# Capital Program Oversight Committee Meeting

## November 2016

#### **Committee Members**

- T. Prendergast, Chair
- F. Ferrer
- S. Metzger
- J. Molloy
- M. Pally
- J. Samuelsen
- L. Schwartz
- P. Trottenberg
- J. Vitiello
- P. Ward
- C. Wortendyke
- N. Zuckerman

#### **Capital Program Oversight Committee Meeting**

2 Broadway, 20th Floor Board Room New York, NY 10004 Monday, 11/14/2016 1:45 - 2:45 PM ET

#### 1. PUBLIC COMMENTS PERIOD

#### 2. APPROVAL OF MINUTES OCTOBER 26, 2016

- Minutes from October '16 - Page 3

#### 3. COMMITTEE WORK PLAN

- 2016-2017 CPOC Committee Work Plan - Page 6

### 4. MTACC MONTHLY SECOND AVENUE SUBWAY UPDATE (materials to be distributed at meeting)

#### 5. MTA NEW FARE PAYMENT SYSTEM UPDATE

- New Fare Payment System Update Page 8
- IEC Project Review on New Fare Payment System Page 19

#### **6. NYCT CAPITAL PROGRAM UPDATE**

- Progress Report on Stations Division Page 24
- IEC Project Review on Sea Beach Line Renewal Project Page 55

#### 7. CAPITAL PROGRAM STATUS

- Commitments, Completions, and Funding Report - Page 59

#### 8. EXECUTIVE SESSION

## MINUTES OF MEETING MTA CAPITAL PROGRAM OVERSIGHT COMMITTEE October 26, 2016

New York, New York 1:15 P.M.

#### MTA CPOC members present:

Hon. Thomas Prendergast

Hon. Fernando Ferrer

Hon. Susan Metzger

Hon. John Molloy

Hon. Mitchell Pally

Hon. Carl Wortendyke

Hon. Neal Zuckerman

#### MTA CPOC members not present:

Hon. John Samuelsen

Hon. Lawrence Schwartz

Hon. Polly Trottenberg

Hon. James Vitiello

Hon. Peter Ward

#### MTA Board members present:

Hon. Andrew Albert

Hon. Veronica Vanterpool

#### MTA Staff Present:

Craig Stewart

Michael Wetherell

#### MTACC Staff Present:

Michael Horodniceanu

Anil Parikh

#### LIRR Staff Present

Jim Allen

Debbie Chin

Rich Oakley

#### MNR Staff Present

Anthony Forcina

John Kennard

#### Independent Engineering Consultant Staff Present:

Joe DeVito

Mark Cosmedy

Nabil Ghaly

Calvin Gordon

Kent Haggas

Mohammad Mohammadinia

\* \* \*

Chairman Prendergast called the October 26, 2016 meeting of the Capital Program Oversight Committee to order at 2:30 P.M.

#### **Public Comments Period**

There were no public speakers in the public comments portion of the meeting.

#### Meeting Minutes

Upon motion duly made and seconded, the CPOC members approved the minutes to the previous meeting held on September 26, 2016.

#### **Committee Work Plan**

Mr. Stewart announced that there were no changes to the CPOC Work Plan.

#### MTACC Monthly Update on Second Avenue Subway

Mr. Parikh reviewed the status of a number of Critical Milestones and Issues and then reported that NYCT started running trains for Train Crew Training on October 17, 2016, that contractors have added dedicated resources to complete building code requirements, and that while some of the testing has not progressed as scheduled, contractors have agreed to a recovery schedule, which will allow the completion of testing for Revenue Service in December 2016. In its Project Review, the IEC cited the following with respect to station completions: Lexington Avenue/63rd Street Station is expected to be ready for operation in November 2016; 96th Street Station is tracking for completion by the end of December 2016; test completion for all elevators and escalators at the 86th Street Station has slipped 30 days since the IEC's September report, and the integration of all elevators and escalators into the station fire alarm system is now planned for mid-December; and at the 72<sup>nd</sup> Street Station the test completion date for all elevators and escalators is now November 28, which includes their integration into the fire alarm system. With respect to systems testing, the IEC cited the following: tests are not being completed at the rate required to finish testing of all key systems by the end of December; as of October 21st, key tests were being completed at a rate of 14 per week over the last 5 weeks; and the rate of key test completions needs to increase to an average of over 40 per week to finish by mid-December. With respect to Building Code Verification, the IEC stated that NYCT has completed initial inspections of essentially all of the rooms and spaces in the project, and that the major compliance items necessary for final finish of station rooms have been reduced by 20% since the last IEC report, however, a large number of code deficiencies remain to be addressed by the end of December. Further details of the presentations, and Committee Members' comments and questions with respect thereto are included in the video recording of the meeting maintained in MTA's records.

#### **LIRR Capital Program Update**

Mr. Oakley provided an overview of LIRR's 2016 Capital Program Goals, including commitment, start, completion and closeout goals. He then cited several active construction projects, the Cyclical Track renewal Program, and provided details on Jamaica Capacity Improvements and the Main Line Double Track Project. In its Project Review of the Jamaica Capacity Improvements Phase I, the IEC reported that the project is on budget, that it concurs with the progress reported by the agency, and that to date the IEC is satisfied with LIRR's continuous risk mitigation efforts. However, the IEC expressed concern that Force Account labor availability is a risk that could be realized as LIRR projects continue to compete for common services and have similar substantial completion dates. In its Project Review of the Main Line Double Track, the IEC reported that the project is on budget, and while reporting that the project is on schedule, the IEC stated that the revised schedule, in which Phase 1 and Phase 2 activities overlap, is aggressive and has very little float. The IEC then cited its observations that the Force Account availability for signal, communication and third rail installation may be an issue into 2017 and 2018, and that the revised schedule shows aggressive signal delivery and contains cost and schedule risk. Finally, the IEC noted that, consistent with a previous IEC Recommendation, the LIRR has incorporated several milestones in the revised project schedule. Further details of the presentations, and Committee Members' comments and questions with respect thereto are included in the video recording of the meeting maintained in MTA's records.

#### **MNR Capital Program Update**

Mr. Kennard gave an overview of MNR's 2016 Capital Program Goals, and then provided details on the Superstorm Sandy Restoration/Resiliency Projects, as well as the Harmon Shop Replacement Design-Build Phase V - Stage I and Stage II Project. In its Project Review of the Hudson Line Sandy Restoration, the IEC agreed with MNR that the schedule for both phases of the project needs to be extended. Further, the IEC noted that the first continuous track outage was completed approximately seven months late, and that to date the contractor has not achieved the production rates planned in the schedule, and that recovery schedules are contingent upon the number of flaggers available. As to the budget, the IEC noted that the existing budget is not sufficient to cover the expected costs of both phases. Finally, the IEC stated that it agrees with MNR's efforts in mitigating the impacts to the schedule and budget, but the IEC also observed that there are still risks to achieving the projected production rate, including the availability of resources. In its Project Review of the Harmon Consist Shop Replacement, Phase V, Stage 1, the IEC agrees with MNR's assessment of the schedule, and that the project is within budget, with remaining contingency sufficient to reach substantial completion. Further details of the presentations, and Committee Members' comments and questions with respect thereto are included in the video recording of the meeting maintained in MTA's records.

#### LIRR AND MNR JOINT UPDATE ON ROLLING STOCK

Mr. Allen updated the Committee on LIRR's and MNR's M-9 car procurements, including Key Milestones, and the M-9A car procurement, including Key Milestones and Customer Amenity Enhancements. In its Project Review of the M-9 cars, the IEC concurred with LIRR's report on the status of the project, and then cited the following observations, including that several risks that were identified in the 2015 CPOC report, including car weight, schedule and CCTV, are being addressed in the Technical Issues and Resolution Agreement. Further details of the presentations, and Committee Members' comments and questions with respect thereto are included in the video recording of the meeting maintained in MTA's records.

#### LIRR and MNR Update on Positive Train Control

Ms. Chin reported on progress on the Positive Train Control (PTC) initiative since the last report to CPOC in June, 2016. She stated that the Railroads' current estimated project cost remains \$968M. With respect to schedule, Ms. Chin reported that the contractor's project schedule meets the December 2018 deadline. In its Project Review, the IEC reported that the budget remains at \$968M as last reported in June 2016 and that the latest schedule indicates that the project remains on schedule. Further details of the presentations, and Committee Members' comments and questions with respect thereto are included in the video recording of the meeting maintained in MTA's records.

#### MTA Capital Program Commitments & Completions and Funding

Mr. Stewart brought the Committee's attention to the MTA Capital Program Commitments & Completions and Funding Report and invited Committee Members' questions, of which there were none.

#### **Adjournment**

Upon motion duly made and seconded, Chairman Prendergast adjourned the October 26, 2016 meeting of the MTA Capital Program Oversight Committee at 4:00 PM.

