

# **QUARTERLY REPORT TO THE FTA**

**Second Avenue Subway  
Phase 1**

**January, February and March 2010**

*Contract C-26002  
Excavation of the Starter Tunnels by means of blasting*



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**EXECUTIVE SUMMARY**
**STATUS OF THE SAS PROJECT BUDGET (EXPENDITURES / CASH FLOW)**

<i>TOTAL (millions)</i> (Exclusive of Financing Costs)	<i>Budget</i>	<i>Awards</i>	<i>Invoiced</i>
	\$ 4,451B	\$ 1,155M*	\$946M
<i>% Budget</i>		26.0%	21.2%
<i>% Awards</i>			81.9%

*\*As of March, 2010, five (5) contracts with an award value of \$1.155M*

**STATUS OF THE SAS PROJECT SCHEDULE**

The SAS Integrated Project Schedule (IPS) forecasts a SAS Revenue Service Date (RSD) of 30-Dec-2016.

The IPS is undergoing changes to mitigate potential delays incurred from Contract 1, TBM Tunneling, and Contract 5A, 86<sup>th</sup> St Station Utility Relocations, which occurred during this quarter. Mitigation measures include incorporation of proposed contract changes that extends the west tunnel TBM Drive from the 72<sup>nd</sup> Street Station North Cross-over to 65<sup>th</sup> Street, reducing the drill and blast mining scope by the C4B 72<sup>nd</sup> Street Station Cavern Contract; transfer of the C1 contract's tunnel concrete lining scope to the C5B 86<sup>th</sup> Station Mining and Lining Contract; and modifications to 86<sup>th</sup> Street Station Ancillary #2 Structure. The proposed changes are under review and will be implemented during the 2<sup>nd</sup> quarter of 2010.

Additional detailed schedule logic for Testing and Commissioning activities will be added to the IPS once NYC Transit approval is received.

Revision 4 of the Integrated Project Schedule is now forecast for the 2<sup>nd</sup> quarter 2010 in order to reflect the proposed changes discussed herein.

<b>Grant Milestones Remaining</b>	<b>Planned Date</b>	<b>Forecast Date</b>
Revenue Operation Date	June 30, 2014	December 2016

**CLOSED CONTRACTS**          None

**ACTIVE CONTRACTS**

- DMJM+Harris Arup, JV – Contract C-81188 – Engineering Services for the SAS Project (DHA & Approved MODs) - \$337.6M + 28.7M = \$366.3M

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- PB Americas – Contract C-81338 – Consultant Construction Management Services for Phase I – (PBA) = \$80.9M

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- S3 Tunnel Constructors – Contract C-26002 – Tunneling from 92<sup>nd</sup> St. to 63<sup>rd</sup> St. by Tunnel Boring Machine (TBM) – (Base & Approved & Negotiated AWOs) - \$337M + \$13.1M = \$350.1M

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- E.E. Cruz & Tully Construction Co., JV – Contract C-26005 – 96<sup>th</sup> St. Station Heavy Civil/Structural Work – (Base & Approved & Negotiated AWOs) - \$321.4M + 1.8M = 323.2M

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- J. D’Annunzio & Sons, Inc. – Contract C-26013 – 86<sup>th</sup> St. Excavation, Utility Relocation & Road Decking Work – (Base & Approved & Negotiated AWOs) - \$34.1M + .400K = \$34.4M

***2010 PLANNED AWARDS***

- 72<sup>nd</sup> Street – Building Demolition & Utility Relocations, Heavy Civil, Mining & Lining, G3/G4 Tunnels (C-26007)
- 63<sup>rd</sup> Street/Lexington Ave. – Station Rehabilitation (C-26006)

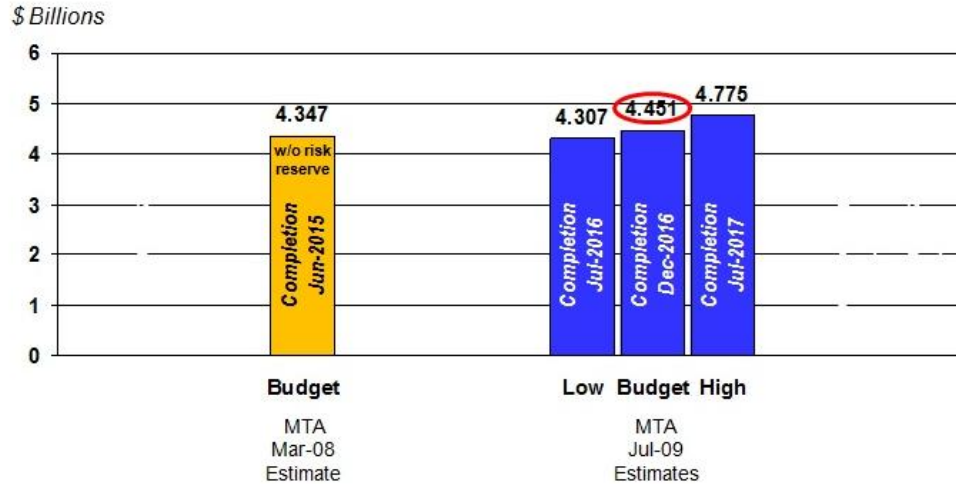
***DESIGN & CONSTRUCTION***    Percent Complete  
***SUPPORT SERVICES***

Final Design - \*96%

Construction Support Services – 18.2%

*\* Percentage complete includes design modification progress to Mod #44.*

**Cost and Schedule**



Note: July 2009 values exclude \$222M in assumed rolling stock savings.

**Construction**

TBM Tunnels from 92<sup>nd</sup> Street to 63<sup>rd</sup> Street (Contract C-26002)

- As of April 15, 2010, 100% of the TBM launch box has been excavated, except for the 100 feet south of the north bulkhead wall. The excavation for remaining 100 feet south of the north bulkhead wall started on April 26, 2010. A vertical conveyor was delivered and erected and components of the horizontal conveyor were delivered to the job site. TBM components continue to be delivered to the site. TBM mining is forecasted to start in May 2010.
- The contractor started blasting at the 72<sup>nd</sup> Street shaft on March 4, 2010 and forecasts completion by the end of April 2010. Blasting at the 69<sup>th</sup> Street shaft is expected to start in early May 2010.

86<sup>th</sup> Street Station: Excavation, Utility Relocation, and Road Decking (Contract C-26013)

- Preparatory work has started for the replacement of the 48” cast iron water main pipe with a 48” ductile iron pipe at the south end as approved by NYCDEP. Traffic was shifted on April 1, 2010, to establish the new work zone.

