



# QUARTERLY REPORT

Second Avenue Subway  
Phase 1

October, November and December 2009

*Contract C-26002  
Launch Box Area: Concrete placement for mud mat between DB #67-71*



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

<b>TOTAL</b> (millions) (Exclusive of Financing Costs)	<i>Budget</i>	<i>Awards</i>	<i>Invoiced</i>
	\$ 4,451. B	\$ 1,153.4*	\$895
<i>% Budget</i>		26.0%	20.1%
<i>% Awards</i>			77.6%

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**STATUS OF THE SAS PROJECT SCHEDULE**


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The SAS Project has completed its first year Rev3 UP29 with a data date of 30-Nov-08 which was formally issued to FTA. Through the current period, the SAS Integrated Project Schedule (IPS) still forecasts a SAS Revenue Service Date (RSD) of 30-Dec-2016.

Through 31-Dec-2009, the IPS has undergone several significant changes including added detail for Testing and Commissioning, Real Estate, and the incorporation of the Contractor Summary Schedule Logic for Contracts C2A C-26005 and C5A C-26013. In addition, the C3 Construction Schedule Logic for 63<sup>rd</sup> Street Station was entirely replaced with updated information based on the allowed GO's from NYCT. All of these changes have provided added visibility to the IPS for monitoring and forecasting purposes.

During the 1<sup>st</sup> quarter of 2010, the SAS Team plans to develop and roll out Revision 4 of the IPS where this will then become the SAS Schedule for monitoring and forecasting progress through 2010.

<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**

*\*As of December 2009, Five (5) contracts with an award value of \$1,153.4M*

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

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

- 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 + \$11.9M

- 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 + .840K

- 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 + .93K

**2010 PLANNED AWARDS**

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

**DESIGN & CONSTRUCTION**    % Complete  
**SUPPORT SERVICES**

Final Design - \*96%

Construction Support Services – 15.3%

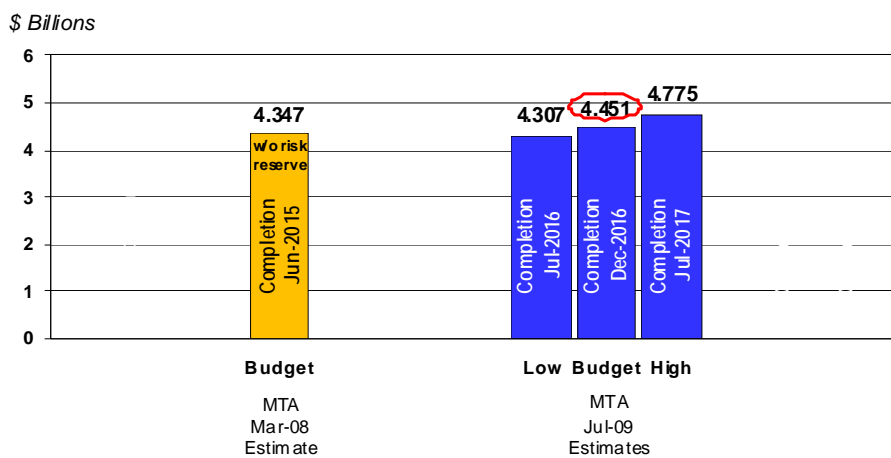
\* Percentage complete includes design modification progress up to Mod #44 ( Comm. & Compliance Changes).

### Cost and Schedule

- The FTA and MTACC are jointly developing the Enterprise Level Project Execution Plan (ELPEP) and related plans, which are intended to incorporate strategies for risk mitigation.



### Second Avenue Subway – Budget & Schedule



Note: July 2009 values exclude \$22.2M in assumed rolling stock savings.

### Construction

- On October 30, 2009, S3 Tunnel Constructors, the Contractor for the TBM tunneling contract, completed the stabilization work necessary to commence blasting adjacent to 1766/1768 Second Avenue. The stabilization work corrected deficiencies that existed prior to construction.
- Controlled blasting began in the TBM launch box on November 4. To date, approximately 75 percent of the excavation in the launch box has been completed. Started line drilling excavation at 69<sup>th</sup> Street Shaft on December 7, 2009. Started placement of concrete mud slab at the north end of the Launch Box in mid-December 2009. Blasting is expected to be completed by February 28, 2010.
- The work on replacement of 48” water main under the 86<sup>th</sup> Street Station contract for Excavation, Utility Relocation, and Road Decking (Contract C-26013) could not be started due to lack of DEP’s approval. DEP is insisting to have a 60” steel water main in

place of the existing 48” cast iron water main where contract calls for in kind replacement. Several meetings with DEP senior managers have taken place but the issue has not been resolved as of yet. Further high level meetings are planned.

- An Industry Outreach Meeting was held on October 22, 2009 for the 72<sup>nd</sup> Street Station contract for Cavern Mining, G3/G4 Tunnels and Heavy Civil/Structural Work (C-26007). The meeting was well attended by contractor representatives.

