FEDERAL TRANSIT ADM N STRATI ON

PROJECT MANAGEMENT OVERSI GHT PROGRAM

Contract No. DTFT60-04-D 00012 Project No. DG 27-5006 Task Order No. 3

Grantee: METROPOLI TAN TRANSPORTATI ON AUTHORI TY SECOND AVENUE SUB WAY (MIACC-SAS)

REGIONII MAJOR CAPITAL PROJECTS Monthly Report – Part I May 2007

Urban Engineers of New York, P. C 350 Fifth Avenue, Suite 6024 New York, New York 10118

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LIST OF ACRONYMS

CSI	Construction Standards Institute
DHA	DM M+Harris and ARUP
ES WA	Early Systems Work Agreement
FD	Final Design
FEIS	Final Environmental Impact Statement
FFGA	Full Funding Grant Agree ment
FTA	Federal Transit Administration
МГА	Metropolitan Transportation Authority
MTACC	Metropolitan Transportation Authority – Capital Construction
N∕ A	Not Applicable
NYCT	New York Gty Transit
PE	Preliminary Engineering
P MOC	Project Management Oversight Contractor (Urban Engineers)
PMP	Project Management Plan
PQM	Project Quality Manual
RAMP	Real Estate Acquisition Management Plan
ROD	Record of Decision
SAS	Second Avenue Subway
SCC	Standard Construction Categories
SS MP	Safety and Security Management Plan
SSOA	State Safety Oversight Agency
SSPP	System Safety ProgramPlan
TBD	To Be Determined

SECTI ON III. SECOND AVENUE SUB WAY (SAS) PROJECT

I EXECUTI VE SUMMARY

A Project Description

- General Description The Second Avenue Subway (SAS) project will connect Manhattan's Central Harle marea with the downtown financial district, relieving congested conditions on the Lexington Avenue line. The current project scope includes: tunneling, station/ancillary facilities; track, signal, and electrical work; vehicle procurement; and all other subway systems necessary for operation. The project consists of four phases, with Phase 1 providing an Initial Operating Segment (IOS) from 96th Street to 63rd Street, and will connect with the existing Broadway Line that extends to Lower Manhattan and Brooklyn. Subsequent phases will extend the line north ward to 125th Street and to the southern terminus at Hanover Square in Lower Manhattan
- **Length** Phase 1 2.3 miles from 63rd Street to 105th Street. Total Project 8.5 miles from 125th Street and Lexington Avenue in Central Harle mto Lower Manhattan.
- No. of Stations: Total Project -16 new stations. Phase 1-t wo new mined stations located at 72nd and 86th Streets, One new cut and cover station at 96th Street, and modification of the existing 63rd Street Station on the Broadway Line.
- Additional Facilities: Newstorage tracks will be provided along the alignment and at the north and south terminals during the later phases of the project, but not as part of Phase 1.
- Vehicles: Total Project Approximately 224 railcars that are 75 feet long (28 new 8car train sets). Phase 1 - 68 new rail cars (includes 12 spares).
- Rdership Forecast: The full length SAS is forecast to carry 560,000 dailyriders in 2030. Upon completion of Phase 1, ridership is expected to be 191,000 per the MTA's Regional Travel Forecast Model.

B Project Status

• The project is in the Final Design/ Construction phase.

C Schedule

- **Preli minary Engineering** (PE): Entryinto PE was approved by FTA on December 20, 2001; PE completed April 17, 2006.
- Record of Decision (ROD): Record of Decision issued on July 8, 2004.
- **Final Design** (FD): Entry into FD (Phase 1) was approved by FTA on April 18 2006.
- Full Funding Grant Agreement (FFGA): Anticipated FFGA Fall 2007.

In advance of the FFGA, MTA requested approval of an Early Systems Work Agreement (ES WA) in the amount of \$693 million. The ES WA focused on efforts associated with Contract 1 (Tunnel Boring). The FTA approved the ES WA on January 5, 2007.

- **Construction:** Entry into the Construction Phase was authorized with the approval of the ES WA on January 5, 2007. The first construction contract, Contract 1 Tunnel Boring, was awarded on March 20, 2007. A Ground-Breaking cere mony was held on April 12, 2007.
- **Project Complete:** Phase 1 Project percent complete is 5.71% (based on total expenditures versus Phase 1 projected cost at completion) through May 31, 2007.
- Revenue Operations Date:

	Proposed	Fore		
Proposed FFGA	FF GA as A me nde d	Grantee	P MO	Act ual
Fall 2007	N A	Dec. 31, 2013	June 2014 (1)	TBD

Phase 1 (MOS)

(1) Based upon FTA's completion of the Risk Assessment

• Other: The Environmental Impact Statement was approved on April 8, 2004.