Respectfully submitted, Michael Jew-Geralds Office of Construction Oversight

#### 2016-2017 CPOC Committee Work Plan

Recurring Agenda Items

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

II. Specific Agenda Items

#### December 2016

Quarterly MTACC Capital Program Update

- Second Avenue Subway
- Cortlandt Street Station
- East Side Access

Quarterly Change Order Report Quarterly Traffic Light Reports

#### January 2017

NYCT Capital Program Update

- Sandy Recovery and Resiliency Update
- Subway Car Prog
- ram Update
- Bus Procurement Update

#### February 2017

B&T Capital Program Update LIRR and MNR Update on Positive Train Control (PTC) Update on Minority, Women and Disadvantaged Business Participation

#### March 2017

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

#### April 2017

NYCT Capital Program Update NYCT, LIRR, MNR Update on New Fare Payment System Update on Capital Program Security Projects (in Exec Session)

#### May 2017

LIRR and MNR Capital Programs Update

#### June 2017

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

#### July 2017

NYCT Capital Program Update

#### September 2017

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

#### October 2017

LIRR Capital Program Update
MNR Capital Program Update
LIRR and MNR Update on Positive Train Control (PTC)

#### November 2017

NYCT Capital Program Update

## Capital Program Oversight Committee November 14, 2016

## **New Fare Payment System Update**



Metropolitan Transportation Authority
New York City Transit
Long Island Rail Road
Metro-North Railroad
Bridges and Tunnels

## Today's Presentation Update on Agency Plans and Progress

- Update to our joint presentation to CPOC in April 2016
- Status on current/planned next generation fare payment system-related initiatives:

LIRR/MNR — Mobile Ticketing (MTA eTix<sup>™</sup>)

Long Term Strategy Study

NYC Transit - Replacement for MetroCard System

(ongoing procurement)



## MTA New Fare Payment System **Program Overview**

- An integrated, reliable, and convenient system
  - Adoptable by MTA agencies & other transit systems in the NY region
  - Based on open standards and open architecture
- A new interoperable, centralized MTA backend system that supports business, reporting, operations and other back-office functions
- Focus on a "bring your own media" approach to contactless and mobile fare payments
  - Customers benefit from the convenience/security of "open payments" technology
  - Agency-issued media to serve those without their own
- Expanded sales/service channels: convenient and accessible "anytime, anywhere"
  - Web, mobile, IVR, and call center support; comprehensive retail network
- A best-in-class digital experience (mobile and web)
  - Supports a "One MTA" experience

### MTA New Fare Payment System Enhanced Customer Experience



- · Common app across agencies
- Ticketing/Fare Payment
- Account management
- Trip planning
- · Real-time arrivals and status
- Elevator/escalator status
- Regional integration support
- · Variety of other non-payment functions



## MTA Commuter Railroads Mobile Ticketing (MTA eTix ™)

- eTix App rolled out during Summer 2016;
   Systemwide deployment completed
   August 22nd
- As of October 30th, 962,000 eTix had been sold, generating \$25 million
- Customer reaction has been favorable, with eTix accounting for 8% of all tickets sold in October (exceeding expectations of 5% after one year)
- eTix represented 9% of all monthly tickets and 15% of all weekly tickets in October
- App updated to support ticket purchase via Apple Pay and MasterPass

#### Next steps:

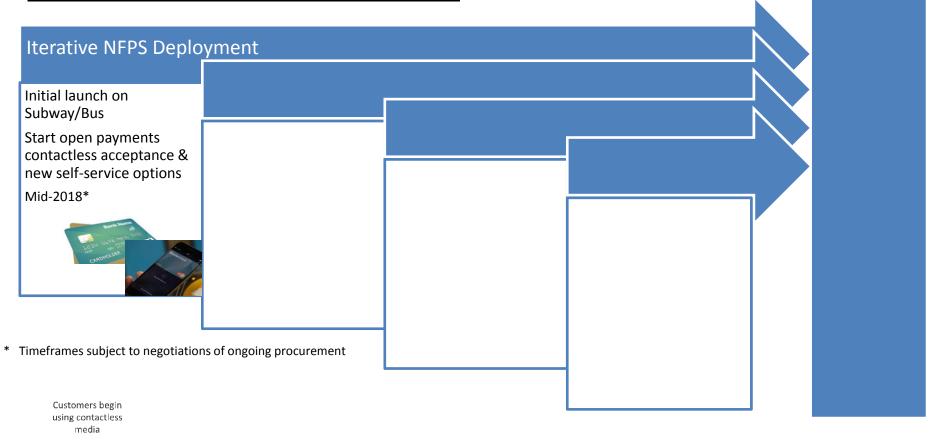
Commence electronic validation (2017)



## MTA Commuter Railroads Long Term Strategy Study

- In 2015 the railroads engaged a consultant to assist in the development of a long term fare payment strategy which was completed in April 2016
- Strategy will serve as the foundation for the RR's future system and will shape upcoming capital investments in new ticket selling infrastructure
- Strategy included the following key components which are part of the ongoing joint procurement with NYCT
  - Creation of a Single MTA Customer Account and Travel Interoperability
  - Replacement of End-of-Life Ticket Selling Machines
  - Introduction of a Common "Backend"

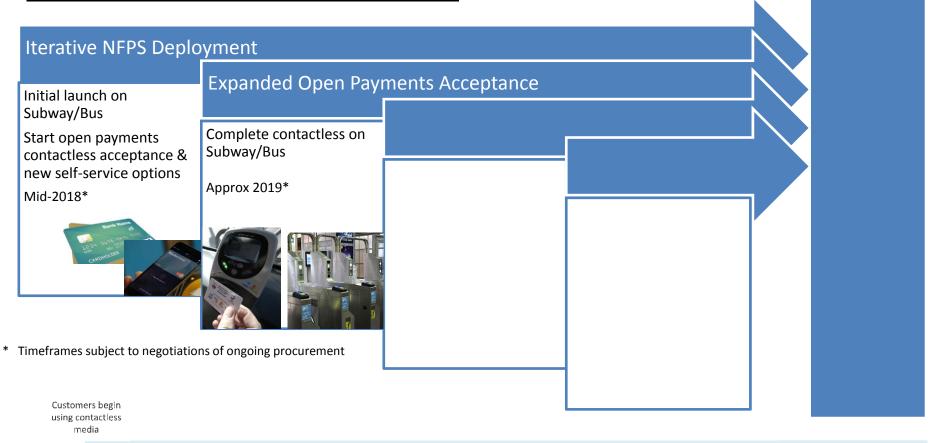






Continued adoption of eTix; Iterative NFPS Phase-in & MetroCard Phase-out

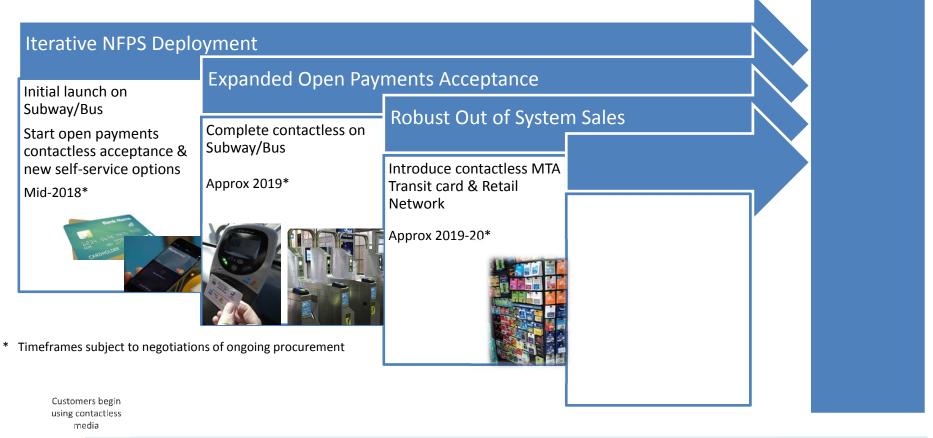






Continued adoption of eTix; Iterative NFPS Phase-in & MetroCard Phase-out

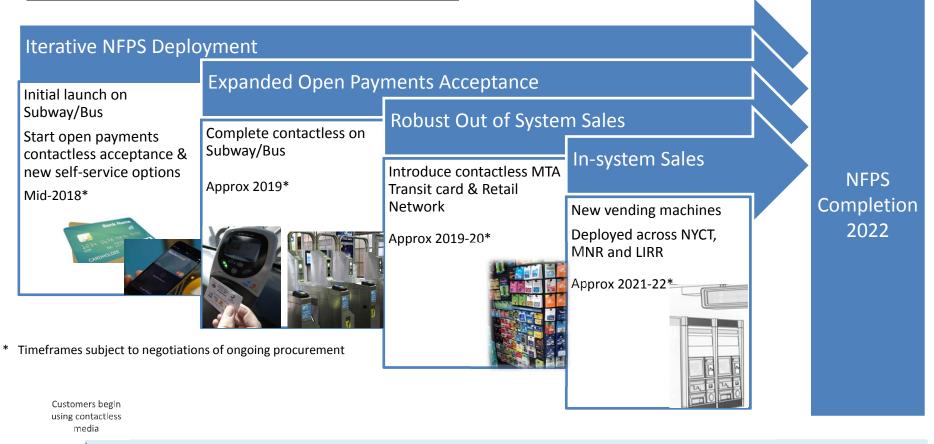






Continued adoption of eTix; Iterative NFPS Phase-in & MetroCard Phase-out







 ${\it Continued\ adoption\ of\ eTix;\ Iterative\ NFPS\ Phase-in\ \&\ MetroCard\ Phase-out}$ 