## **Design**

- A Finding of No Significant Impact (FONSI) from the FTA on the Environmental Assessment on proposed design changes to entrances at both 72<sup>nd</sup> Street and 86<sup>th</sup> Street Stations on the Second Avenue Subway was approved and issued on October 29, 2009.
- DHA completed the following contract packages:
  - 72<sup>nd</sup> Street Station Existing Building Demolition (Contract C-26014)
  - 72<sup>nd</sup> Street Station G3/G4 Tunnels, Cavern and Structural Shell (Contract C-26007)
- DHA completed 95% Final Design of the following:
  - 63<sup>rd</sup> Street Station (Contract C-26006)
  - 72<sup>nd</sup> Street Station MEP and Architectural Finishes (Contract C-26011)
  - 86<sup>th</sup> Street Station Cavern and Structural Shell (Contract C-26008)
  - 86<sup>th</sup> Street Station MEP and Architectural Finishes (Contract C-26012)
- DHA and NYCT substantially completed 95% Final Design of Contract 6, Systems:
  - Traction Power, by DHA, 95%
  - Communication, by DHA, 90% (95% by the end of January 2010)
  - Signal, by NYCT, 95%
  - Track, by NYCT, 95%

## **Procurement**

- The 72<sup>nd</sup> Street Station Cavern and G3/G4 Tunnels Contract (C-26007) was advertised on December 21, 2009 in the New York State Contract Reporter and on December 24, 2009 in the New York Post. The Bid Opening is anticipated to be in April 2010.
- MTACC decided to combine Contract package C-26014 with C-26007 since the two awards overlap and to reduce the risk of claims due to potential delays in property access dates for Ancillary 1 and 2.

**STATUS OF PROJECTS – 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.



*Placement of concrete mud mat*

**Progress, Cost and Schedule**

**Progress: Launch Box**

- Commenced drilling and blasting on 11/4/2009 at the south end of the launch box.
- Commenced curtain grouting along the perimeter of the Launch Box.
- Commenced construction of the Electrical Distribution Room in the launch Box.
- Mass excavation of the launch box ongoing at the north end of the launch box. Commenced installation of mud mat at subgrade level.
- Continued installation of toe anchors and rock bolts along the secant pile walls at the south end of the launch box.
- Continued building monitoring on east side & west side with Automated Surveying Instrumentation.
- Continued Con Edison transfer of electrical service from old to the newly installed system.
- Ongoing monitoring of dewatering system.
- Completed installation of all cross bracing in the launch box.

**69<sup>th</sup> and 72<sup>nd</sup> Streets Shaft**

- Commenced and completed line drilling along perimeter of the proposed Shaft at 69<sup>th</sup> St. in preparation of drilling and blasting of rock.
- Completed installation electrical and ECS duct banks and tie-in of gas and steam mains. Continue re-routing of Elantic cable.
- Continued Con Edison transfer of electrical service from old to the newly installed system

**96<sup>th</sup> Street Yard:**

- Continued testing of TBM Substation. Scheduled final Con Edison inspection for January 2010.

**Additional Work Orders:** As of 12/31/09, sixty-six (66) Additional Work Orders for a total of \$11,931,152 have been executed (approved and/or negotiated).

**Package Milestones C-26002**

<i>Milestone Description</i>	<i>Original Plan</i>	<i>Current Approved Plan (Schedule update #13)</i>	<i>Actual/Forecast (Schedule update #31)</i>
Construction Award	03/2007	03/20/2007 A	03/20/2007 A
Milestone 1 ( <i>Launch Box &amp; 1<sup>st</sup> TBM drive from 92<sup>nd</sup> to 63<sup>rd</sup> St</i> )	12/2009	04/2010	10/18/2010 F
Substantial Completion	07/2010	01/2011	8/8/2011 F

*Percent Complete by invoice construction work 62%*

**Package Costs as of 12/31/09**

	<i>Budget</i>	<i>Expenditure</i>	<i>EAC</i>
Construction Bid	\$337,025,000	\$209,698,788	\$337,025,000
Contingency	16,851,250	10,449,872	11,931,152
EFA	\$7,000,000	2,508,761*	7,000,000
TAL	\$1,000,000	110,959	\$1,000,000
Utilities	\$21,556,752	9,708,327	21,556,752
Total	\$383,433,002	\$232,476,707	\$378,512,904

*\* Includes Consultant Services expenditures*

**Construction Costs (\$000) as of 12/31/09**

Construction Bid	\$ 337,025,000
Construction Bid & Approved/Negotiated AWOs	\$348,956,152
Contingency	\$ 16,851,250
Approved & Negotiated AWOs	\$ (11,931,152)
Remaining Contingency	\$4,920,098

**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 1.12, also much lower than the Bureau of Labor Statistics/National Industry Average of 2.2.