• Next Quarterly Review Meeting TBD

D Cost Data for Phase 1

	Proposed FFGA Amount (1)			Current Costs (2)		Expenditures Thru (3): May 31, 2007	
	(\$ Millions)	(%)	FF GA A me nd me nt s	(\$ Millions)	Percent of Total Current Cost	(\$ Millions)	Percent of Current Project Cost
Total Project Cost:	\$4, 866, 614	100	N A	\$4, 866. 614		\$277.756	5. 71
Total Federal share:	1, 350. 692	27.75		40. 076	-	39.682	. 82
Total FTA share:	1, 300.000	96.25		33.419	-		
5309 New Starts share	1, 300.000	96.25		33.419	-		
Total FHWA share:	50.692	3.75		6.657	-		
CMAQ	48.233	95. 15		4. 198	-		
Special High way Appropriation	2 459	4. 85		2,459	-		
Tot al Local share:	3, 515, 922	72.25		273.984		238 076	4.89
St at e share:	450.000	12.80		-			
Agency share:	3, 065. 922	87. 20		-			
Gty share:	0	0		-			

(1) FFGA not yet negotiated. Initially, MTACC will seek a FFGA for Phase 1 only. Amounts based on SCC Funding Sources by Category Worksheets with today's date of 5/1/07. Finance charges now included intot al project cost.

(2) Current cost based on SCC Main Worksheet – Build Alternative with today's date of 5/1/07.

(3) Financial data provided monthly by MTACC

E Technical Capacity Review

- <u>Project Management Plan (PMP)</u>: Updated PMP (Revision 5) for the final design/constriction phase of the project was conditionally approved by the FTA on March 22, 2007.
- <u>Project Quality Manual (PQM) Plan</u>: Updated PQM (Revision 2) for the final design/constriction phase of the project was approved by the FTA on March 22, 2007.
- <u>Bis Heet Management Plan (BF MP)</u>: Updated BF MP dated February 2007 was conditionally accepted by the FTA in May 2007.

Rail Heet Management Plan (RFMP): Updated RFMP addressing the SAS project requirements was submitted for FTA acceptance on March 6, 2007. The FTA gave conditional approval on April 24, 2007.

F. System Safety Review

• The New York State Public Transportation Safety Board, the State Safety Oversight Agency (SSOA), re-certified NYCT's System Safety Program Plan (SSPP) on March 15, 2006 to the revised 49 CFR Part 659 requirements.

G Major Issues/Problems

• None.

Y Y Y	Ne w Yor k PublicTr ansport ati on Safet yBoar dYes, Al Phases.St andar ds are based on the require ments of 49 CRF Part 659.
Y	Transportation Safety BoardYes, Al Phases.Standards are based on the requirements of 49
	Standards are based on the requirements of 49
Y	the requirements of 49
Y	SSPP re-certified on March 15, 2006 per the revised 49 CFR Part 659 requirements.
Y	Reference section 227 of the SAS System Safety & Reliability Plan
Ν	No
	·
Y	See PMP Section 3
Y	By approving plan
Y	See PMP
Y	See PMP Section 3
	Y N Y Y Y

Attachment A- Safety Checklist Second Avenue Subway

Areas of Focus	ΥN	Stat us
Do the Grantee's PMP and associated Safety Program include a for mal Safety Certification Program(SCP)?	Y	See PMP (draft program is available) and SAS System Safety & Reliability Plan
Do the Grantee's PMP and associated Safety Program include the development/use of a Safety Design Criteria Manual or equivalent documents?	Y	See DCM Chapter 26 and SAS System Safety & Reliability Han
Has the Grantee developed and the SSOA approved the Grantee's SSPP? What is the status of this process bet ween the Grantee and SSOA?	Y	SSPP re-certified on March 15, 2006 per the revised 49 CFR Part 659 requirements.
Is the Grantee i mplementing its Safety Program as defined in the PMP? Are the safety milestones being met? (Note: This assumes that the Safety Program is properly documented in the PMP.)	Y	See Project Schedule
Construction Safety		
Is the Grantee's Construction Safety Program (CSP) documented in the PMP?	Y	Included in the Construction Phase P MP.
Has the Grantee implemented its CSP?	N A	Will be implemented during Construction
How do the Grantee's OS HA statistics compare to the national average for the same type of work? If the comparison is not favorable, what actions are being taken by the Grantee to improve its safety record?	TBD	Project is in Final Design.
Is the Grantee using wrap-up insurance on this project?	Y	NYCT has decided to use OCI P for Phase 1. MT A's Board approved purchasing the policy in December 2006.
Is the Grantee using safety incentives/disincentives on this project?	TBD	

