilding two circuit breaker houses Building a substation Reconstructing 30, 126 ft. of concrete duct bank rsie Tube	Schedule	 Project is on schedule Substantial Completion forecast is November 2020 Tunnel shutdown: 15 Months April 2019 – July 2020 Contract Duration: 43 Months
Rendering of new entran	nces at Ave A	Cost	 Within Budget of \$914M (Includes contingency and risk reserves)

Highlights

 Surveys of track, signals, communications, lighting, relay rooms, EDRs,
 pump rooms, fan plants, manholes and drains Completed 3D tunnel laser scan, pre-construction surveys and installed noise and geotechnical monitors Relocated gas and electric lines, reconstructed manholes Replaced 20" water main on E 14th St Relocated Service Road slip ramps on E 14th St Constructed positive duct bank on Bedford Ave between N 6th St Substation and N 7th St Started excavation for new substation at Avenue B Started excavation for new stairs at Bedford Ave Station in Brooklyn
 180 Day Look Present alternate service plan to the community Ahead Continue excavations in Manhattan and Brooklyn



Canarsie Tunnel Progress







Canarsie Tunnel Progress





Construction Barricades

Critical Milestones and Issues

Status	Activity	Date Needed	Issues	
Green	Dust Collection Mock Up Approval	January 2018	Dust Collector Mockup successfully completed on 1-11-18	
Green	Approvals, delivery and storage of all materials and equipment	September 2018	None	
Green	All signal work required for tunnel shutdown incl. Bedford Ave Dispatch office	December 2018	None	
Green	Hi-rail equipment approved and ready for delivery	December 2018	None	
Green	Procurement of specialized equipment required for tunnel work	December 2018	None	
Green	Temporary cabling for vent plants, pump room and CBTC systems for the tunnel shutdown	February 2019	None	
Red	Significant impacts with potential impacts on Revenue Service Date, Cost, or Customer Benefit Milestones			
- Yellow	Impacts which can lead to cost increases or schedule	delays on individual mile	stones or contracts.	
Green	No Near Term Impact for Design, Procurement & Construction. Successful management of major activity to stay on schedule or budget.			

ИTА

Critical Milestones and Issues

Status	Activity	Date Needed	Issues		
Green	First Avenue Station north and south debris removal shafts	April 2019	None		
Green	Tunnel Shutdown	April 2019	None		
Green	Avenue B substation and CBH-61 ready for power	April 2020	None		
Green	CBH 62 ready for power	April 2020	None		
Green	All Bedford Avenue Station work complete	July 2020	None		
Green	All First Avenue North and South Station work complete	July 2020	None		
Green	Tunnel Reopening	July 2020	None		
	Red Significant impacts with potential impacts on Revenue Service Date, Cost, or Customer Benefit Milestones				
	Yellow Impacts which can lead to cost increases or schedule delays on individual milestones or contracts.				
YITA) 💽	Green No Near Term Impact for Design, Procurement & Construction. Successful management of major activity to stay on schedule or budget.				

Myrtle Line Viaduct and Bridge

Awarded:

December 2016

Contractor:

Schiavone Construction Co. LLC

□ Project Description:

- Replace 100-year-old viaduct (Bushwick Cut) and bridge on the M-Line
- Construct a car inspection and maintenance enclosure at Fresh Pond Yard

Myrtle Line Viaduct and Bridge

Overall Status

	Item	Comments
	Schedule	 Project is on schedule Substantial Completion forecast is December 2018 Contract Duration: 24 Months 10 month closure – Started July 1, 2017 as scheduled M Line will reopen on April 2018 a year before Canarsie shutdown begins
Pile Rigs	Cost	• Within Budget of \$163M

Myrtle Line Viaduct and Bridge

Highlights

<u> </u>	
Progress	 Project overall completion 69.0% as of December 31, 2017: Phase I – Completed on schedule August 31, 2017 Fresh Pond Yard Rail Car Inspection enclosure was constructed and placed in service Replacement of Bridge over NY & AR was completed and placed in service on August 31, 2017 Phase II – Started as planned on September 1, 2017 M Shuttle Train Service All 122 piles have been installed at Viaduct Demolition of Viaduct complete Concrete pile caps and pedestals for Viaduct complete
180 Day Look Ahead	 Installation of structural steel and precast panels for Viaduct Installation and testing of tracks and signal equipment



Myrtle Line Viaduct and Bridge Progress





New NYAR Bridge and Tracks

Myrtle Line Viaduct and Bridge Progress





New Pile Caps and Footings for New Viaduct

Myrtle Viaduct and Bridge

Critical Milestones and Issues

Status	Activity	Date Needed	Issues
Green	Erect Structural Steel and Precast Panels	February 2018	None
Green	Track Work	March 2018	None
Green	Place Viaduct in Service	April 2018	None
Green	Substantial Completion	December 2018	None

	Red	Significant impacts with potential impacts on Revenue Service Date, Cost, or Customer Benefit Milestones	
•	Yellow	mpacts which can lead to cost increases or schedule delays on individual milestones or contracts.	
	Green	en No Near Term Impact for Design, Procurement & Construction. Successful management of major activity to stay on schedule or budget.	

Clark Street Tube

Awarded:

September 2016

Contractor:

Project Description: TC Electric, LLC

- Replace communication and traction power cables
- Replace emergency alarm and soundpowered telephone system
- Reconstruct track and replace rail tie blocks
- Repair cracks, active leaks and spalls concrete
- Rehabilitate four pump rooms including one in the tube
- Furnish and install signal cables and equipment
- Refurbish fire stand pipe and heat trace systems



Clark Street Tube

Overall Status

	ltem	Comments
Antenna Cable Installation	Schedule	 Project is on schedule Substantial Completion forecast is January 2019. Contract Duration: 28 Months
Binory Bi	Cost	• Within Budget of \$115.3M

ИТА

Clark Street Tube

Highlights

Progress	 40 % complete as of December 31, 2017 Tunnel work progressing with consecutive weekend service diversions scheduled through June 2018 Installation of various cabling ongoing Tunnel ducts cleared, repaired and ready for new cables to be pulled Refurbishment of two pump rooms in progress Refurbished 300 linear feet of track
180 Day Look Ahead	Refurbish 2 remaining pump roomsComplete track and cable work



Clark Street Tube

Critical Items and Issues

Status	Activity	Date Needed	Issues
Green	Track Refurbishment	Feb 2018	Replace damaged tie blocks
Yellow	Pump Room Rehabilitation	May 2018	(2) Pump rooms taken over by Contractor with work underway and (2) remaining to be taken over. Contractor needs to stay on schedule and construction manager needs to coordinate with user departments.
Green	Traction Power Cables	May 2018	No Issue.
Green	Heat Trace Systems	May 2018	No Issue.
Green	Fire Line System	May 2018	No Issue.
	ů i		venue Service Date, or project cost.
		ad to cost increases or sch	
	Green No Near Term Impact	for Construction. Successf	ul management of major activity to stay on schedule or budget.
MTA			

Clifton Shop (Design/Build)

Awarded:

December 2016

Contractor:

Project Description: Prismatic Development Corp.

- Reconstruct the Sandy-damaged Clifton Maintenance Shop to be resilient to Category 2 hurricane.
- Project includes demolition of existing shop facilities and construction of new shop with offices and support buildings and all associated work.
- Phased construction to maintain existing facility in-service





Clifton Shop (Design/Build)

Overall Status

Site Plan	ltem	Comments
Plaint Shop Diesel Shop Admin Bidg Muttple Unit Equipment Shop NEW Demo 1 Demo 2	Schedule	 Project is on schedule Substantial Completion forecast is July 2020. Contract Duration: 43 Months
A Contract Contract Contract Contract Contract	Cost	• Within Budget of \$203M

Clifton Shop (Design/Build)

Highlights

	 Design Package 1 (Maintenance and Protection of Traffic and Demolition), Design Package 2 (Piles, Foundations) and Package 4 (Core and Shell) are 100% Complete. – Demolition of yard tracks stated.
Progress	 Design Packages 3 and 5 (Structural Steel and MEP) were reviewed and comments returned and final document due by February 2018.
	 Design Package 6 for Interior Finishes, Equipment and Landscaping is scheduled to be submitted in February 2018.
	 Design Development Schedule & Preliminary Baseline Schedule were accepted. Final Baseline Schedule was due 12/29/17, new submission date 1/5/2018
	Pile load test program and production piles.
180 Day Look	 Complete final design packages for 3 and 5. Submit Design Package 6.
Ahead	 Remove underground storage tanks
	• Cut and cap gas, sewer and water lines and install temporary utilities
	 Complete demolition of Paint and Diesel Shops



Clifton Shop (Design Build)

Critical Milestones and Issues

Status		Activity	Date Needed	Issues
Green		tial Removals, ocation, Staging	November 2017	None
Green	Start	Production Piles	April 2018	None
Green	Comp	olete Foundations	October 2018	None
Green	Comple	ete Superstructure	January 2019	None
Green	Comp	plete Clifton Shop	January 2020	None
Green		tion of Store Room, Shop, Remaining Structures	April 2020	Will start once new Clifton Shop is beneficially occupied
Green	Fina	Il Site Work and Finishes	July 2020	None
Green	Substa	antial Completion	July 2020	None
	Red	Significant impacts w	th potential impacts on Re	evenue Service Date, Cost, or Customer Benefit Milestones
	Yellow Green			hedule delays on individual milestones or contracts. & Construction. Successful management of major activity to stay on schedule or

January 2018 CPOC IEC Project Review

Canarsie Tunnel Rehabilitation

January 22, 2018



Budget Review

Budget

- The current project budget is \$914M.
- The IEC concurs that the project is currently on budget.

Schedule Review

Schedule Review

■ The IEC concurs, the project is currently on schedule.

Milestones

- Dust Collection Mock up approval on target for January 2018.
- 7 GO's are scheduled for 2018.
- All signal work required for tunnel shutdown to be completed by December 2018.
- Tunnel Shutdown April 2019.



IEC Observations

The IEC is tracking the construction of two new substations at Maspeth and Harrison Place that will provide additional power requirements. Both these projects have been awarded and are currently tracking on schedule.

Master Page #

82 of

107



January 2018 CPOC IEC Project Review

NYCT Viaduct and Bridge Replacement on the Myrtle Avenue Line (BMT)

January 22, 2018



Schedule and Budget Review

Schedule

The overall project is on schedule.

- The car inspection facility (CIF) achieved beneficial use on schedule in 8 months.
- The NY & Atlantic RR bridge was replaced on schedule.
- Shuttle train operation began on schedule.
- The viaduct replacement is on schedule.
- The closed section of the M line is on schedule to reopen by April 2018.

Budget

- The project is within budget.
- A change order was issued to provide permanent power to the CIF.



Risk Management

At this stage of the project, many of the risks identified as potential issues have not been realized or their probability of occurring has been greatly reduced.

Top Remaining Risks

- Availability of Long-Lead Items (Steel viaduct framing).
- Damage to existing facilities or new fabricated components.

January 2018 CPOC IEC Project Review

Clifton Shop

January 22, 2018



Budget and Schedule Review

Budget

- The current project budget is \$203M
- There has been no change to the project budget since last report.

Schedule

- Notice to Proceed was issued on December 30, 2016.
- The contract duration is 43 months with a substantial completion date of July 2020.
- The design-build team has submitted their baseline schedule.
 - The schedule has not been updated to reflect actual progress to date.



Risks to Project Schedule

Delay in Design Completion

- The design-build team is submitting their design in 6 packages.
- Acceptance of the design packages has not met the schedule milestones.
- The impact of design delays to the construction schedule has not been determined at this time.

Delay to Demolition

Delay in removing the existing Diesel and Paint Shops may impact the construction of the new shop.

