



Eye on the Future

MTA Contract Solicitations



Introduction

Welcome to the latest MTA "Eye on the Future," in which we present capital projects that are planned to be advertised from December 2011 through June 2012. The "Eye" is now hosted on our newly launched MTA Capital Program web site (mta.info/capital). This new site assembles key information and resources about the Capital Program in one convenient location. It is another part of how we are changing the way we do business and we hope that you find it to be useful.

The MTA Capital Program is not only very important for the safety and reliability of the MTA transportation system; it also is vital to the regional economy. As described in this issue of the "Eye," the MTA is preparing to undertake approximately \$2.2 billion in capital work that spans many areas, including civil, structural, and electrical, as well as new technologies. This work is part of the overall capital program that, based on the October 2009 APTA publication on the Economic Impact of Public Transportation Investments, is projected to create more than 50 thousand jobs and generate more than \$8 billion in economic activity for the New York region.

The current 2010-2014 Capital Plan has sufficient funding for 2010 and 2011, however funding is not yet in place for new projects included in the last three years of the Plan (2012-2014). For the time being, we are proceeding to solicit for 2012 projects in anticipation of securing funding; however, projects will not be awarded until funding is in place. The MTA has put forth a funding proposal for these and other projects in the last three years of the Capital Plan, which will require approval from Albany. Given the importance of the program to the reliability and growth of the system and to the regional economy, we hope to secure early approval.

Contractors and suppliers have a critical stake in the success of the Capital Program. We appreciate your interest in and support of the projects included in this issue of the "Eye" and their importance to the transit system and the region.

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MTA Contract Solicitations



Information About Contracts that Will Be Advertised for Professional Services, Construction, and Equipment Procurement

DECEMBER 2011 – JUNE 2012

▶ Information About Contracts

- ▶ [Overview](#)
- ▶ [Contacts](#)
- ▶ [Selected Contract Provisions](#)

▶ Forecast of Contracts and Proposals

▶ Brief Descriptions of Work to be Advertised

- ▶ [MTA](#)
 - ▶ [MTA New York City Transit](#)
 - ▶ [MTA Long Island Rail Road](#)
 - ▶ [MTA Metro-North Railroad](#)
 - ▶ [MTA Bridges & Tunnels](#)
 - ▶ [MTA Capital Construction](#)
 - ▶ [MTA Bus Company](#)

Overview

This edition of *An Eye on the Future* contains information for prospective contractors, engineers, architects and vendors about contracts that are expected to be advertised for bids between December 2011 and June 2012 by the Metropolitan Transportation Authority's operating agencies.

MTA
 MTA New York City Transit (NYC Transit)
 MTA Staten Island Railway (SIRTOA)
 MTA Long Island Rail Road (LIRR)
 MTA Metro-North Railroad (MNR)
 MTA Bridges and Tunnels (B&T)
 MTA Capital Construction (MTACC)
 MTA Bus Company (MTA Bus)

In 1993 the MTA board approved a new service identity program for the MTA family of agencies. The identity program provides for the use of the above popular names to make clear to our customers that the various MTA affiliates and subsidiaries constitute an integrated regional transportation network. However, for all procurement documents and official transactions, the agencies retain their legal names: New York City Transit Authority, Staten Island Rapid Transit Operating Authority, the Long Island Rail Road Company, Metro-North Commuter Railroad Company, Triborough Bridge and Tunnel Authority, Capital Construction Company and Bus Company.

With respect to the contract descriptions and other data included in this volume, readers should note that they are for general information only and are not to be construed as final. The exact description of the work and other pertinent information concerning an individual contract will be found in the contract specifications and drawings or solicitation documents which may be obtained by prospective bidders when solicitation begins. Most contracts for construction, procurement of capital equipment and professional services are awarded after a competitive process, including sealed bids for construction and procurements and competitive requests for proposals for professional services.

Some aspects of contracting are common to all the MTA agencies.

1. MTA agencies are not subject to the Wicks Law for their construction projects.
2. MTA agencies seek the best contractors, suppliers, and professional services firms in the business, including firms owned by women and minorities for which special efforts are made to ensure appropriate participation. We pledge to do our part to make all projects successful for the agencies and

contractors alike.

3. Projects already funded by Federal grants are noted in the solicitation schedule with an asterisk. Some of the other projects may become eligible for Federal funding in future grant applications.

Public notices of solicitations are normally published in advance of the availability of contract documents or requests for proposals in the New York State Contract Reporter and in one or more of the following publications.

New York Post
El Diario
The Daily Challenge
Amsterdam News
Minority Commerce Weekly
Engineering News Record

Contacts

Further information about contracts of MTA and any of its agencies can be obtained from the following:

MTA

Ms. Caron Christian
Manager, Contracts
MTA Procurements / Business Service Center
333 W 34th Street, 10th Floor
Telephone: (646) 376-0089
Fax: (646) 376-0278
Email: cchristian@mtabsc.org

MTA NEW YORK CITY TRANSIT / MTA STATEN ISLAND RAILWAY / MTA BUS COMPANY

Information about engineering and architectural consultant services contracts may be obtained from:

Mr. Joseph Paldino
Assistant Chief Procurement Officer
Materiel Division
MTA New York City Transit
2 Broadway
New York, NY 10004
Telephone: (646) 252-6330
Fax: (646) 252-6099
Email: joseph.paldino@nyct.com

Information about all other contracts may be obtained from:

Mr. Robert Eskenazi
Senior Director Materiel Division
MTA New York City Transit
2 Broadway
New York, NY 10004
Telephone: (646) 252-6258
Fax: (646) 252-6144
Email: robert.eskenazi@nyct.com

MTA METRO-NORTH RAILROAD

Mr. Charles F. Hansen
Deputy Director - Capital Procurement
MTA Metro-North Railroad
347 Madison Avenue 14th Floor
New York, New York 10017-3706
Telephone: (212) 340-3262
Fax: (212) 340-4034
E-mail: hansen@mnr.org

MTA LONG ISLAND RAIL ROAD

Ms. Carla Butler
Contract Research Clerk
Planning & Construction
MTA Long Island Rail Road
90-27 Sutphin Boulevard (0335)
Jamaica, New York 11435
Telephone: (718) 725-2622
Fax: (718) 725-2676
E-mail: cbutler@lirr.org

MTA BRIDGES & TUNNELS

Ms. Victoria Warren
Procurement and Materials
MTA Bridges and Tunnels
2 Broadway 24th Floor
New York, New York 10004
Telephone: (646) 252-7092
Fax: (646) 252-7077
E-mail: vprocure@mtabt.org

MTA CAPITAL CONSTRUCTION COMPANY

Mr. David K. Cannon
 Senior Director and Chief Procurement Officer
 Procurement and Law Department
 MTA Capital Construction Company
 2 Broadway - A8.99
 New York, New York 10004
 Telephone (646) 252-2321
 E-mail: dcannon@mtacc.info

Selected Provisions of Capital Program Contracts

This is a summary of several provisions which are generally applicable to MTA agency projects. Complete requirements for a given contract can only be obtained from the documents for that contract. Naturally, all construction is performed under the laws and regulations of New York State. This is not intended to be a full summary of General Provisions.