Attachment A- Safety Checklist Second Avenue Subway

Areas of Focus	Y N	Stat us			
Shared Track					
Does this project have shared track?	Ν				
Has the Grantee coordinated with FRA regarding wai vers for shared track usage?	ΝA				
Shared Corridor					
Does this project include shared corridor? Hease describe the geography of the shared corridor.	N				
What is the Grantee doing to specifically address safety concerns in the shared corridor portion of the project?	N A				

Attachment A- Safety Checklist Second Avenue Subway

Doc u me nt	Agency	Target Dat e	St at us/ Comment s
Annual Certs & Assurances	МΓА		
Grant Application	МΓА	7/ 2007	
Federal STIP Approval	FTA		
Record of Decision/FONSI	FTA	07/08/04 (A)	
Givil Rights Program Review	FTA		
Project Management Plan (PMP)	ΜΓΑ	03/22/07 (A)	Updated PMP (Revision 5) for the final design/construction phase of the project was conditionally approved by the FTA on March 22, 2007.
Quality Management Plan Project Quality Manual (PQM)	МΓА	03/22/07 (A)	Updated PQM(Revision 2) for the final design/construction phase of the project was approved by the FTA on March 28, 2007.
Safety and Security Management Plan (SS MP)	ΜΓΑ	08/18/06	MT ACC sub mitted the Safet y and Security Manage ment Plan (SS MP) for P MOC revie w on January 26, 2007. The P MOC met with the SAS team for three days in March 2007 to pass on comments directly in order to expedite this plan The P MOC provided written comments the first week in May 2007. SAS project team addressed the comments and issued the updated SS MP during the last week of May 2007.
Rail Heet Management Han (RFMP)	ΜΓΑ	06/02/06 (A)	The FTA gave conditional acceptance on April 24, 2007.
Bus Heet Management Plan (BFMP)	ΜΓΑ	03/16/05 (A)	The Bus Heet Management Han was submitted to the FTA for acceptance on March 23, 2007. <i>PMOC comments were</i> provided and FTA subsequently conditionally accepted the BF MP in May 2007 with minor corrections not ed for future update.

Table 1 – FFGA Application Checklist SAS Phase 1

Doc u ne nt	Agency	Target Dat e	St at us/ Comment s
Real Estate Acquisition Plan (RAMP)	ΜΓΑ	07/25/06 (A)	The updated RAMP was received on February 22, 2007 and PMOC comments were sent to MTACC on March 30, 2007.
			MT A is addressing the comments. Enhancements to the RAMP are required as a result of a review of the process utilized on the Fulton Street Transit Center project. An updated RAMP was submitted during the last week of May 2007.
Interagency and RR/Joint Use Corridor Agreements	МΓА	N A	
Val ue Engi neeri ng	МΓА		Completed for Phase 1 of the project.
Spot Report - Risk Assessment	P MOC	TBD	The PMOC held Risk Assessment workshops with MFACC in March 2007 to review Risk Characterization, Escalation, Contingency and Project Delivery Methods. A Project Execution Strategy workshop was held April 10, 11 & 12, 2007. The Risk Register meeting was held in May 2007 and a draft Spot Report was issued for review.
Fi nanci ng Plan	МΓА	09/06 (A)	Submitted as part of FY 08 New Starts submission
Financial Capacity Review	FMOC	03/07	
Depart ment of Labor (13c) Certification	DOL	03/07	
Part I- Full Funding Grant Agreement (FFGA)	МΓА	Fall-07	
Attachment 1- Scope of Project	МΓА	03/07 (A)	Submitted to FTA
Attachment 1A – Color Map	МΓА	03/07 (A)	Submitted to FTA
Attachment 2- Project Description	МΓА	03/07 (A)	Submitted to FTA

Table 1 – FFGA Application Checklist SAS Phase 1

Doc u me nt	Agency	Target Dat e	St at us/ Comment s
Attachment 3- Baseline Cost Estimate	МΓА	05/07	Submitted to FTA
Attachment 3A Project Budget	МΓА	05/07	Submitted to FTA
Attachment 4 Baseline Schedule	МΓА	05/07	Submitted to FTA
Attachment 5- Schedule of Prior Grants and Related Documents	МΓА	03/07 (A)	Submitted to FTA
Attachment 6 Schedule of Capital New Starts Funds	МΓА	03/07 (A)	Submitted to FTA
Attachment 7- Measuresto M tigate Environmental Impacts	МΓА	03/07 (A)	Submitted to FTA
Attachment & New Starts "Before and After Study"	МΓА	03/07 (A)	MT ACC sub mitted the Before and After Study H an for PMOC review on October 24, 2006, and comments were returned to MT ACC in February 2007. MT ACC sent the updated plan to the FTA for review and acceptance in March 2007. FTA's H anning Office is currently reviewing the plan.
Submittal of Grant Application in TEAM(Part II-FFGA included)	МΓА	TBD	
Congressional Review	OST	TBD	