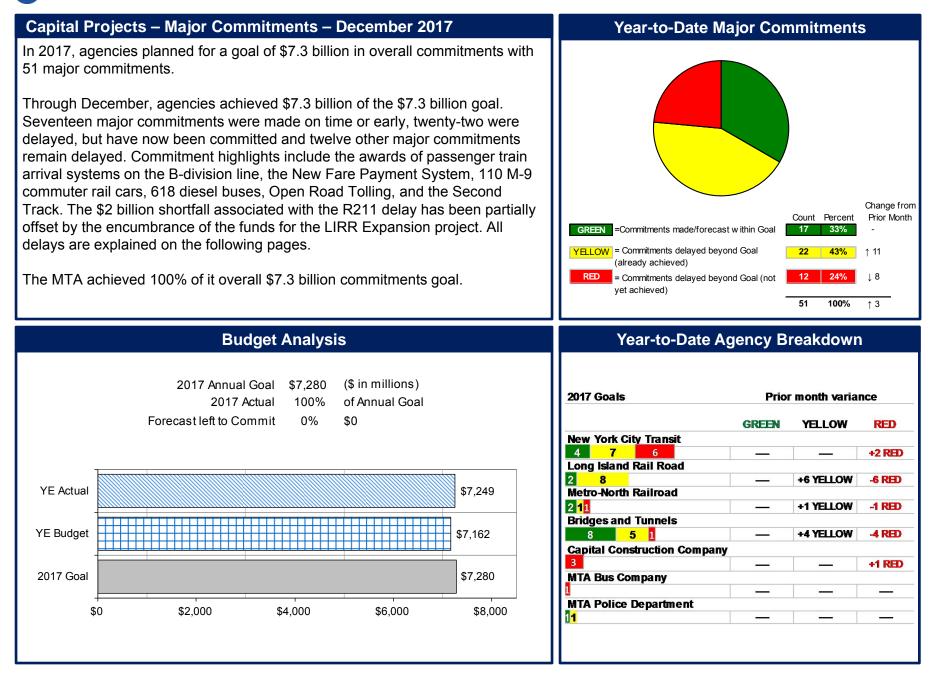


MTA Capital Program Commitments & Completions

through December 31, 2017

Metropolitan Transportation Authority





MTA Metropolitan Transportation Authority

Project	Commitment	Goal	Forecast	Project	Commitment	Goal	Forecast
12 All-Agency Red Commitn	nents (3 new this mo	onth)		MNR			
NYCT				Sandy			
Signals & Communications				Power and Signal Mitigation	Construction Award	Nov- 17	Post 2017
ISIM-B Module 3: Rail Traffic System	s Construction Award	Aug- 17 \$91.7M	Post 2017 \$91.0M	Delay due to the incorporation of up	dated Metro-North quality m	\$20.6M anagement spe	\$20.6M cifications
Project award extended pending rev procurement.	ised specifications based c	n oral presentati	ons during	during the final design phase.			
Subway Cars				MTA CC			
Purchase 525 R211 Cars & 10 Open Gangway	Construction Award	Jun- 17 \$1534.5M	Post 2017 \$1998.5M	East Side Access 48th Street Entrance	Construction Award	Jun- 17	Post 2017
Award of the contact is moved to Jar	uary because proposals ar	e still under revie	w. Project			\$36.0M	\$36.0M
cost refects the capital program bud Passenger Stations				This station entrance package is cu not expected to be committed in 201			
Access Improvements: Grand Central: Phase 2	Construction Award	Jul- 17 \$66.7M	Post 2017 \$57.1M	Systems Package 2 : Installation of Signals	Construction Award	Jun- 17 \$44.9M	Post 2017 \$44.9M
Procurement will be progressed throu project. The last expected awarded	• • •	ng the various ac	ctivities in the	Additional time required for extended	d review process.		
				Penn Station Access			
Sandy Sandy Mitigation: Upgrade				GEC Design (New Item)	Construction Award	Dec- 17	Post 2017
Emergency Booth Comm System	Construction Award	Nov- 17 \$67.1M	Post 2017 \$71.1M	Delay due to change in procurement	t strategy. Proparing to adve	\$37.0M	\$37.0M
Project award extended to March 20 cost increased reflecting latest estim		1 -	•	MTA Bus Company			ionty.
Service Vehicle				Security: JFK & Spring Creek	Construction Award	Sep- 17	Post 201
Purchase Locomotives (New	Purchase Award	Dec- 17	Post 2017			\$9.2M	\$8.5M
ltem)		\$128.3M	\$128.3M	Slipped now due to Award processin	g that is taking longer than a	anticipated.	
Delay due to changes to the technic Department of Labor requirements re Technical specifications have been	garding workers' exposure	to diesel exhaus		B&T			
Misc.				Electrical/Mechanical Rehab of HR Lift Span	Construction Award	Nov- 17 \$17.0M	Post 2017 \$29.4M
Livingston Plaza Electrical and Mechanical System Improvements (New Item)	Construction Award	Dec- 17 \$62.7M	Post 2017 \$63.2M	Design/Build teams requested additi	onal time to review RFP doc	uments.	
The HVAC project was intended to st Livingston façade. However, the faç performance issues and NYCT is now Until a new contractor is selected and HVAC project cannot start.	ade contractor has been re v in the process of identifyin	emoved from the g a replacement	project due to contractor.				

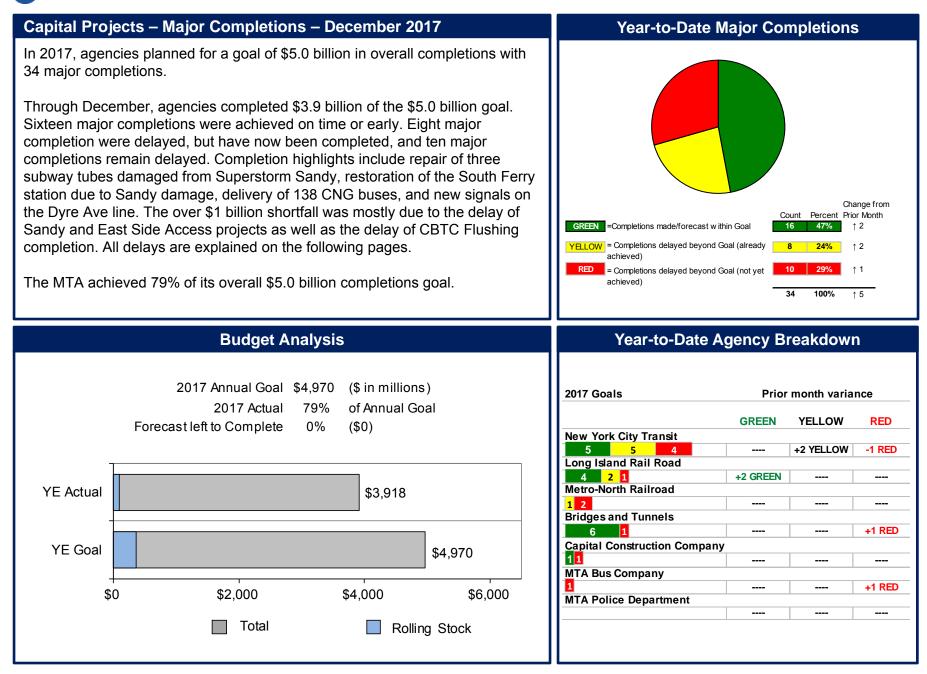
Capital Projects – Major Commitments – December 2017 – Schedule Variances