Safety Statistics			
	Project	Contract	BLS*( '06)
Recordable Incidents	1.70	1.79	4.2
Lost Time Accidents	1.06	1.12	2.2
* Bureau of Labor Statistics/National Industry Average			

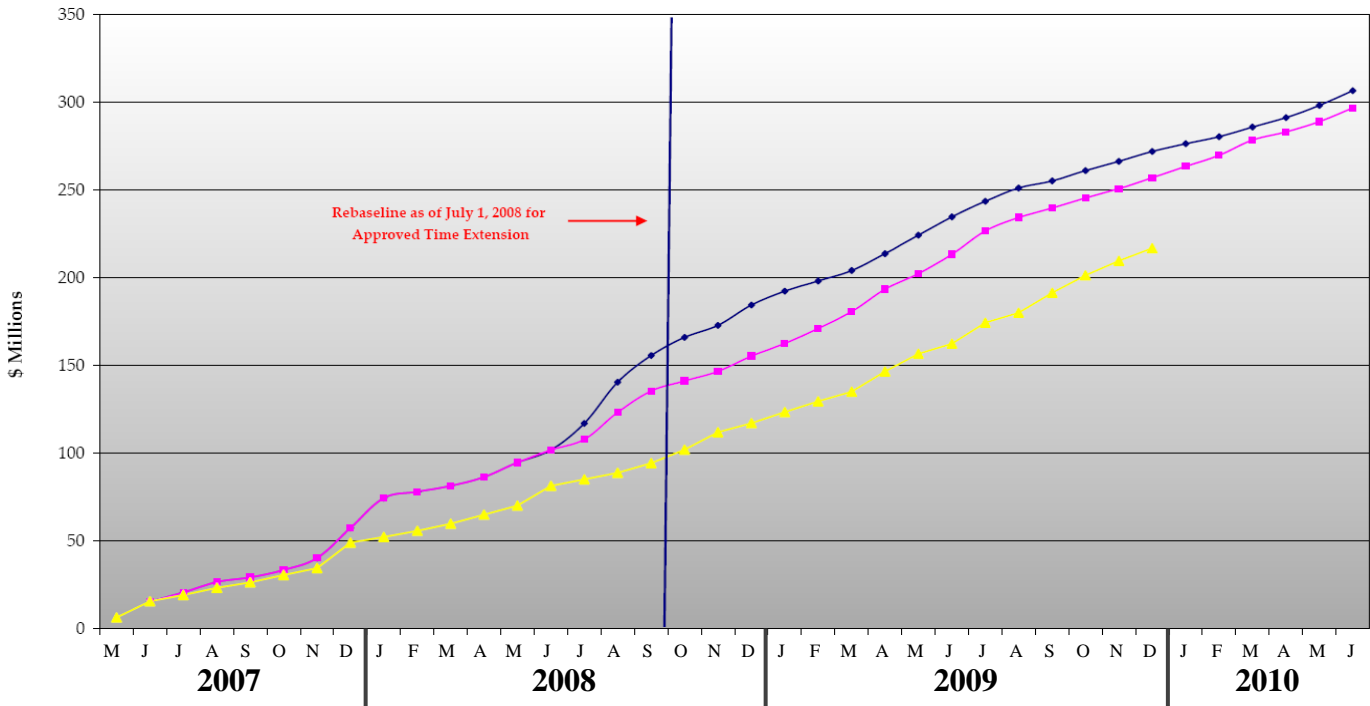
**Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)**

AWO #	Change Order Description	Approved/ Negotiated	Cost of AWO's	Impact Cost	Total
75	Replace 12-in Water Main W-side of Second Avenue at 73rd St and 69th-70th St	Negotiated	\$171,000	\$0	\$171,000
76	Stabilization of 1766/1768 Second Avenue	Negotiated	\$785,000	\$0	\$785,000

**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
	Planned Early		15.38	20.62	26.58	29.24	33.44	40.28	57.43	74.42	78.07	81.42	86.46
	Planned Late		15.38	20.62	26.58	29.24	33.44	40.28	57.43	74.42	78.07	81.42	86.46
	Invoiced	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
	Planned Early	94.78	101.95	117.08	140.56	155.71	166.02	172.88	184.50	192.45	198.26	204.15	213.80
	Planned Late	94.78	101.95	107.92	123.31	135.44	141.23	146.61	155.35	162.61	171.08	180.83	193.57
	Invoiced	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
	Planned Early	224.30	234.74	243.65	251.20	255.29	261.15	266.38	272.02	276.47	280.48	285.93	291.34
	Planned Late	202.44	213.38	226.69	234.36	239.76	245.62	250.85	257.13	263.57	269.91	278.52	283.22
	Invoiced	156.77	162.47	174.43	180.04	191.47	201.39	209.70	216.87				
		May-10	Jun-10										
	Planned Early	298.36	306.70										
	Planned Late	289.08	296.84										
	Invoiced												

## 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.

*Support of Excavation for Sewers Chamber 95-4 and 95-5*

#### Progress, Cost and Schedule

#### Package Milestones C-26005

- Started in-situ sampling program for Manufactured Gas Plan (MGP) soils in front of Metropolitan Hospital between 97th and 99th Street.
- Installed Con Edison transformer vault (V14) at 96th Street. Started sewer drainage connection to this vault.
- Installed Support of Excavation (two of three levels of bracing) for sewer chambers 95-4 and 95-5.
- Completed the pile load test between 97th and 99th Street. Contractor/Moretrench will prepare a report on the pile load test that will be submitted to DEP for approval. DEP requested a second pile load test 200 feet or more from the first load test.
- Completed installation of Con Edison and ECS ducts on east side of Second Avenue between 96th and 97th Street.
- Backfilled 30" gas pipe in the trench on the east side between 96th and 97th Street and a T-connection at 98th Street.
- Completed SOE for sewer manhole 97-2 at the northeast corner of 97th Street.
- Completed asbestos abatement work at Century Lumber Yard. Received Lead Placard for Century Lumber building demolition. DOB was notified of plan to temporarily support adjacent buildings before demolition of Century Lumber.
- Contractor/Geocomp submitted Fragile Building Reports for 1867, 1869, 1871 and 1873 Second Avenue.