Table 1 – FFGA Application Checklist SAS Phase 1

II. ACTI ON I TEMS – I TEMS FOR GRANTEE ACTI ON

Status of Action Itens

The status of Action Items is shown in the following summary chart.

Note: Items marked with a "C' in the "PMO Contractor Status" column will be dropped from future reports.

Key Item

2. XX PMO CLI N 5 – Project Management Plan

3. XX PMO CLI N 3 – Project Monitoring

Legend

Pri ority (Pr)	Grantee Action	PMO Contractor Status
1 – Most Gitical	D – Remedial Action Developed	R – Review On-going
2 – Gitical	A – Remedial Action Approved	C - Completed - No further review required
3 – Least Gitical	I – Action I mpl e mented	

Itens for Action

Pr	Item	Identification	Nat ure of Problem	Grai	ntee Au	ction	Co mme nt s	St at us
	ite m			D	Α	Ι		St at us

There are no open items.

III. OBSERVATI ONS AND CURRENT ISSUES

General Agency Assessment

Funding and Budget: A total of \$277.756 million has been expended on the project through *May 31, 2007* including \$5.455 million on the Manhattan East Side Access (ESA) study and related HS work during the 1995-1999 capital program and \$269.269.301 million as part of the 2000-2004 capital program

The current project budget of \$337.584 Mis for work associated with the consultant, DHA Joint Venture, for PE (\$187 M, Extended PE (\$6.9 M, Final Design (\$116 M, and Construction Phase Design Support (\$27 M. Payments a mounting to \$191.403 million for PE and \$37.934 million for Final Design and Construction Phase Design Support for a total of \$229.338 million have been made to DHA as of *April 30, 2007.* Note: The total amount paid for PE was reduced by \$59,426 due to a 2003 Overhead adjust ment. One contract modification in the amount of \$44,772.00 has been approved. As unmary table of funding and cost all ocations is shown on page III-17.

The MTA submitted an Early Systems Work Agreement (ES WA) request to the FTA for Phase 1 of the Second Avenue Subway (SAS) project on October 13, 2006 in the amount of \$693.0 million, which FTA approved on January 5, 2007. Currently, the FTA and MTA have set up a Task Force to expedite the submittal of the FFGA for SAS Phase 1.

Budget Control: MFACC continued to effectively monitor, control, and report project costs and expenditures. The PMOC will continue monitoring MFACC's Budget Control during the Final Design phase and beyond.

Schedule: The following table identifies major project milestones established by the MFACC through a ward of the first construction contract. Not all milestones/activities/events are included

Activity / Event	MTACC's Schedule Information				
Activity/ Event	Current	Previous Report			
FTA Approval of Final Environmental Impact Statement (FEIS)	Apr. 8, 2004 (A)	Apr. 8, 2004 (A)			
MTA Board Approval to Advertise First D'B Tunneling Contract	Apr. 28, 2004 (A)	Apr. 28, 2004 (A)			
Notice of Availability of FEIS in Federal Register	May 7, 2004 (A)	May 7, 2004 (A)			
MTACC In-House Risk Analysis for entire Phase 1	June 4, 2004 (A)	June 4, 2004 (A)			
Contractor Session for SAS and No. 7 Line Extension	May 25, 2004(A)	May 25, 2004(A)			
Advertise 1st Design/Build Tunneling Contract	June 21, 2004 (A)	June 21, 2004 (A)			
Value Engineering 2 nd Stage for Phase 1	June 7, 2004 (A)	June 7, 2004 (A)			