**96<sup>th</sup> Street Station: Heavy Civil, Structural and Utility Relocation (Contract C-26005)**

- Phase II demolition of Century Lumber building was completed on April 12, 2010. The contractor will be mobilizing to perform trial compensation grouting for 1873 Second Avenue.
- Completed permeation and compensation grouting along the east side of 2<sup>nd</sup> Avenue below the foundations of 1840, 1848 and 1854 2<sup>nd</sup> Avenue between 95<sup>th</sup> and 96<sup>th</sup> Street.
- In response to lessons learned on the TBM launch box excavation and pursuant to an MOU with the City's Department of Buildings, MTACC's Design Consultant is conducting surveys of fragile buildings adjacent to our construction and providing an assessment of potential impacts of our future work on these structures. A total of 74 of 88 fragile buildings have been surveyed as of April 23<sup>rd</sup> for the 72<sup>nd</sup> Street Station. MTACC has received 57 building reports as of April 23<sup>rd</sup> and expects to receive the remaining reports by the end of April 2010.
- Litigation against the MTA and FTA has been initiated by the owners of two residential buildings located adjacent to the planned site of the 69<sup>th</sup> Street ancillary facility for the 72<sup>nd</sup> Street Station.

**Design**

- Held site tour and pre-bid conference for the 72<sup>nd</sup> St. Station Cavern Mining (Contract C-26007) on February 8, 2010. A second pre-bid conference was held on April 23<sup>rd</sup>. Bids are scheduled to be opened on May 20, 2010.
- MTACC modified the design consultant contract to extend the project's design completion date to September 30, 2010. The design changes include the final design for a revised Ancillary #2 at the 86<sup>th</sup> Street Station to reduce the scope and cost of work required at 250 East 87<sup>th</sup> Street.

**Enterprise Level Project Execution Plan (ELPEP)**

- Agreement was reached with FTA on an Enterprise Level Project Execution Plan to manage the implementation of SAS.

- MTA/FTA and FTA's Program Management Oversight Consultant (PMOC) have been meeting weekly to review progress in implementing the requirements of the ELPEP.
- Meetings were held on specific ELPEP deliverables/plans with key MTACC, SAS and ESA staff to facilitate the preparation of specific ELPEP plans.
- Technical Capacity and Capability Plan and Project Management Plan Update process have been conditionally approved by FTA.

## STATUS OF CONTRACTS – ACTIVE CONSTRUCTION

### CONSTRUCTION

#### Contract C-26002 - TBM Tunnels from 92<sup>nd</sup> Street to 63<sup>rd</sup> Street

**Contractor:** S3 Tunnel Constructors JV (S3TC)

**Construction Mgr:** Kirit Mevawala

**Award Date.:** March 20, 2007

**Description:** Second Avenue Subway Contract C-26002 includes construction of tunnels between 92<sup>nd</sup> Street and the existing Lexington Avenue/63<sup>rd</sup> Street Station using a Tunnel Boring Machine and other mining methods. It includes all preparatory work for tunneling, such as MPT, utility relocation and construction of a TBM Launch Box from 92<sup>nd</sup> to 95<sup>th</sup> Street. It also includes construction of access shafts at 69<sup>th</sup> and 72<sup>nd</sup> Streets.

*92<sup>nd</sup>-93<sup>rd</sup> St: continue Starter Tunnels*



#### Progress, Cost and Schedule

#### Package Milestones C-26002

- Commenced drilling and blasting of the two 40ft Starter Tunnels.
- Commenced installation of tunnel muck bins and observation platforms.
- Commenced drilling and blasting of the 72<sup>nd</sup> Street access shaft.
- Continued installation of toe anchors and rock bolts along the secant pile walls at the south end of the launch box.
- Continued installation of the Electrical Distribution Room in the launch box and installation of the conveyor system for the TBM activities.
- Completed soil excavation of the launch box from 93<sup>rd</sup> to the north bulkhead at 95<sup>th</sup> Street, except 100' which is on hold due to building remediation work.
- Completed line drilling for rock excavation at 69<sup>th</sup> Street shaft. Continued excavation to top of rock and installation of ring beams.
- Completed drilling and blasting at south end of the launch box.
- TBM is being energized and power from the TBM substation that is being utilized for the project.

**Additional Work Orders (AWOs):** As of March 31, 2010, seventy-two (72) AWOs have been approved and/or negotiated for a total of \$13,140,652.

Milestone Description	Original Plan	Current Approved Plan (Schedule update #13)	Actual/Forecast (Schedule update #34)
Construction Award	03/2007	03/20/2007 A	03/20/2007 A
Milestone 1 (Launch Box & 1 <sup>st</sup> TBM drive from 92 <sup>nd</sup> to 63 <sup>rd</sup> St)	12/2009	4/5/2010	12/23/2010 F
Substantial Completion	07/2010	1/24/2011	11/4/2011 F

Percent Complete by invoice construction work 67%

#### Package Costs as of 3/31/2010

	Budget	Expenditure	EAC
Construction Bid	\$337,025,000	\$224,389,434	\$337,025,000
Contingency	16,851,250	\$10,715,080	13,140,652
EFA	\$7,000,000	\$2,779,121*	7,000,000
TAL	\$1,000,000	\$127,698	\$1,000,000
Utilities	\$21,556,752	\$9,840,935	21,556,752
Total	\$383,433,002	\$247,852,265	\$378,512,904

\* Includes Consultant Services expenditures

#### Construction Costs (\$000) as of 3/31/2010

Construction Bid	\$ 337,025,000
Construction Bid & Approved/Negotiated AWOs	\$350,165,652
Contingency	\$ 16,851,250
Approved & Negotiated AWOs	\$ (13,140,652)
Remaining Contingency	\$3,710,598

**Safety**

The OSHA Recordable incidents ratio for accidents on this contract is 1.79, which is considerably lower than the Bureau of Labor Statistics/ National Industry Average of 4.2.

The OSHA Lost Time Accidents ratio for this contract is 1.19, also much lower than the Bureau of Labor Statistics/National Industry Average of 2.2.

**Safety Statistics**

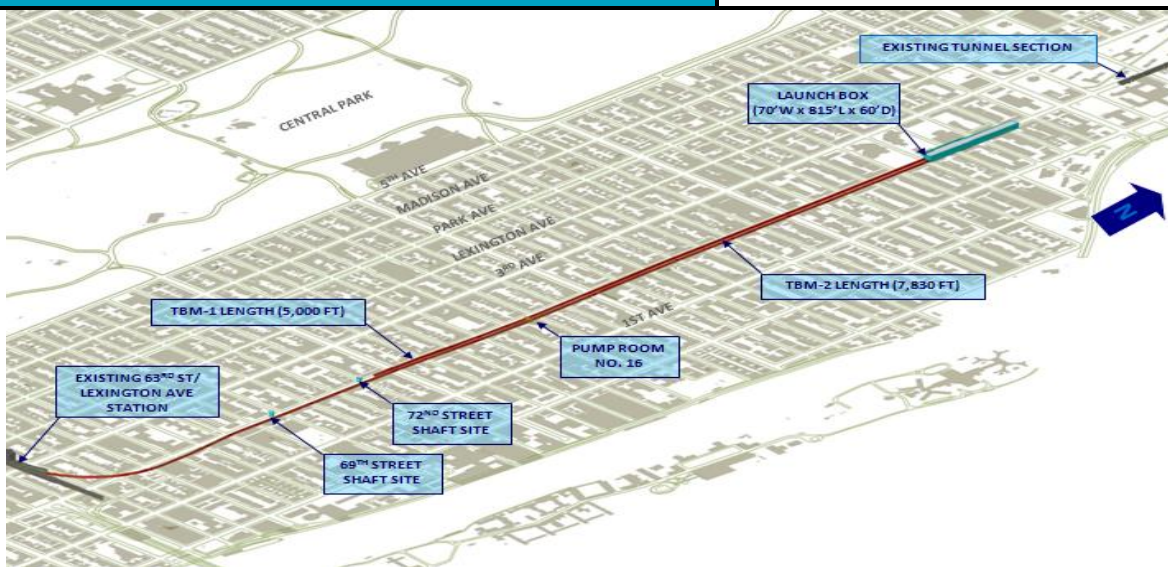
	<i>Project</i>	<i>Contract</i>	<i>BLS*('06)</i>
<i>Recordable Incidents</i>	1.70	1.79	4.2
<i>Lost Time Accidents</i>	1.32	1.19	2.2