1. MTA New York City Transit, the two commuter railroads, and MTA Capital Construction Company base progress payments on the contractor's monthly submissions of cost-loaded schedules. The use of CPM network diagrams is required for complex projects while simpler bar charts are required for less complex projects.
2. All the agencies' contract documents contain a value engineering change proposal clause. Contractors are encouraged to submit cost saving proposals during construction, and upon acceptance of the proposal, would be able to share in the actual cost savings.
3. Another effort to improve the management of capital projects is the use of contractor evaluation files that are kept on all ongoing work. All the MTA agencies use identical criteria to evaluate contractors and share the information with the other MTA agencies.
4. The period between advertisement for bids and bid opening will vary from approximately four to eight weeks, depending on size of the contract.
5. Unless specifically noted in the bid document, the transit facilities will be in continuous operation during the performance of the work for the majority of contracts. The contracting agency will provide the necessary maintainers, flagmen, diversions of service and work trains.
6. Bidders will be required to submit, prior to the award of the contract, a program of affirmative action to provide for equal employment opportunity. Submittals will be described in the contract documents. Goals for the participation of minority-owned and women-owned firms may be specified for each contract.
 Minority business enterprises and women business enterprises will be afforded full opportunity to submit bids and/or proposals and will not be subjected to discrimination on the basis of race, religion, color, sex, or national origin in consideration for awarding contracts.
7. A bid bond or a certified check in the amount of five to ten percent is normally required at the time of delivery of the bid. The contractor must furnish a performance bond and payment bond in amounts equal to 100 percent of the contract price.
8. In addition to other requirements specifically provided in the contract, each bidder must be prepared to prove to the satisfaction of the contracting agency that he has the qualifications, including but not limited to skill and experience, and the necessary facilities and financial resources to complete the work in a satisfactory manner within the time specified.
9. Contracts generally require a guarantee of all apparatuses, devices, workmanship and materials for at least one year. A security in the form of a bond in the sum of a predetermined percentage of the amount of the contract may be required prior to the final payment. Contracts may have additional requirements which must be reviewed.
10. The contractor shall also maintain at a minimum Workers Compensation, Commercial General Liability and Commercial Automobile Insurance. Additional coverage may be required and will be indicated in the contract. The MTA and the contracting agency shall be named as an additional insured on the policy. In general, coverage requirements range from \$1,000,000 to \$5,000,000 combined single limit for injuries to persons (including death) and for damage to property. The limits of liability will vary depending on the size and type of projects. In addition, the contractor will be required to hold the governmental agencies and contracting agency harmless. Evidence of the required insurance shall be delivered to the contracting agency on an MTA approved Certificate of Insurance prior to execution of the contract.
 Each insurance policy, or Certificate of Insurance, shall contain an agreement by the insurance company issuing the policy that the policy will not be canceled, terminated or modified without 30 days prior notice to the contracting agency. At least two weeks prior to the expiration of each policy, the contractor shall endeavor to provide an updated Certificate of Insurance evidencing renewal coverage to the contract agency.
 The MTA has in place Owner Controlled Insurance Programs (OCIP) for the East Side Access (ESA) project, the Second Avenue Subway and selected projects in the Capital Plan. Under traditional OCIPs, the MTA covers the construction phase of work and provides general liability, excess liability, workers' compensation, railroad protective, and builder's risk coverage to all participating contractors. The ESA OCIP adds environmental liability coverage for related engineering and environmental work.



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MTA Contract Solicitations



Forecast of MTA, NYCT, MNR, LIRR, MTA CC, MTA BUS AND B&T Contracts to be Advertised and Proposals to be Solicited

Information About Contracts

See contracts for a specific agency:

- [MTA](#)
- [MTA New York City Transit](#)
- [MTA Long Island Rail Road](#)
- [MTA Metro-North Railroad](#)
- [MTA Bridges & Tunnels](#)
- [MTA Capital Construction](#)
- [MTA Bus Company](#)

DECEMBER 2011 – JUNE 2012

Type of Contract	Solic Month	Reference Number	Contract Description	Agency	Range
Bridges and Tunnels					
Constr Mgmt	DEC 2011	VN-80B	Construction Administration for Upper Level Deck Replacement of the Roadway Decks of the Upper Level Suspended Span of the Verrazano-Narrows Bridge	B&T	\$10M to \$50M
Design Services	FEB 2012	VN-87	Design and Design Services During Construction VN-87 Rehabilitation of Substation # 1	B&T	\$500K - \$1M
Constr	MAR 2012	BW-97B	Concrete Repairs and Installation of Dehumidification Systems in the Bronx and Queens Anchorage	B&T	\$5M - \$10M
Constr Mgmt	MAR 2012	BW-97B	Construction Management for the Anchorage Concrete Repairs and Installation of Dehumidification Systems in both the Bronx and Queens Anchorage	B&T	\$500K - \$1M
Constr	APR 2012	QM-30	Facility-Wide Electrical Upgrade and Ventilation Buildings Switchgear and Motor Control Centers Replacement at the Queens Midtown Tunnel	B&T	OVER \$50M
Long Island Rail Road					
Constr	DEC 2011	L09428 (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Substation Replacement	LIRR	\$10M - \$50M
Constr	JAN 2012	L08828	New Atlantic Terminal Elevator	LIRR	\$1M - \$5M
Constr	JAN 2012	L09761	Jamaica Station Headquarters Building Exterior Rehabilitation	LIRR	\$5M - \$10M