Milestone Description	Original Plan	Current Approved Plan	Actual/Forecast
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	12/7/2011	3/9/2012 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	1/7/2013	4/8/2013 F

*Percent Complete by invoice construction work 12%*

#### Package Costs as of 12/31/09

	Budget	Expenditure	EAC
Construction Bid	\$325,000,000	\$39,854,329	\$321,390,000
Contingency	16,250,000	161,534	840,334
EFA	5,000,000	212,278*	5,000,000
TAL	2,000,000	0	2,000,000
Utilities	15,000,000	0	15,000,000
<b>Total</b>	<b>\$363,250,000</b>	<b>\$40,228,141</b>	<b>\$344,230,334</b>

*\* Includes Consultant Services expenditures*

#### Construction Costs (\$000) as of 12/31/09

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	\$322,230,334
Contingency	\$16,250,000
Approved & Negotiated AWOs	\$(840,334)
Remaining Contingency	\$15,409,666

#### Schedule

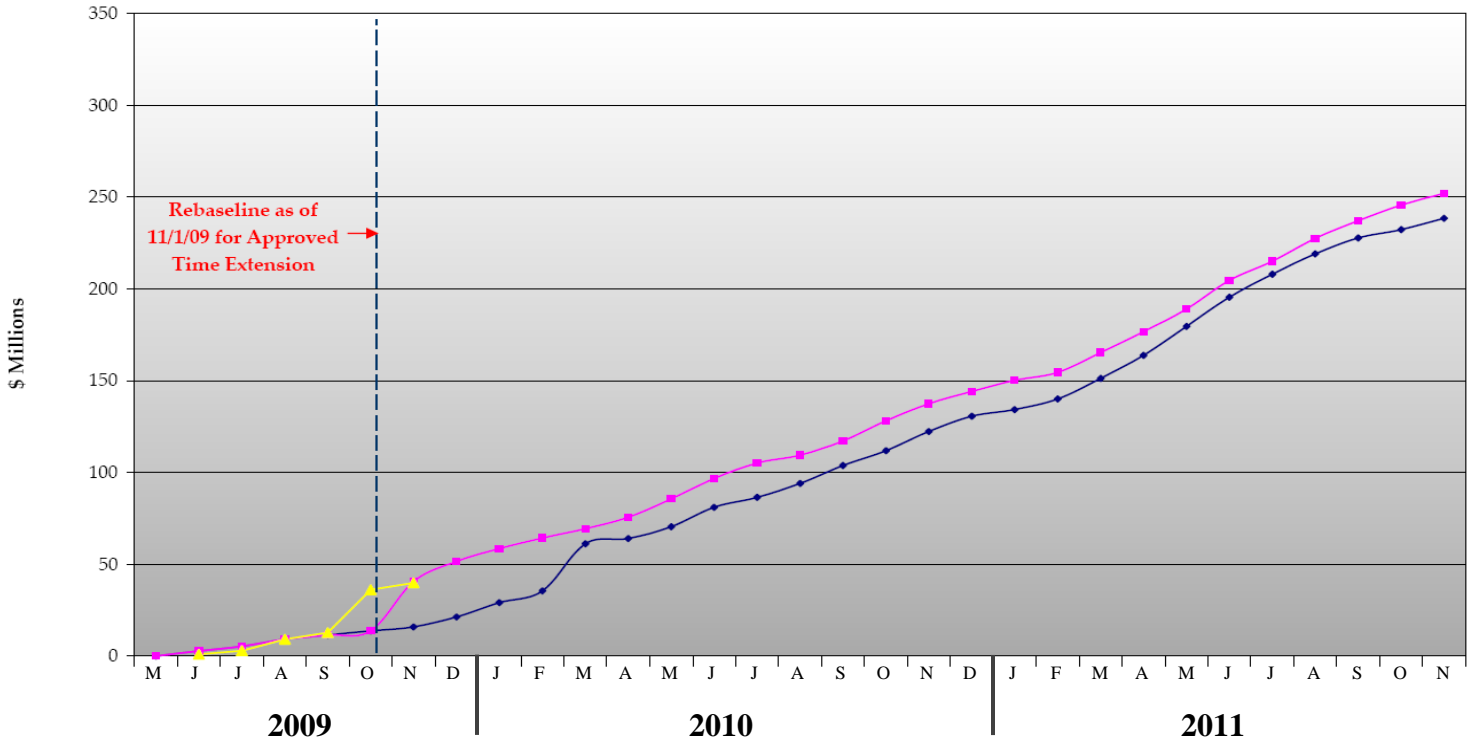
- Schedule Update # 7 was submitted and is under review.