\* Bureau of Labor Statistics/National Industry Average

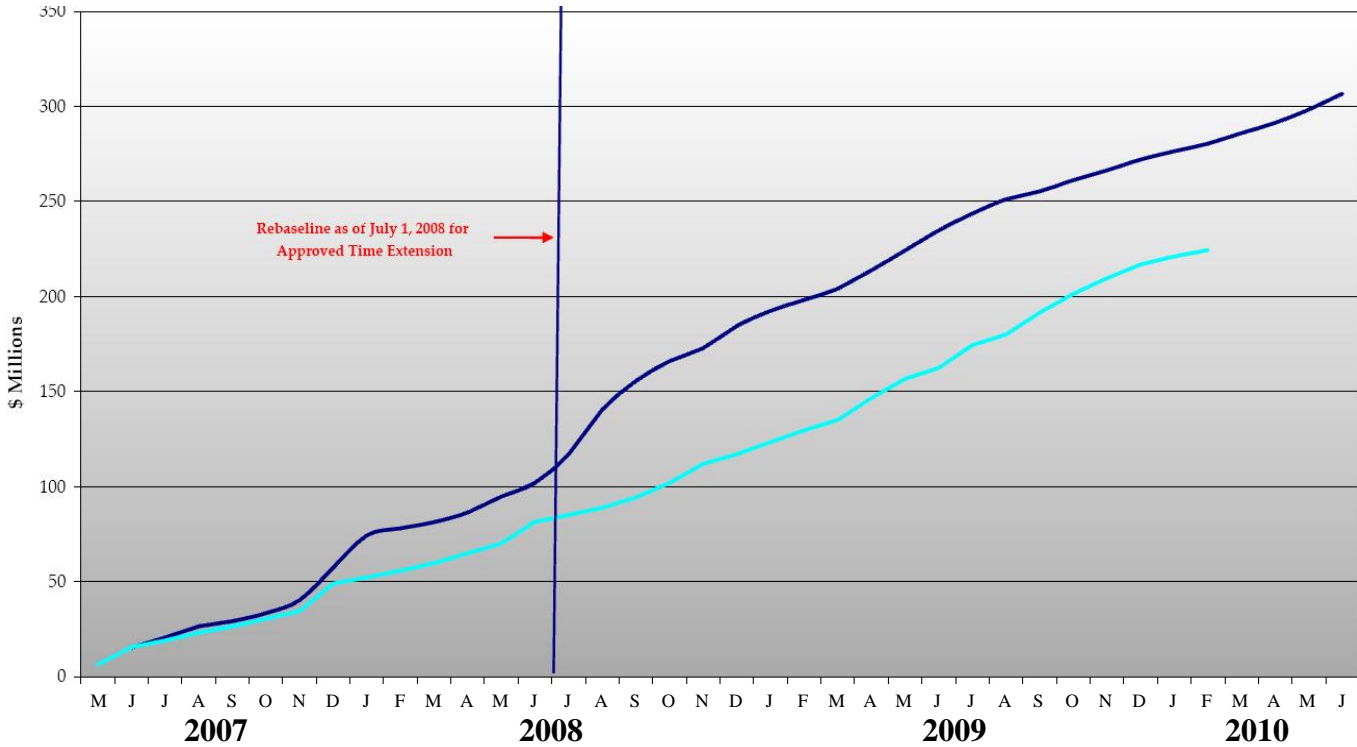
**Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)**

<b>AWO #</b>	<b>Change Order Description</b>	<b>Approved/ Negotiated</b>	<b>Cost of AWO's</b>	<b>Impact Cost</b>	<b>Total</b>
44	Revised Tunnel Alignment	Negotiated	\$711,000	0	\$711,000
89	Sidewalk Sheds at 69 <sup>th</sup> and 72 <sup>nd</sup> St.	Negotiated	\$166,000	0	\$166,000
93	Facade Ties 1821, 23, 25, 27 and 29 2 <sup>nd</sup> Ave	Negotiated	\$223,000	0	\$223,000
		<b>Total</b>	<b>\$1,100,000</b>	<b>0</b>	<b>\$1,100,000</b>

**Site Map**



### Progress by Invoice Contract C-26002: TBM Tunnels from 92<sup>nd</sup> Street to 63<sup>rd</sup> Street



		May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08
	<b>Planned</b>		15.38	20.62	26.58	29.24	33.44	40.28	57.43	74.42	78.07	81.42	86.46
	<b>Actual</b>	6.33	15.60	19.14	23.24	26.42	30.53	34.58	49.03	52.23	55.76	59.79	64.99
		May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09
	<b>Planned</b>	94.78	101.95	117.08	140.56	155.71	166.02	172.88	184.50	192.45	198.26	204.15	213.80
	<b>Actual</b>	70.11	81.47	85.16	88.87	94.38	102.02	112.03	117.11	123.52	129.59	135.16	146.61
		May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10
	<b>Planned</b>	224.30	234.74	243.65	251.20	255.29	261.15	266.38	272.02	276.47	280.48	285.93	291.34
	<b>Actual</b>	156.77	162.47	174.43	180.04	191.47	201.39	209.70	216.87	221.10	224.39		
		May-10	Jun-10										
	<b>Planned</b>	298.36	306.70										
	<b>Actual</b>												

## ACTIVE CONSTRUCTION

### CONSTRUCTION

#### Contract C-26005 – Heavy Civil, Structural and Utility Relocation

**Contractor:** E.E. Cruz/Tully Construction Co. JV

**Construction Mgr:** Stan Sinha

**Award Date:** May 28, 2009

**Description:** Second Avenue Subway Contract C-26005 is for the heavy civil/structural construction involving utility relocation, demolition of existing buildings, underpinning, slurry wall construction, excavation, and station invert slab of the 96<sup>th</sup> Street main station box, entrances and ancillary facilities.