Metro-North Railroad

Constr	DEC 2011	M08807	Park Ave Tunnel Renewal	MNR	\$5M - \$10M
Constr	DEC 2011	M09235*	Procure/Install Cab Signal Equip West of Hudson	MNR	\$10M - \$50M
Constr	DEC 2011	M09252	Procure/Fabricate Field Code System-Mott Haven	MNR	\$500K - \$1M
Constr	DEC 2011	M09621*	Construction - West of Hudson Signal Improvements	MNR	\$10M - \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	JAN 2012	M09148	Design/Build - Park Ave Viaduct Direct Fixation	MNR	\$1M - \$5M
Purchase	JAN 2012	M09212/13/17/21/22/23	Procure Wayside, Onboard & Radio Comm. Equip	MNR	OVER \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	MAR 2012	M09173*	Construction Woodbury Viaduct	MNR	\$1M - \$5M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	APR 2012	M09444*	Construction - Harlem River Lift Bridge Breaker House Controls	MNR	\$5M - \$10M
Constr	JUN 2012	M09403*	Construction of Brewster Substation	MNR	\$5M - \$10M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	JUN 2012	M09404*	Construction 86th Street Substation	MNR	\$5M - \$10M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	JUN 2012	M09405*	Construction 110th Street Reactor	MNR	\$1M - \$5M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Purchase	JUN 2012	M09424	Purchase Mobile Motor-Alternator Set	MNR	\$500K - \$1M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		

MTA Bus

Constr	JAN 2012	SF01-7321*	SECURITY IMPROVEMENTS: EASTCHESTER AND LAGUARDIA DEPOTS	MTA BUS	\$5M - \$10M
Constr	MAY 2012	SF01-7407*	SECURITY IMPROVEMENTS: FAR ROCKAWAY and BAISLEY PARK DEPOTS	MTA BUS	\$5M - \$10M
Constr	JUN 2012	SF07-7411*	NEW APRON - JFK DEPOT	MTA BUS	\$5M - \$10M

New York City Transit

Constr	DEC 2011	C34793*	PAINT LINE STRUCTURE	NYCT	\$10M - \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	DEC 2011	ST22-7426	STATION RENEWAL - 5 LOCATIONS	NYCT	\$10M - \$50M
Constr	JAN 2012	A36193	STATION COMPONENTS REPAIR: BRICK ARCHES 168TH STREET & 181ST STREET	NYCT	\$10M - \$50M
Constr	JAN 2012	C43041	UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 7 STATIONS	NYCT	\$1M - \$5M
Constr	JAN 2012	C43042	UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 6 STATIONS	NYCT	\$1M - \$5M
Constr	JAN 2012	C43043	UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 9 STATIONS	NYCT	\$1M - \$5M
Constr	MAR 2012	E31112	REPLACE 3 BUS WASHERS	NYCT	\$5M - \$10M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	APR 2012	A36164*	PROVIDE STATION ACCESSIBILITY IMPROVEMENTS: 68 St-HUNTER COLLEGE	NYCT	\$10M - \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	APR 2012	C33131*	PAINT LINE STRUCTURE	NYCT	\$10M - \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	APR 2012	C33848*	PROVIDE PERIMETER HARDENING: RCC, PCC & 130 LIVINGSTON	NYCT	\$10M - \$50M
Constr	APR 2012	S32754*	INSTALL SIGNAL EQUIPMENT: UNION TURNPIKE - KEW GARDENS AND 71ST - CONTINENTAL AVENUE	NYCT	OVER \$50M
			(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)		
Constr	APR 2012	S32769*	DESIGN AND FURNISH SIGNAL EQUIPMENT	NYCT	OVER \$50M

		(NOTE: FULL FUNDING NOT IN FOR TWO INTERLOCKINGS: 71ST – PLACE FOR THIS PROJECT)	CONTINENTAL AVENUE AND UNION TURNPIKE – KEW GARDENS		
Constr	MAY 2012	C40481 (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	UPGRADE TANKS AT 2 BUS DEPOTS	NYCT	\$1M - \$5M
Constr	MAY 2012	E31292* (NOTE: FULL FUNDING NOT IN AND NORTHERN BLVD PLACE FOR THIS PROJECT)	NEW VENTILATION FACILITY AT 46TH STREET	NYCT	OVER \$50M
Constr	JUN 2012	C30401 (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	REHABILITATE DEEP WELLS: PHASE 2	NYCT	\$5M - \$10M
Constr	JUN 2012	C34191* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	PRIORITY REPAIRS AT MASPETH WAREHOUSE	NYCT	\$5M - \$10M
Constr	JUN 2012	C34906* (NOTE: FULL FUNDING NOT IN MAINTENANCE SHOP PLACE FOR THIS PROJECT)	UPGRADE DC POWER FEEDERS: 207 ST.	NYCT	\$10M - \$50M
Constr	JUN 2012	E31113 (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	UPGRADE EQUIPMENT FOR 7 BUS WASHERS	NYCT	\$5M - \$10M
Constr	JUN 2012	S32749* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	MODERNIZE SIGNAL SYSTEM: ROOSEVELT INTERLOCKING	NYCT	OVER \$50M

Capital Construction

Constr	DEC 2011	C-26010* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	96th Street Station	MTACC	Over \$100M
Constr	DEC 2011	C26512	Construction of Station Entrance at Site P	MTACC	\$50M - \$100M
Constr	DEC 2011	C-52101* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Atlantic Terminal, Atlantic Avenue and Pacific St. Station Complex Perimeter Protection	MTACC	\$1M - \$5M
Procure	DEC 2011	VS086* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Procure Tunnel Signal Equipment - Systems Package 3	MTACC	\$10M - \$50M
Constr	JAN 2012	CS284* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Systems Package 2	MTACC	Over \$100M
Constr	MAR 2012	CH057*	Harold Structures — Part 3,	MTACC	Over \$100M
Procure	MAR 2012	T0901* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Fabricate and Furnish Two Low Emission Diesel Locomotives	MTACC	\$1M - \$5M
Constr	APR 2012	CM014B* (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)	Construction of GCT Concourse and Facilities Fit-Out	MTACC	Over \$100M

* Partially Funded by Federal grant(s)



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Forecast of MTA, NYCT, MNR, LIRR, B&T, MTA CC, MTA BUS and SIR Contracts to be Advertised and Proposals to be Solicited