Activity / Event	MTACC's Schedule Information				
Activity/ Event	Current	Previous Report			
Pre-Bid Meeting for 1st D' B Tunneling Contract	July 20, 2004 (A)	July 20, 2004 (A)			
Record of Decision (ROD)	July 8, 2004 (A)	July 8, 2004 (A)			
Submit request to enter Final Design (Phase 1) Revised request to enter Final Design (Phase 1)	Sept. 13, 2004 (A) Nov. 15, 2005 (A)	Sept. 13, 2004 (A) Nov. 15, 2005 (A)			
PE for the Full Length of SAS Substantially Complete	Dec. 20, 2004 (A)	Dec. 20, 2004 (A)			
FTA Approval to Enter Final Design	April 18, 2006(A)	April 2006 (A)			
FTA Approval of Early Systems Work Agreement (Approval of ES WA also view as authorization to enter Construction)	Jan 5, 2007 (A)	Jan 5, 2007 (A)			
Award Contract for Tunnel Work (1st Contract)	Mar 20, 2007 (A)	Mar 20, 2007 (A)			
Complete Extended Preliminary Engineering	Nov. 30, 2005(A)	Nov. 30, 2005(A)			
Complete Final Preliminary Engineering	April 17, 2006(A)	April 17, 2006 (A)			
Award Final Design for Phase 1	April 18, 2006 (A)	April 2006 (A)			
Anticipated Receipt of Full Funding Grant Agreement	Fal1 2007	Fal1 2007			

Schedule Control: Updated SAS Project Phase 1 Integrated Schedule, Revision 2.4.1 dated May 8, 2007 was issued on May 15, 2007. This update reflects the following changes:

Contract #1 (Tunnel Boring) – The forecast start of construction date of March 1, 2007 was actualized as March 20, 2007. The construction duration remains 40 months.

Contract #2 (96th Street Station) – Due to the changes in the ancillary facilities design, the start of the RFP process was delayed from November 29, 2007 to December 31, 2007. The award date for this contract remains June 2, 2008. The duration of the RFQ process remains the same, 3 months, from October 1, 2007 to December 28, 2007.

Contract #3 (63rd Street Station) – The real estate acquisition was reforecasted to be completed on June 1, 2010 in lieu of October 23, 2008 (award of the construction contract not impacted). The actual start of the design activities was actualized to June 1, 2006 in lieu of the forecast date of September 1, 2006.

Contract #4 (72nd Street Station) – The study conducted to minimize the residential real estate impact delayed the start of the final design. The design schedule was subsequently revised from 18.5 months to 17 months. The interim submission was forecasted for December 14, 2007. The final submission of RFP drawings is forecasted for October 17,

2008 The start of RFP procurement process was revised for October 20, 2008, which will support the award date of April 20, 2009, four months later than original award date of December 18, 2008.

Contract #5 (86th Street Station) – No major changes of the procurement and construction dates.

Contract #6 (Systems) – The forecasted date for interimsubmission was revised to November 7, 2007. The final submission was forecasted for April 16, 2008 and the RFP drawing date revised to June 30, 2008. The RFP procurement start date was set for July 28, 2008, which will support the original award date of January 28, 2009.

Six months of programfloat was added as recommended by the Risk Assessment Team

FTA Requirements for Entering Into Final Design

In accordance with the FTA's April 18, 2006 letter approving entry into Final Design, seven technical and financial issues must be addressed during Final Design and resolved prior to FTA entering into a Full Funding Grant Agreement (FFGA). The following list enumerates those items and their current status:

- 1. Update and Maintain a Current Project Level Capital Cost Estimate The SAS Project Phase 1 cost estimate has been updated to address the concerns noted during the risk assessment process. Adjustments have been made to increase the unallocated contingency and support an additional 6 months' float. The cost estimate and its various attachments have been submitted to the FTA. This action is considered closed.
- 2. Update and Maintain a Current Safety and Security Management Han MTACC submitted the draft SAS Safety and Security Management Han (SS MP) to the PMOC on January 26, 2007 and it was reviewed by the PMOC s Safety and Security Specialists. Interviews of key SAS personnel were held on March 27, 28 and 29, 2007 and verbal comments were given to the author on a page by page basis. Written comments were sent to MTACC in early May 2007. The plan is being strengthened in the security area and with responsibilities assigned PMOC and SAS Project Team efforts are ongoing in support of the FFGA application An updated SS MP was submitted during the last week of May 2007.
- 3. Advance the Project Design and Construction Consistent with the Environmental Mitigation Measures from the FEIS and ROD MFACC committed to developing a tracking mechanis mto ensure that all environmental mitigation measures, identified in Attachment Aof the Record of Decision, are being addressed during Final Design. On July 24, 2006 MFA issued Technical Memorandum 1, which assessed the inpact of design modifications made to Phase 1 since the issuance of the FEIS and the ROD. The assessment was conducted to determine if any additional impacts not discussed in the FEIS and ROD would result from the design revisions. The PMOC concurred with the MFA's conclusion that there were no significant environmental impacts as a result of the refinements. FTA concurrence was subsequently obtained on January 5, 2007. On February 12, 2007, MFA sent Technical Memorandum 2 concerning the 96th Street Station design listing

additional changes, which are different than the FEIS scope, that have been made for i mprovement. *Technical Memorandum 3 was issued in May 2007*. The PMOC will continue to monitor the different contract packages through the final design process.