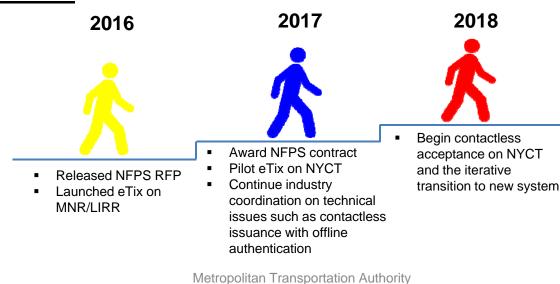


## MTA New Fare Payment System **Program Status**

## **Accelerated Introduction of the New Fare Payment System & Mobile Ticketing Initiatives**

- Completed Mobile Ticketing launch on LIRR & MNR in August 2016; pilot on NYCT in 2017
- Initial rollout of NFPS for NYCT remains in mid-2018; earlier plans had rollout in mid-2020

#### **Near-term Activities:**



## November 2016 CPOC IEC Project Review



New Fare Payment Systems (NFPS)



**November 14, 2016** 

## **Strategic Review**

- The IEC finds the NFPS RFP and documented requirements are well-suited for a modern fare payment system.
- A preliminary risk assessment has been conducted with the NFPS team. Activities are ongoing to develop the formal risk register inclusive of mitigations.
- NFPS plans for early interoperability testing/piloting with eTix between the commuter railroads and subway will provide valuable insight to help define the NFPS project user experiences and MTA operations. This is seen as good practice.



## **Schedule Review**

- NFPS RFP/procurement and system integrator (SI) contract award are major milestones, with timeline identified in the risk assessment as high risk:
  - The procurement has an aggressive contract award schedule.
     Procurement & negotiation timelines are typically 12-15 months for high tech projects of this nature.
  - 18 months from contract award to initial deployment is an aggressive timeline. Programs with this complexity typically take 2 years or more for development, test and deployment. A phased development & test plan negotiated with the SI (as called for in the RFP) will be critical.
- Deployment of NFPS is dependent upon Passenger Station Local Area Network (PSLAN) availability by Dec 2017 – recent status indicates PSLAN will be complete on the majority of stations by this date, consistent with initial deployment of NFPS.

## **Budget Review**

- Initial risk assessment results (unmitigated) indicate that the overall project budget of \$450M may be a challenge when full deployment and escalation timeframes are considered
  - The risk assessment is preliminary at this time. IEC and NFPS staff are working to identify risk mitigations to satisfy current budget constraints.
  - SI negotiations may refine the SI work scope & schedule, also creating uncertainty in budget estimates\*

\*This is expected given where MTA is in the SI procurement process



## Railroads - LIRR & MNR

- eTix launched and operational. IEC staff personal experiences have been favorable; good mobile app interface; trained conductors
- Long term interoperability with NFPS could come in many forms, but most important is the consistent and integrated experience that MTA customers will get:
  - e.g. One account, one media, one set of customer service tools for all transportation modes.
  - Indications from staff reinforces this as a high priority.
- No final decision on how eTix and NFPS back office systems will be integrated. Open architecture as required in both eTix and NFPS provide various integration options. One back office, with one fare engine, one mobile app, and one customer service/account management system likely to be more operationally efficient for MTA.

## **Stations Division**

### **Capital Program Oversight Committee**



November 2016



## **Presentation Includes:**

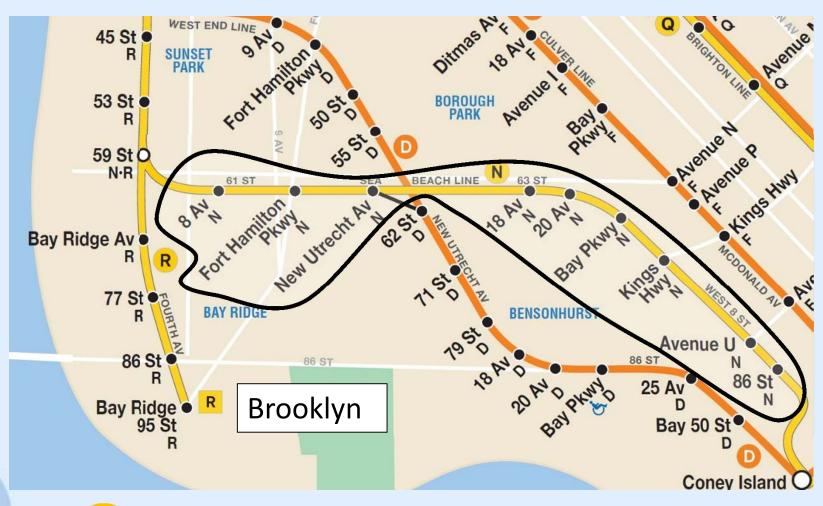
- Overview of Sea Beach Line Renewal project
- Overview of 2010-14 & 2015-19 Programs
- Progress since January 2016 CPOC report
- Photos of recently completed projects
- Enhanced Station Initiative (ESI)