- ▶ [Information About Contracts](#)
- ▶ [Forecast of Contracts and Proposals](#)
- ▶ [Brief Descriptions of Work to be Advertised](#)
 - ▶ [MTA](#)
 - ▶ [New York City Transit](#)
 - ▶ [Long Island Rail Road](#)
 - ▶ [Metro-North Railroad](#)
 - ▶ [Bridges and Tunnels](#)
 - ▶ [Capital Construction](#)
 - ▶ [MTA Bus Company](#)

Bridges and Tunnels Brief Description of Work DEC 2011

VN-80B CONSTRUCTION ADMINISTRATION FOR UPPER LEVEL DECK REPLACEMENT OF THE ROADWAY DECKS OF THE UPPER LEVEL SUSPENDED SPAN OF THE VERRAZANO-NARROWS BRIDGE \$10M to \$50M

The Construction Scope of Work shall include removal of existing upper roadway deck and barrier, installation of new upper level orthotropic deck, overlay, drainage systems, sign structures, lighting, barriers, MPT, and miscellaneous utility work. The Inspection Services provided by the Consultant shall be performed under the general direction of the Triborough Bridge and Tunnel Authority, and shall include consulting, advising and making recommendations to the Engineer and the Contractor during the course of the work. The Consultant shall provide all on-site inspection and ensure the materials furnished and the work performed is in accordance with the Contract documents. Some of the work will be performed at night or on weekends.

- Ensure that all required permits have been obtained prior to the start of work. Make recommendations as to the capabilities of contractors, subcontractors and sources of materials and equipment proposed by them. Review contractor's CPM or Bar Chart schedule.
- Inspect the work of the Contract, notify the contractor in writing of any and all unacceptable work and maintain accurate and detailed written records of the progress of the Contract. Take immediate action on emergencies using sound engineering judgment.
- Conduct progress meetings and special meetings as required. Assist in the resolution of disputes among the contractors.
- Make recommendations to the Engineer for such changes in the work as the Consultant may consider necessary or desirable. Provide an analysis of the validity and need for proposed change orders and assist the Authority in the subsequent negotiations.
- Provide Lead Abatement services which include on-site inspections, air-monitoring and sampling and testing.
- Establish and implement procedures to be followed for the expediting the processing of shop drawings, catalog cuts and submittals and assist the Engineer in the project close-out procedure.

Duration of Contract 60 Months

Bridges and Tunnels Brief Description of Work FEB 2012

VN-87 DESIGN AND DESIGN SERVICES DURING CONSTRUCTION VN-87 REHABILITATION OF SUBSTATION # 1 \$500K - \$1M

General scope of services: The Consultant shall provide all the necessary design services required to prepare a complete set of bid documents in order to rehabilitate electrical substation # 1 at the VNB facility. The work shall include the following representative design tasks:

- Design of replacement of the existing incoming switchgear including transformers, tie breakers, high voltage switches, etc.

- Design of procedures to switchover old to new feeders.
- Combining previous designs into one biddable package, including development of all design details for construction of a building extension to the VNB service building auto garage to house the new substation.
- Estimates of construction costs.
- Design of new conduit routing to the bridge from the new substation location.
- Construction support services.

Duration of Contract 36 Months

**Bridges and Tunnels
Brief Description of Work
MAR 2012**

BW-97B

**CONCRETE REPAIRS AND INSTALLATION OF DEHUMIDIFICATION SYSTEMS IN THE BRONX AND QUEENS ANCHORAGE
\$5M - \$10M**

This Project includes concrete repairs to the exterior and interior of the Bronx Anchorage and the installation of a dehumidification system in both the Bronx and Queens Anchorage. Representative tasks include the following:

- Concrete repairs to exterior and interior of the Bronx Anchorage.
- Cleaning of exterior anchorage concrete and removal of existing paint.
- Application of corrosion inhibitor and water proofing sealer to the exterior anchorage concrete.
- Installation of working platform/scaffolding along exterior walls and curved surfaces of the Queens Anchorage.
- Installation of Dehumidification Systems in both the Bronx and Queens Anchorage.

Duration of Contract 18 Months

BW-97B

**CONSTRUCTION MANAGEMENT FOR THE ANCHORAGE CONCRETE REPAIRS AND INSTALLATION OF DEHUMIDIFICATION SYSTEMS IN BOTH THE BRONX AND QUEENS ANCHORAGE
\$500K - \$1M**

Construction project Description. This Project includes concrete repairs to the exterior and interior of the Bronx Anchorage and the installation of a dehumidification system in both the Bronx and Queens Anchorage. The Inspection Services provided by the Consultant shall be performed under the general direction of the Triborough Bridge and Tunnel Authority, and shall include consulting, advising and making recommendations to the Engineer and the Contractor during the course of the work. The Consultant shall provide all on-site inspection and ensure that the materials furnished and the work performed are in accordance with the contract documents. Following is a representative list of the consultant's primary duties and responsibilities.

- Ensure that all required permits have been obtained prior to the start of work. Make recommendations as to the capabilities of contractors, subcontractors and sources of materials and equipment proposed by them. Review contractor's CPM or Bar Chart schedule.
- Inspect the work of the Contract, notify the contractor in writing of any and all unacceptable work and maintain accurate and detailed written records of the progress of the Contract. Take immediate action on emergencies using sound engineering judgment.
- Conduct progress meetings and special meetings as required. Assist in the resolution of disputes among the contractors.
- Make recommendations to the Engineer for such changes in the work as the Consultant may consider necessary or desirable. Provide an analysis of the validity and need for proposed change orders and assist the Authority in the subsequent negotiations.
- Provide Lead Abatement services which include on-site inspections, air-monitoring and sampling and testing.
- Establish and implement procedures to be followed for the expediting the processing of shop drawings, catalog cuts and submittals and assist the Engineer in the project close-out procedure.