**Additional Work Orders:** As of 12/31/09, twelve (12) Additional Work Orders for a total of \$18,366,634 (incl. option 1\*) have been executed (approved and/or negotiated).

Safety				
<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>	Safety Statistics			
		<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>	1.06	0.0	2.2
<i>* Bureau of Labor Statistics/National Industry Average</i>				

Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)
<b>None to report for this quarter.</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
	Planned Early	0.04	2.82	5.30	9.16	11.45	13.79	15.93	21.29	29.20	35.51	61.18	64.08
	Planned Late	0.04	2.82	5.30	9.16	11.45	13.79	40.56	51.53	58.52	64.31	69.35	75.69
	Invoiced	-	.91	2.91	9.11	12.73	36.30	39.85					
		May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11
	Planned Early	70.46	81.00	86.48	94.05	103.85	111.85	122.38	130.74	134.31	140.02	151.28	163.85
	Planned Late	85.61	96.69	105.09	109.44	117.24	128.14	137.41	144.14	150.20	154.5	165.42	176.67
	Invoiced												
		May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11					
	Planned Early	179.60	195.52	208.00	219.08	227.73	232.34	238.46					
	Planned Late	189.14	204.61	215.14	227.51	237.19	245.66	252.13					
	Invoiced												

## 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.**

*Poured floor for new M 14-6*



#### Progress, Cost and Schedule

#### Package Milestones C-26013

- Started installation of Con Edison electrical ducts between 82<sup>nd</sup> St & 84<sup>th</sup> St and between 86<sup>th</sup> St & 87<sup>th</sup> St.
- Started trench excavation for 12" water main (83<sup>rd</sup> Street west of Second Avenue) and gas work (between 81<sup>st</sup> and 82<sup>nd</sup> Street).
- Continued 12" water main installation and house connections on east and west side of 83<sup>rd</sup> street.
- Unforeseen abandoned 10" gas line is jet washed, cut, capped and removed between 86<sup>th</sup> and 88<sup>th</sup> Street.
- Installed both total Automated Motorized Total Stations (AMTS). All instruments are completed except for the inclinometers in the soil. Baselines for crackmeters, seismographs and manually read Deformation Monitoring Points (DMPS) have been submitted.
- Completed 12" gas work between 81<sup>st</sup> & 82<sup>nd</sup> Streets and at 87<sup>th</sup> Street.
- Completed three new transformer vaults and one new bus compartment at southwest corner of 87th Street and Second Avenue.
- Completed majority of Building Classification and Pre-construction Condition survey and reports were submitted to MTACC.
- Con Edison's Subcontractor performed abatement of NYCT cables in three manholes located at NE corner of 83<sup>rd</sup> Street, NE corner of 86<sup>th</sup> Street and SE corner of 86<sup>th</sup> Street.

Milestone Description	Original Plan	Current Approved Plan	Actual/Forecast
Construction Award	6/15/2009	7/8/2009 A	7/8/2009 A
Milestone #1	4/15/2010	5/7/2010	7/14/2010 F
Milestone # 2 (North Area)	11/15/2010	12/7/2010	2/17/2011 F
Substantial Completion	1/15/2011	1/7/2011	4/8/2011 F

*Percent Complete by invoice construction work 20%*

#### Package Costs as of 12/31/09

	Budget	Expenditure	EAC
Construction Bid	\$34,070,039	\$6,674,136	\$34,070,039
Contingency	5,110,500	0	92,850
EFA	2,600,000	210,202	2,600,000
TAL	1,000,000	0	1,000,000
Utilities	2,800,000	0	2,800,000
Total	\$45,580,539	\$6,884,338	\$40,562,889

#### Construction Costs (\$000) as of 12/31/09

Construction Bid	\$34,070,039
Construction Bid & Approved/Negotiated AWO's	\$34,162,889
Contingency	\$5,110,500
Approved & Negotiated AWO's	\$(92,850)
Remaining Contingency	\$5,017,650