4. Develop and Implement a Management Plan for Accomplishing the Risk

M tigations – The SAS Project Team and the FTA's R sk Assessment Team have worked effectively in addressing issues, which could impact the success of the project. A R sk Management Program has been developed through various workshops and mutual cooperation The efforts of the R sk Assessment Team are being documented in various SPOT Reports. The FTA is anticipated to review drafts of in June 2007. The PMOC will monitor the implementation of the R sk Management Program as the project progresses through the design, construction and test phases.

- 5. Provide the Required Documentation to Support the Current "Medium" New Starts Rating The PMOC received the FY 2008 New Starts submission from MTACC on August 30, 2006. The PMOC review of the SCC Worksheets revealed several anomalies associated with the number of required rail vehicles, project description, and SCC Worksheet revision status. Corrections were subsequently made and new worksheets were submitted The PMOC documented its findings in a Spot report that was issued on October 9, 2006. A copy containing FTA requested corrections was transmitted on October 23, 2006. This action is considered dosed
- 6. Update the PMP and each Sub-plan as Applicable to Support Future Construction Activities – Updated PMP (Revision 5) for the final design/construction phase of the project was approved by the FTA on March 22, 2007. Updated PQM(Revision 2) for the final design/construction phase of the project was approved by the FTA on March 28, 2007. All documents required in support of the FFGA application are being updated (RFMP, BFMP, RAMP etc.)
- 7. Prepare an Acceptable Before and After Study Plan The PMOC received the SAS Before and After Study Plan on October 24, 2006. Comments were provided to the SAS Teamin February 2007. MTACC officially submitted the Before and After plan to the FTA on March 6, 2007. The FTA Planning Office is currently reviewing the plan.