## OVERVIEW OF SEA BEACH LINE RENEWAL PROJECT N

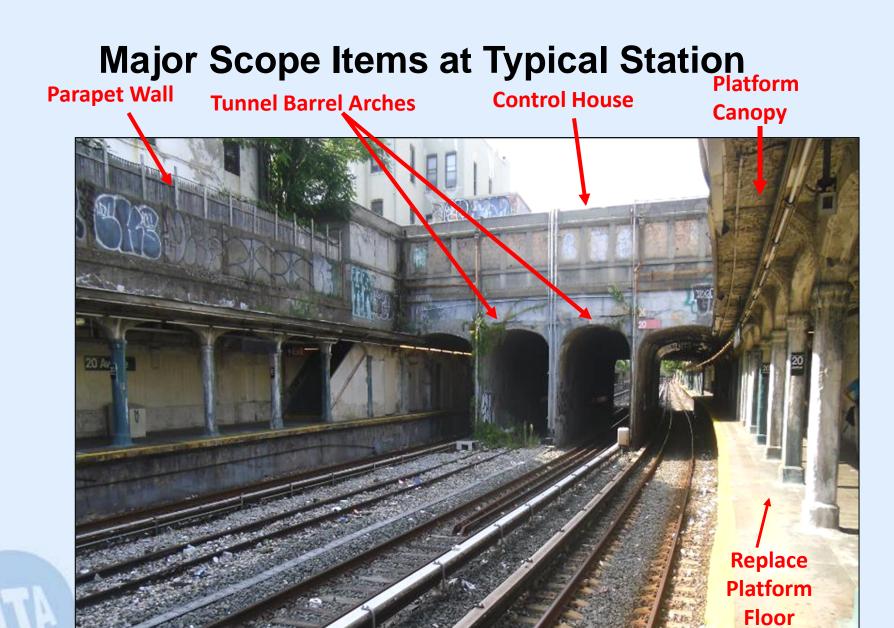


### **Station Locations**

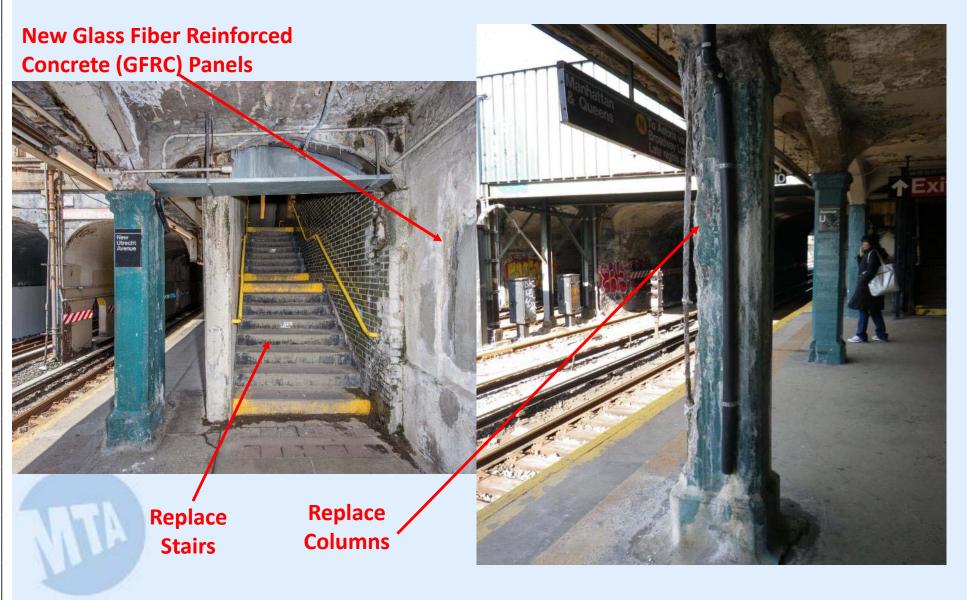




Project Limits approximately 4.5 Miles



## **Major Scope Items at Typical Station**



### **ADA Elevators**

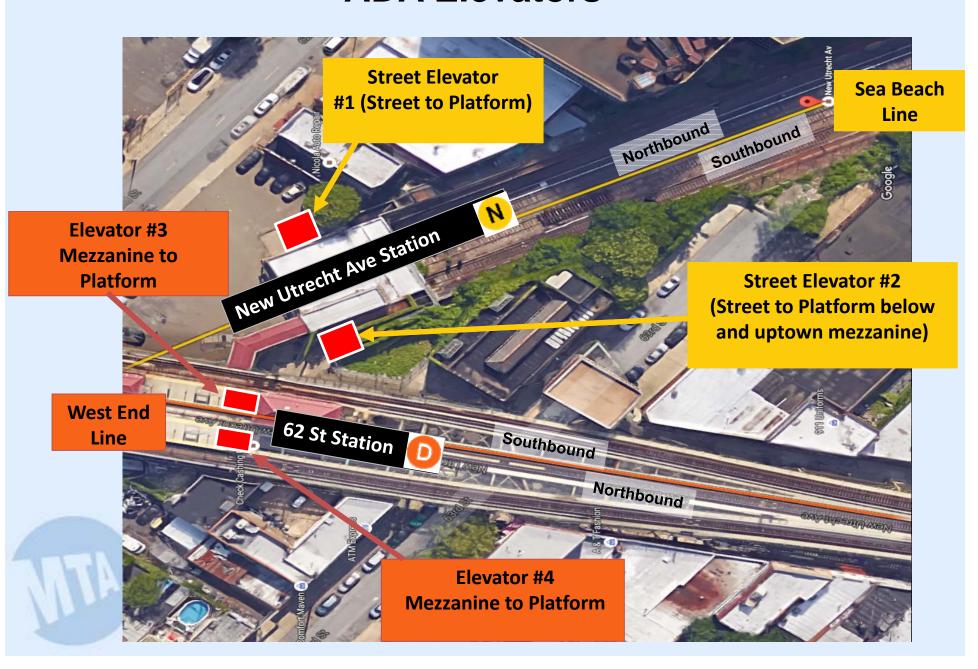




Proposed Elevator

(8 Ave Station N/B)

### **ADA Elevators**



### **Project Phases**

Project has 5 phases with 48 months duration:

Phase 1 and 2

12 months

Mobilization and Preliminary

Phase 3

14 months

N/B platforms are out of service

Transition between phase 3 and 4

4 months

Phase 4

14 months

S/B platforms are out of service

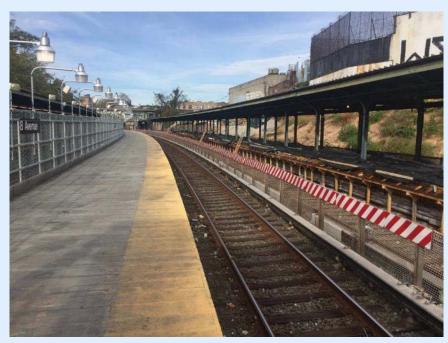
Phase 5

4 months

Final

Project was awarded in two separate contracts with a total project cost of \$393M.

## Phase 1 & 2 (Mobilization and Preliminary Phase) - Completed





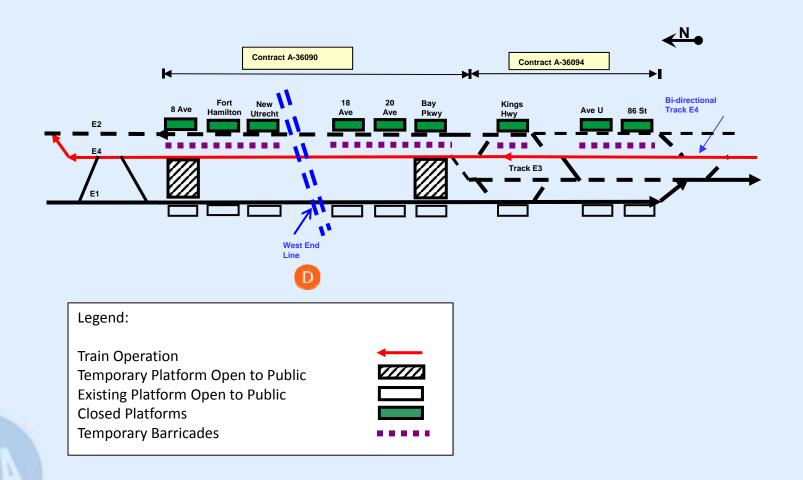
8 Ave

Bay Parkway



**Temporary Platforms and Barriers** 

## Phase 3 (N/B out of service) 14 Months-Started Jan 2016



## Phase 3 Construction Progress (North Bound)

- Six (6) platforms are poured
- 10 out of 11 barrel arches are restored
- Glass Fiber Reinforced Concrete (GFRC) panels are released for fabrication
- New Utrecht Station elevator #1 shaft is 60% complete and elevator #2 shaft is 25% complete
- 8<sup>th</sup> Ave Station N/B elevator design is complete and RFP is issued for S/B elevator
- Platform steel stairs are in fabrication
- Replaced 140 deteriorated concrete platform columns
- Rehab of control houses is ongoing (6 unmanned and 9 manned)
- Spalled concrete repair on the line structure is approximately 75% complete

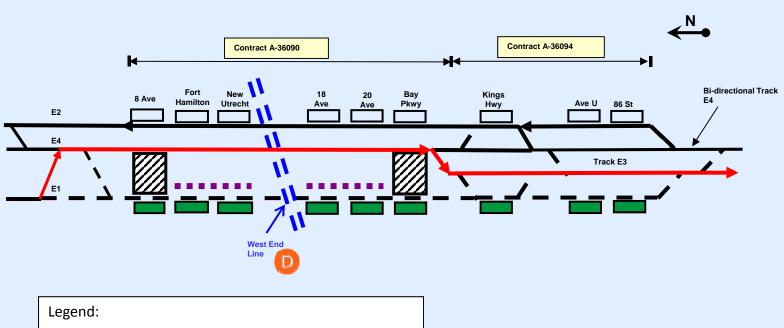
### **Schedule Status**

- Phase 1 and 2 completed on January 2016
- Phase 3 (N/B out of service) started on January 18, 2016. Current completion forecast is first week of May 2017.
  - This delay of approximately 4-6 weeks is due to:
    - Tamping of the tracks
    - Late delivery of steel stairs
    - Approval of underpinning system
- Phase 4 (S/B out of service) 3<sup>rd</sup> quarter of 2017 (F)



### Phase 4 (S/B out of service) 14 Months-

Starting 3rd Qtr 2017



Train Operation
Temporary Platform Open to Public
Existing Platform Open to Public
Closed Platforms
Temporary Barricades

# **Project Risks**

Ris	ks	M	itigations
1.	Underside of 8 Ave station over LIRR tracks is deteriorated. Opportunity to fix under Sea Beach Project. This added work may negatively impact cost and substantial completion date.	•	RFP for priority work has been issued.
2.	Unforeseen structural deterioration may increase cost.	•	For N/B Platforms, RFP was issued and funding is available in project contingencies.
3.	Additional communication work may increase cost.	•	Drawings were prepared and RFP was issued for additional work.
4.	Installation of 2 new ADA Elevators at 8 Ave Station was added to the project which may negatively impact cost and substantial completion date.	•	RFP for N/B elevator is issued. S/B elevator cost is funded separately. Work is planned to be completed in packages.