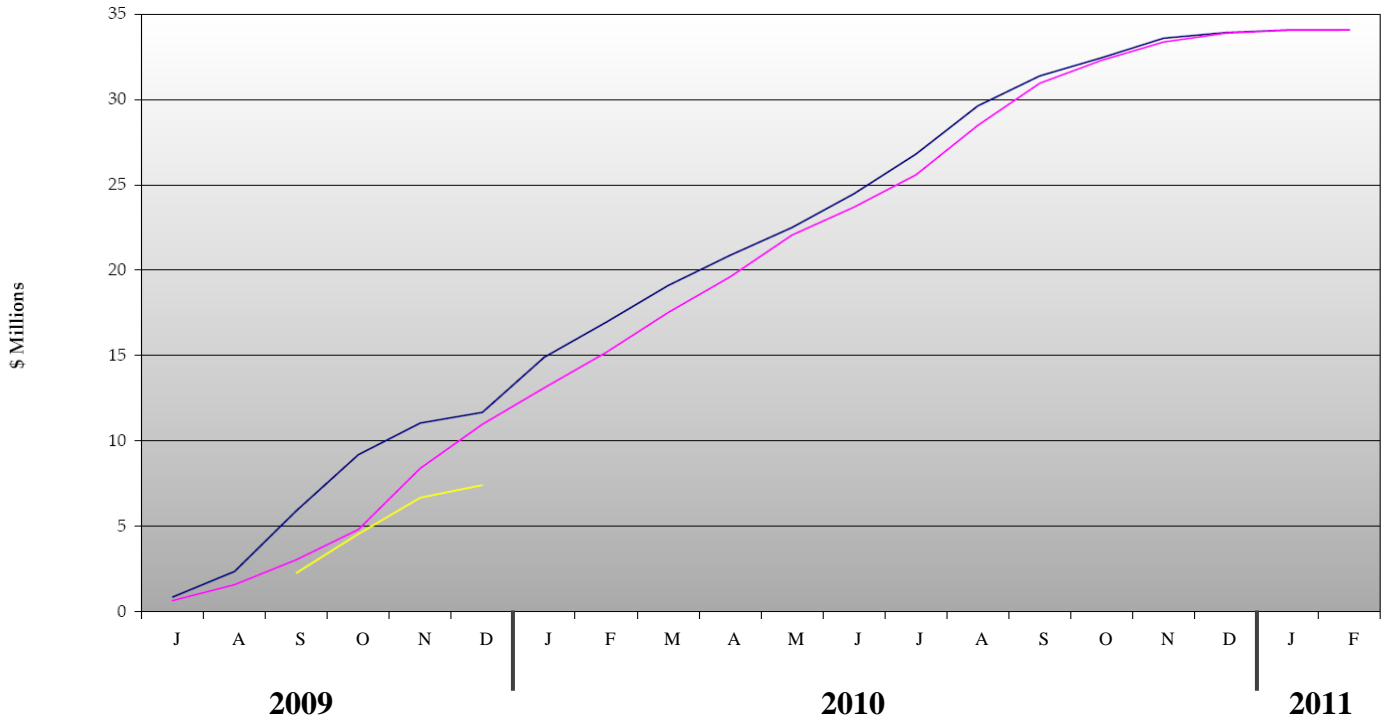
#### Schedule

- Approved Baseline CPM schedule (Rev 3).
- **Additional Work Orders:** As of 12/31/09, two (2) Additional Work Orders for a total of \$92,850 have been executed (approved and/or negotiated).

Safety													
<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;">1.06</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>	1.06	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>	1.06	0.0	2.2										
<i>* Bureau of Labor Statistics/National Industry Average</i>													

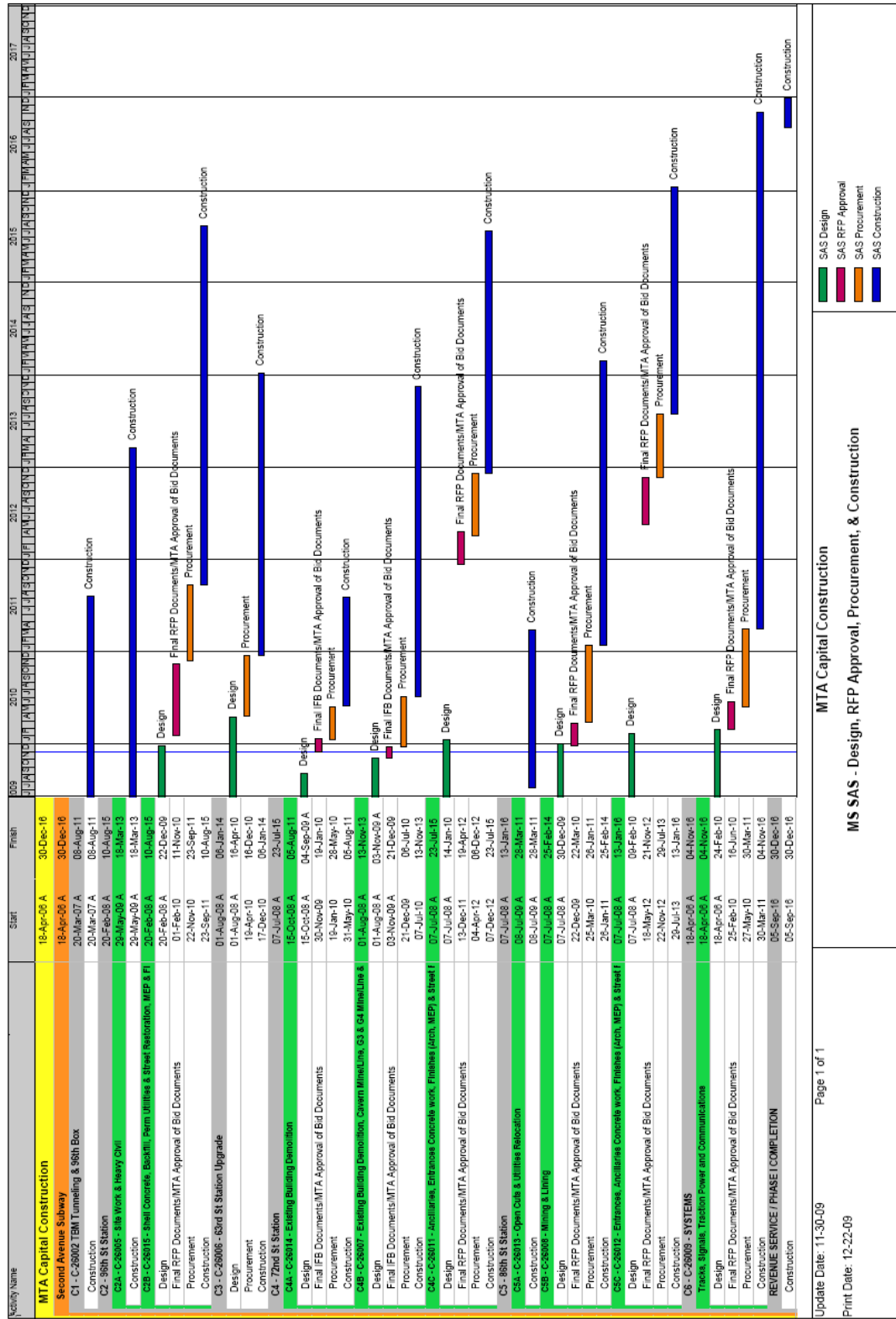
Change Orders Greater than \$100,000 (Approved and/or Negotiated this Quarter)
<b>None to report for this quarter.</b>