**NOTE:**

- *Federal Funding from the American Recovery and Reinvestment Act (ARRA) has been designated for this contract. These funds to the MTA in the amount of \$69,243,887 were released on March 5, 2010.*



*Installation of splice boxes between 96<sup>th</sup> and 97<sup>th</sup> Streets*

#### Progress, Cost and Schedule

- Completed demolition of Century Lumber building.
- Continued east side Permeation Grouting at 1840, 1848 and 1854 2<sup>nd</sup> Avenue between 95<sup>th</sup> and 96<sup>th</sup> Streets to mitigate potential settlement during sewer excavation and CFA pile installation.
- Continued excavation for 30” gas main and Con Edison regulators on the north side of 96<sup>th</sup> Street between 1<sup>st</sup> and 2<sup>nd</sup> Avenue.
- Continued to install splice boxes on the east side between 96<sup>th</sup> and 97<sup>th</sup> Streets. Completed installation of gas, electric, water and ECS utilities between these streets.
- Completed installation and backfill around sewer chambers 95-4 and 95-5.
- Completed installation of 24” diameter sewer pipe and concrete cradle on the east side between 97 and 99<sup>th</sup> Streets. Continued to install Con Edison electric manhole E-132 between 97<sup>th</sup> and 99<sup>th</sup> Streets.
- Completed and prepared an In-Situ Spoils Classification Findings Report for MGP contaminated area in front of Metropolitan Hospital Center between 97<sup>th</sup> and 99<sup>th</sup> Streets.
- Completed demolition of existing subway vents on the east side between 99<sup>th</sup> and 100<sup>th</sup> Streets to install Con Edison ducts.
- Completed installation of Con Edison electrical ducts and manholes on the east side between 99<sup>th</sup> and 100<sup>th</sup> Streets.

**Additional Work Orders (AWOs):** As of March 31, 2010, sixteen (16) AWOs have been approved and/or negotiated for a total of \$1,753,614 (excluding Option 1).

#### Package Milestones C-26005

Milestone Description	Original Plan	Current Approved Plan	Actual/Forecast (Schedule update #10)
Construction Award	10/31/2008	5/28/2009	5/28/2009 (A)
Milestone #1 (North Station Area – 97 <sup>th</sup> to 99 St. Work)	10/20/2010	1/27/2012	6/6/2012 F
Milestone 2 (Ancillary 1, Entrance 1 and 2, & South St. Area but excl. Opt 2)	4/21/2011	8/7/2012	08/07/2012 F
Substantial Completion	1/11/2012	2/25/2013	7/4/2013 F

*Percent Complete by invoice construction work 15%*

#### Package Costs as of 3/31/10

	Budget	Expenditure	EAC
Construction Bid	\$325,000,000	\$49,025,584	\$321,390,000
Contingency	16,250,000	\$353,434	1,753,614
EFA	5,000,000	\$456,735*	5,000,000
TAL	2,000,000	\$10,032	2,000,000
Utilities	15,000,000	\$19,391	15,000,000
Total	\$363,250,000	\$49,865,176	\$345,143,614

*\* Includes Consultant Services expenditures*

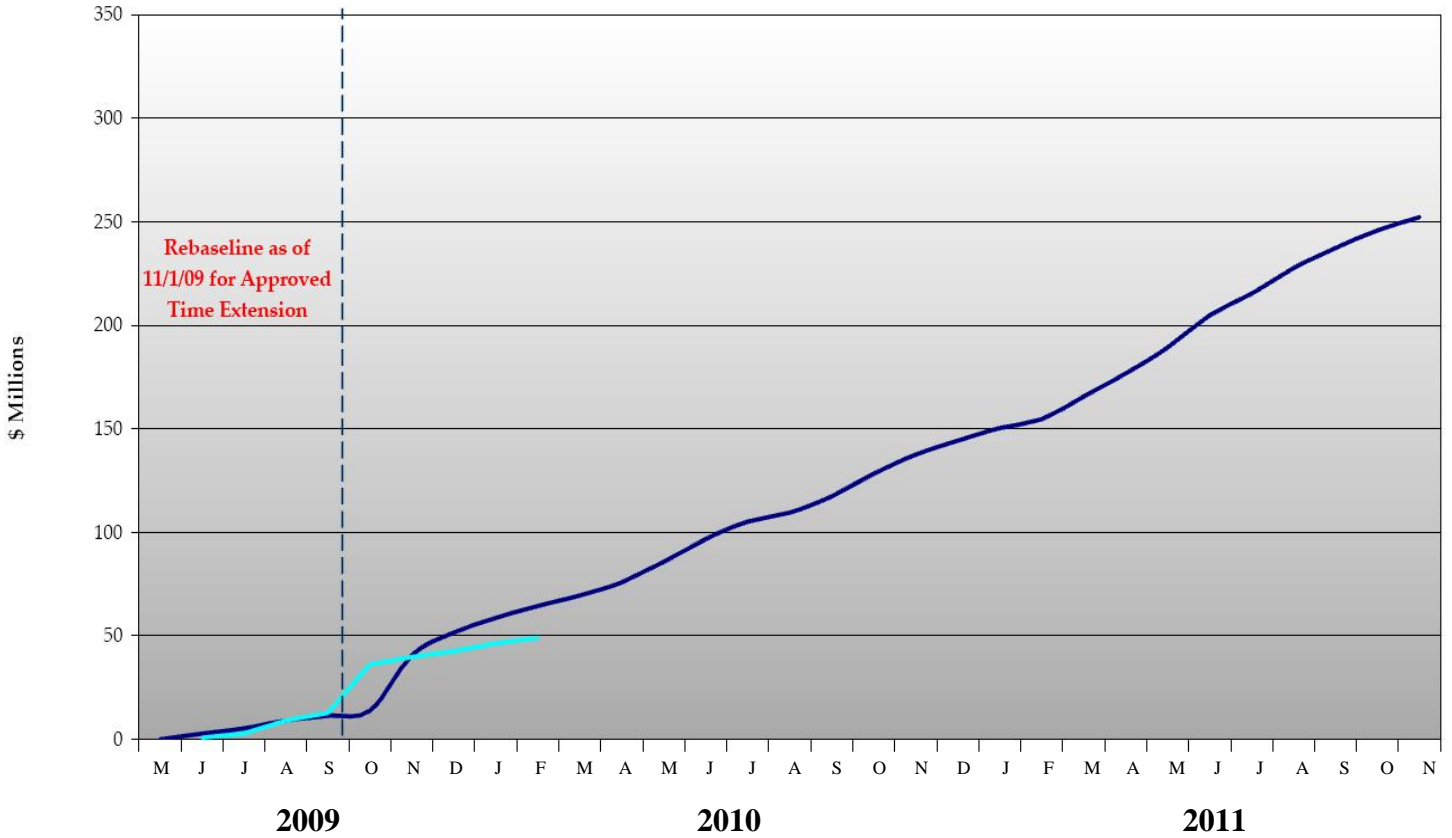
#### Construction Costs (\$000) as of 3/31/10