Jine Structures 2017 Track Program Construction Award Feb- 17 May-17 (A) Structural Repairs / 4th Ave Construction Award Feb- 17 May-17 (A) Structural Repairs / 4th Ave Construction Award Feb- 17 May-17 (A) Structural Repairs / 4th Ave Construction Award Structures Structures Yack Marine Track & Switch Program (18 Construction Award Mar-17 May-17 (A) Projects) - th 201 Y and Track & Switch Program (18 Construction Award Mar-17 May-17 (A) Projects) - th 201 Y and Track & Switch Program (18 Construction Award Aug-17 Oct 2017 (A) Projects) - and Oth Structures Structures Structures Structures Marine Track & Switch Program (16 Construction Award Aug-17 Oct 2017 (A) Positive Train Control (New Force Account Feb-17 Neg 37.9M Marine Track & Switch Program Construction Award Aug-17 Oct 2017 (A) Positive Train Control (New Force Account Feb-17 Neg 37.9M Structures Structures Construction Award May-17 Oct 2017 (A) Neg 49.1M Structures Structures Structure	Project	Commitment	Goal	Actual	Project	Commitment	Goal	Actual
in B Structures 2017 Track Program Construction Award Feb: 17 Mar: 17 Structural Repairs / 4th Ave Construction Award Feb: 17 Mar: 17 May: 17 (A) The project award was delayed due to a higher than expected bid. Structural Was delayed due to a higher than expected bid. Structural March. Tack Mainine Track & Switch Program (18 Construction Award Mar: 17 May: 17 (A) Project.1) - St Qtr Track & Switch Program (18 Construction Award Mar: 17 May: 17 (A) Project.1) - St Qtr Track & Switch Program (18 Construction Award Mar: 17 May: 17 (A) Project.1) - St Qtr Track & Switch Program (18 Construction Award Aug: 17 Oct: 20 17 (A) Project.1) - 3rd Qtr Construction Award Aug: 17 Oct: 20 17 (A) Structural March. System, Phase 2 Structural March. Structural March. Structural March. Structural March. System, Phase 2 Structural March. Structural March. Structural March. Structural March. System, Phase 2 Structural March. Structural March. Structural March. Structural March. New Substation & 2 OBHs - Maspeth.	22 All-Agency Yellow Com	mitments (11 new this	month)		LIRR			
Structural Repairs / 4th Ave Construction Award Feb- fT May- fT (A) Structural Repairs / 4th Ave Construction Award Feb- fT May- fT (A) Structural Repairs / 4th Ave Construction Award Structural Repairs / 4th Ave \$75.0M \$75.0M The project award was delayed due to a higher than expected bid. Structural Repairs / 4th Ave \$75.0M \$75.0M \$75.0M Mainine Track & Switch Program (B Construction Award Mar- fT May- fT (A) Structural Repairs / 4th Ave \$52.0M \$52.0M Mainine Track & Switch Program (B Construction Award Aug- fT Oct- 2017 (A) Structural Repairs / 4th Ave	NYCT				Track			
S04.4M S07.2M The project award was delayed due to a higher than expected bid. Track Main Line Double Track & Switch Program (18 Construction Award Mar. 17 Main Line Double Track & Switch Program (18 Construction Award Mar. 17 Main Line Double Track & Switch Program (18 Construction Award Mar. 17 Main Line Double Track & Switch Program (18 Construction Award Mar. 17 Main Line Double Track & Switch Program (18 Construction Award Aug. 17 Projects). *14 Ot Construction Award Aug. 17 Projects / 37 GM S37.9M S37.9M Construction start delayed due to track access availability and the usage of manpower to construction start delayed due to track access availability and the usage of manpower to construction Award Feb-17 Aug. 17 (Aug. 77 (A) S9.5M Broid Start Communications Start S9.5M Mar. 11 (Bit Startion Elevator's Construction Award Sprovel within the base ner resolved. Start S9.5M Broid Start Communications Start Aug. 77 (Aug. 77 (A) S9.5M Mar. 77 (Aug. 77 (A) S9.5M Mar. 77 (Mort Mar. 110 (Mar. 110 (Mar	Line Structures				2017 Track Program	Construction Award	Feb- 17	Mar- 17 (A)
\$84.4M \$87.2M Full doministrative reviews and approvals had not been concluded by the end of February and full commitment was delayed unit March. The project award was delayed due to a higher than expected bild. Full doministrative reviews and approvals had not been concluded by the end of February and full commitment was delayed unit March. The project award was delayed due to a higher than expected bild. March T May -17 May -17 March T May -17 Jun -17 Tack & Switch Program (B Construction Award Aug -17 Oct -2017 (A) Systems Signals Feb -17 Dec -17 (A) System, Phase 2 Construction Award Signals Signals Fostive Train Control (New Force Account Feb -17 Dec -17 (A) System, Phase 2 Construction Award Feb -17 Aug -17 (A) Signals Signals Signals B-Division Beacon Train Arrival Construction Award Schedue Age and adversion approval which has been resolved. Signals	Structural Repairs / 4th Ave	Construction Award	Feb- 17	May- 17 (A)			\$75.0M	\$75.0M
Main Line Double Track Program (IB Construction Award Mar-17 May-17 (A) Projects) - tst Otr Main Line Double Track Phase 2- Construction Award \$\$2.0 M Apr-17 Jun-17 (A) Track & Systems Main Line Double Track & Switch projects were delayed due to attention to other track work profiles and inclement weather. Bid opening delayed due to time extension requests from prospective contractors to secure pricing from their subcontractors. This contract was awarded in June. Mainine Track & Switch Program (B Construction Award Station & Surgers) - Stations Aug-17 Oct-2017 (A) Station & Stations Communications and Signals Construction stat delayed due to track access availability and the usage of manpower to complete profitzed track work in preparation for the Canarsis Tube closure. Positive Train Control (New Force Account Feb-17 Dec-17 (A) Stations Beacon Train Arrival Construction Award Feb-17 Aug-17 (A) System, Phase 2 B-Division Beacon Train Arrival Scale delayed due to funding allocation approval which has been resolved. Stations Mark Tartisk A Side Page Scale delayed for a darger from their subcontractions Avard May-17 Dec-17 (A) System, Phase 2 Stations Main Line Double Track Phase 2/ Stations Stations Stations Stations Stations Stations Stations Stations Stations Stations New Substation A 2 CBHs - Maspeth Construction Award Apr-17 Aug-17 (A) Station Avard May-17 Dec-17 (A) Station Avard May-17 Dec-17 (A) Station Avard May-17 D			\$84.4M	• • •	Full administrative reviews and approv	vals had not been conclude	d by the end of	February and
Mainine Track & Switch Program (18 Construction Award Mar. 17 May- 17 (A) Mainine Track & Switch projects were delayed due to attention to other track work \$217.8M \$218.7M The 2017 Y ard Track & Switch projects were delayed due to attention to other track work Status Mainine Track & Switch Program (6 Construction Award Aug-17 Opticities and inclement weather. Construction Award Aug-17 Mainine Track & Switch Program (6 Construction Award Aug-17 Opticities and inclement weather. Construction staf delayed due to track access availability and the usage of manpower to complete prioritized track work in preparation for the Canarsie Tube closure. Positive Train Control (New Force Account Feb-17 Dec-17 (final control (New Teal control (Ne	The project award was delayed du	e to a higher than expected bid			full commitment was delayed until Ma	rch.		
Mater I/ Mater I/ <th< td=""><td>Track</td><td></td><td></td><td></td><td></td><td>Construction Award</td><td>Apr- 17</td><td>Jun- 17 (A</td></th<>	Track					Construction Award	Apr- 17	Jun- 17 (A
bit 1 Y ard Track & Switch projects were delayed us to the to other track work with the 2017 Yrat Track & Switch projects were delayed us to some the contractions. This contractions. This contractives awarded in June. computed some track work ward to other track work pricing from their subcontractions. This contract was awarded in June. computed some track work ward to other track work pricing from their subcontractions. This contract was awarded in June. computed some track work pricing from their subcontractions. This contract was awarded in June. Construction start delayed due to track access availability and the usage of man power computed prioritized track work in preparation for the Canarsie Tube closure. Signals & Communications Second train Arrival Construction Award Feb- 17 Aug-17 (A) System, Phase 2 Project 1 and the contract was warded in August. Project cost reflects favorable bids. Stations Stations Stations Second train Arrival construction Award Apr-17 Aug-17 (A) System, Phase 2 New Substation: Harrison PI/ Construction Award Apr-17 Aug-17 (A) System, Phase 2 New Substation: Harrison PI/ Construction Award Apr-17 Aug-17 (A) System, Build project needed approval by the Board before award. Procurement action warded in August. Project cost reflects favorable bids. New Mid-Suffold price. "are Media New Fare Payment System Construction Award Jul-17 Aug-17 (A) Spin Sim	-	⁽¹⁸ Construction Award	Mar- 17	May- 17 (A)	Track & Systems		\$52.0M	\$52.0M
Status Communications and Signals Maining Track & Switch Program (6) Construction Award Aug-17 Oct-2017 (A) Yender Joint Sand Construction Stat delayed due to track & society and the usage of manpower to complete phontized track work in preparation for the Canarsie Tube closure. Positive Train Control (New Force Account Feb-17 (A) Signals & Communications Stations Be -Division Beacon Train Arrival Construction Award Feb-17 Aug-17 (A) System, Phase 2 \$70.0M \$69.1M Project was delayed due to funding allocation approval which has been resolved. Stations There was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Shops & Yands New Substation : Hamison Pl/ Construction Award Jul-17 Aug-17 (A) New Substation : Hamison Pl/ Construction Award Jul-17 Aug-17 (A) New Substation : Hamison Pl/ Construction Award S63.4M S52.2M The Construction Award Jun-17 Oct-2017 (A) New Fare Payment System Construction Award Jun-17 New Fare Payment System Construction Award S11.1.7M Procurement action approved by the MTA Board in October. Tha eward schedule was delaiRoad and the continconesed the due to the	Projects) - 1st Qtr		\$217.8M	\$218.7M				s to secure
Mainline Track & Switch Program (6 Construction Award Aug-17 S37.9M Oct-2017 (A) \$37.9M Poisitive Train Control (New S37.9M Force Account Feb-17 S49.1M Dec-17 (A) \$49.1M Construction start delayed due to track access availability and the usage of manpower to complete prioritized track work in preparation for the Canarsie Tube closure. The cabling award was made in December 2017. Other force account commitments of \$49 million were made in February 2017. The award value reflects the inclusion of the cabling. Signals & Communications Stations B-Division Beacon Train Amival System, Phase 2 Construction Award Feb-17 Aug-17 (A) \$70.0M Aug-17 (A) \$70.0M Murray Hill Station Elevators (New Item) Construction Award May-17 Be-0: Tube Construction Award May-17 Signals & Construction Award May-17 Be-0: Tube Construction Award May-17 Be-0: Tube Construction Award Signals & Construction Award May-17 Be-0: Tube Construction Award Signals & Construction Award Signa	The 2017 Yard Track & Switch proj	ects were delayed due to atten	tion to other tra	ack work	pricing from their subcontractors. This	s contract was awarded in Ju	ine.	
Projects) - 3rd Qtr \$37.9M \$37.9M \$37.9M \$37.9M Construction stard delayed due to track access availability and the usage of manpower to complete prioritized track work in preparation for the Canarsie Tube closure. Item) \$49.1M \$67.5M Signals & Communications Stations Stations Stations B-Division Beacon Train Arrival Construction Award Feb-17 Aug-17 (A) Murray Hill Station Elevators Construction Award May-17 Dec-17 (A Provision Beacon Train Arrival Construction Award Apr-17 Aug-17 (A) Murray Hill Station Elevators Construction Award May-17 Dec-17 (A New Substation & 2 CBHs - Maspeth Construction Award Apr-17 Aug-17 (A) Stations Stations New Substation: Harrison PI/ Construction Award Apr-17 Aug-17 (A) Stations Stations Stations The was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Stations Stations Stations New Substation: Harrison PI/ Construction Award Jul-17 Aug-17 (A) New Mid-S utfolk Electric Y and Construction Award Sep-17 Dec-17 (A New Fare P	priorities and inclement weather.				Communications and Signals			
Construction start delayed due to track access availability and the usage of manpower to complete prioritized track work in preparation for the Canarsie Tube closure. The cabling award was made in December2017. Other force account commitments of \$49 Signals & Communications The cabling award was made in December2017. Other force account commitments of \$49 B-Division Beacon Train Arrival Construction Award Feb-17 Aug-17 (A) System, Phase 2 \$70.0M \$69.1M Project was delayed due to funding allocation approval which has been resolved. Stations Traction Power Stations Stations New Substation & 2 CBHs - Maspeth Construction Award Apr-17 Aug-17 (A) System, Project was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Stations New Substation: Harrison PI/ Construction Award Jul-17 Aug-17 (A) Spain Beron Train Arrival Construction Award Jul-17 Aug-17 (A) New Substation: Harrison PI/ Construction Award Jul-17 Aug-17 (A) Spain Beron Train Arrival Construction Award Jul-17 Aug-17 (A) New Substation: Harrison PI/ Construction Award Jul-17 Aug-17 (A) Spa	-	6 Construction Award	Aug- 17	Oct-2017 (A)	Positive Train Control (New	Force Account	Feb- 17	Dec- 17 (A
complete prioritized track work in preparation for the Canarsie Tube closure. million were made in February 2017. The award value reflects the inclusion of the cabling. Signals & Communications Stations Be Division Beacon Train Arrival System, Phase 2 Construction Award \$70.0M Feb-17 Aug-17 (A) \$70.0M Murray Hill Station Elevators (New Item) Construction Award \$12.6M May-17 Dec-17 (A) \$12.6M Dec-17 (A) \$12.6	Projects) - 3rd Qtr		\$37.9M	\$37.9M	ltem)		\$49.1M	\$67.5M
Signals & Communications Stations Bo Division Beacon Train Arrival System, Phase 2 Construction Award Feb-17 Aug-17 (A) \$70.0M Sep-17 Aug-17 (A) (New Item) Murra y Hill Station Elevators Construction Award May-17 Dec-17 (A) \$12.6M Sp.0M Project was delayed due to funding allocation approval which has been resolved. Traction Power Sint 2.6M Sp.0M New Substation & 2 CBHs - Maspeth Av- Humboldt St / CNR Construction Award Apr-17 Aug-17 (A) \$76.7M Sp.5M Diese I Locomotive Shop (New Construction Award Sep-17 Dec-17 (A) \$97.9M Sp4.4M New Substation: Harrison PI / Canarsie Construction Award Jul-17 Aug-17 (A) \$63.4M Spc.2M New Mit- Suffolk Electric Y ard Construction Award Construction Award Spc.17 Dec-17 (A) (New Item) New Mit- Suffolk Electric Y ard Construction Award Construction Award Spc.17 Dec-17 (A) (New Item) New Mit- Suffolk Electric Y ard Construction Award Construction Award Spc.17 Dec-17 (A) (New Item) New Mit- Suffolk Electric Y ard Construction Award Construction Award Spc.17 Dec-17 (A) (New Item) Spc.17 Dec-17 (A) (New Item) Spc.17 Dec-17 (A) (New Item) Spc.17 Dec-17 (A) (New Item) Spc.17 Dec-17 (A) Spc.	Construction start delayed due to t	rack access availability and the	usage of man	powerto	U U			