# OVERVIEW OF 2010-14 & 2015-19 PROGRAMS



## Overview of 2010-14 & 2015-19 Programs

Category	# of Stations		lget M)	# of Stations	Budget (\$ M)
Category	2010-201	4 Pro	gram	2015-2019	Program
I. Component/SBMP	130	\$	735	Over 150	\$ 503
II. Renewal	38	\$	839	20	\$ 408
III. ADA Accessibility	9	\$	286	16	\$ 740
IV. Elevator/Escalator Replacement	13	\$	84	33	\$ 334
V. Station Reconstruction	-	\$	1	3	\$ 270
VI.Other Projects	N/A		N/A	N/A	\$ 790 <b>*</b>
Total	190	\$1.	9 B	222	\$3.0 B

<sup>\*</sup> Includes order of magnitude cost at conceptual design for Willets Point and \$145M from private developer for GCT Improvement Projects.

# PROGRESS SINCE JANUARY 2016 CPOC REPORT



## **Progress Since Last CPOC Report**

**Awarded Work at:** <u>5 Stations</u>

- Component work at 4 Stations
  - 121 St, 111 St, 104 St, Myrtle Ave. Jamaica Line

- Access Improvements at Grand Central 42 St.
   Station 456
  - P-10 Stair
  - Mobil Passageway

### **Completed Construction work at 20 Stations**

Component

 157 St, 168 St, 181 St – Bway 7<sup>th</sup> Ave
 103 St, 59 St, 51 St, Astor Place – Lexington

Wilson Ave, Atlantic Ave – Canarsie

- 5 Ave, 7 Ave - QBL (B) (1)

50 St − 8<sup>th</sup> Ave

Renewal Projects

88 St, 104 St – Liberty (A)
 (all 5 renewals are completed)

2 Stations

3 Stations

Elevator Replacement Work

2 Elevators at Simpson St – White Plains Road 25

2 Elevators at Pelham Bay Pk - Pelham 6

2 Elevators at 125 St – Léxington Ave 6

Station Reconstruction

New P-16 Stair at Grand Central 42 St. 4 5 🌀

1 Station

### **Small Business Mentoring Program (SBMP)**

# Majority of projects consist of refurbishing stairs and installation of Help Points

This year, awarded work to refurbish <u>5</u> stairs and install <u>60</u>
 Help Points at <u>14</u> stations

## Since inception in 2010:

 Refurbished <u>105</u> stairs at <u>37</u> locations and installed <u>129</u> Help Points at <u>30</u> locations



# **Ongoing Projects**

Line	Stations	% Comple	te (10/2016)	Traffic Li	ght Report
		Design	Const	Cost	Schedule
	Renewals:				
N	Sea Beach Line (9)	Complete	31%	Green	Green
<b>(</b>	Culver Line (7)	Complete	47%	Green	Green
3	New Lots Line (6)	Complete	57%	Yellow	Green
	Elevator & Escalator:				
	Replace 11 Hydraulic Elevators (6)	Complete	84%	Red	Green
	Replace 7 Hydraulic Elevators (3)	Complete	40%	Green	Green
	ADA Access (Key):				
6	23 St - LEX	Complete	98%	Yellow	Yellow
A	Ozone Park -Lefferts -LIB	Complete	68%	Green	Red
N R	<b>a</b> <b>w</b> 57 St - 7th Av - BWY	90%	2nd Qtr 201 <i>7</i> (F)	Green	Green
6	68 St - Hunter College-LEX	Complete	1st Qtr 2017 (F)	Green	Red

•	Red	Significant impacts that have led to an increase in Project Cost or Overall Project Duration
•	Yellow	Previous impacts that have led to Project Cost increases or Schedule delays.
•	Green	No Current Impact for Design & Construction. Successful management of major activities

<sup>\*</sup> Potential cost increase identified; under review for validation and resolution



# Stations Division Enhanced Station Initiative



### **Overview**

### THE STATIONS

#### **BROOKLYN**

Prospect Av

Bay Ridge Av

53 St

Flushing Av

Classon Av

Clinton-Washington Avs

Van Siclen Av

Kingston-Throop Avs

163 St-Amsterdam Av

Cathedral Pkwy (110 St)

86 St

72 St

23 St

57 St

145 St

28 St

#### **MANHATTAN**

0 BC

B G

6

6

6

6

SIR

#### **QUEENS**

**BRONX** 174-175 Sts

167 St

Westchester Sq-East Tremont Av

3 Av-138 St

**Brook Av** 

**Hunts Point Av** 

Pelham Pkwy

#### STATEN ISLAND

Richmond Valley

BD Broadway

6

36 Av

39 Av

Parsons Blvd

67 Av

Northern Blvd

### 30 Av

NW NW

NW

N W

M R



### **Scope & Key Elements**

- State of Good Repair
- 2. Customer-facing Improvements
  - New canopies and totems at station entrances
  - New furniture
  - Technology integration (incl. Dashboard)
  - Improved finishes
  - Improved wayfinding
  - New lighting scheme
  - Decluttering
- 3. Design-Build Contracting
- 4. Get In, Get Done and Get Out



## **Canopy and Entrance Totem**



A Positive Street Presence

### **Dashboard**



**Consolidated Information Zone** 

## **Glass or Mesh Barriers at Fare Array**



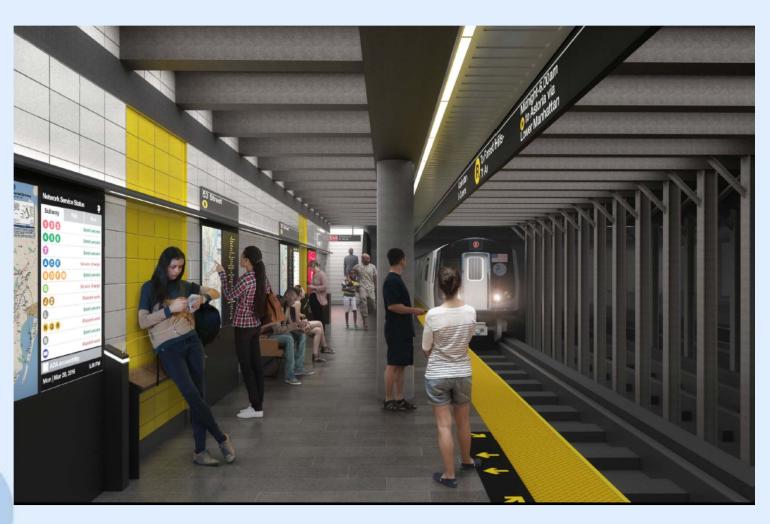
**Clear Sight Lines** 

# **Improved Finishes**



**Encourage a Positive Civic Space** 

# **LED Lighting**



Highlights Legacy of System

### **Process & Progress**

- Station Design Guidelines
  - Grimshaw Architects as architect with Arup as best-practices consultant
  - Work started January 2016, conceptual design submitted May 2016
- Package 1
  - Award anticipated November 30, 2016
  - 3 Stations, 4<sup>th</sup> Ave Line, Brooklyn (Prospect Ave, 53<sup>rd</sup> St, Bay Ridge Ave)
- Up to 7 additional packages



# November 2016 CPOC IEC Project Review



Sea Beach Line - Renewal of Nine Stations



**November 14, 2016** 

# Schedule & Budget Review

### Schedule:

- Original Substantial Completion date: December 30, 2018.
- Original Phase 3 Completion date: March 8, 2017.
- The latest approved schedule and subsequent updates show Phase 3 turnover date has slipped from March to May 10, 2017.
- The project team is working to return the newly rebuilt northbound platforms to service, minimizing customer impact.
- A Recovery Schedule is warranted to address unmitigated schedule slips.

### **Budget:**

 Increased budget and material quantity allowances added to the project in 2012 will minimize cost impacts from the risks and delays but may not fully eliminate them.

# **Project Risks**

The IEC recognizes the significant station improvements and upgrades that have been accomplished to date however, the following risks may negatively impact the cost and the overall substantial completion date of December 2018.

- The unforeseen priority structural steel repairs and replacement work under 8<sup>th</sup> Avenue Station added to the project scope.
- The addition of new ADA compliant elevators at 8<sup>th</sup> Avenue Station added to the project scope.



# **IEC Recommendations**

- The IEC recommends that the project team work toward approving a
  Recovery Schedule, incorporating all additional scope, potential time
  extensions and address major activity slips to provide an accurate
  assessment of the current project status and identify any negative
  impacts to the reopening of the Northbound Station Platforms and the
  overall Substantial Completion date.
- The IEC recommends that the project team concentrate on monitoring intermediate return to service dates, inspections and key beneficial use dates to gauge contractor performance and to mitigate project risks and issues impacting the schedule.