Construction Bid	\$303,863,700
Option 1	\$17,526,300*
Option 2	\$3,610,000
Construction Bid (Includes Options)	\$325,000,000
Construction Bid/Option 1 & Approved/Negotiated AWOs	\$323,143,614
Contingency	\$16,250,000
Approved & Negotiated AWOs	\$(1,753,614)
Remaining Contingency	\$14,496,386

<b>Safety</b>													
<p>The OSHA Recordable incidents ratio for accidents on this contract is 0.0 The Bureau of Labor Statistics/ National Industry Average is 4.2.</p> <p>The OSHA Lost Time Accidents ratio for this contract is 0.0 The Bureau of Labor Statistics/National Industry Average is 2.2.</p>	<b>Safety Statistics</b>												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;"></th> <th style="width: 20%;"><i>Project</i></th> <th style="width: 20%;"><i>Contract</i></th> <th style="width: 30%;"><i>BLS*('06)</i></th> </tr> </thead> <tbody> <tr> <td><i>Recordable Incidents</i></td> <td style="text-align: center;">1.70</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">4.2</td> </tr> <tr> <td><i>Lost Time Accidents</i></td> <td style="text-align: center;">1.32</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">2.2</td> </tr> </tbody> </table>		<i>Project</i>	<i>Contract</i>	<i>BLS*('06)</i>	<i>Recordable Incidents</i>	1.70	0.0	4.2	<i>Lost Time Accidents</i>	1.32	0.0	2.2
		<i>Project</i>	<i>Contract</i>	<i>BLS*('06)</i>									
	<i>Recordable Incidents</i>	1.70	0.0	4.2									
<i>Lost Time Accidents</i>	1.32	0.0	2.2										
<i>* Bureau of Labor Statistics/National Industry Average</i>													

<b>Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)</b>					
AWO #	Change Order Description	Approved/ Negotiated	Cost of AWO's	Impact Cost	Total
8	Added Building Instruments 93-97 St.	Negotiated	\$ 625,000	0	\$ 625,000
12	Changes for Sewer Chambers 95-4 and 95-5	Negotiated	\$ 128,000	0	\$ 128,000
15	Protect East Wall of Building 232 E. 97 <sup>th</sup> Street	Negotiated	\$ 209,780	0	\$ 209,780
<b>Total</b>			<b>\$ 962,780</b>	<b>0</b>	<b>\$ 962,780</b>

**Progress by Invoice**  
**Contract C-26005: Heavy Civil, Structural and Utility Relocation**



		May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10
	<b>Planned</b>	0.04	2.82	5.30	9.16	11.45	13.90	40.68	51.65	58.64	64.43	69.46	75.81
	<b>Actual</b>	-	.91	2.91	9.11	12.73	36.15	39.85	42.58	46.37	49.03		
		May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
	<b>Planned</b>	85.73	96.91	105.21	109.56	117.36	128.25	137.53	144.26	150.32	154.61	165.53	176.78
	<b>Actual</b>												
		May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11					
	<b>Planned</b>	189.25	204.72	215.26	227.63	237.31	245.77	252.25					
	<b>Actual</b>												

## ACTIVE CONSTRUCTION

### CONSTRUCTION

#### Contract C-26013 – 86<sup>th</sup> Street Station – Excavation, Utility Relocation, and Road Decking

**Contractor:** J. D’Annunzio & Sons, Inc.

**Construction Mgr:** Sant Singh

**Award Date:** July 8, 2009

**Description:** Second Avenue Subway Contract C-26013 is for utility relocation, open excavation and road decking. The scope of this contract is to prepare the site and provide access for the subsequent Cavern and MEP contracts.



**NOTE:**

**Federal Funding from the American Recovery and Reinvestment Act (ARRA) has been designated for this contract. These funds to the MTA in the amount of \$9,626,113 were released on March 5, 2010.**

*12” PE pipes for gas-tie-in at NE Corner of 87<sup>th</sup> Street and 2<sup>nd</sup> Avenue.*

#### Progress, Cost and Schedule

#### Package Milestones C-26013

- Installed Con Edison electric layout ducts south of manhole 59392 between 81<sup>st</sup> & 82<sup>nd</sup> Streets-east side of 2<sup>nd</sup> Avenue.
- Installed 12” distribution water main on east side of 83<sup>rd</sup> and 2<sup>nd</sup> Avenue.
- Installed Con Edison electrical ducts and manholes as per layout drawings.
- Installed Con Edison transformer vaults at east side 87<sup>th</sup> Street.
- Installed Con Edison gas mains.
- Con Edison revising electric and gas layouts to bypass relocated North access shaft.
- Performed pre-construction and building classification survey.
- DEP gave approval on installation of 48” ductile iron pipe on March 31<sup>st</sup>, and shutdown is scheduled for mid April.

Milestone Description	Original Plan	Current Approved Plan	Actual/Forecast (Schedule update #9)
Construction Award	6/15/2009	7/8/2009 A	7/8/2009 A
Milestone #1	4/15/2010	5/7/2010	N/A
Milestone # 2 (North Area)	11/15/2010	12/7/2010	12/30/2010
Substantial Completion	1/15/2011	2/7/2011	8/17/2011

Percent Complete by invoice construction work 25%

#### Package Costs as of 3/31/2010

	Budget	Expenditure	EAC
Construction Bid	\$34,070,039	\$8,566,934	\$34,070,039
Contingency	5,110,500	89,936	414,190
EFA	2,600,000	402,057	2,600,000
TAL	1,000,000	1,130	1,000,000
Utilities	2,800,000	6,356	2,800,000
Total	\$45,580,539	\$9,066,383	\$40,884,229

#### Construction Costs (\$000) as of 3/31/2010

Construction Bid	\$34,070,039
Construction Bid & Approved/Negotiated AWO’s	\$34,484,229
Contingency	\$5,110,500
Approved & Negotiated AWO’s	\$(414,190)
Remaining Contingency	\$4,696,310