B-Division Beacon Train Arrival System, Phase 2 Construction Award Feb-17 Aug-17 (A) \$70.0M Murray Hill Station Elevators Construction Award May-17 Dec-17 (A \$12.6M Sp.0M Project was delayed due to funding allocation approval which has been resolved. Traction Power St2.6M \$90.0M New Substation & 2 CBHs - Maspeth Av- Humboldt St / CNR Construction Award Apr-17 Aug-17 (A) \$76.7M St95.5M New Substation: Harrison Pl / Canarsie Construction Award Jul-17 Aug-17 (A) \$76.7M St95.5M New Substation: Harrison Pl / Canarsie Construction Award Jul-17 Aug-17 (A) \$63.4M New File Sel Locomotive Shop (New Construction Award Sep-17 Dec-17 (A (New Item) New Substation: Harrison Pl / Canarsie Construction Award Jul-17 Aug-17 (A) \$63.4M New File Sel Locomotive Shop (New Construction Award Sep-17 Dec-17 (A (New Item) Refer to be add proved by the July Board and the contract was awarded in August. Project cost reflects negotiated bid price. Sep-17 Dec-17 (A (New Item) Sep-17 Dec-17 (A (New Item) Are Media Sep-17 Dec-17 (A (New Item) Sep-17 Dec-17 (A (New Item) Sep-17 Dec-17 (A (New Item) Sep-17 Dec-17 (A (New Item) Sep-17<	complete prioritized track work in p	reparation for the Canarsie Tub	e closure.		million were made in February 2017. 1	The award value reflects the	inclusion of the	cabling.
System, Phase 2 \$70.0M \$69.1M \$12.6M \$9.0M Project was delayed due to funding allocation approval which has been resolved. \$70.0M \$69.1M Reflects the delay in the time frame for legal to complete their review of contractual document <i>Traction Power</i> Shops & Yards Shops & Yards New Substation & 2 CBHs - Maspeth Construction Award Apr-17 Aug-17 (A) Av- Humboldt St / CNR \$76.7M \$59.5M Diese I Locomotive Shop (New Construction Award Sep-17 Dec-17 (A) warded in August. Project cost reflects favorable bids. \$63.4M \$52.2M New Mid- Suffolk Electric Y and Construction Award Sep-17 Dec-17 (A) New Substation: Harrison PI / Canarsie Construction Award Jul-17 Aug-17 (A) New Mid- Suffolk Electric Y and Construction Award Sep-17 Dec-17 (A) New Mas approved by the July Board and the contract was awarded in August. Project cost reflects a varade in December. New Mid- Suffolk Electric Y and Construction Award Sep-17 Dec-17 (A) You was approved by the July Board and the contract was awarded in August. Project cost reflects Sep-17 Dec-17 (A) Star Main Star S.M Star Main August. Project cost reflects Sep-17 Dec-17 (A) Star Main Star S.M </td <td>Signals & Communications</td> <td></td> <td></td> <td></td> <td>Stations</td> <td></td> <td></td> <td></td>	Signals & Communications				Stations			
Project was delayed due to funding allocation approval which has been resolved. Reflects the delay in the time frame for legal to complete their review of contractual document Traction Power Reflects the delay in the time frame for legal to complete their review of contractual document New Substation & 2 CBHs - Maspeth Construction Award Apr- 17 Aug- 17 (A) Av- Humboldt St / CNR \$76.7M \$59.5M There was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Diesei Locomotive Shop (New Construction Award Sep- 17 Dec- 17 (A) New Substation: Harrison PI/ Construction Award Jul- 17 Aug- 17 (A) Canarsie \$63.4M \$52.2M This Design-Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects ref	B-Division Beacon Train Arrival	Construction Award	Feb- 17	Aug- 17 (A)		Construction Award	May- 17	Dec- 17 (A
Traction Power Shops & Yards New Substation & 2 CBHs - Maspeth Construction Award Apr-17 Aug-17 (A) Av-Humboldt St / CNR \$76.7M \$59.5M Die sel Locomotive Shop (New Construction Award Sep-17 Dec-17 (A) \$97.9M \$94.4M Av-Humboldt St / CNR warded in August. Project cost reflects favorable bids. Die sel Locomotive Shop (New Construction Award Sep-17 Dec-17 (A) \$97.9M \$94.4M New Substation: Harrison PI / Construction Award Seg. 10 Construction Award Seg. 17 Dec-17 (A) Canarsie Construction Award Jul-17 Aug-17 (A) \$63.4M \$52.2M This Design-Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects favorable bids. New Mid- Suffolk Electric Y ard Construction Award Sep-17 Dec-17 (A (New Item)) Fare Media Construction Award Jun-17 Oct-2017 (A) \$525.9M \$615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed to late September 10 of MTA Audit. Negotiations scheduled and awarded December 2017. Delay in vendor negotiations due to completion of MTA Audit. Negotiations scheduled and awarded December 2017. Procurement action approved by the MTA Board in October. The award schedule was delayed to to scope addition to incorporating a full NPS treatment for the Long Island Rail Road and Metro. Noth Bailmad 1 he to the binberthap huddet bid Metro. Noth Bailmad 1 he construction Award Oct-17 Dec-17 (A)	System, Phase 2		\$70.0M	\$69.1M	(New Item)		\$12.6M	\$9.0M
New Substation & 2 CBHs - Maspeth Av- Humboldt St / CNR Construction Award \$76.7M Apr- 17 \$59.5M Aug- 17 (A) \$59.5M There was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Diese I Locomotive Shop (New Construction Award Sep- 17 Dec- 17 (A \$97.9M New Substation: Harrison PI / Canarsie Construction Award Jul- 17 Aug- 17 (A) \$63.4M New Fac Payment System Construction Award Jul- 17 Aug- 17 (A) \$52.5.9M New Mid- Suffolk Electric Y and (New Item) Construction Award Sep- 17 Dec- 17 (A New Mid- Suffolk Electric Y and (New Item) RFP due date was delayed to late September. Sep- 17 Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Dec- 17 (A (New Item) Sep- 17 Dec- 17 (A (New Item) Dec- 17 (A (New Item) Decart (New Item) Decart (New Item) Decart (New Item) Sep- 17 Dec- 17 (A (New Item) Dec- 17 (A (New Item) Decart (New Item) Decart (New Item) Decart (New Item) Decart (New Item) Sep- 17 Dec- 17 (A (Ne) Item (Ne) Item (Ne) Item (Ne) Item (Ne) Item (Ne) It	Project was delayed due to funding	g allocation approval which has	been resolved	t.	Reflects the delay in the time frame for	or legal to complete their revie	ewofcontractu	aldocument
Av-Humboldt St / CNR \$76.7M \$59.5M Item) \$97.9M \$94.4M There was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. Sep.17 Delay in RFP process. Vendor was selected and went before October Board for approval. Awarded in December. New Substation: Harrison PI/ Canarsie Construction Award Jul- 17 Aug- 17 (A) This Design- Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects regotiated bid price. New Mid- Suffolk Electric Y ard Construction Award Sep-17 Dec-17 (A Fare Media Construction Award Jun-17 Oct-2017 (A) S52.5M S615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and the sc	Traction Power				Shops & Yards			
There was a delayed in advertisement. Bids were received in May and the contract was awarded in August. Project cost reflects favorable bids. \$97.500 \$\$\$97.500 \$\$\$97.500 \$\$\$97.500 \$\$\$\$97.500 \$	New Substation & 2 CBHs - Maspe	th Construction Award	Apr- 17	Aug- 17 (A)		Construction Award	Sep- 17	Dec- 17 (A
awarded in August. Project cost reflects favorable bids. New Substation: Harrison PI/ Canarsie Construction Award Jul- 17 Aug- 17 (A) \$63.4M Aug- 17 (A) \$63.4M New Mid- Suffolk Electric Y and Construction Award Sep- 17 Dec- 17 (A \$111.7M This Design-Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects negotiated bid price. New Mid- Suffolk Electric Y and Construction Award Sep- 17 Dec- 17 (A \$111.7M Fare Media Sep. 17 Dec. 17 (A \$28.0M Sep- 17 Dec- 17 (A \$28.0M New Fare Payment System Construction Award Jun- 17 Oct- 2017 (A) \$525.9M Sef15.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro- Noth Bailmand. The constinger may and the contract was due to ide to the biotect than burdget bid New Tere Procurement (New Item) Construction Award Oct- 17 Dec- 17 (A Dec- 17 (A)	Av-Humboldt St / CNR		\$76.7M	\$59.5M	ltem)		\$97.9M	\$94.4M
New Substation: Harrison PI/ Canarsie Construction Award Jul- 17 Aug- 17 (A) \$63.4M New Mid- Suffolk Electric Y and (New Mid- Suffolk Electr			and the contra	ct was	Delay in RFP process. Vendor was se	elected and went before Octo	ober Board for a	approval.
Canarsie \$63.4M \$52.2M This Design-Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects negotiated bid price. \$111.7M \$113.0M Fare Media Construction Award Jun-17 Oct-2017 (A) \$28.0M \$33.4M New Fare Payment System Construction Award Jun-17 Oct-2017 (A) \$525.9M \$615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Bailtoad. The cost increased due to the bioperthan budget bid Construction Award Oct-17 Dec-17 (A)	awarded in August. Project cost re	eflects favorable bids.			Awarded in December.			
This Design-Build project needed approval by the Board before award. Procurement action was approved by the July Board and the contract was awarded in August. Project cost reflects negotiated bid price. RFP due date was delayed to late September. Technical group was evaluating proposals. Fare Media Jun-17 Oct-2017 (A) \$525.9M S615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Bailroad. The cost increased due to the bioherthan budget bid Jun-17 Oct-2017 (A) \$525.9M Metro. North Bailroad. The cost increased due to the bioherthan budget bid Metro. North Bailroad. The cost increased due to the bioherthan budget bid Rolling Stock		Construction Award	Jul- 17	Aug- 17 (A)		Construction Award	Sep- 17	Dec- 17 (A
was approved by the July Board and the contract was awarded in August. Project cost reflects negotiated bid price. Track Fare Media JCI Phase II Design (New Item) Design Award Sep- 17 Dec- 17 (A \$28.0M \$33.4M New Fare Payment System Construction Award Jun- 17 Oct- 2017 (A) \$5525.9M \$615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Bailroad. The cost increased due to the bioperthan budget bid Rolling Stock Metro. North Bailroad. The cost increased due to the bioperthan budget bid Oct- 17 Dec- 17 (A		Construction Award						\$113 OM
negotiated bid price. Track Fare Media JCI Phase II Design (New Item) Design Award Sep- 17 (A \$28.0M \$33.4M New Fare Payment System Construction Award Jun- 17 Oct- 2017 (A) \$525.9M \$615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Railroad The cost increased due to the bioperthan budget bid Rolling Stock Metro. North Railroad Oct- 17 Dec- 17 (A	Canarsie				(New Item)		\$111.7M	φ110.0m
Fare Media Jun-17 Oct-2017 (A) New Fare Payment System Construction Award Jun-17 Oct-2017 (A) Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Railroad. The cost increased due to the biober than budget bid Jun-17 Oct-2017 (A) Metro. North Railroad. The cost increased due to the biober than budget bid Metro. North Railroad. The cost increased due to the biober than budget bid Metro. North Railroad. The cost increased due to the biober than budget bid Delay in vendor negotiations due to completion of MTA Audit. Negotiations scheduled and awarded December 2017.	Canarsie This Design-Build project needed	approval by the Board before a	ward. Procure	mentaction		ptember. Technical group w	•	,
Construction Award Jun- 17 Oct- 2017 (A) New Fare Payment System Construction Award Jun- 17 Oct- 2017 (A) Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Railroad. The cost increased due to the bioher than budget bid Delay in vendor negotiations due to completion of MTA Audit. Negotiations scheduled and awarded December 2017.	Canarsie This Design-Build project needed was approved by the July Board ar	approval by the Board before a	ward. Procure	mentaction	RFP due date was delayed to late Se Track	ptember. Technical group w	•	,
New Fare Payment System Soft 20 m (V) Soft 20 m (V) \$615.5M Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Railroad. The cost increased due to the bioberthan budget bid awarded December 2017. Metro. North Railroad. The cost increased due to the bioberthan budget bid M- 9 Procurement (New Item) Construction Award Oct- 17 Dec- 17 (P)	Canarsie This Design-Build project needed was approved by the July Board ar	approval by the Board before a	ward. Procure	mentaction	RFP due date was delayed to late Se Track		as evaluating p	roposals.
\$525.9M \$615.5M awarded December 2017. Procurement action approved by the MTA Board in October. The award schedule was delayed due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro. North Railroad. The cost increased due to the bioher than budget bid Rolling Stock Metro. North Railroad. The cost increased due to the bioher than budget bid M- 9 Procurement (New Item) Construction Award Oct- 17 Dec- 17 (Amarch 1000)	Canarsie This Design-Build project needed was approved by the July Board ar	approval by the Board before a	ward. Procure	mentaction	RFP due date was delayed to late Se Track JCI Phase II Design (New Item)	Design Award	as evaluating p Sep- 17 \$28.0M	roposals. Dec- 17 (A \$33.4M
due to scope addition to incorporating a full NFPS treatment for the Long Island Rail Road and Metro-North Railroad The cost increased due to the higher than hudget hid	Canarsie This Design- Build project needed was approved by the July Board ar negotiated bid price. Fare Media	approval by the Board before a nd the contract was awarded in	ward. Procure August. Projec Jun- 17	Oct-2017 (A)	RFP due date was delayed to late Se Track JCI Phase II Design (New Item) Delay in vendor negotiations due to c	Design Award	as evaluating p Sep- 17 \$28.0M	roposals. Dec- 17 (A \$33.4M
Metro-North Railroad The cost increased due to the bigher than budget bid	Canarsie This Design-Build project needed was approved by the July Board ar negotiated bid price. Fare Media New Fare Payment System	approval by the Board before a nd the contract was awarded in Construction Award	ward. Procure August. Projec Jun-17 \$525.9M	Oct-2017 (A) \$615.5M	RFP due date was delayed to late Se Track JCI Phase II Design (New Item) Delay in vendor negotiations due to c	Design Award	as evaluating p Sep- 17 \$28.0M	roposals. Dec- 17 (A \$33.4M
\$199.7M \$276.0N	Canarsie This Design-Build project needed was approved by the July Board ar negotiated bid price. Fare Media New Fare Payment System Procurement action approved by t	approval by the Board before a nd the contract was awarded in Construction Award the MTA Board in October. The	Jun-17 \$525.9M award schedu	Oct-2017 (A) \$615.5M Ile was delayed	RFP due date was delayed to late Se Track JCI Phase II Design (New Item) Delay in vendor negotiations due to c awarded December 2017. Rolling Stock	Design Award	as evaluating p Sep- 17 \$28.0M	roposals. Dec- 17 (A \$33.4M
	Canarsie This Design-Build project needed was approved by the July Board ar negotiated bid price. Fare Media New Fare Payment System Procurement action approved by t due to scope addition to incorpora	approval by the Board before a nd the contract was awarded in Construction Award the MTA Board in October. The titing a full NFPS treatment for th	Jun- 17 \$525.9M award schedu e Long Island F	Oct-2017 (A) \$615.5M Ile was delayed	RFP due date was delayed to late Se Track JCI Phase II Design (New Item) Delay in vendor negotiations due to c awarded December 2017. Rolling Stock	Design Award	as evaluating p Sep- 17 \$28.0M gotiations sche	roposals. Dec- 17 (A \$33.4M