Component	Funding Sources	Fund	ing Allocations to D (in \$thousands))ate	Cost Allocations to Date				
	Funding ID	Federal @ 80% of Total Value (TeamWeb)	Local (TeamWeb)	Total Eligible Cost	Grant Drawdown (TeamWeb)	Current Project Budget	Spent Through Date: <i>May 31, 2007</i> (Funding Report)		
Funding									
MESA Study									
CMAQ	NY-90-X274-01	4,198,400.00	1,049,600.00	5,248,000.00	4,198,400.00		4,198,400.0		
MTA Funding (MESA Study)	MAC CF-93		973,427.48	973,427.48					
MTA Funding (MESA Study)	POOL		178,478.06	178,478.06					
Total		4,198,400.00	2,201,505.54	6,399,905.54					
2nd Av EIS/PE									
FTA 5309 New Starts Grant (2nd Av PE)	NY-03-0397	4,980,026.00	1,245,006.00	6,225,032.00	4,980,026.00		4,980,026.0		
FTA 5309 New Starts Grant FFY03 (2nd Av PE cont.)	NY-03-0408	1,967,165.00	491,791.00	2,458,956.00	1,967,165.00		1,967,165.0		
FTA 5309 New Starts Grant FFY04 (2nd Av PE cont.)	NY-03-0408-1	1,968,358.00	492,090.00	2,460,448.00	1,574,686.00		1,968,358.0		
FTA 5309 New Starts Grant FFY06 (2nd Av FD cont)	NY-03-0408-2	24,502,500.00	6,125,625.00	30,628,125.00	24,502,500.00				
FTA 5309 New Starts Grant FFY06 (2nd ESWA)	NY-03-0408-3	-	-	-					
FHWA Special Appropriation (5307)	NY-17-X001-01	2,459,821.00	614,955.00	3,074,766.00	2,459,500.00				
MTA Funding (2nd Av EIS/PE) - CFY0102	LOCAL		500,000.00	500,000.00			500,000.0		
MTA Funding (2nd Av EIS/PE) - CFY03	LOCAL		250,000.00	250,000.00			250,000.0		
MTA Funding (2nd Av EIS/PE) - CFY04	LOCAL		250,000.00	250,000.00			250,000.0		
MTA Funding (2nd Av EIS/PE)	POOL		259,612,089.28	259,612,089.28			199,898,129.8		
Total		35,877,870.00		305,459,416.28					
Total Funding		40,076,270.00	272.004.567.26	244 050 224 02	00 000 077 00		200 012 870 00		
		40,070,270.00	273,984,567.36	311,859,321.82	39,682,277.00		209,813,678.80		
Costs			2/3,904,307.30	311,009,321.02	Base Budget	Current Budget	Vouchered As Of May 31, 2007		
Costs		10,070,270.00	2/3,904,307.30	311,009,321.02	Base	Budget	Vouchered As Of May 31, 2007		
-			2/3,804,307.30		Base Budget	Budget	Vouchered As Of May 31, 2007 \$ 5,454,700.00		
Costs MESA Study			2/3,804,307.30	311,009,321.02	Base Budget 5,368.00	Budget \$ 5,454,700.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study)			2/3,804,307.30		Base Budget 5,368.00	Budget \$ 5,454,700.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (I/H)			2/3,804,307.30	311,039,321.02	Base Budget 5,368.00 11,901.30	Budget \$ 5,454,700.00 \$ 12,674,033.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development			2/3,804,30/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500.000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,642.90	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services			2/3,804,30/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,642.90 \$ 316,525.00 \$ 975,000.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97 \$ 874,588.91		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services			2/3,804,30/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00 1,000,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,642.90 \$ 316,525.00 \$ 975,000.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97 \$ 874,588.91 \$ 22,960.14		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (I/H) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Outside Agencies			2/3,904,30/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00 1,000,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,842.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.12 \$ 2,197,842.90 \$ 267,940.97 \$ 874,588.91 \$ 22,980.14 \$ 7,500.00		
Costs MESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (I/H) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition			2/3,904,50/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00 1,000,000.00 50,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,642.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14 \$ 11,000.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97 \$ 874,588.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36		
Costs MESA Study ES for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (VH)			2/3,904,50/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00 1,000,000.00 50,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,642.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14 \$ 11,000.00 \$ 27,139,110.38	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.11 \$ 2,197,642.90 \$ 267,940.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36 \$ 287,559.00		
Costs VESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (VH) Consultant design			2/3,904,50/.30	311,039,321.02	Base Budget 5,368.00 11,901.30 2,500.000.00 316,525.00 1,000,000 50,000.00 - 43,510,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 2,197,842.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14 \$ 11,000.00 \$ 27,139,110.38 \$ 267,559.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.93 \$ 874,588.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.33 \$ 267,559.00 \$ 197,404,347.00		
Costs VESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (VH) Consultant design Consultant Design (PE)			2/3,904,307.30	<u> </u>	Base Budget 5,368.00 11,901.30 2,500.000.00 316,525.00 1,000,000 50,000.00 - 43,510,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 22,187,842.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14 \$ 11,000.00 \$ 27,139,110.38 \$ 267,559.00 \$ 194,099,207.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 21,97,642.90 \$ 267,940.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36 \$ 267,559.00 \$ 197,404,347.00 \$ 197,404,347.00		
Costs VESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (VH) Consultant design Consultant Design (PE) PE Consultant Contin. Reserve			2/3,904,30/.30	<u> </u>	Base Budget 5,368.00 11,901.30 2,500.000.00 316,525.00 1,000,000 50,000.00 - 43,510,000.00	Budget \$ 5,454,700.00 \$ 12,674,033.00 \$ 12,674,033.00 \$ 2,197,642.90 \$ 316,525.00 \$ 975,000.00 \$ 22,960.14 \$ 11,000.00 \$ 267,559.00 \$ 194,099,207.00 \$ 2,332,718.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 21,97,642.90 \$ 267,940.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36 \$ 267,559.00 \$ 197,404,347.00 \$ 197,404,347.00		
Costs VESA Study EIS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (VH) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (VH) Consultant design Consultant Design (PE) PE Consultant Contin. Reserve Consultant (Final Design)			2/3,504,50/.30		Base Budget 5,368.00 11,901.30 2,500.000.00 316,525.00 1,000,000 50,000.00 - 43,510,000.00	Budget S 5,454,700.00 S 12,674,033.00 S 2,197,642.90 S 316,525.00 S 975,000.00 S 22,960.14 S 11,000.00 S 27,139,110.38 S 267,559.00 S 194,099,207.00 S 2,332,718.00 S 116,026,944.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97 \$ 874,588.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36 \$ 267,559.00 \$ 191,404,347.00 \$ 191,404,347.00 \$ 37,933,792.32		
Costs MESA Study ElS for SAS (Incl. Lower Man. Ser. Study) Preliminary Engineering (I/H) Master Plan Development Arch/Eng Services TA Labor Services Outside Agencies Property Acquisition Preliminary Engineering (I/H) Consultant design Consultant Design (PE) PE Consultant Contin. Reserve Consultant (Final Design) Consultant (Final Design/Const. Support)			2/3,904,50/.30		Base Budget 5,368.00 11,901.30 2,500,000.00 316,525.00 1,000,000.00 50,000.00 - 43,510,000.00 - 210,452,138.00 -	Budget S 5,454,700.00 S 12,674,033.00 S 2,197,642.90 S 316,525.00 S 975,000.00 S 22,960.14 S 11,000.00 S 27,139,110.38 S 267,559.00 S 194,099,207.00 S 2,332,718.00 S 116,026,944.00 S 27,458,735.00	Vouchered As Of May 31, 2007 \$ 5,454,700.00 \$ 10,859,683.13 \$ 2,197,642.90 \$ 267,940.97 \$ 874,588.91 \$ 22,960.14 \$ 7,500.00 \$ 27,139,110.36 \$ 267,559.00 \$ 191,404,347.00 \$ 191,404,347.00 \$ 37,933,792.32 \$ 1,110,915.22		