## 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
	Planned Early	.86	2.35	5.91	9.19	11.05	11.68	14.90	16.96	19.10	20.88
	Planned Late	.65	1.59	3.04	4.81	8.40	10.97	13.11	15.19	17.52	19.61
	Invoiced	--	--	2.27	4.55	6.67	7.42				
		May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11
	Planned Early	22.50	24.48	26.80	29.63	31.38	32.44	33.59	33.92	34.06	34.07
	Planned Late	22.06	23.69	25.58	28.48	30.95	32.29	33.37	33.88	34.06	34.07
	Invoiced										

# FUNDING AND PROJECT BUDGET Schedule and Proposed Schedule



Update Date: 11-30-09

Print Date: 12-22-09

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MTA Capital Construction

MS SAS - Design, RFP Approval, Procurement, & Construction

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

**FFGA Baseline & Current Budget Summary (As of December 31, 2009)**

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	\$11,077,652	\$11,615,278	\$0
PE & FP Engineering**	\$228,903,629	\$228,903,629	\$228,903,629	\$227,080,850	\$228,903,629	\$0
Final Design	\$166,291,211	\$192,814,131	\$192,814,131	\$143,056,128	\$192,814,131	\$0
<b>Subtotal Award Value</b>	<b>\$406,810,118</b>	<b>\$433,333,038</b>	<b>\$433,333,038</b>	<b>\$381,214,630</b>	<b>\$433,333,038</b>	<b>\$0</b>
FD Reserve***	\$3,189,882	\$11,666,962			\$11,666,962	\$0
<b>Subtotal</b>	<b>\$410,000,000</b>	<b>445,000,000</b>	<b>\$433,333,038</b>	<b>\$381,214,630</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	\$705,349,375	\$266,838,659	\$705,349,375	\$28,957,414
Contracts Awarded (Remaining Conting.)	\$0	\$0	\$0	\$0	\$28,957,414	\$(28,957,414)
Contracts to be Awarded	\$1,866,904,967	\$2,273,904,967	\$0	\$0	\$2,273,904,967	\$0
<b>Subtotal</b>	<b>\$2,601,211,756</b>	<b>\$3,008,211,756</b>	<b>\$705,349,375</b>	<b>\$266,838,659</b>	<b>\$3,008,211,756</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	\$110,959	\$33,000,000	\$0
EFA	\$48,000,000	\$70,000,000	\$14,600,000	\$2,931,241	\$70,000,000	\$0
Utilities	\$58,000,000	\$64,000,000	\$35,350,000	\$9,708,327	\$64,000,000	\$0
CCM	\$80,940,647	\$96,000,000	\$80,940,647	\$12,261,793	\$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	\$106,775,768	\$96,044,200	\$245,000,000	\$0
<b>Cost To Cure</b>	<b>\$0</b>	<b>\$47,000,000</b>	<b>\$1,685,000</b>	<b>\$0</b>	<b>\$47,000,000</b>	<b>\$0</b>
OCIP	\$160,000,000	\$172,000,000	\$128,100,000	\$126,242,857	\$172,000,000	\$0
Reserve & Executive Reserve***	\$173,100,353	\$160,000,000	\$0	\$0	\$160,000,000	\$0
Expected Value Engineering Savings	\$0	\$(18,000,000)			\$(18,000,000)	\$0
<b>Subtotal</b>	<b>\$1,038,788,244</b>	<b>\$997,788,244</b>	<b>\$371,451,415</b>	<b>\$247,299,377</b>	<b>\$997,788,244</b>	<b>\$0</b>
<b>Total Award Value</b>	<b>\$4,046,810,118</b>	<b>\$4,439,333,038</b>	<b>\$1,510,133,828</b>	<b>\$895,352,666</b>	<b>\$4,439,333,038</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>	<b>\$816,614,000</b>	<b>\$816,614,000</b>			<b>\$816,614,000</b>	
<b>Totals Including Financing Cost</b>	<b>\$4,866,614,000</b>	<b>\$5,267,614,000</b>	<b>\$1,510,133,828</b>	<b>\$895,352,666</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 RS.