Capital Projects – Major Commitments – December 2017 – Schedule Variances

Project	Commitment	Goal	Forecast
MNR			
GCT PA Head End and VIS Systems (New Item)	6 Construction Award	Jul- 17 \$32.6M	Dec- 17 (A) \$57.0M
Due to a protracted procureme	nt the Design/Build award was de	layed until Dece	mber 2017.
MTA PD			
Nassau County District Office	Construction Award	Feb- 17 \$7.0M	Mar- 17 (A) \$7.0M
A lease was signed with the pro	perty owner in February. Adminis	trative reviews a	nd procedure
to award the project delayed the	e forecast award to March.		
3& <i>T</i>			
Structures			
Henry Hudson Skewback Retro	ofit Construction Award	Apr- 17	May- 17 (A)
		\$83.7M	\$85.7M
Delay due to contract and Insu	rance issues which took longer th	an anticipated	o resolve.
Aiscellaneous			
Install Electronic Monitori	ng & Construction Award	Jul- 17	Dec- 17 (A)
Detection Systems (Bronx		\$23.0M	\$29.9M
Whitestone) (New Item)			
Additional time was required to	respond to questions from interes	ted Design/Buil	d teams and
modify the scope.	· ·	0	
Install Electronic Monitori	ng & Construction Award	Jul- 17	Dec- 17 (A)
Detection Systems (Rober		\$34.3M	\$45.5M
Kennedy) (New Item)		φο n.om	¢ 10.011
Additional time was required to	respond to questions from interes	ted Design/Buil	d teams and
modify the scope.		tou Deoign/Duik	a tourno unu
Structures Interim Repairs - FDR Ran		0 47	
(New Item)	np Construction Award	Sep- 17 \$20.0M	Dec-17 (A)
		\$20.0M	\$13.5M
date out by two months.	er than anticipated which pushed	the constructio	n lorecast star
Main Cable & Suspender F	· · · · · · · · · · · · · · · · · · · ·	Nov- 17	Dec- 17 (A)
· · · ·		COO 714	¢10.4M
Testing - Ph. 1 (New Item)		\$33.7M	\$18.1M