# MTA Capital Program Commitments & Completions

through October 31, 2016

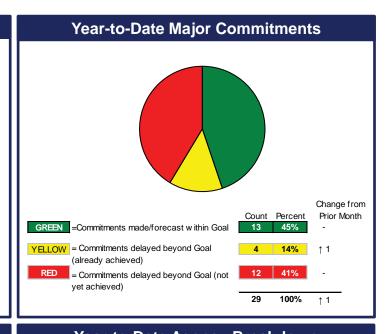


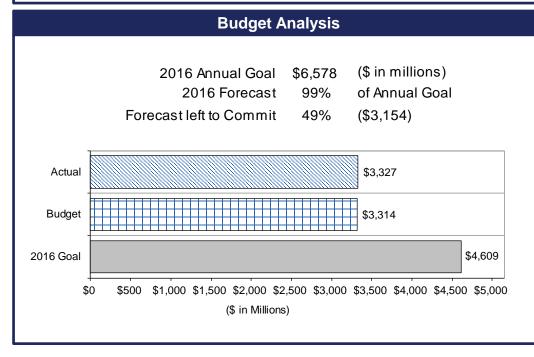
### **Capital Projects – Major Commitments – October 2016**

Through October, 29 major commitments were planned and 17 were achieved. Seven were on time, four were late but have since been committed, and six were committed early; 12 remain delayed. All delayed projects are explained on the following pages.

Year to date, agencies have committed \$3.3 billion versus a \$4.6 billion goal. The shortfall versus goal is mainly due to the delayed commitments, which includes NYCT's CBTC Queens Boulevard West: Phase 2, Bushwick Cut/Myrtle Bridge, and Sandy: 207th Yard Perimeter Protection & Power Cable.

By year-end, the MTA forecasts meeting 99% of its \$6.6 billion goal, but doing so is reliant upon agencies making their 4th quarter forecasts.









roject	Commitment	Goal	Forecast	Project	Commitment	Goal	Forecast
2 All-Agency Red Commitn	nents (1 new this mo	nth)		NYCT			
IYCT		,		Signals & Communications			
discellaneous/Emergency				CBTC Queens Boulevard West - 50	Construction Award	Jun-16	Nov-16
Power Upgrade: RCC, PCC	Construction Award	Jul-16	Nov-16	St to Union Tpke: Phase 2		\$143.7M	\$408.81
		\$50.2M	\$50.2M	Contract award is forecast in November	er pending approval of budge	t modification o	lue to
Project delayed to November due to I	late advertisement approval.			unfavorable bid. Earlier delays due to	several bid opening postpon	ements. Bids r	ecieved and
ine Structures & Track				exceed allocated budget. The current			•
Bushwick Cut / MYR Bridge Over	Construction Award	Sep-16	Nov-16	support costs for the duration of the co	•		•
Atlantic		\$70.9M	\$150.2M	budget assumed only partial support of	costs due to ilmited funding pr	ior to program	approvai.
The award was delayed due to redes	ion work for additional scope.	*	*	Stations			
bridge, substructure replacement, tra	•	•	. •	ADA: 68 St-Hunter College /	Construction Award	Sep-16	Jan-17
inspection facility for shuttle operation	ns.			Lexington		\$66.8M	\$66.8N
and Decrease & Mitigation				Most recent delay due to revisited con	estructability for possible redu	*	*
andy Recovery & Mitigation Sandy Mitigation: 7 Stations	Construction Award	May-16	Jan-17	project schedule delayed pending FTA			
(Manhattan/Qeens/Bronx Initiative)	Conon donor / Ward	\$96.3M	\$51.7M	of property acquisition of the Imperial	House property.		
Delay in advertisement postponed the	e award Authorization to adv	*	* -	MNR			
expected in December. Prior delays		• • •					
specs and contract documents, and is		•		Track			
specs and contract documents, and is	ssuance of notice to proceed	for CCM to start			Construction Award	Aug 16	Doc 16
constructability review, and revised m	nitigation solution for a stairca			Cyclical Track Program	Construction Award	Aug-16	
•	nitigation solution for a stairca			Cyclical Track Program		\$22.0M	\$22.0N
constructability review, and revised m Concourse Line due to maintainability	nitigation solution for a stairca y concerns.	se at 155 St on	the	Cyclical Track Program  Due to the reprioritization of track ma	intenance projects, some plar	\$22.0M	\$22.0N
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants,	nitigation solution for a stairca	se at 155 St on t	Nov-16	Cyclical Track Program	intenance projects, some plar	\$22.0M	\$22.0
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations	nitigation solution for a stairca y concerns.  Construction Award	Jun-16 \$46.2M	Nov-16 \$41.6M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December	intenance projects, some plar	\$22.0M	\$22.0N
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende	nitigation solution for a stairca y concerns.  Construction Award  ed advertisement period. Furt	Jun-16 \$46.2M her delay due to	Nov-16 \$41.6M	Cyclical Track Program  Due to the reprioritization of track ma	intenance projects, some plar	\$22.0M	\$22.0
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende postponements of the bid. Recent es	nitigation solution for a stairca y concerns.  Construction Award  ed advertisement period. Furt	Jun-16 \$46.2M her delay due to	Nov-16 \$41.6M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access	intenance projects, some plar er 2016.	\$22.0M nned 2016 cycli	\$22.0N
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende postponements of the bid. Recent es reductions of bid and support costs.	nitigation solution for a stairca y concerns.  Construction Award  ed advertisement period. Furt stimate is based on refined dra	Jun-16 \$46.2M her delay due to awings and refle	Nov-16 \$41.6M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction	intenance projects, some plar	\$22.0M nned 2016 cycli	\$22.0M ical track Jan-17
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extended postponements of the bid. Recent est reductions of bid and support costs. Sandy Mitigation: 9 Stations	nitigation solution for a stairca y concerns.  Construction Award  ed advertisement period. Furt	Jun-16 \$46.2M her delay due to awings and refle	Nov-16 \$41.6M ects	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)	intenance projects, some plar er 2016. Construction Award	\$22.0M nned 2016 cycli Jul-16 \$56.6M	\$22.0N ical track Jan-17 \$56.6N
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extended postponements of the bid. Recent est reductions of bid and support costs. Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)	construction Award  Construction Award  ed advertisement period. Furtstimate is based on refined dra  Construction Award	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M	Nov-16 \$41.6M cts Jan-17 \$56.2M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended in	intenance projects, some plar er 2016.  Construction Award review processes prior to adv	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and	Jan-17 \$56.6M in
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende postponements of the bid. Recent es reductions of bid and support costs. Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)	construction Award  Construction Award  ed advertisement period. Furtherimate is based on refined dra  Construction Award  Construction Award  e award. Bid opening schedu	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe	Nov-16 \$41.6M Sects  Jan-17 \$56.2M	Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended a procurement. Due to resource issues	intenance projects, some plar er 2016.  Construction Award review processes prior to adv	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and	\$22.0N ical track Jan-17 \$56.6N in
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende postponements of the bid. Recent es reductions of bid and support costs. Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative) Delay in advertisement postponed the delay pending design drawings appro-	construction Award  Construction Award  ed advertisement period. Furtestimate is based on refined dra  Construction Award  e award. Bid opening schedulovals, finalization of specs and	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe	Nov-16 \$41.6M Sects  Jan-17 \$56.2M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended in	intenance projects, some plar er 2016.  Construction Award review processes prior to adv	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and	\$22.0N ical track Jan-17 \$56.6N in
constructability review, and revised m Concourse Line due to maintainability Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations Project award delayed due to extende postponements of the bid. Recent es reductions of bid and support costs. Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)	construction Award  Construction Award  ed advertisement period. Furtestimate is based on refined dra  Construction Award  e award. Bid opening schedulovals, finalization of specs and	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe	Nov-16 \$41.6M Sects  Jan-17 \$56.2M	Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended a procurement. Due to resource issues	intenance projects, some plar er 2016.  Construction Award review processes prior to adv	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and	\$22.0N ical track Jan-17 \$56.6N in
constructability review, and revised machine Concourse Line due to maintainability  Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations  Project award delayed due to extende postponements of the bid. Recent es reductions of bid and support costs.  Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)  Delay in advertisement postponed the delay pending design drawings approproject cost decreased reflecting RT/  Sandy: 207th Yard Perimeter	construction Award  Construction Award  ed advertisement period. Furtestimate is based on refined dra  Construction Award  e award. Bid opening schedulovals, finalization of specs and	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe	Nov-16 \$41.6M Sects  Jan-17 \$56.2M	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended procurement. Due to resource issues been delayed.	intenance projects, some plar er 2016.  Construction Award review processes prior to adv	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and	\$22.0N ical track Jan-17 \$56.6N in
constructability review, and revised machine Concourse Line due to maintainability  Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations  Project award delayed due to extended postponements of the bid. Recent estreductions of bid and support costs.  Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)  Delay in advertisement postponed the delay pending design drawings approproject cost decreased reflecting RT/  Sandy: 207th Yard Perimeter  Protection & Power Cable	construction Award  construction Award  ed advertisement period. Furtstimate is based on refined dra  Construction Award  construction Award  e award. Bid opening schedulovals, finalization of specs and A estimate.	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe d contract docum	Nov-16 \$41.6M octs Jan-17 \$56.2M r. Earlier nents.	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended a procurement. Due to resource issues been delayed.  Second Avenue Subway Ph. 2	intenance projects, some plar er 2016.  Construction Award  review processes prior to adv in the Harold Interlocking the	\$22.0M nned 2016 cycli Jul-16 \$56.6M ertisement and award of this co	\$22.0N ical track Jan-17 \$56.6N in ontract has
constructability review, and revised machine Concourse Line due to maintainability  Sandy Mitigation: 13 Fan Plants, Long-Term - 5 Locations  Project award delayed due to extended postponements of the bid. Recent estreductions of bid and support costs.  Sandy Mitigation: 9 Stations (Brooklyn/Queens Initiative)  Delay in advertisement postponed the delay pending design drawings approproject cost decreased reflecting RT/  Sandy: 207th Yard Perimeter	construction Award  construction Award  ed advertisement period. Furtstimate is based on refined dra  Construction Award  construction Award  e award. Bid opening schedulovals, finalization of specs and A estimate.	Jun-16 \$46.2M her delay due to awings and refle Jun-16 \$100.7M led in Novembe d contract docum	Nov-16 \$41.6M octs Jan-17 \$56.2M r. Earlier nents.	Cyclical Track Program  Due to the reprioritization of track ma work has been delayed until December  MTACC  East Side Access  Harold Tunnel A Construction (CH061A)  Additional time required for extended a procurement. Due to resource issues been delayed.  Second Avenue Subway Ph. 2	construction Award  Construction Award  review processes prior to adv in the Harold Interlocking the  Construction Award	\$22.0M  nned 2016 cycli  Jul-16  \$56.6M  ertisement and award of this co	\$22.0N sical track  Jan-17 \$56.6N in ontract has  Nov-16 \$10.0N