Duration of Contract 24 Months

**Bridges and Tunnels
Brief Description of Work
APR 2012**

QM-30

**FACILITY-WIDE ELECTRICAL UPGRADE AND VENTILATION BUILDINGS SWITCHGEAR AND MOTOR CONTROL CENTERS REPLACEMENT AT THE QUEENS MIDTOWN TUNNEL
OVER \$50M**

This project will replace existing switchgear sections at the Queens Midtown Tunnel facility in order to enhance the safety, reliability and flexibility of the tunnel's electrical power system. The scope of work for the project includes the following representative tasks:

- Installation of new drawn-out type switchgear sections and Motor Control Centers (MCC) and new Power Monitoring System and demolition of existing Switchgear and Motor Control Centers. All circuits from existing switchgear sections will be relocated to the temporary switchboards prior to demolition.
- Replacement of the following: single speed and two-speed ventilation fan motors, the existing standby emergency generator switchboards in the Queens Ventilation Building, the existing standby engine-generator in the Manhattan Ventilation Building, the existing Programmable Motor Protection Panels (PMP). Re-programming of existing tunnel ventilation system controls.
- Refurbishment and relocation of the existing emergency generator at the Manhattan Ventilation Building to the Queens Service Building as well as the existing emergency generator at the Queens Service Building to the Manhattan "D" Post Pump Station at the Manhattan Plaza.
- Rewiring of existing circuits including lighting and power to the new electrical distribution panels and field testing and commissioning of newly installed electrical equipment.
- Coordination with Con Edison for power shutdowns and temporary power service connections related to the switchgear replacement.
- Maintenance and protection of traffic.

Duration of Contract 54 Months

**Long Island Rail Road
Brief Description of Work
DEC 2011**

**L09428(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
SUBSTATION REPLACEMENT
\$10M - \$50M**

Replacement of existing substations in Hillside and Kew Gardens, Queens.

- Construct new prefabricated modular substation building and associated components.
- Furnish and install new switchgear, rectifiers, and transformers.

Duration of Contract 30 Months

**Long Island Rail Road
Brief Description of Work
JAN 2012**

**L08828
NEW ATLANTIC TERMINAL ELEVATOR
\$1M - \$5M**

Installation of a 2nd elevator at Atlantic Terminal.

- Furnish and install 1 new ADA compliant elevator.
- Construct new elevator shaft.
- Construct new elevator machine room.
- Upgrade existing elevator installation and transfer operations to new elevator machine room.

Duration of Contract 24 Months

**L09761
JAMAICA STATION HEADQUARTERS BUILDING EXTERIOR REHABILITATION
\$5M - \$10M**

Restoration of exterior building elements to bring landmark facility to State of Good Repair.

- Remove and replace lead paint that is falling due to age and weather.
- Replace all windows and doors.
- Repair and/or replace terra cotta units and cleaning / repointing brick.
- Clean and repair existing granite base units.
- Upgrade exterior building facade lighting.

Duration of Contract 12 Months

**Metro-North Railroad
Brief Description of Work
DEC 2011**

**M08807
PARK AVE TUNNEL RENEWAL
\$5M - \$10M**

The renewal of the Park Avenue Tunnel will consist of the construction of repairs to the tunnel masonry walls, the tunnel arch ceiling and to the ventilation shafts. The repairs will include:

- Replacement of loose or deteriorated brick, repointing of the brick and repairs to foundations.
- The repair of in-service utility lines passing across the tunnel roof that permit water and contaminants to enter and the removal of abandoned utility lines.

Duration of Contract 23 Months

**M09235*
PROCURE/INSTALL CAB SIGNAL EQUIP WEST OF HUDSON
\$10M - \$50M**

This project will procure and install a new 100 Hz Cab Signal system replacing existing wayside signal system for the West of Hudson Port Jervis Line between Suffern, NY (MP 31.3) and Sparrowbush, NY (MP 89.9). This system will be consistent with NORAC (Northeast Operating Rules Advisory Committee) and NJT (New Jersey Transit) operating rules. This project will extend cab signal system from NJT's territory (East of Suffern) to MNR territory up to the division post at MP 89.9. Representative tasks include the following:

- This project shall provide design and furnishing of bidirectional 100 Hz cab-no-wayside signal system.
- The work under this contract shall include design and furnishing of a new wayside signal system and grade crossing warning system to replace the existing vital relay based signal system on the Port Jervis Line.
- Design and furnishing of a non-vital system and communication links on the Port Jervis Line for Centralized Traffic Control.
- The new Port Jervis Line signal system shall be supplied as pre-wired instrument houses and cases that will be installed by others.

Duration of Contract 17 Months

**M09252
PROCURE/FABRICATE FIELD CODE SYSTEM-MOTT HAVEN
\$500K - \$1M**

Currently, CP-4(Harlem River Lift Bridge), CP-5(Mott Haven), CP-6(Yankee Stadium) and CP-106 (Melrose) are controlled from a single field code system. This represents a significant single point of failure within a key Mott Haven junction point. The current equipment is at the end of its useful life. The project will replace the single field code system, local control panel and non-vital relay systems with a distributed code system comprising of four

new code systems, local control panels and fiber optic cable between each interlocking. Representative tasks include the following:

- Fabricate, test and document CP4 code system rack with non-vital interfaces and local control panel.
- Fabricate, test and document CP5 code system rack with non-vital interfaces and local control panel.
- Fabricate, test and document CP6 code system rack with non-vital interfaces and local control panel.
- Fabricate, test and document CP106 (Melrose) code system rack with non-vital interfaces and local control panel.

Duration of Contract 23 Months

**M09621*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION - WEST OF HUDSON SIGNAL IMPROVEMENTS
\$10M - \$50M**

This project is for a contractor to provide engineering, installation and testing of direct burial and aerial inner duct, signal and communication cables and related hardware, pole line infrastructure, cable trough systems, signal house, case and mast foundation installations for the new signal system on the West of Hudson Port Jervis Line between Suffern, NY (MP 31.3) and Sparrowbush, NY (MP 89.9). Representative tasks include the following:

- The procurement and installation of direct burial inner duct and related hardware.
- The procurement, installation and testing of local and express fiber optic and copper cables.
- The procurement and installation of cable trough systems, conduits and pull boxes and any applicable hardware.
- The procurement and installation of all Signals, signal foundations, Cantilever with foundation, masts, and all associated hardware.
- The procurement and installation of switch junction boxes for all electric, electric lock and hand throw switches.
- The Contractor shall design, procure, install and test a prefabricated metal, signal power distribution center complete with watt meter service, power switchgear, automatic transfer switch, transformer, controls and cabling.

Duration of Contract 17 Months

**Metro-North Railroad
Brief Description of Work
JAN 2012**

**M09148
DESIGN/BUILD - PARK AVE VIADUCT DIRECT FIXATION
\$1M - \$5M**

This Design/Build contract is for the investigation and design of the rehabilitation of the direct fixation system that supports the running rails and the third rails for all four tracks atop the Park Avenue Viaduct from East 110th Street to East 131st Street. It will also perform a pilot construction project to replace a number of the existing fasteners in order to test the design resulting from the investigation.