MTA Metropolitan Transportation Authority

Project	Completion	Goal	Forecast	Project	Completion	Goal	Forecast
10 All-Agency Red Completion	ns (3 new this mo	nth)		LIRR			
NYCT	-	-		Track			
Subway Cars				Massapegua Pocket Track	Construction	Nov- 17	Post 2017
Accept 62 R179 Rail Cars (New Item)	Fleet Purchase	Dec-17 \$162.8M	Post 2017 \$162.8M	The completion date has been pushed	back to accommodate	\$19.6M Con Edison's uti	\$19.6M lity cut- over
Acceptance of cars delayed due to de car is still slated for December 2018.	lay in starting the 30-da	y test. Delivery o	of the 300th	schedule.			
Bus Replacement				MTA CC			
Purchase 139 Articulated Buses	Fleet Purchase	Nov- 17	Post 2017	East Side Access			
		\$120.3M	\$120.2M	Manhattan Northern Structures	Construction	Jun- 17 \$361.6M	Post 2017 \$361.6M
Delay due to timing of delivery. All but 8 buses are forecast to be accepted in D Depots		nd accepted. Th	ne remaining	Delay is due to slower than expected co requirements.	ompletion of contract w		
Bus Command Center Construction	Construction	Nov- 17 \$51.4M	Post 2017 \$51.4M	BUS COMPANY			
Delay due to construction issues with a	n elevator and glass cu	tain wall.		Bus Company Projects			
Signals				Bus Command Center - MTA	Construction	Dec- 17	Post 2017
CBTC Flushing Line	Construction	Nov- 17 \$505.2M	Post 2017 \$563.6M	Bus (New Item)		\$17.1M	\$17.1M
Project delayed until 2nd Qtr 2018 due	to recently identified ba	dware and softw	vareissues	Delay due to construction issues with a	n elevator and glass cu	tain wall.	
Mitigation efforts underway to resolve the budget added to the project for force a	nese issues. The higher	forecast reflect	s additional	B&T			
amendment.				MPB / CBB Master Plan & Resiliency Needs (New Item)	Construction	Dec- 17 \$10.0M	Post 2017 \$10.0M
MNR Sandy				Additional time required for structural da	ata collection and traffic	analysis.	
Power Infrastructure Restoration -	Construction	Aug-17	Post 2017				
Substations		\$43.8M	\$44.4M				
The completion date has been pushed schedule. Final commissioning, testing			,				
Power							
Substation Bridge 23 - Construction	Construction	Oct- 17 \$41.7M	Post 2017 \$41.7M				
In order to mitigate risks associated with	n the final cutover of sub h required elements of th	station, unfores	een				

MTA Metropolitan Transportation Authority

roject	Completion	Goal	Actual	Project	Completion	Goal	Actual
All-Agency Yellow Comp	letions (2 new this n	nonth)		LIRR			
	•			Stations			
Sandy				Escalator Replacement Program	Construction	Mar- 17	Apr- 17 (A)
Sandy: Cranberry Tube	Construction	May- 17 \$101.9M	Aug- 17 (A) \$102.9M	An escalator testing issue at Baldwin s	tation caused the delay	\$11.2M	\$11.2M
Delay due to issues encountered o	during signal testing which re	sulted in additio	•	Sandy	Construction		
Sandy: 53rd St Tube	Construction	Apr- 17	Nov- 17 (A)	Wreck Lead Bridge Systems Restoration		Apr- 17 \$14.9M	Sept- 17 (A \$14.9M
Delay due to the the removal of the inspection schedule took longer th		\$92.6M ictor. In addition	\$92.6M , ConEd's	Beneficial use has been delayed due t use scow barges to store dredged mat		•	
Sandy: Joralemon Tube (New Item)	v Construction	Jun- 17 \$113.8M	Dec- 17 (A) \$121.3M				
assenger Stations Station Renewal: 7 Stations New Lots (New Item)	/ Construction	Jun- 17 \$80.7M	Dec- 17 (A) \$97.6M				
Project schedule delayed due to s repairs identified during condition s to additional work such as Canopy	survey prior to award. Project	antity of platfon	m girder d mainly due				
Bus Purchase							
Purchase 138 Standard CNG Buse	Fleet Purchase es	Sep- 17 \$84.9M	Nov- 17 (A) \$84.9M				
All but one of the buses were delive delivered in November.	ered and accepted by Octob	per with the rema	aining bus				
INR							
Grand Central Terminal	Construction						
	Construction	May- 17	Jun- 17 (A)				
GCT Elevator Rehab Phase 4		\$9.6M	\$9.8M				

MTA Capital Program Commitments & Completions Quarterly Report of Prior Years' Delays





Prior Years' Major Commitments – Quarterly Update: December 2017

The status of 2014, 2015 and 2016 major commitments delayed beyond 2016 are tracked until committed and reported to CPOC quarterly.

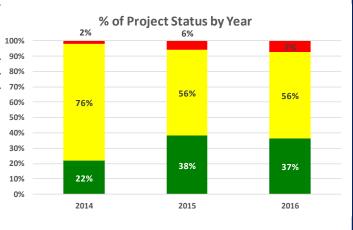
In 2014, agencies set an overall MTA commitments goal of \$6.5 billion including 55 major commitments. In 2014, \$5.8 billion was committed, including 39 major commitments. Of the remaining projects, only one remains uncommitted, NYCT's Rutgers Tube restoration, which has been rescheduled until 2022. To date, \$7.2 billion has been committed against the original \$6.5 billion goal.

In 2015, agencies set an overall MTA commitments goal of \$3.2 billion including 34 major commitments. In 2015, 25 major commitments totaling \$2.9 billion were made. Of the remaining projects, two remain delayed and are forecast for award after 2017. To date, \$3.1 billion has been committed against the original \$3.2 billion goal.

In 2016, agencies set an overall MTA commitments goal of \$6.6 billion including 41 major commitments. In 2016, 27 major commitments totaling \$5.0 billion were made. Fourteen major commitments are now forecast for 2017 and 2018 with eleven achieved in 2017. To date, \$6.3 billion has now been committed.

	Actual					MTA-W	ide Prior	'Years'	Major Co	ommitm	ents					Post
Goal		On	Achieved	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sen-17	Oct-17	Nov-17	Dec-17	2017
Total	130	Time	Late	Jan-17	160-17	Wiai - 17	дрі≞н	way-17	oun-17	5ul=17	Aug−n	06b-11	001-17	100-17	Dec-III	
2014	55	12	41												1	1
2015	34	13	19													2
2016	41	15	12	1	1	2	3	2	1						1	3

This chart tracks when all major commitments are forecast/achieved versus original goal, starting with those that were committed within 2014, 2015 and 2016, followed by those that slipped beyond 2016. Green represents projects that were achieved on-time, yellow represents projects that were delayed but have since been committed, and red represents projects that are still delayed. Projects that are red will become yellow when they are committed.



RED



=Commitments made/forecast within Goal

YELLOW = Commitments delayed beyond Goal (already achieved)

= Commitments delayed beyond Goal (not yet achieved)



Project	Commitment	Goal	Forecast	Project	Commitment	Goal	Foreca
3 All-Agency Red Commitme	ents			NYCT Stations (Continued)			
NYCT				Work Equipment			
Sandy				Work Train & Special Equipment: 54	Purchase Award	Dec-15	Feb-1
Sandy: 148th Yard Long-Term	Construction Award	Nov-15	Jan-18	Flat Cars		\$33.5M	\$34.7
Perimeter Protection & Power Cable	Construction Award	\$135.1M	\$88.8M	Award was initially re-scheduled due t	o funding constraints. A mo	ore recent delay	has beer
Delayed from August to January 2018 agreement which prevents us from ad Esplanade Gardens, concluded and reflecting favorable bid.	lvertising the project. Negot	iations with prop	oerty owner,	caused by the cancellation of the proc to expedite the procurement process	()	ance of alterna	ative strate
				MTA PD			
		0 4 4 9	1 10				
Sandy: 207th Yard Perimeter	Construction Award	Oct-16	Jun-18	Communications			
Protection & Power Cable Delayed from Dec 2017 to June 2018 d	due to the need to redesign	\$222.7M the perimeter w	\$758.3M all to address	Communications Penn Station / Atlantic Tunnel Radio Upgrade	Construction Award	Dec-16 \$25.0M	\$25.0
Protection & Power Cable	due to the need to redesign ferences with a major water repared as a separate proje	\$222.7M the perimeter w main. Also, CP ct with the perin	\$758.3M all to address M is combining neter wall and	Communications Penn Station / Atlantic Tunnel Radio	to ongoing MOU negotiatio	\$25.0M	\$25. ers of the
Protection & Power Cable Delayed from Dec 2017 to June 2018 (a DEP concern, which is to avoid inter the signal and track work which was p portal work to make it all one project. (& Switches.	due to the need to redesign ferences with a major water repared as a separate proje	\$222.7M the perimeter w main. Also, CP ct with the perin ects including S	\$758.3M all to address M is combining neter wall and ignals, Track	Communications Penn Station / Atlantic Tunnel Radio Upgrade The continuing schedule delay is due system as well as for considerations of	to ongoing MOU negotiatio	\$25.0M	\$25.0 ers of the i
Protection & Power Cable Delayed from Dec 2017 to June 2018 (a DEP concern, which is to avoid inter the signal and track work which was p portal work to make it all one project.	due to the need to redesign ferences with a major water repared as a separate proje	\$222.7M the perimeter w main. Also, CP ct with the perin	\$758.3M all to address M is combining neter wall and	Communications Penn Station / Atlantic Tunnel Radio Upgrade The continuing schedule delay is due system as well as for considerations of	to ongoing MOU negotiatio	\$25.0M	
Protection & Power Cable Delayed from Dec 2017 to June 2018 of a DEP concern, which is to avoid inter the signal and track work which was p portal work to make it all one project. Of & Switches. Sandy Repairs: Rutgers and	due to the need to redesign ferences with a major water repared as a separate proje Cost reflects combined proje Construction Award te contracts. The Cranberry e was rescheduled to 2022	\$222.7M the perimeter w main. Also, CP ct with the perin ects including S Jun-14 \$154.0M r tube contract a due to	\$758.3M all to address M is combining heter wall and ignals, Track Feb-22 \$165.0M awarded in	Communications Penn Station / Atlantic Tunnel Radio Upgrade The continuing schedule delay is due system as well as for considerations of	to ongoing MOU negotiatio	\$25.0M	\$25.0 ers of the i
Protection & Power Cable Delayed from Dec 2017 to June 2018 of a DEP concern, which is to avoid inten- the signal and track work which was p portal work to make it all one project. Of & Switches. Sandy Repairs: Rutgers and Cranberry Tubes Award of the tubes is done via separa December 2014 while the Rutgers tub construction sequencing of the tubes	due to the need to redesign ferences with a major water repared as a separate proje Cost reflects combined proje Construction Award te contracts. The Cranberry e was rescheduled to 2022	\$222.7M the perimeter w main. Also, CP ct with the perin ects including S Jun-14 \$154.0M r tube contract a due to	\$758.3M all to address M is combining heter wall and ignals, Track Feb-22 \$165.0M awarded in	Communications Penn Station / Atlantic Tunnel Radio Upgrade The continuing schedule delay is due system as well as for considerations of	to ongoing MOU negotiatio	\$25.0M	\$25.0 ers of the i

Award Schedule delayed to 2018 pending resolution of Real estate issues. Hunter College issues were resolved but the Imperial House issues remain unresolved. Project cost increased due additional scope that resulted in additional architectural, structural, electrical and utility relocation work. The complexity of the utility relocation work and limited-space constraints required multiple construction phasing to keep the street open to both vehicular and pedestrian traffic throughout construction.