rainat		- October	2016 – Sc	chedule Variances	Actu	al Results	s Shade
roject	Commitment	Goal	Forecast	Project	Commitment	Goal	Forecast
econd Avenue Subway Ph. 2				4 All-Agency Yellow Commitr	ments (1 new this m	onth)	
PE Design Contract	Construction Award	Jul-16	Nov-16	NYCT	•		
		\$100.0M	\$100.0M	Signals & Communications			
Additional review, outreach consult		issues have res	ulted in a	Passenger Station LAN: 188 Stations	Construction Award	Feb-16	Mar-16 (
delay in the award. Final negotiation	ons are still ongoing.					\$50.0M	\$50.0N
				Award was delayed because of addition budget changes and authorizations to a	•	necessary appro	ovals for
				Kings Hwy Interlocking / Culver	Construction Award	Jun-16	Oct-16 (
				(New Item)		\$150.0M	\$177.2
				Award was delayed due to bid postpone	· · · · · · · · · · · · · · · · · · ·	. •	
				address increased costs from an unfav		•	
				Interlocking. The current estimate reflect	_	oal budget reflec	cted limited
				funding availability prior to capital plan	approval.		
				LIRR			
				Track	0	1 10	1.1.40.4
				Amtrak Territory Projects	Construction Award	Jun-16	Jul-16 (
						\$17.0M	\$32.5
				Award delayed due to additional time re of the bidders.	equired by the Procurement	Department to	perform au
				of the bladers.			
				MTACC			
				East Side Access			
				Grand Central Terminal Station	Construction Award	Feb-16	Apr-16
				Caverns & Track		\$777.4M	\$712.0
				The delay was due to MTACC finalizing	•	g a notice to pro	oceed, which
				was issued in April. The award value re	eflects a favorable bid.		



#### Capital Projects - Major Commitments - October 2016 - Budget Only\* Variances Actual Results Shaded \*for variances of more than \$5 million or 10% **Project** Commitment Goal Forecast 4 All-Agency Budget Only Commitments (0 new this month) NYCT Sandy Resiliency & Restoration Construction Award Jul-16 May-16 (A) Sandy Mitigation: 17 Fan Plants & Adjacent Tunnels \$45.7M \$39.2M Awarded in May 2016. Track Mar-16 Feb-16 (A) Mainline Track Replacement 2016 / Construction Award 63rd St \$40.0M \$29.2M Awarded in February with savings reflecting a favorable bid. LIRR Track 2016 Track Program Construction Award Mar-16 Feb-16 (A) \$17.8M \$59.7M Originally committed in February 2016. The actual value was increased in June following the approval of the 2015-19 Capital Plan. Jamaica Capacity Improvements Construction Award Sep-16 Sep-16 (A) Phase I \$82.1M \$68.3M Savings reflect a good bid for the Platform F contract.

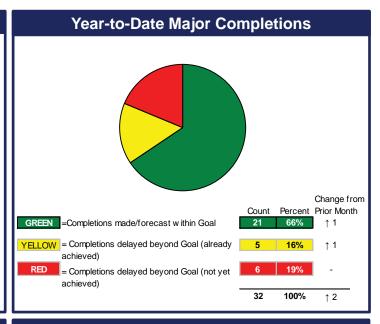


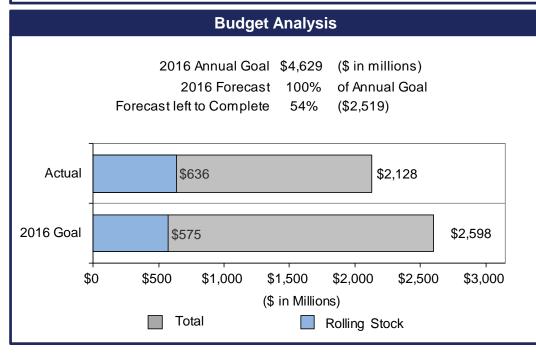
### Capital Projects - Major Completions - October 2016

Through October, 32 major completions were planned and 26 were achieved. 12 were on time, five were delayed but have since been completed, and nine were completed early; six remain delayed. All delayed projects are reported on the following pages.

To date, the MTA has completed \$2.1 billion of its \$2.6 billion year-todate goal. The shortfall is due to the delayed completion of the East Side Access Manhattan South Structures contract and other delays which are expected to be achieved later in 2016.

By year-end, the MTA forecasts meeting its \$4.6 billion goal, but doing so is reliant upon agencies making their 4th quarter forecasts.







Board in April 2016.



Project	Completion	Goal	Forecast	
6 All-Agency Red Completic NYCT	ons (1 new this month	n)	_	
Line Structures				
Overcoating: Broadway Junction - New Lots Avenue / Canarsie (New Item)	Construction Completion	Oct-16 \$27.1M	Nov-16 \$28.1M	
The project was delayed due to the la Atlantic Ave Station that prevented so high temperature and humidity result.	ome work from being performe	ed. Inclement	weather,	
Stations		Aug-16	Dec-16	
Replace 11 Hydraulic Elevators	Construction Completion	\$24.0M	\$26.2M	
unforeseen field conditions.  ADA & Station Renewal at Ozone Park-Lefferts Blvd / Liberty	Construction Completion	Aug-16 \$23.9M	Dec-16 \$23.9M	
Project completion re-scheduled to D communication work associated with		-	structure.	
SIR: Station Construction: Arthur Kill	Construction Completion	Aug-16	Jan-17	
SIK. Station Construction, Artiful Kill	Construction Completion	\$23.2M	\$24.0M	
Project completion delayed due to sc distribution room (EDR), exterior wall		•		
MTA Bus				
Bus Company Projects				
Security Upgrades - Far Rockaway & Baisley Park	Construction Completion	Sep-16 \$9.9M	Dec-16 \$9.9M	
Project completion delayed as a resu correct errors in contract documents.		*	*	
MTACC				
East Side Access				
Plaza Substation & Structures	Construction Completion	Aug-16 \$250.2M	Nov-16 \$257.7M	

Substantial completion date was delayed as a result of additional work approved by the MTA