Duration of Contract 21 Months

**M09212/13/17/21/22/23*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PROCURE WAYSIDE, ONBOARD & RADIO COMM. EQUIP
OVER \$50M**

Congress passed the Rail Safety Improvement Act of 2008 which requires that all commuter railroads implement a Positive Train Control System (PTC) on its mainline tracks by Dec 31, 2015. PTC is a system designed to prevent train-to-train collisions, over speed derailments, incursions into established work zone limits, and the movement of a train through a switch left in the wrong position. This project will provide for the procurement of radio/communication equipment, onboard equipment and wayside equipment. Representative tasks include the following:

- Furnish System Integration services to implement a fully functional 49 CFR Part 236, Subpart I compliant PTC system as described in these specifications.
- Furnish and be responsible for the Safety Certification of an ACSES II – based PTC system interconnected with existing railroad signaling and train control systems.
- Design & Furnish all PTC Wayside subsystems and engineering services.
- Design & Furnish PTC Onboard subsystems and engineering services
- Design & Furnish PTC Office systems for the railroads' Transportation personnel to manage the ACSES II system network
- All communications subsystems necessary to implement the ACSES II data radio system.
- Furnish all development, diagnostic, and test equipment used in the development of the furnished ACSES II systems and necessary for the railroads to maintain the ACSES II equipment.

Duration of Contract 40 Months

**Metro-North Railroad
Brief Description of Work
MAR 2012**

**M09173*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION WOODBURY VIADUCT
\$1M - \$5M**

The repairs to the Woodbury Viaduct will consist of the reconstruction of the east abutment backwall, repairs to the deteriorated concrete on three of the pedestals supporting the superstructure. Reinforcement of a pier footing located in a creek against scour by the placement of riprap, replacement of four expansion bearings located at both the east and west abutments and repairs to deteriorated stiffener angles located at two of the superstructure expansion joints.

Duration of Contract 10 Months

**Metro-North Railroad
Brief Description of Work
APR 2012**

M09444*
CONSTRUCTION - HARLEM RIVER LIFT BRIDGE BREAKER HOUSE CONTROLS
\$5M - \$10M

This contract provides for the replacement of the electrical control system that raises and lowers the Harlem River Lift Bridge (HRLB) on the Hudson Line for river traffic on the East River. The HRLB is a critical facility on the Metro-North system in that every train running to and from Grand Central Terminal needs to traverse this bridge which links Manhattan to the South Bronx. Put into service in 1954 the bridge remains electronically and mechanically mired in technology more than 50 years old. Electrical equipment used in the mechanisms for controlling, opening and closing the bridge consists of antiquated electro-mechanical relays and other components no longer available to replace. This antiquated control system will be replaced with a modern day PLC (Programmable Logic Controller) based system. The entire traction power system on the bridge will also be replaced. This system consists of two circuit breaker houses (CBH#6 and CBH#7) which will be replaced with modern day 700V DC switchgear housed in two pre-fabricated buildings. All of the positive and negative cables as well as the positive and negative contactors on the bridge will also be replaced.

Duration of Contract 26 Months

Metro-North Railroad
Brief Description of Work
JUN 2012

M09403*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION OF BREWSTER SUBSTATION
\$5M - \$10M

This project provides for the construction of (1) new traction power substation on the Upper Harlem line at Brewster Station. The substation building will be prefabricated at the factory and installed on a pre-constructed concrete pad. Work shall include:

- Construction of required substation foundation / vault.
- Procurement and installation of a prefabricated substation building including all necessary equipment: switchgear, transformers, and rectifiers.
- Installation of all traction power conduits and cables out to the tracks.
- Installation of all necessary 13kV feeds from existing utility PME's to the substation building.

Duration of Contract 20 Months

M09404*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION 86TH STREET SUBSTATION
\$5M - \$10M

This project provides for the replacement and expansion of the 86th Street Substation located within the Park Ave Tunnel. The existing substation equipment will be removed and replaced with new traction power transformers, rectifiers, and switchgear. The roof and walls of the existing structure will also be waterproofed. Work shall include:

- Expansion of the existing substation building to allow for the installation of a second transformer/rectifier pair.
- Waterproofing of the existing substation building's ceiling and walls.
- Installation of new AC and DC power cables.
- Procurement and installation of new AC and DC switchgear, transformers, and rectifiers.

Duration of Contract 24 Months

M09405*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION 110TH STREET REACTOR
\$1M - \$5M

This contract provides for the replacement of (4) negative return reactors at the 110th St. Substation with new larger capacity units. The new reactors will be installed on a new cantilevered structure that will be constructed on the side of the Park Ave Viaduct. Work shall include:

- Strengthening of the existing Park Ave Viaduct girders to support the new cantilevered structure.
- Installation of new traction power conduit and cables from the existing 110th substation to the new reactor units.
- Installation of a new steel cantilevered structure off the side of the Park Ave Viaduct.
- Procurement and installation of new larger capacity negative return reactors.

Duration of Contract 12 Months

M09424 (NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PURCHASE MOBILE MOTOR-ALTERNATOR SET
\$500K - \$1M

This project will provide for the purchase of a trailer-mounted mobile motor-alternator unit that can be transported as necessary to provide back-up signal power. This mobile unit will convert 60 Hz power from the utility into 100 Hz power for Metro-North's signal system. Work shall include:

- Fabrication of a trailer mounted motor-alternator set
- Procurement and fabrication of MA Set control system
- Procurement of all the necessary high voltage transformers.

Duration of Contract 12 Months

MTA Bus
Brief Description of Work
JAN 2012

SF01-7321*
SECURITY IMPROVEMENTS: EASTCHESTER AND LAGUARDIA DEPOTS
\$5M - \$10M

This project will furnish and install equipment and materials required for a complete Security System at both the Eastchester and LaGuardia Bus Depots. The system will include Access Control, Intrusion Detection and a Closed Circuit Television (CCTV) system. This project also includes the removal and replacement of specified sections of the existing perimeter fencing with new perimeter fencing and an access gate at LaGuardia Depot only.