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

\*\*\* 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 December 31, 2009) (\$ 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>Other</b>	<b>ARRA</b>	
– MTA 1995-1999 Capital Program	0	0	0	0	0
– MTA 2000-2004 Capital Program	1,050.0	33.42	2.46	0	1,014.12
– MTA 2005-2009 Capital Program*	1,914.0	1,187.68	71.43	78.9	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>\$73.89</b>	<b>\$78.9</b>	<b>\$3,077.11</b>

\* 05-09 CP (Other) includes \$45.8M in CMAQ not obligated.

<b>Value of Contract Awards</b>	<b>\$ 1,510.1</b>	<b>100%</b>
- Federal Share of Contract Awards	190.6	12.6%
- Local Share of Contract Awards	1,319.5	87.4%
<b>Value of Finance Charges Incurred</b> (based on prorate share)	<b>\$ 77.1M</b>	

#### Summary of Federal Grants Received

Grant No.	FTA Award Date	FFY	Obligation Amount	Disbursement
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	146.036
<b>Subtotal NY030408</b>			<b>196.248</b>	<b>174.474</b>
NY17X00100*** - NON NS	9/15/2005	2005	2.460	2.459
<b>Subtotal of NY17X001</b>			<b>2.460</b>	<b>2.459</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 NEW START	9/22/2009	2009	45.800	0.000
<b>Subtotal of NY95X015-00</b>			<b>45.800</b>	<b>0.000</b>
<b>Total All Grants</b>			<b>275.121</b>	<b>190.566</b>

**ARRA STIMULUS GRANT IS NOT YET AWARDED, BUT WILL BE INDICATED WHEN FUNDED.**

\*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

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

- Finalize 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 response to 95% constructability and design review comments.
- Finalize deliverable for suggested underpinning sequence at Entrance 1.

*Contract C-26012*

- Conduct constructability review and risk assessment.
- Submit/distribute 5C to NYCT for Design Review comments.
- Negotiation of Contract Modification 49 (Misc. changes i.e. escalators).

96<sup>th</sup> Street Station*Contract C-26010*

- Incorporate 95% of design comment responses and resolved “open” comments.
- Incorporate comments generated by Constructability Review Report.

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

- Pre-bid Conference/ Site Tour is scheduled for February 8, 2010.
- Bid Opening is scheduled for March 2010.

*Contract C-26014*

- Process Mod # 50, combining Contract C-26014 with C-26007.

*Contract C-26011*

- Attend On-Board Review meeting of 95% design.

## Construction

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

### *Launch Box Area*

- Continue soil excavation and Drilling & blasting of rock.
- Continue installation of toe anchors and rock bolts.
- Continue dewatering and building instrumentation monitoring throughout launch box.
- Energize TBM Substation.
- Complete Electrical work in launch box.
- Delivery of TBM expected in March 2010.

### *Shaft Area*

- Start drilling & blasting at shaft area.
- Continue utility relocation of electric, gas, and steam.
- Continue excavation of 69<sup>th</sup> St. shaft to top of rock.
- Start installation of ring beams and support of excavation.
- Con Edison to continue and complete transfer of the existing utility system to newly built system.
- Continue bi-monthly meetings with the Mayor's Office of Operations to discuss on-going construction progress.
- Complete all Con Edison manholes.

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

- As requested by DEP, perform additional pile load test between 95<sup>th</sup> and 96<sup>th</sup> Street.
- Excavate sewer trench between 95<sup>th</sup> and 96<sup>th</sup> Street.
- Install concrete cradle for the sewer line between 97<sup>th</sup> and 99<sup>th</sup> Street.
- Install sewer chambers 95-4, 95-5 and 97-1.
- Start demolition of Century Lumber building.

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

- Continue Pre-Stage 1B utility work between 82<sup>nd</sup> and 88<sup>th</sup> Streets (Electrical manholes and service boxes replacement).
- JDSI will coordinate with DEP to schedule a 360 degree test pit for 48” water main.
- Complete abatement of TA cables by Con Edison in remaining three Con Edison manholes.
- Remove TA cables to facilitate construction of new Con Edison manholes.

**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**

- Issue Rev. 3 of Project Quality Manual (PQM).
- Fill SAS MTACC Quality Manager position.
- Return visit to S3TC’s TBM to review documentation.
- Conduct Quarterly Quality Oversight for TBM Tunnels from 92<sup>nd</sup> St. to 63<sup>rd</sup> St. Contract ( C-26002).
- Participate in contractors Preparatory Phase Sessions.
- Participate in contractors Subcontractor/Supplier Audits.
- Close Internal audit findings and Quality Surveillances on drawing and calculation process control for design Consultant (DHA).

**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.