\$250.2M

\$257.7M

Actual Results Shaded



Project	Completion	Goal	Forecast	Project	Completion	Goal	Forecast
	•		Torecast		Completion	Odai	Torecast
All-Agency Yellow Compl	etions (Thew this mo	ntn)		MTACC			
IYCT				East Side Access		Feb-16	Jun-16 (
Stations		Apr-16	May-16 (A)	Manhattan South Structures	Construction Completion	\$249.8M	\$249.81
Renew Five Liberty Line Stations	Construction Completion	\$74.7M	\$77.8M	The project was completed in II	une. Substantial completion was im		
		φ/4./ IVI	φ//.ΟΙVΙ	underground tunnel work.	arie. Odbataritiai completion was in	ipacted by defi	ays to
The project was completed in May w	vith the contract delay due to in	clement wear	ther, loss of				
two GOs, and the repair of corroded	steel that stopped work at 111	th Street Sta	tion. Project				
cost increased due to additional TA I	Labor services required for ad-	ditional steel v	work.				
		Jul-16	Sep-16 (A)				
Brick Arch Repair: 168 Street & 181	Construction Completion						
Street / Broadway-7th Ave		\$64.8M	\$71.9M				
GOs and support costs required duri contract duration by 10 months resul scope related to station medallions h	Ited in the previous increase.	Additional AW	/Os and				
contract duration by 10 months resul scope related to station medallions h delay is due to modifications related	Ited in the previous increase. nave resulted the original sche	Additional AW dule delay an	/Os and				
contract duration by 10 months resul scope related to station medallions h delay is due to modifications related IRR rack	Ited in the previous increase. nave resulted the original sche	Additional AW dule delay an reet station.	/Os and d the recent				
contract duration by 10 months resul scope related to station medallions h delay is due to modifications related IIRR Track Main Line Track Farmingdale-	Ited in the previous increase. nave resulted the original sche	Additional AW dule delay an reet station.	Oct-16 (A)				
contract duration by 10 months resul scope related to station medallions h delay is due to modifications related IRR rack	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St	Additional AW dule delay an reet station.	/Os and d the recent				
contract duration by 10 months result scope related to station medallions hadelay is due to modifications related to the station medallions related to the station medallions hadelay is due to modifications related to the station median medi	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St	Additional AW dule delay an reet station. Jul-16 \$36.3M	Oct-16 (A) \$36.3M				
contract duration by 10 months resul scope related to station medallions h delay is due to modifications related IIRR Track Main Line Track Farmingdale- Ronkonkoma Phase I	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion rk that included wetland mitiga	Additional AW dule delay an reet station.  Jul-16 \$36.3M	Oct-16 (A) \$36.3M				
contract duration by 10 months result scope related to station medallions hadelay is due to modifications related to the station medallions related to the station medallions hadelay is due to modifications related to the station medallic mediant for the station mediant	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion rk that included wetland mitiga	Additional AW dule delay an reet station.  Jul-16 \$36.3M	Oct-16 (A) \$36.3M				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related  IRR  Track  Main Line Track Farmingdale- Ronkonkoma Phase I (New Item)  Delay related to contract change wo retaining wall on south side, which we to weather conditions).	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion rk that included wetland mitiga	Additional AW dule delay an reet station.  Jul-16 \$36.3M	Oct-16 (A) \$36.3M				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related LIRR  Track  Main Line Track Farmingdale- Ronkonkoma Phase I (New Item)  Delay related to contract change work retaining wall on south side, which we to weather conditions).	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion rk that included wetland mitiga	Additional AW dule delay an reet station.  Jul-16 \$36.3M	Oct-16 (A) \$36.3M				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related stated.  IRR  Track  Main Line Track Farmingdale-Ronkonkoma Phase I (New Item)  Delay related to contract change wor retaining wall on south side, which we to weather conditions).  3&T  Marine Parkway Bridge	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion  rk that included wetland mitigatere completed in October (del	Additional AW dule delay an reet station.  Jul-16 \$36.3M  tion and an a	Oct-16 (A) \$36.3M dditional				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related LIRR  Track  Main Line Track Farmingdale-Ronkonkoma Phase I (New Item)  Delay related to contract change wor retaining wall on south side, which we to weather conditions).	Ited in the previous increase. have resulted the original sche to Help Points at the 168th St  Construction Completion rk that included wetland mitiga	Additional AW dule delay an reet station.  Jul-16 \$36.3M tion and an a ayed from Se	Oct-16 (A) \$36.3M dditional ptember due				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related stated. IRR  Track  Main Line Track Farmingdale-Ronkonkoma Phase I (New Item)  Delay related to contract change work retaining wall on south side, which we to weather conditions).  3&T  Marine Parkway Bridge  Rehabilitate Rockaway Point Blvd	Ited in the previous increase. have resulted the original sche to Help Points at the 168th Struction Completion  Construction Completion  rk that included wetland mitigatere completed in October (del	Additional AW dule delay an reet station.  Jul-16 \$36.3M tion and an a ayed from Se  May-16 \$11.1M	Oct-16 (A) \$36.3M dditional ptember due				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related.  LIRR  Track  Main Line Track Farmingdale-Ronkonkoma Phase I (New Item)  Delay related to contract change work retaining wall on south side, which we to weather conditions).  3&T  Marine Parkway Bridge  Rehabilitate Rockaway Point Blvd  Overpass  The project was completed in June. of May, substantial completion was property and the state of t	Ited in the previous increase. In ave resulted the original sche to Help Points at the 168th Struction Completion  Construction Completion  Rk that included wetland mitigativere completed in October (del Construction Completion)  Construction Completion  Although the overpass was oppreviously delayed by one more	Additional AW dule delay an reet station.  Jul-16 \$36.3M tion and an a ayed from Se  May-16 \$11.1M ened for traffith due to out:	Oct-16 (A) \$36.3M  dditional ptember due  Jun-16 (A) \$11.1M ic at the end standing				
contract duration by 10 months result scope related to station medallions he delay is due to modifications related.  JIRR  Track  Main Line Track Farmingdale-Ronkonkoma Phase I (New Item)  Delay related to contract change work retaining wall on south side, which we to weather conditions).  JERR  Marine Parkway Bridge  Rehabilitate Rockaway Point Blvd Overpass  The project was completed in June.	Ited in the previous increase. In ave resulted the original sche to Help Points at the 168th Struction Completion  Construction Completion  Rk that included wetland mitigativere completed in October (del Construction Completion)  Construction Completion  Although the overpass was oppreviously delayed by one more	Additional AW dule delay an reet station.  Jul-16 \$36.3M tion and an a ayed from Se  May-16 \$11.1M ened for traffith due to out:	Oct-16 (A) \$36.3M  dditional ptember due  Jun-16 (A) \$11.1M ic at the end standing				



### Capital Projects – Major Completions – October 2016 – Budget\* Variances Actual Results Shaded \*for variances of more than \$5 million or 10% Project Completion Goal Forecast 2 All-Agency Budget Only Completions (0 new this month) NYCT Track Mainline Track Replacement 2016 / Jul-16 Jul-16 (A) **Construction Completion** 63rd St \$40.0M \$28.5M Project cost decreased to reflect favorable bid and project savings. B&T Signals & Communications May-16 May-16 (A) Miscellaneous Structural **Construction Completion** Rehabilitation \$22.0M \$19.1M The project was completed in May 2016. Project cost decreased to reflect unused project

### **Status of MTA Capital Program Funding**

### Capital Funding Detail (October 31, 2016)

#### \$ in millions

#### 2005-2009 Program

Funding Plan		Receipts	
Current	Thru September	This month	Received to date
24,504	23,374	\$534	23,908

2010-2014 Program
Federal Formula, Flexible, Misc
Federal High Speed Rail
Federal Security
Federal RIFF Loan
City Capital Funds
State Assistance
MTA Bus Federal and City Match
MTA Bonds (Payroll Mobility Tax)
Other (Including Operating to Capital)
B&T Bonds
Hurricane Sandy Recovery
Insurance Proceeds/Federal Reimbursement
PAYGO
Sandy Recovery MTA Bonds
Sandy Recovery B&T Bonds
-

Funding Plan		Receipts	
<u>Current</u>	Thru September	This month	Received to date
\$5,839	\$5,614	\$ -	\$5,614
295	295	-	295
206	100	-	100
		-	-
774	582	-	582
770	150	-	150
132	102	-	102
12,703	9,850	146	9,996
1,538	655	422	1,077
2,111	1,292	-	1,292
9,376	3,423	-	3,423
160	160	-	160
758	-	-	-
230	59	-	59
Total 34,892	22,280	569	22,848

### 2015-2019 Program

Federal Formula, Flexible, Misc
Federal Core Capacity
Federal New Start
State Assistance
City Capital Funds
MTA Bonds
Asset Sales/Leases
Pay-as-you-go (PAYGO)
Other
B&T Bonds & PAYGO

- 1				
	Funding Plan		Receipts	
	<u>Current</u>	Thru September	This month	Received to date
	\$6,275	\$27	\$ -	\$27
	100	-	-	-
	500	-	-	-
	8,336	-	-	-
	2,492	40	-	40
	5,889	-	-	-
	600	-	-	-
	1,846	500	-	500
	562	36	-	36
	2,856	-	-	-
tal	29,456	603	-	603

Total

# Capital Funding (October 31, 2016) \$ in millions