Duration of Contract 9 Months

**MTA Bus
Brief Description of Work
MAY 2012**

SF01-7407*
SECURITY IMPROVEMENTS: FAR ROCKAWAY AND BAISLEY PARK DEPOTS
\$5M - \$10M

This project will furnish and install equipment and materials required for a complete Security System at both the Far Rockaway and Baisley Park Depots in the borough of Queens. The system will include access controls, perimeter fencing, lighting, security booths, alarms and a Closed Circuit Television (CCTV) system.

Duration of Contract 8 Months

**MTA Bus
Brief Description of Work
JUN 2012**

SF07-7411*
NEW APRON - JFK DEPOT
\$5M - \$10M

This project will replace the existing apron at the JFK Depot, located in the borough of Queens, and incorporate paving, security fencing, lighting, drainage, access controls and installation of eight rapid roll up doors with traffic lights. The Apron/ Exterior Bus Parking lot at JFK is approximately 90,000 sqft. or 2 acres. The apron has inadequate drainage, lighting, asphalt pavement, and security; along with access controls that have reached beyond their useful life.

Duration of Contract 12 Months

**New York City Transit
Brief Description of Work
DEC 2011**

C34793*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PAINT LINE STRUCTURE
\$10M - \$50M

This project will paint a portion of the IRT from the Portal North of 3rd Ave/149th Street Station to East 180th Street Station on the White Plains Road Line in the borough of the Bronx. The work includes the removal of loose paint, dirt, grease, and grime using hand and power tools. Following surface preparation, three coats of alkyd-based paint will be applied on all steel surfaces. This project will also include some steel repairs.

Duration of Contract 32 Months

ST22-7426
STATION RENEWAL - 5 LOCATIONS
\$10M - \$50M

This project will repair select elements within five stations on the Myrtle Line in the boroughs of Brooklyn and Queens . The stations are Central Avenue, Seneca Avenue, Forest Avenue, Knickerbocker Avenue, and Fresh Pond Road. The station renewal will eliminate all major deficiencies in each station as determined by the Station Condition Survey and may include the repair or replacements of platforms, platform edges, mezzanines, windscreens, and stairs. Station aesthetics will be improved through the painting of the station and installation of artwork.

Duration of Contract 22 Months

**New York City Transit
Brief Description of Work
JAN 2012**

A36193
STATION COMPONENTS REPAIR: BRICK ARCHES 168TH STREET & 181ST STREET
\$10M - \$50M

This project will remove, stabilize, and repair brick arch sections that span the tracks and platforms at the 168th and 181st street stations on the IRT Broadway/7th Avenue Line in the borough of Manhattan. Work will include replacement with panels, repairs to the architectural elements and associated electrical and communications work. Both stations are listed on the National Register of Historical Places; accordingly, the repairs must be consistent with historical standards.

Duration of Contract 34 Months

C43041
UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 7 STATIONS
\$1M - \$5M

This project will upgrade the HVAC system at various communication rooms located in the borough of Brooklyn. Work will vary per location but may include the modification/relocation of fans, installation of self contained or wall mounted AC units, or installation of split AC units with associated duct work and refrigerant piping. Locations include:

- 4th Avenue Line: Dekalb Avenue, Pacific Street, Union Street, 36th Street
- Brighton Line: Atlantic Avenue
- Canarsie Line: Lorimer Street, Myrtle-Wyckoff Avenue

Duration of Contract 12 Months

C43042
UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 6 STATIONS
\$1M - \$5M

This project will upgrade the HVAC system at various communication rooms located in the borough of Queens. Work will vary per location but may include the modification/relocation of fans, installation of self contained or wall mounted AC units, or installation of split AC units with associated duct work and refrigerant piping. Locations include:

- Queens Boulevard Line: 67th Avenue, Woodhaven Boulevard, Roosevelt Avenue, 65th Street, Steinway Street and 36th Street

Duration of Contract 12 Months

C43043
UPGRADE STATION COMMUNICATION ROOM HVAC, PHASE 2: 9 STATIONS
\$1M - \$5M

This project will upgrade the HVAC system at various communication rooms located In Manhattan. Work will vary per location but may include the modification/relocation of fans, installation of self contained or wall mounted AC units, or installation of split AC units with associated duct work and refrigerant piping. Locations include:

- Broadway Line: Union Square
- 8th Avenue Line: 81st Street, 50th Street, 34th Street, 42nd Street
- 6th Avenue Line: East Broadway
- 7th Avenue Line: 50th Street
- Flushing Line: Times Square
- Shuttle Line: Times Square

Duration of Contract 12 Months

New York City Transit
Brief Description of Work
MAR 2012

E31112(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
REPLACE 3 BUS WASHERS
\$5M - \$10M

This contract will replace the three existing bus washers, including arches, brushes, scrubbers, guide rails, skid plates, tanks, piping, drains, pumps, and other miscellaneous items at the Manhattanville Bus Depot in the borough of Manhattan. Work will include the removal of existing equipment and related items, site preparation, civil, structural and electrical work as required, and installation of new equipment and related items. Major work elements include the following:

- Remove and dispose of the existing bus washers including arches, brushes, scrubbers, guide rails, skid plates, tanks, piping, drains, meter, pumps, cable, conduit, bus washer power panels, traffic lights, concrete, steel, and other miscellaneous items to completely clear the site.
- Provide splash walls.
- Provide bus washers and associated equipment.
- Paint all exposed surfaces.
- Repair damaged walls and floor to match adjacent surfaces.
- Provide power supply and electrical work as required.

Duration of Contract 21 Months

New York City Transit
Brief Description of Work
APR 2012

A36164*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PROVIDE STATION ACCESSIBILITY IMPROVEMENTS: 68 ST-HUNTER COLLEGE
\$10M - \$50M

This project will provide full ADA (Americans with Disabilities Act) accessibility at the 68th Street Station on the IRT Lexington Avenue Line in the borough of Manhattan. The station has been identified as an ADA Key Station. Work will include improvements to vertical accessibility, provision of an accessible travel route, platform edge reconstruction to meet ADA boarding requirements, modification of control area gates and signage.

Duration of Contract 36 Months

C33131*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PAINT LINE STRUCTURE
\$10M - \$50M

This project will paint the elevated structure of the BMT Jamaica Line from bent No. 779 west of Broadway Junction - Eastern Parkway (north of Alabama Avenue Station) to Cypress Avenue Station located in the borough of Brooklyn. Work will include the removal of all loose paint, dirt, grease,

and grime using hand tools and power tools. Following surface preparation three coats of alkyd-based paint will be applied on all steel surfaces.