MTA Metropolitan Transportation Authority

2 All-Agency Yellow Commitments (2 new this quarter) YVCT (Continued) andy Recovery & Milgation: andy Megation: 7 Stations (8 Sins) Construction Award Soc.3M Sandy Migation: 7 Stations (8 Sins) Construction Award Soc.3M Sandy Migation: Stations (8 Sins) Scope includes Internal Station Hardening. Delayed advertisement resulted in delayed bid pening. Bids received on January 25th. Bids received on January 25th. Bid protest was submitted but denied on 224. Project was anded in April and the cost reflects an favorable bid. Nov-16 Sandy Milgation: Construction Award Nov-16 Sandy Milgation: Stations Construction Award Nov-16 Project was avarded in April Project was avarded in April Provent location were flects full funding for support costs. Not family funder delay to award resulted from coordinating the final award approval from from key stakeholders. Sandy Milgation: S Stations (9 Stms) Construction Award Dec-16 Dec-17 (A) Stations (Wew ttem) Construction Award Stations Stations Renew Five Astoria Line Construction Award Stations Stations </th <th></th> <th></th> <th>2017– Scl</th> <th></th> <th>ances</th> <th>Ас</th> <th>ual Resul</th> <th>lts Shade</th>			2017– Scl		ances	Ас	ual Resul	lts Shade
Protect Power andy Recovery & Miligation: Stations (S Strature (S Strature) Construction Award May-16 Apr-17 (A) Standy Migation: Stations (S Strature) Construction Award Sto.2M Sto.2M Sto.2M Scope includes inmani Station Hardening. Delayed advertisement resulted in delayed bid Project awarded in January and reflects an infavorable bid IIIR Stations Construction Award Nov-16 Apr-17 (A) Scope includes infavorable bid. Nov-16 Apr-17 (A) Stations Construction Award Nov-16 Apr-17 (A) Stations Stations Stations Nov-16 Apr-17 (A) Stations Construction Award Sto.75 Sto.0M Sto.0M BVG Initiative) Construction Award Sto.0	Project	Commitment	Goal	Actual	Project	Commitment	Goal	Actual
andy Recovery & Mitigation: Stations (8 Stins May-16 Apr-17 (A) Sandy Mitigation: Construction Award \$56.3M \$47.7M Scope Includes Internal Station Hardening. Deleyed advertisement resulted in delayed bid Project awarded in January and reflects an unfavorable bid Scope Includes Internal Station Hardening. Deleyed advertisement resulted in delayed bid IRR Stations Stations Nov-16 Apr-17 (A) Sandy Canarsie Tube Restoration & Construction Award Nov-16 Apr-17 (A) Stations Stations Nov-16 Apr-17 (A) Sandy Mitigation: Stations (B Stations (B Stins Construction Award Nov-16 Apr-17 (A) Stations Stations (B Stins Construction Award Stations Nov-16 Apr-17 (A) Stations (B Stins Construction Award Jun-16 Mar-17 (A) Nostrand Avenue Station Construction Award Stations Stations (B Stins (B St	2 All-Agency Yellow Commi	itments (2 new this	quarter)		NYCT (Continued)			
Sandy Minguion: 7 Statuons (6 Stns Construction Award May-16 Apri-17 (A) Socie Includes Internal Station Hardening. Delayed advertisement resulted in falleyed bid opening. Bids received on January 25th. Bid protest was submitted but denied on 2/24. Project awarded in April and the cost reflects an favorable bid. Project awarded in January and reflects an unfavorable bid. Project awarded in January and reflects an unfavorable bid. Sandy Canarsie Tube Restoration & Construction Award Nov-16 Apri-17 (A) Stations Sandy Canarsie Tube Restoration & Construction Award Nov-16 Apri-17 (A) Stations Core Capacity Improvements Construction Award Nov-16 Apri-17 (A) Project was delayed seeking Board approval for the award. Board has approved and the project cost now reflects full funding for support costs. Nov-16 Mar-17 (A) Sandy Mitigation: 9 Stations (9 Stns Construction Award Jun-16 Mar-17 (A) Stations Stations (9 Stns Construction Award Stor.0 Stor.0 Stations (New Item) Construction Award Dec-16 Dec-17 (A) Stations (New Item) Construction Award Stor.0 Stor.0 Stor.0 Project was delayed due to additional scope including work related to severe at the construction Award Dec-16 Dec-16	YCT				Power			
Sandy Mingaton, P status Construction Award Nev-16 Apr-17 (A) WMCPX initiative) Sec. SM Sec. SM Sec. SM Scope includes itemal Station Hardening. Delayed advertisement resulted in delayed bid opening. Bids received on January 25th. Bid protest was submitted but denied on 2/24. Project awarded in January and reflects an unfavorable bid Sandy Mingaton, P stations (6 Stins) Construction Award Nov-16 Apr-17 (A) Sandy Canarsie Tube Restoration & Construction Award Nov-16 Apr-17 (A) Sea.33 Sandy Mingaton, P stations (9 Stins) Construction Award Jun-16 Mar-17 (A) Stations Stations Stations Nov-16 Jun-17 Stations (9 Stins) Construction Award Jun-16 Mar-17 (A) Nov-16 Jun-17 Stations Stations Stations Stations Mink Track Renew Five Astoria Line Construction Award Stations (Mex tot) Stations (Mex tot) Stations (Mex tot) Stations (New Item) Construction Award Stations (Mex tot) Stations (Mex tot) Stations Project cost initially increased due to additional scope including work related to savere structuriad detaige tany defasition structura detaign advertisement beavid					Power Ungrade: RCC_PCC	Construction Award	Jul-16	Jan-17 (A
Scope includes internal Station Hardening. Delayed advertisement resulted in delayed bid Project wanded in April and the cost reflects an favorable bid. Sandy Canarsie Tube Restoration & Construction Award \$883.3M \$674.6M Project was delayed seeking Board approval for the award. Board has approved and the project was avarded in April. Project cost now reflects fullfunding for support costs. Sandy Miligation: 9 Stations (9 Stris Construction Award \$100.7M \$52.8M Bridon advented in April and the cost field bid additional time required for design phase drawing, spec and contract document approval. Tack Project cost initially increased due to additional scope including work related to severe struction. The project schedule sipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Minative and will be reported in ESI Program. The final station was awarded seperately from ESI Package #2 and received a good bid. ADA: Phase 2; 57 Street - 7 Ave / Broadway (New teem) Nov-14 Stations (New teem) Dec-16 May-17 (A) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortla, and estimation ward was delayed due to a assumated in March 207. Due to a nutworable bid the contract was re-bid; an award was executed in March 207. Due to a nutworable bid the contract was re-bid; an award was executed in March 207. Due to a nutworable bid the contract was re-bid; an award was executed in March 207. Due to a nutworable bid the contract was re-bid; an award was executed in March 207. Due to a nutworable bid the contract was re-bid; an award was executed in March		Construction Award	•	• • • •			\$50.2M	\$55.5M
opening. Bids received on January 25th. Bid profest was submitted but denied on 2/24. LIRR Project awarded in April and the cost reflects an favorable bid. Sandy Canarsie Tube Restoration & Construction Award S88.3M \$674.6M Sandy Canarsie Tube Restoration & Construction Award So and y Construction Award S88.3M \$674.6M Project was awarded in April. Project cost now reflects full flunding for support costs. Not-16 Mar-17 (A) \$100.7M \$52.8M Sandy Miligation: 9 Stations (9 Stns Construction Award \$100.7M \$52.8M Mar-17 (A) \$100.7M \$52.8M BK/Q Initiative) Sonstruction Award \$100.7M \$52.8M Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Dec-16 Dec-17 (A) \$15.0M Tations Decist a protect as available of unitable in the design advertisement because the aported in ESI program. The final station was awarded seperately from ESI Package #2 and the ESI program. The final station was awarded seperately from ESI Package #2 and the Esign of the radio communications was delayed fue to radio coverage issues therefor delaying the instaliation construction Award \$257.5J ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Nov-14 Dec-17 (A) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget in the viscinity and a mark maker subardio ADA Access; re- design for dust; an award was executed in March \$2017. Due to an unfavorable bid the construction award was delayed untif February 2017. Actual communications were com	,	ning Doloved education			Project awarded in January and re	effects an untavorable bid		
Sandy Canarsie Tube Restoration & Construction Award Nov-16 Sta3.3M Apr-17 (A) Sta3.3M Nostrand Avenue Station Nostrand Avenue Station Nov-16 Construction Award Jun-17 Sta1.0M Sta7.3D Sandy Canarsie Tube Restoration & Core Capacity Improvements Construction Award Sta7.46M Track	opening. Bids received on January 2	5th. Bid protest was submit						
Sandy Canarsie Tube Restoration & Construction Award \$883.3M \$674.6M Nostrand Avenue Station Construction Award \$21.0M \$15.7T Project was delayed seeking Board approval for the award. Board has approved and the project was awarded in April. Project cost now reflects full funding for support costs. The project was initially delayed due to an extended design process prior to advertisement. further delay to award resulted from coordinating the final award approval from from key stakeholders. Sandy Mitigation: 9 Stations (9 Stns Construction Award Jun-16 Mar-17 (A) Stations Stations (9 Stns Construction Award S100.7M \$52.8M Renew Five Astoria Line Construction Award Dec-16 Dec-17 (A) Stations (New Item) Construction Award \$71.5M \$22.3M Project cost initially increased due to additional scope including work related to severe four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be repointed in ESI program. The final station was awarded separately from ESI Package #2 and received a good bid. Nov-14 Dec-17 (A) Signals & Communications Signals & Communications ADA: Phase 2: 57 Street - 7 Construction Award \$13.1M \$85.1M Se5.1M Awarded in December after prior delays primarily caused by the need to address a budget shontal, a neewiting change in the design scheme.			Nov-16	Apr-17 (A)			Nov-16	Jun-17 (A
Project was delayed seeking Board approval for the award. Board has approved and the project was awarded in April. Project cost now reflects full funding for support costs. The project was delayed due to an extended design process prior to advertisement. further delay to award resulted from coordinating the final award approval from key stakeholders. Sandy Mitigation: 9 Stations (9 Stns Construction Award Jun-16 Mar-17 (A) \$100.7M \$52.8M BK/Q Initiative) Stations (9 Stns Construction Award \$100.7M \$52.8M Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Dec-16 Dec-17 (A) \$15.0M \$10.0I tations Construction Award Dec-16 Dec-17 (A) \$22.3M Signals & Communications Signals & Communications Project cost initially increased due to additional scope including work related to severe four of the stations were combined into package #2 of the Enhanced Stations initiative and will be reported in ESI program. The final station was awarded separately from ESI Package #2 and received a good bid. Signals & Construction Award \$25.7 Street - 7 Ave / Broadway (New Item) Nov-14 Dec-17 (A) \$315.1M Signals \$210.0L Aba: P hase 2: 57 Street - 7 Construction Award \$135.1M Se5.1M Positive Train Control Construction Award \$46.3M Sec-16 May-17 Ave / Broadway (N		Construction Award	\$883.3M	• • • •	Nostrand Avenue Station	Construction Award	\$21.0M	\$15.7M
project was awarded in April. Project cost now reflects full funding for support costs. stakeholders. Sandy Mitigation: 9 Stations (9 Stns Construction Award Jun-16 Mar-17 (A) BK/Q Initiative) Stations (9 Stns Construction Award Stational time required for design phase drawing, spec and contract document approvals. MNR Track Rock Slope Remediation (West of tests full funding for support costs. MNR Track Rock Slope Remediation (West of construction Award \$15.0M\$ \$10.0T tations Dec-16 Dec-17 (A) Stations (New Item) Construction Award \$71.5M\$ \$22.3M Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for construction. Signals & Communications Dec-16 May-17 Signals & Communications Dec-16 May-17 Softile ratio station was awarded seperately from ESI Program. The final station was awarded seperately from ESI Program. The final station was awarded seperately from Si Si Si Si M Statish Si Si M ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) Station in the viscinity and a resulting change in the design scheme. Nov-14 Dec-17 (A) Ave / Broadway (New Item) Construction Awar	cole capacity improvements				The project was initially delayed du	ue to an extended design proce	ss prior to adve	ertisement. A
Sandy Mitigation: 9 Stations (9 Straid of Struction Award BK/Q Initiative) \$100.7M \$52.8M MNR Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Track Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. MNR Tations Renew Five Astoria Line Dec-16 Dec-17 (A) Stations (New Item) Construction Award \$71.5M \$22.3M Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations hitiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications was delayed due to radio coverage issues therefor delaying the installation construction which was rescheduled to be awarded in March 2017. Due to an unfavorable bid the contract was re-bid; an award was executed in March 2017. Due to an unfavorable bid the contract was re-bid; an award was edelayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for struction Award \$45.3M ADA: Phase 2: 57 Street - 7 Construction Award \$135.1M Stro.1M Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfail, a need						n coordinating the final award a	pproval from fro	omkey
BK/Q initiative) \$100.7M \$52.8M MNR Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Track Track Track Renew Five Astoria Line Dec-16 Dec-17 (A) Stations (New Item) Construction Award Dec-16 Dec-17 (A) Stations (New Item) Construction Award Dec-16 Dec-17 (A) Project cost initially increased due to additional scope including work related to severe fur of the stations were combined into package #2 of the Enhanced Stations linitiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications was delayed due to radio coverage issues therefore delaying the installation construction Award \$57.51 ADA: Phase 2: 57 Street - 7 Construction Award \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-16 May-17 Due to a protracted procurement the construction award was delayed until February 2017. Actual comminent is lower than the forecasted due to a favorable bid the contract was re-bid; an award was executed in March 2017. Due to an unfavorable bid the contract was re-bid; an award was executed in May-17 <td>Candy Mitigations O Stations (0 Star</td> <td>Construction Award</td> <td>Jun-16</td> <td>Mar-17 (A)</td> <td></td> <td></td> <td></td> <td></td>	Candy Mitigations O Stations (0 Star	Construction Award	Jun-16	Mar-17 (A)				
Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Track Delay in advertisement postponed the award. This was the result of additional time required for design phase drawing, spec and contract document approvals. Construction Award Dec-16 Feb-17 (A) tations Renew Five Astoria Line Dec-16 Dec-17 (A) Stations (New Item) Construction Award Stations (New Item) Stations work related to severe structural deterioration. Signals & Communications Project cost initially increased due to additional scope including work related to severe structural deterioration. Signals & Communications Dec-16 May-17 Signals & Communications Positive Train Control Construction Award Dec-16 May-17 ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) Station shitiative and will be reported in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Dec-16 May-17 Auarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing A	, , , , , , , , , , , , , , , , , , ,	Construction Award	\$100.7M	\$52.8M	MNR			
design phase drawing, spec and contract document approvals. Itations Itations Renew Five Astoria Line Stations (New Item) Construction Award Dec-16 \$71.5M Dec-17 (A) \$71.5M Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for construction. Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications Signals & Communications ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Construction Award Nov-14 \$135.1M Dec-17 (A) \$135.1M Positive Train Control Construction Award Dec-16 May-17 Positive Train Control Construction Award Dec-16 May-17 May-17 Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an altematives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for					Track			
tations \$15.0M \$10.0T Itations Construction Award Dec-16 Dec-17 (A) Stations (New Item) Construction Award \$71.5M \$22.3M Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) Ave / Broadway (New Item) Construction Award Nov-14 Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-16 May-17 Actual commitment is lower than the forecasted due to a favorable low competitive bid for Signals & Communications Dec-16 May-17 Stations (New Item) Construction Award Nov-14 Dec-17 (A) Station construction ward was eleayed until rebruary 207 Actual commitment is lower than the forecasted due to a favorable bid to be awarded in May-17 Station Construction Award De			of additional tir	me required for	Rock Slope Remediation (West of	Construction Award	Dec-16	Feb-17 (A
Renew Five Astoria Line Stations (New Item) Construction Award Dec-16 \$71.5M Dec-17 (A) \$22.3M Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Construction Award Nov-14 \$135.1M Dec-17 (A) \$135.1M Nov-14 \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an altematives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 bec.17 (A) \$45.3M Dec-16 May-17 \$45.3M May-17 \$45.3M	design phase drawing spec and cont	tract document approvals.						
Stations (New Item) Construction Award \$71.5M \$22.3M construction. Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Signals & Communications Construction Award Dec-16 May-17 ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Nov-14 Dec-17 (A) \$135.1M Dec-17 (A) \$135.1M Positive Train Control Construction Award Dec-16 May-17 Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an altematives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-17 (A) \$45.3M Sa4.8I	abolgi priace alaming, opeo alla com				Hudson)	Construction Award	\$15.0M	\$10.0M
Stations (New Item) \$71.5M \$22.3M construction. Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations litiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Construction Award Dec-16 May-17 ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) The design of the radio communications was delayed due to radio coverage issues therefore delaying the installation construction which was rescheduled to be awarded in March 2017. Due to an unfavorable bid the contract was re-bid; an award was executed in May 2017. Ave / Broadway (New Item) Nov-14 Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. May-17 Stations Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for					,			• • •
Project cost initially increased due to additional scope including work related to severe structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Construction Award Dec-16 May-17 ADA: Phase 2: 57 Street - 7 Nov-14 Dec-17 (A) The design of the radio communications was delayed due to radio coverage issues therefore delaying the installation construction which which was rescheduled to be awarded in March 2017. Due to an unfavorable bid the contract was re-bid; an award was executed in May 2014 Ave / Broadway (New Item) Nov-14 Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. May-17 Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line		Dec-16	Dec-17 (A)	Due to a protracted procurement t	he construction award was dela	yed until Febr	uary 2017.
structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Positive Train Control Structural deterioration. The project schedule slipped due to a delay in advertisement because four of the stations were combined into package #2 of the Enhanced Stations Initiative and will be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. Positive Train Control Structural deterioration. The project schedule specific provide to be awarded in March 2017. Due to an unfavorable bid the contract was re-bid; an award was executed in May 2014. ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) Ave / Broadway (New Item) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line			. ,	Due to a protracted procurement t Actual commitment is lower than t	he construction award was dela	yed until Febr	uary 2017.
ADA: Phase 2: 57 Street - 7 Construction Award Nov-14 Dec-17 (A) AVe / Broadway (New Item) Nov-14 Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts Nov-14 Dec-17 (A) Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts Nov-14 Dec-16 May-17 Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line Stations (New Item)	Construction Award	\$71.5M	\$22.3M	Due to a protracted procurement t Actual commitment is lower than t construction.	he construction award was dela	yed until Febr	uary 2017.
be reported in ESI program. The final station was awarded seperately from ESI Package #2 and received a good bid. ADA: Phase 2: 57 Street - 7 ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Nov-14 Dec-17 (A) \$135.1M \$85.1M Positive Train Control Construction Award Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. The design of the radio communications was delayed due to radio coverage issues therefore delaying the installation construction which which was rescheduled to be awarded in March 2017. Due to an unfavorable bid the construction Award Dec-16 May-17 \$45.3M \$34.8P Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a	Construction Award	\$71.5M work related to s	\$22.3M	Due to a protracted procurement t Actual commitment is lower than t construction. Signals & Communications	he construction award was dela he forecasted due to a favorable	ayed until Febru e low competit	uary 2017.
ADA: Phase 2: 57 Street - 7 Nov-14 Dec-17 (A) AVe / Broadway (New Item) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-17 (A) December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	ations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so	Construction Award additional scope including	\$71.5M work related to selay in advertise	\$22.3M severe ement because	Due to a protracted procurement t Actual commitment is lower than t construction. Signals & Communications	he construction award was dela he forecasted due to a favorable	ayed until Febri e low competit Dec-16	uary 2017. ive bid for May-17 (
ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Construction Award Nov-14 Dec-17 (A) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-17 (A) Dec.17 (A) \$135.1M \$85.1M Positive Train Control Construction Award Dec-16 May-17 \$45.3M \$34.8I Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int	Construction Award additional scope including chedule slipped due to a de o package #2 of the Enhan	\$71.5M work related to s alay in advertise ced Stations In	\$22.3M severe ement because itiative and will	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control	he construction award was dela he forecasted due to a favorable Construction Award	e low competit Dec-16 \$57.0M	uary 2017. ive bid for May-17 (<i>.</i> \$57.5M
ADA: Phase 2: 57 Street - 7 Nov-14 Dec-17 (A) Ave / Broadway (New Item) \$135.1M \$85.1M Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Nov-14 Dec-17 (A) Book of the prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts Positive Train Control Construction Award Dec-16 May-17 Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	ations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s	Construction Award additional scope including chedule slipped due to a de o package #2 of the Enhan	\$71.5M work related to s alay in advertise ced Stations In	\$22.3M severe ement because itiative and will	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communic	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio	e low competit Dec-16 \$57.0M	uary 2017. ive bid for May-17 (\$57.5M
Ave / Broadway (New Item) \$135.1M \$85.1M Positive Train Control Dec-16 May-17 Awarded in December after prior delays primarily caused by the need to address a budget shortfall, a need to address an alternatives study for providing ADA Access, re- design for ducts in the viscinity and a resulting change in the design scheme. Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	ations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s	Construction Award additional scope including chedule slipped due to a de o package #2 of the Enhan	\$71.5M work related to s alay in advertise ced Stations In	\$22.3M severe ement because itiative and will ackage #2 and	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communico delaying the installation construct	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule	Dec-16 \$57.0M coverage issued to be award	uary 2017. ive bid for May-17 (\$57.5M ues therefore ed in March
Awarded in December after prior delays primarily caused by the need to address a budget \$45.3M \$34.8I Awarded in December after prior delays primarily caused by the need to address a budget budget budget shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts budget budget in the viscinity and a resulting change in the design scheme. budget budget Actual commitment is lower than the forecasted due to a favorable low competitive bid for budget	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s received a good bid. ADA: Phase 2: 57 Street - 7	Construction Award additional scope including of chedule slipped due to a de o package #2 of the Enhan station was awarded sepera	\$71.5M work related to s elay in advertise ced Stations In ately from ESI Pa	\$22.3M severe ement because itiative and will ackage #2 and	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communico delaying the installation construct	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule	Dec-16 \$57.0M coverage issued to be award	uary 2017. ive bid for May-17 (<i>J</i> \$57.5M ues therefore ed in March d in May 2017
shortfall, a need to address an alternatives study for providing ADA Access, re-design for ducts in the viscinity and a resulting change in the design scheme. Due to a protracted procurement the construction award was delayed until February 2017. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s received a good bid. ADA: Phase 2: 57 Street - 7	Construction Award additional scope including of chedule slipped due to a de o package #2 of the Enhan station was awarded sepera	\$71.5M work related to selay in advertise iced Stations In ately from ESI Pa Nov-14	\$22.3M severe ement because itiative and will ackage #2 and Dec-17 (A)	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communic delaying the installation construct 2017. Due to an unfavorable bid the	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule ie contract was re-bid; an award	Dec-16 \$57.0M coverage issued to be award	May-17 (\$57.5W wes therefore ed in March
in the viscinity and a resulting change in the design scheme. Actual commitment is lower than the forecasted due to a favorable low competitive bid for	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s received a good bid. ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item)	Construction Award additional scope including to chedule slipped due to a de o package #2 of the Enhan station was awarded sepera Construction Award	\$71.5M work related to selay in advertise icced Stations In ately from ESI Pa Nov-14 \$135.1M	\$22.3M severe ement because itiative and will ackage #2 and Dec-17 (A) \$85.1M	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communic delaying the installation construct 2017. Due to an unfavorable bid the	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule ie contract was re-bid; an award	Dec-16 \$57.0M coverage issued to be award d was executed Dec-16	May-17 (\$57.5M Way-17 (\$57.5M Way-17 (May-17 (
	Avarded in December after prior delay	Construction Award additional scope including chedule slipped due to a de o package #2 of the Enhan station was awarded sepera Construction Award ys primarily caused by the n	\$71.5M work related to selay in advertise ced Stations In ately from ESIPa Nov-14 \$135.1M eed to address	\$22.3M severe ement because itiative and will ackage #2 and Dec-17 (A) \$85.1M	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communic delaying the installation construct 2017. Due to an unfavorable bid the Positive Train Control	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule te contract was re-bid; an award Construction Award	Dec-16 \$57.0M coverage issued to be award d was executed Dec-16 \$45.3M	May-17 (\$57.5M Wes therefore ed in March d in May 2011 May-17 (\$34.8M
	tations Renew Five Astoria Line Stations (New Item) Project cost initially increased due to a structural deterioration. The project so four of the stations were combined int be reported in ESI program. The final s received a good bid. ADA: Phase 2: 57 Street - 7 Ave / Broadway (New Item) Awarded in December after prior delay shortfall, a need to address an alterna	Construction Award additional scope including chedule slipped due to a de o package #2 of the Enhan station was awarded sepera Construction Award ys primarily caused by the n itives study for providing AD	\$71.5M work related to selay in advertise ced Stations In ately from ESIPa Nov-14 \$135.1M eed to address	\$22.3M severe ement because itiative and will ackage #2 and Dec-17 (A) \$85.1M	Due to a protracted procurement to Actual commitment is lower than to construction. Signals & Communications Positive Train Control The design of the radio communic delaying the installation construct 2017. Due to an unfavorable bid the Positive Train Control Due to a protracted procurement to	he construction award was dela he forecasted due to a favorable Construction Award ations was delayed due to radio ion which which was reschedule te contract was re-bid; an award Construction Award he construction award was dela	Dec-16 \$57.0M coverage issued to be award d was executed Dec-16 \$45.3M	uary 2017. ive bid for May-17 (<i>i</i> \$57.5W ues therefore ed in March d in May 2017 May-17 (<i>i</i> \$34.8W uary 2017.



nor rear major commiti	nents – December 2	2017– Sch	edule Vari
Project	Commitment	Goal	Forecast
NTACC			
East Side Access			
Mid-Day Storage Yard - CQ033	Construction Award	Nov-16	Apr-17 (A)
Mid-Day Storage Faid - CQ055	Construction Award	\$266.0M	\$302.7M
million which could be exercised at a	ı later date.		
	Construction Award	Dec-16 \$17.0M	Mar-17 (A) \$19.4M



Prior Years' Major Completions – Quarterly Update: December 2017

The status of 2014, 2015 and 2016 major completions delayed beyond 2016 are tracked until achieved and are reported to CPOC quarterly.