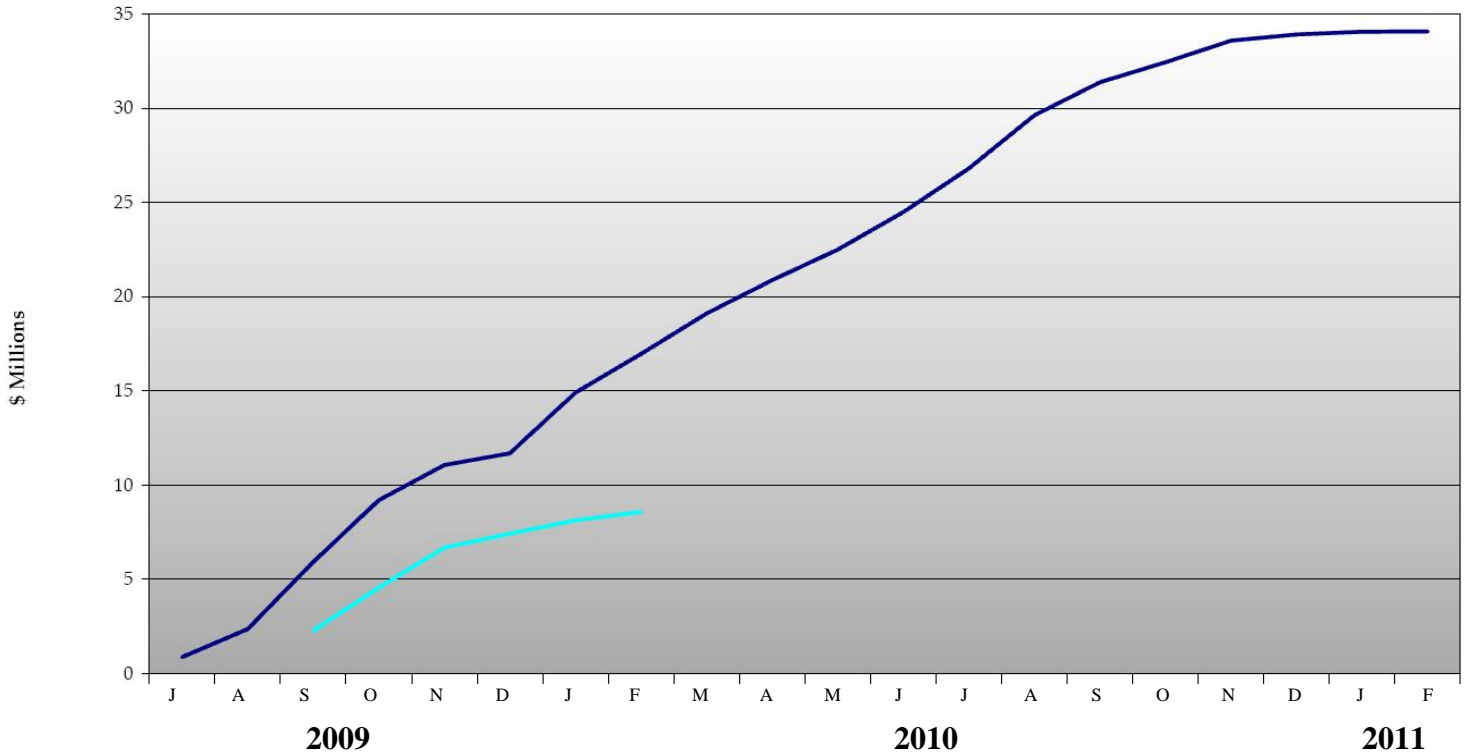
**Additional Work Orders (AWOs):** As of March 31, 2010, seven (7) AWOs have been approved and/or negotiated for a total of \$414, 190.



**Quarterly Review Report – 1<sup>st</sup> Quarter 2010**

<b>Safety</b>				
<p>The OSHA Recordable incidents ratio for accidents on this contract is 7.92 The Bureau of Labor Statistics/ National Industry Average is 4.2.</p> <p>The OSHA Lost Time Accidents ratio for this contract is 7.92 The Bureau of Labor Statistics/National Industry Average is 2.2.</p>	<b>Safety Statistics</b>			
		<i>Project</i>	<i>Contract</i>	<i>BLS*(‘06)</i>
	<i>Recordable Incidents</i>	1.70	7.92	4.2
	<i>Lost Time Accidents</i>	1.32	7.92	2.2
* Bureau of Labor Statistics/National Industry Average				

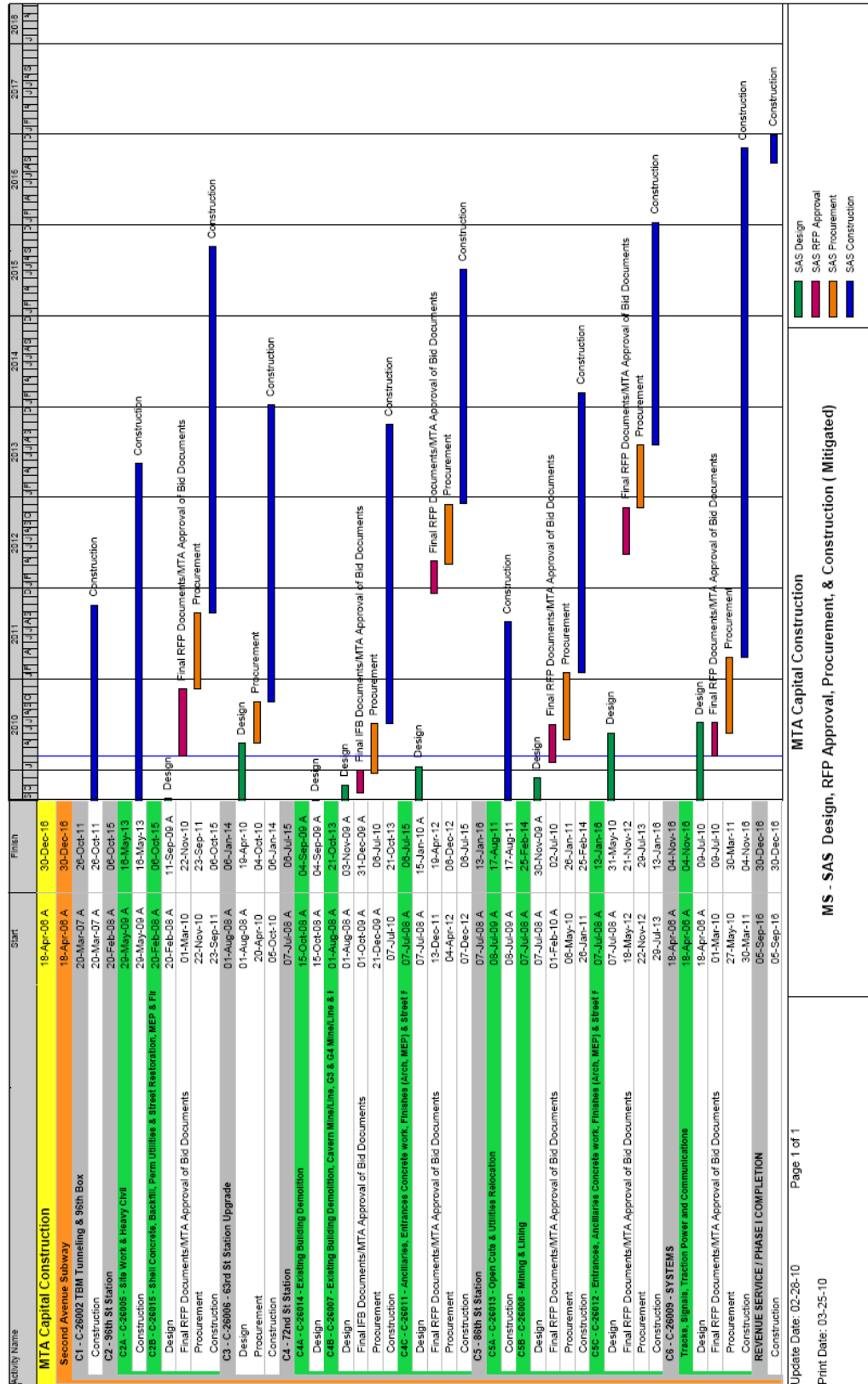
<b>Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)</b>					
<b>AWO #</b>	<b>Change Order Description</b>	<b>Approved/ Negotiated</b>	<b>Cost of AWO's</b>	<b>Impact Cost</b>	<b>Total</b>
4	Con Edison Electrical Layouts for East Side stage	Negotiated	\$ 130,000	0	\$ 130,000
5	Con Edison Gas Layouts	Negotiated	\$ 115,000	0	\$ 115,000
<b>Total</b>			<b>\$ 245,000</b>	<b>0</b>	<b>\$ 245,000</b>