Project Cost Estimate: The SAS Project Phase 1 cost estimate has been updated to address the concerns noted during the Risk Assessment process. Adjustments have been made to increase the unallocated contingency, real estate cost, and support an additional 6 months' float. The cost estimate and its various attachments have been submitted to the FTA in preparation for the FFGA application. Total project cost (including finance charges) is \$4.867 billion.

Quality Management: The Quality Management System addressed in SAS Project Quality Manual (PQM, Revision 2, dated November 2006, was reviewed for compliance with FTA guidance and found to be acceptable. The PQM was subsequently approved by the FTA on March 28, 2007. The SAS Quality Management System as described in the PQM establishes a systematic approach to ensure that the contracted products and services meet the requirements of the specifications. The SAS Project quality team continues to be proactive in the implement ation of the quality management system.

Design and Engineering Management: Phase 1 will consist of six construction contracts as follows – a tunnel boring contract, four Station contracts (63^{rd} St., 72^{nd} St., 86^{th} St. and 96^{th} St.) and a Systems contract. Two of the stations, 72^{nd} Street and 86^{th} Street, will be mined; the 96^{th} Street station will be cut and cover and the existing 63^{rd} Street station will be modified MTACC a warded the FD of Phase 1 to DHA on April 18, 2006 at a value of approximately \$143.485 million (\$116,000 million FD and \$27.485 million construction phase design support). Working group meetings are ongoing to support the Final Design of the various contract packages. PMOC continues to monitor these meetings.

Construction Contract #1 (G 26002 Tunnel Boring): Final design was completed by DHA in July 2006. During October 2006, MTACC and NYCT completed its internal review process and advertised the contract for bid on October 26, 2006. Asite tour and pre-bid conference were held on November 14, 2006. Two bids were received and opened on January 18, 2007. The bids were \$337.025 million and \$495.077 million. Contract 1 was a warded on March 20, 2007. A Ground Breaking ceremony was held on April 12, 2007. *Job Progress Meetings are being held, initial contract submittals are being delivered and afield office has been established*.

Real Estate: MTA Real Estate has taken the lead in real estate matters related to the SAS project and is responsible for acquiring the real estate interests needed for the project. MTA's real estate acquisition process is addressed in the Real Estate Acquisition Management Han (RAMP) dated July 2006. A PMOC review has revealed that the RAMP needs to be updated to comply with the Uniform Relocation Assistance and Real Property Acquisition Policies Act (Uniform Act). Enhancements to the RAMP will also be required as a result of a review of the process utilized on the Fulton Street Transit Center project. An updated RAMP was submitted during the last week of May 2007. PMOC will continue to monitor the real estate acquisition process.

Attachment B- Summary of Concerns and Recommendations

The status of PMO Contractor Concerns and Recommendations is shown in the following summary chart.

Note: Itens marked with a "C' in the "PMO Contractor Status" column will be dropped from future reports.

Key Item

Subtask 11 A XX	CLI N 0002 – Technical Capacity Review
Subtask 12A XX	CLIN 0003 - Monitor Project Development and Implementation

Legend

Pri ority (Pr)	Category (Cat.)	Grantee Action (DAI)	PMO Contractor Status
1 – Most Gitical	S1 – Scope	D – Remedial Action Developed	R – Review On-going
2 – Gitical	S2 – Schedul e	A – Remedial Action Approved	C – Completed – No further reviewrequired
3 – Least Gitical	S3 – Safet y/ Securit y	I – Action I npl e ment ed	
	B – Budget	Y – Yes	
	Q – Quality	N – No	

Attachment B-Summary of Concerns and Recommendations

Pr	Item	I dentification	Cat	Nature of Concern	P MO Recommendation	Gr ant ee Acti on			St at us	St at us
						D	A	Ι		

There are no open actions.