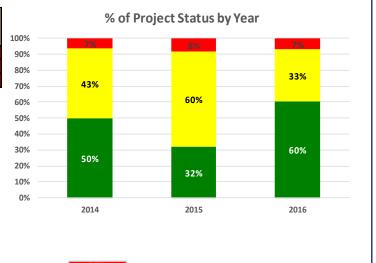
In 2014, agencies set an overall MTA completions goal of \$5.7 billion including 46 major completions. In 2014, \$4.5 billion was completed, including 28 major completions. Of the remaining projects, three are forecast for completion in 2018. To date, \$6.4 billion has been completed against the original \$5.7 billion goal.

In 2015, agencies set an overall MTA completions goal of \$2.6 billion including 25 major completions. In 2015, 19 major completions totaling \$2.1 billion were made. Of the remaining projects, two remain delayed and are forecast for completion in 2018. To date, \$2.2 billion has been completed against the original \$2.6 billion goal.

In 2016, agencies set an overall MTA completions goal of \$4.6 billion including 43 major completions. In 2016, 36 major completions were made including several MTACC contracts associated with 2nd Ave Subway Phase 1 which achieved beneficial use in December 2016. Five more projects were completed in 2017 and two are now delayed until 2018. To date, over \$4.2 billion has been completed.

	Actual	MTA-Wide Prior Years' Major Completions									Post					
Goal Total	114	On Time	Achieved Late	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	2017
2014	46	23	20													3
2015	25	8	15													2
2016	43	26	10	1	1		1		1						1	2

This chart tracks when all major completions are forecast/achieved versus original goal, starting with those that were completed within 2014, 2015 and 2016, followed by those that slipped beyond 2016. Green represents projects that were achieved on-time, yellow represents projects that were delayed but have since been completed, and red represents projects that are still delayed. Projects that are red will become yellow when completed.



GREEN =C

=Completions made/forecast within Goal

YELLOW = Completions delayed beyond Goal (already completed)

RED = Completions delayed beyond Goal (not yet achieved)



Project	Completion	Goal	Forecast	Project	Completion	Goal	Forecas
7 All-Agency Red Completi	ions			MTACC			
NYCT				East Side Access			
Depots / Rolling Stock				Plaza Substation and Structures	Construction Completion	Aug-16	Apr-18
AVLM: Paratransit - 2,273 Vehicle	Purchase	Dec-14	Sep-18	(CQ032)	construction completion	\$250.2M	\$257.7N
		\$35.8M	\$37.0M	Original delay due to additional Con	Ed utility work at the yard service	es building Th	ne more
				recent delay is due to final work item		0	
As the software design-build comm fully adequate. MTA-IT has manda							
new operating system. The substar			0	GCT Councourse Finishes Early Wor	rk Construction Completion	Apr-14	Feb-18
deployment of new servers with the					·	\$56.7M	\$58.0M
by \$2 million both due to pre-wiring	an additional 433 Paratransit ve	ehicles.					
				Delay have been caused by SCADA		• •	•
Signals and Communications			D 40	delivery of the medium voltage switc	0 / /	,	•
PA/CIS at 45 Stations - Install Cable	e Construction Completion	Dec-15	Dec-18	productivity and additional time requ			
	Construction Completion	* -* · · ·	* -* · · ·	adreement is being negotiated after	r which substantial completion		
Project delayed to 2018 due to slow other safety sensitive projects.		\$56.1M ces were diver	\$56.1M ted to address	agreement is being negotiated, afte	r which substantial completion	will be issued.	
other safety sensitive projects. LIRR Signals and Communications		ces were diver	ted to address	agreement is being negotiated, afte	r which substantial completion	will be issued.	
other safety sensitive projects.			·	agreement is being negotiated, afte	r which substantial completion	wii de issued.	
other safety sensitive projects. LIRR Signals and Communications	w progress of work. In-house for Construction Completion	Jun-15 \$12.9M	May-18 \$12.9M	agreement is being negotiated, afte	r which substantial completion	will be issued.	
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re- evaluation of the	w progress of work. In-house for Construction Completion	Jun-15 \$12.9M	May-18 \$12.9M	agreement is being negotiated, afte	r which substantial completion	will be issued.	
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re- evaluation of the the Theater is necessary.	w progress of work. In-house for Construction Completion Theater Operations, it was dete	Jun-15 \$12.9M	May-18 \$12.9M	agreement is being negotiated, afte	r which substantial completion	wiii de issued.	
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re-evaluation of the the Theater is necessary. Power	w progress of work. In-house for Construction Completion	Jun-15 \$12.9M srmined that a	May-18 \$12.9M re-design of	agreement is being negotiated, afte	r which substantial completion	wii de issued.	
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re-evaluation of the the Theater is necessary. Power	v progress of work. In-house for Construction Completion Theater Operations, it was dete Construction Completion	Jun-15 \$12.9M ermined that a	May-18 \$12.9M re-design of Feb-18	agreement is being negotiated, afte	r which substantial completion		
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re-evaluation of the the Theater is necessary. Power F Circuit Breaker House Project on-hold pending power loa	v progress of work. In-house for Construction Completion Theater Operations, it was dete Construction Completion	Jun-15 \$12.9M ermined that a	May-18 \$12.9M re-design of Feb-18	agreement is being negotiated, afte	r which substantial completion	wii de issued.	
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re- evaluation of the the Theater is necessary. Power F Circuit Breaker House	v progress of work. In-house for Construction Completion Theater Operations, it was dete Construction Completion	Jun-15 \$12.9M ermined that a	May-18 \$12.9M re-design of Feb-18	agreement is being negotiated, afte	r which substantial completion		
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re- evaluation of the the Theater is necessary. Power F Circuit Breaker House Project on- hold pending power loa MNR	v progress of work. In-house for Construction Completion Theater Operations, it was dete Construction Completion ad study.	Jun-15 \$12.9M ermined that a	May-18 \$12.9M re-design of Feb-18	agreement is being negotiated, afte	r which substantial completion		
other safety sensitive projects. LIRR Signals and Communications Centralized Traffic Control As a result of a re- evaluation of the the Theater is necessary. Power F Circuit Breaker House Project on- hold pending power loa MNR Grand Central Terminal	v progress of work. In-house for Construction Completion Theater Operations, it was dete Construction Completion	Jun-15 \$12.9M ermined that a Oct-14 \$7.2M	May-18 \$12.9M re-design of Feb-18 \$7.2M	agreement is being negotiated, afte	r which substantial completion		



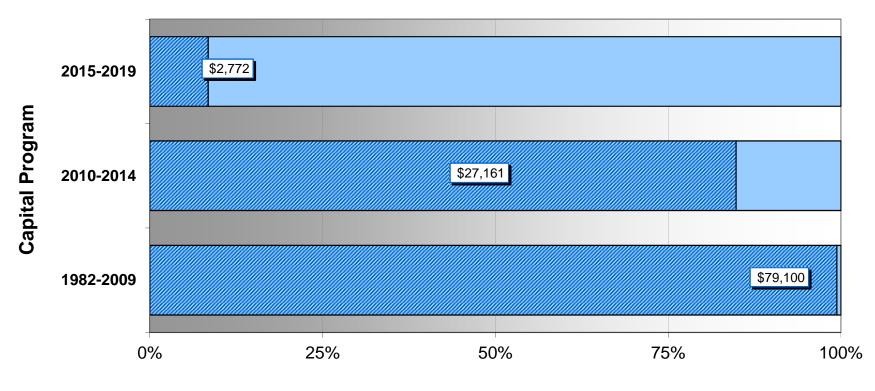
Project	Completion	Goal	Actual
5 All-Agency Yellow Com			
NYCT			
Stations			
ADA & Station Renewal at	Construction Completion	Aug-16	Dec-17 (A)
Ozone Park- Lefferts Blvd/ L (New Item)	.IB	\$23.9M	\$27.6M
The most recent delay was due to			
contractor had submitted a time e due Gutter Support Design Modifi		d by NYCT. Ear	lier delays were
Replace 11 Hydraulic Elevators	Construction Completion	Aug-16	Feb-17 (A)
Project completed in February aft	er previous delays caused by ur	\$24.M	\$24.1M
issues with obtaining needed Ger		noiseen neid c	onutions and
SIR: Station Construction Arthur K	(ill Construction Completion	Aug-16	Jun-17 (A)
		\$23.2M	\$25.3M
Project completed. The current de			
Stations which will be replaced by weekend GOs. Substantial Comp			
increase due to increased project		scomplete. Pi	0,0010031
Track 2016 Annual Track Program		Dec-16	Jan-17 (A)
2010/tillidal Haoki Toglalli	Construction Completion	\$17.6M	\$17.6M
Completion delayed due to Decer	mber snowstorm that prevented		
crossing.			
MTA Bus			
Bus Company Projects		0	
Bus Company Projects Security Upgrades - Rockaway as	nd Construction Completion	Sep-16	Apr-17 (A)
Bus Company Projects	nd Construction Completion	Sep-16 \$9.9M	Apr-17 (A) \$9.9M
Bus Company Projects Security Upgrades - Rockaway as		\$9.9M	• • • •
Bus Company Projects Security Upgrades - Rockaway an Baisley Park		\$9.9M	• • • •
Bus Company Projects Security Upgrades - Rockaway an Baisley Park		\$9.9M	• • • •
us Company Projects Security Upgrades - Rockaway ar Baisley Park		\$9.9M	• •

Master Page #

Status of MTA Capital Program Funding



Capital Funding (December 2017) \$ in millions



Received Remainder

Capital Funding Detail (December 31, 2017)

	\$ in millions			
	Funding Plan		Receipts	
	<u>Current</u>	<u>Thru November</u>	<u>This month</u>	Received to date
1992-1999 Program	18,099	18,099	-	18,099
2000-2004 Program	21,691	21,691	-	21,691
2005-2009 Program	24,390	23,920	-	23,920

	Funding Plan		Receipts	
2010-2014 Program	<u>Current</u>	<u>Thru November</u>	<u>This month</u>	Received to date
Federal Formula, Flexible, Misc	\$5,544	\$5,544	\$ -	\$5,544
Federal High Speed Rail	295	295	-	295
Federal Security	1,257			
Federal New Start	189	100	-	100
Federal RIFF Loan	-	-	-	-
City Capital Funds	729	607	-	607
State Assistance	770	400	-	400
MTA Bus Federal and City Match	132	108	-	108
MTA Bonds (Payroll Mobility Tax)	11,772	11,675	-	11,675
Other (Including Operating to Capital)	1,743	1,479	-	1,479
B&T Bonds	2,018	2,018	-	2,018
Hurricane Sandy Recovery				
Insurance Proceeds/Federal Reimbursement	6,343	4,727	-	4,727
PAYGO	235	81	-	81
Sandy Recovery MTA Bonds	758	2	-	2
Sandy Recovery B&T Bonds	230	124	-	124
Total	32,015	27,161	-	27,161

	Funding Plan		Receipts	
2015-2019 Program	<u>Current</u>	<u>Thru November</u>	<u>This month</u>	Received to date
Federal Formula, Flexible, Misc	\$6,956	\$1,030	\$ -	\$1,030
Federal Core Capacity	100	-	-	-
Federal New Start	500	-	-	-
State Assistance	8,466	65	-	65
City Capital Funds	2,492	214	57	271
MTA Bonds	7,907	12	-	12
Asset Sales/Leases	600	-	-	-
Pay-as-you-go (PAYGO)	2,270	1,094	-	1,094
Other	575	36	-	36
B&T Bonds & PAYGO	2,940	264	-	264
Total	32,806	2,715	57	2,772