**Progress by Invoice**  
**Contract C-26013: Excavation, Utility Relocation, and Road Decking**



		Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10
	<b>Planned</b>	.86	2.35	5.91	9.19	11.05	11.68	14.90	16.96	19.10	20.88
	<b>Actual</b>	--	--	2.27	4.55	6.67	7.42	8.12	8.57		
		May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11
	<b>Planned</b>	22.50	24.48	26.80	29.63	31.38	32.44	33.59	33.92	34.06	34.07
	<b>Actual</b>										

# FUNDING AND PROJECT BUDGET Schedule and Proposed Schedule



Update Date: 02-28-10  
Print Date: 03-25-10  
Page 1 of 1

MTA Capital Construction  
MS - SAS Design, RFP Approval, Procurement, & Construction (Mitigated)

- SAS Design
- SAS RFP Approval
- SAS Procurement
- SAS Construction

## FFGA Baseline & Current Budget Summary (As of March 31, 2010)

Component Design	FFGA Budget*	(A) Current Budget*	Awarded Value	Expended to Date	(B) EAC*	(A-B) Variance
EIS	\$11,615,278	\$11,615,278	\$11,615,278	11,160,180	\$11,615,278	\$0
PE & FP Engineering**	\$228,903,629	\$228,903,629	\$228,903,629	\$227,103,314	\$228,903,629	\$0
Final Design	\$166,334,079	\$192,834,079	\$192,834,079	\$147,779,408	\$192,834,079	\$0
<b>Subtotal Award Value</b>	<b>\$406,852,986</b>	<b>\$433,352,986</b>	<b>\$433,352,986</b>	<b>\$386,042,902</b>	<b>\$433,352,986</b>	<b>\$0</b>
FD Reserve***	\$3,147,014	\$11,647,014			\$11,647,014	\$0
<b>Subtotal</b>	<b>\$410,000,000</b>	<b>\$445,000,000</b>	<b>\$433,352,986</b>	<b>\$386,042,902</b>	<b>\$445,000,000</b>	<b>\$0</b>
Construction	FFGA Budget*	(A) Current Budget*	Awarded Value	Expended to Date	(B) EAC*	(A-B) Variance
Contracts Awarded & Contingency (incl. AWOs billed and/or approved)	\$734,306,789	\$734,306,789	\$710,793,495	\$293,140,403	\$710,793,495	\$23,513,294
Contracts Awarded (Remaining Conting.)	\$0	\$0	\$0	\$0	\$23,513,294	\$23,513,294
Contracts to be Awarded***	\$1,866,904,967	\$2,255,904,967	\$0	\$0	\$2,255,904,967	\$0
<b>Subtotal</b>	<b>\$2,601,211,756</b>	<b>\$2,990,211,756</b>	<b>\$710,793,495</b>	<b>\$293,140,403</b>	<b>\$2,990,211,756</b>	<b>\$0</b>
Contracts to be awarded						
Contingency	\$90,788,244	\$122,788,244	\$0	\$0	\$122,788,244	\$0
NYCT Labor	\$28,000,000	\$33,000,000	\$4,000,000	\$138,860	\$33,000,000	\$0
EFA	\$48,000,000	\$70,000,000	\$14,600,000	\$3,637,913	\$70,000,000	\$0
Utilities	\$58,000,000	\$64,000,000	\$39,357,000	\$9,866,682	\$64,000,000	\$0
CCM	\$80,940,647	\$96,000,000	\$80,940,647	\$15,185,880	\$96,000,000	\$0
Artwork	\$6,000,000	\$6,000,000	\$0	\$0	\$6,000,000	\$0
Rolling Stock*	152,999,000	\$0	\$0	\$0	\$0	\$0
Real Estate	\$240,960,000	\$245,000,000	\$108,980,458	\$105,239,545	\$245,000,000	\$0
Cost To Cure	\$0	\$47,000,000	\$1,685,000	\$209,295	\$47,000,000	\$0
OCIP	\$160,000,000	\$172,000,000	\$132,900,000	\$132,454,796	\$172,000,000	\$0
Reserve & Executive Reserve****	\$173,100,353	\$160,000,000	\$0	\$0	\$160,000,000	\$0
<b>Subtotal</b>	<b>\$1,038,788,244</b>	<b>\$1,015,788,244</b>	<b>\$382,463,105</b>	<b>\$266,732,972</b>	<b>\$1,015,788,244</b>	<b>\$0</b>
<b>Total Award Value</b>	<b>\$4,046,810,118</b>	<b>\$4,439,352,986</b>	<b>\$1,526,609,586</b>	<b>\$945,916,276</b>	<b>\$4,439,352,986</b>	
<b>Total Project Cost (includes Reserve)</b>	<b>\$4,050,000,000</b>	<b>\$4,451,000,000</b>			<b>\$4,451,000,000</b>	<b>\$0</b>
<b>Estimated Financing Cost</b>	\$816,614,000	\$816,614,000			\$816,614,000	
<b>Totals Including Financing Cost</b>	<b>\$4,866,614,000</b>	<b>\$5,267,614,000</b>	<b>\$1,526,609,586</b>	<b>\$945,916,276</b>	<b>\$5,267,614,000</b>	<b>\$0</b>

\* The current Budget & EAC of \$4,451B is reflected. Based on the revised budget a decrease of \$11M for escalators & SCADA and the deletion of rolling stock.

\*\* Includes Independent Engr. Consultant (IEC).

\*\*\*Contracts To Be Awarded CB & EAC of \$2,273,904,967 reduced by \$18M for Value Engineering.

\*\*\*\* MOD #38 funds of \$26.5M have been included in FD for Design Consultant based on Notice to Proceed. Funds for FD Reserve total \$11.7M (which incl. previous amount) have not been encumbered. Therefore, no shortfall exists in Final Design.

Note: Baseline Budget to be finalized with the FFGA. FFGA budget for construction is an estimate based on SCC categories.

**Current Funding Status (As March 31, 2010)**
*(\$ in Millions)*

<b>Total Budget</b> (Exclusive of Financing Costs)	<b>\$ 4,451.0</b>				
	<b>Budget</b>	<b>Federal</b>			<b>Local</b>
<b>MTA Capital Programs</b>		<b>New Starts</b>	<b>ARRA New Start</b>	<b>Other</b>	
– MTA 1995-1999 Capital Program	0	0	0	0	0
– MTA 2000-2004 Capital Program	1,050.0	33.42	0	2.46	1,014.12
– MTA 2005-2009 Capital Program*	1,914.0	1,187.68	78.87	71.43	575.99
– MTA 2010-2014 Capital Program	1,487.0				1,487.00
<b>Total Approved Capital Program*</b>	<b>\$ 4,451.0</b>	<b>\$1,221.1</b>	<b>\$78.87</b>	<b>\$73.89</b>	<b>\$3,077.11</b>

\* Note: As of 1<sup>st</sup> Qrt 2010, this grant is obligated

<b>Value of Contract Awards</b>	<b>\$ 1,526.6</b>	<b>100%</b>
- Federal Share of Contract Awards	260.9	17.1%
- Local Share of Contract Awards	1,265.7	82.9%
<b>Value of Finance Charges Incurred</b> (based on prorate share)	<b>\$82.2M</b>	

**Summary of Federal Grants Received**

<b>Grant No.</b>	<b>FTA Award Date</b>	<b>FFY</b>	<b>Obligation Amount</b>	<b>Disbursement</b>
NY030397 –NEW START	6/13/2002	2002	4.980	4.980
<b>Subtotal NY030397</b>			<b>4.980</b>	<b>4.980</b>
NY030408-00 – NEW START	7/08/2003	2003	1.968	1.968
NY030408-01 – NEW START	09/21/2004	2004	1.967	1.967
NY030408-02 – NEW START	8/04/2006	2006	24.503	24.503
NY030408-03 – NEW START	1/08/2007	n/a*	0.0000	0.000
NY030408-04 – NEW START	4/9/2008	n/a**	0.0000	0.000
NY030408-05 – NEW START	9/25/2008	2008	167.810	164.374
<b>Subtotal NY030408</b>			<b>196.248</b>	<b>192.812</b>
NY17X00100*** - NON NS	9/15/2005	2005	2.460	2.460
<b>Subtotal of NY17X001</b>			<b>2.460</b>	<b>2.460</b>
NY95X009-00-CMAQ – NON NS	9/12/2008	2008	25.633	8.652
<b>Subtotal of NY95X009-00</b>			<b>25.633</b>	<b>8.652</b>
NY95X015-00 – NON NS	9/22/2009	2009	45.800	0.000
<b>Subtotal of NY95X015-00</b>			<b>45.800</b>	<b>0.000</b>
NY360001 - ARRA	3/2/2010	2010	78.870	51.970
<b>Subtotal of NY360001</b>			<b>78.870</b>	<b>51.970</b>
<b>Total All Grants</b>			<b>353.991</b>	<b>260.874</b>

**ARRA STIMULUS GRANT WAS AWARDED ON MARCH 2, 2010.**

\*Zero dollar grant provided for Early Systems Work Agreement

\*\*Zero dollar grant provided for Full Funding Grant Agreement

\*\*\*This amount is NOT included in the \$1.3M FFGA

**SECOND QUARTER 2010– LOOK AHEAD****MTACC Management**

- Continue support of sub-plan preparation for the Enterprise Level Project Execution Plan for the Second Avenue Subway Project.
- Continue working with FTA on development of FFGA Recovery Plan.

**Design**86<sup>th</sup> Street Station*Contract C-26008*

- DHA to submit modification # 53 cost estimate breakdown for work already performed and work remaining for approval by MTACC.
- Modification #57 negotiation meeting with DHA.
- Revision to contract drawings pending negotiation and approval of Mod # 57.

*Contract C-26012*

- Revision to contract drawings pending negotiation and approval of Mod #57.

63<sup>rd</sup> Street Station*Contract C-26006*

- The Final Design sign-off will be completed by April 30<sup>th</sup>.
- The IFB procurement of the contract will start in first week of May and is scheduled to be advertised by May 31<sup>st</sup>.

72<sup>nd</sup> Street Station*Contract C-26007*

- 2<sup>nd</sup> pre-bid conference scheduled for April 23, 2010.
- Bids close on May 20, 2010.
- Evaluate bids and select bid.

*Contract C-26011*

- Incorporate all comments received from NYCT to complete 100% design.
- Sign and seal drawings and specifications.

**Construction**

TBM Tunnels from 92<sup>nd</sup> St. to 63<sup>rd</sup> St. (Contract C-26002):

- Complete blasting of the Starter Tunnels in April.
- Continue excavating rock by means of blasting at the shafts.
- Invert elevation to be reached throughout the launch box in April 2010.
- Con Edison substation power up anticipated at the beginning of April 2010.
- Receive delivery of the TBM beginning in April 2010.
- Commence TBM mining in May 2010.

96<sup>th</sup> Street Station – Heavy Civil, Structural and Utility Relocation (Contract C-26005):

- Start sewer excavation on the east side of 2<sup>nd</sup> Avenue between 95<sup>th</sup> and 96<sup>th</sup> Street.
- Complete Century Lumber building demolition.
- Start west side permeation grouting at 1867, 1869, 1871 and 1873 2<sup>nd</sup> Avenue between 96<sup>th</sup> and 97<sup>th</sup> Street.
- Start and complete west side compensation grouting trial program at 1873 2<sup>nd</sup> Avenue.
- Start Phase I building modification/repair at 1873 2<sup>nd</sup> Avenue.

86<sup>th</sup> Street Station – Excavation, Utility Relocation, and Road Decking (Contract C-26013):

- Installation of 48” trunk water main at south end to be completed within the DEP shut down season ending May 2010.
- Continue utility work on east side of 2<sup>nd</sup> Avenue between 82<sup>nd</sup> and 84<sup>th</sup> streets.
- Continue ongoing Utility work on 87<sup>th</sup> Street.

**Budget and Finance**

- Update Standardized Cost Categories to reflect new packaging plan and revised schedule and budget.
- Support MTACC Management on working with FTA on development of FFGA Recovery Plan.

**Quality**

- Complete the hiring of SAS MTACC Quality Manager.
- Participate in the audits of major subcontractors and suppliers conducted by the contractors.
- Conduct Quarterly Quality Oversight for all active contracts as per schedule.
- Review and approve Quality Work Plans and actively involved in the Preparatory Phase Sessions.
- Conduct audit of the Design QA/QC process for every drawing and specification package before release.
- Conduct Lessons Learned discussions and site visits to other projects of the same nature.
- Conduct training for the MTACC Project Process Procedures.

**Public Outreach**

- Continue to address correspondence received through letters and emails regarding the SAS project.
- Continue to keep a log of all phone calls made to the SAS hotline as well as the Construction Field Office desk.
- Continue email advisories to alert elected officials and community in advance of significant changes at the construction site or new construction activity.
- Continue to provide field liaison support at Construction Field Office to handle daily concerns of pedestrians, residents and businesses.
- Continue to arrange meetings with community groups, condo boards, etc. to address concerns specific to their neighborhoods/buildings.
- Continue to attend meetings with Second Avenue Business Association (SABA) to discuss their concerns.
- Continue to coordinate placement of monitoring equipment with building owners.