Duration of Contract 24 Months

C33848*
PROVIDE PERIMETER HARDENING: RCC, PCC & 130 LIVINGSTON
\$10M - \$50M

This project will enhance the security of the Power Control Center (PCC) and the Rail Control Center (RCC) located in the borough Manhattan along with 130 Livingston Plaza in the borough of Brooklyn. Work will include installation of bollards around the facilities, enhanced security at garage entrances, and any lighting, CCTV, alarms, or other equipment necessary for the control and monitoring of the security apparatuses.

Duration of Contract 12 Months

S32754*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
INSTALL SIGNAL EQUIPMENT: UNION TURNPIKE – KEW GARDENS AND 71ST – CONTINENTAL AVENUE
OVER \$50M

This project will modernize and improve the reliability of the 71st Avenue and Union Turnpike interlockings located on the IND Queens Boulevard Line in the borough of Queens. Work will include replacement with new conventional relay-based interlockings which are CBTC ready (capable for interfacing with the future CBTC signal system) and the construction of new relay rooms to house all associated equipment. The interlockings will be controlled from these relay rooms and the new 71st Avenue Master Signal Tower (being built under this contract). A separate contract for the engineering and furnishing of the signal equipment will be awarded.

Duration of Contract 57 Months

S32769*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
DESIGN AND FURNISH SIGNAL EQUIPMENT FOR TWO INTERLOCKINGS: 71ST – CONTINENTAL AVENUE AND UNION TURNPIKE – KEW
GARDENS
OVER \$50M

This contract will consist of engineering and furnishing signal equipment to be installed (under a separate and coordinated contract) at the existing interlockings at 71st – Continental Avenue and Union Turnpike in Kew Gardens, located on the IND Queens Boulevard Line in the borough of Queens. A separate contract will be awarded to be closely coordinated with this contract for the installation of the signal equipment and all other associated work.

Duration of Contract 53 Months

New York City Transit
Brief Description of Work
MAY 2012

C40481(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
UPGRADE TANKS AT 2 BUS DEPOTS
\$1M - \$5M

This project will upgrade the underground fuel tank sumps at the Fresh Pond Bus Depot and the Jamaica Bus Depot, both located in the borough of Queens. Specific tasks include replacing the manhole covers of fuel tank sumps at the Jamaica Bus Depot and replacing the manhole covers of the sumps, sumps and top slab at the Fresh Pond Bus Depot. Work includes structural, mechanical and electrical work.

Duration of Contract 13 Months

E31292*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
NEW VENTILATION FACILITY AT 46TH STREET AND NORTHERN BLVD
OVER \$50M

This project will provide a new ventilation facility for the IND Queens Blvd. Line 'E' & 'F' express train service between 36th St. and 65th St. Stations below the Northern Blvd. bypass section at 46th Street in the borough of Queens. Work will include a new underground structure, plenum, vent bays and flues, and furnishing and installation of associated electrical and mechanical systems. The construction of the new structure will also involve major site excavation and underground utilities work. Incidental work will include communication, instrumentation & controls, utility and niche closures. The work will conform to the latest Federal, State and NYCT standards. Specific tasks include the following:

- Provide architectural work for the fan chamber, electrical distribution room (EDR) and control room as required to accommodate new fans and related equipment and controls.
- Provide civil work including excavation, concrete and steel work and street restoration including major utility relocation/restoration, for a complete structure ready to accept equipment. Support installation of approximately 96 NVD's along alignment vent gratings. Provide wall closures between all tracks including 862- 3' x 7' openings, and 8 of open columns. Provide drainage for all spaces.
- Provide mechanical work including: new emergency fans, ductwork, silencers, dampers (FID, NVD & FID); cranes and hoists; rolling platforms; normal ventilation systems for spaces; and, drainage pumps.
- Provide all necessary communication links from the fan plant to remote control and monitoring locations (Rail Control Center at 54th Street and Hydraulics Maint. Center at Sand St.). Provide necessary communication circuits from fan plant to Station Communication Rooms for operation from RCC. Provide telephones in the EDR and control room and extinguishers for a complete operating ventilation facility.
- Provide instrumentation and controls including Programmable Logic Controllers (PLCs), control enclosures, electrical and electronic indicators and other equipment for a complete instrumentation and control system. Develop all necessary software for proper fan plant operation including local and remote operation.

Duration of Contract 36 Months

New York City Transit
Brief Description of Work
JUN 2012

**C30401(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
REHABILITATE DEEP WELLS: PHASE 2
\$5M - \$10M**

This project will rehabilitate eight (8) deep wells on the IRT Nostrand Avenue Line in the borough of Brooklyn. The deep wells are installed for controlling ground water surrounding the subway tunnel to prevent water infiltration. Work will include structural rehabilitation of well enclosures, new personnel access hatch, new control system including fiber-optic based communication network for remote monitoring and control of deep wells operation and all other associated and incidental work.

Duration of Contract 21 Months

**C34191*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
PRIORITY REPAIRS AT MASPETH WAREHOUSE
\$5M - \$10M**

This project will perform priority repairs to the Maspeth Warehouse, located at 55-04 Maspeth Avenue in the borough of Queens, to prevent further deterioration of the facility. Work includes architectural, structural, mechanical and electrical work.

Duration of Contract 11 Months

**C34906*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
UPGRADE DC POWER FEEDERS: 207 ST. MAINTENANCE SHOP
\$10M - \$50M**

This contract will upgrade the existing DC power feeders and distribution system at 207 Street Maintenance Shop in the borough of Manhattan. The existing system will be totally removed and replaced, and the new system will include enhanced safety features and controls. Work will include installation of several systems and assemblies, such as a new DC Power Room, positive and negative feeders, new trolley and stringer assemblies, and insulated joints. Electrical and communications equipment will also be installed. Major tasks include the following:

- Install new feeders between Dyckman Substation and the Maintenance Shop.
- Install a new backup feeder from CBH #593
- Replace the four overhead trolley assemblies.
- Replace conductor main and auxiliary drop assemblies
- Replace positive power cables and connections to trolley conductors and replace negative cables within the shop and between the shop and the main negative bus from Dyckman Substation.
- Provide control and indication circuits and panels for local and remote operation of contactors.
- Provide emergency power shut-off boxes and stray current monitoring system for the Maintenance Shop.
- Remove all existing cables, switchgear and equipment associated with the existing DC distribution system.

Duration of Contract 24 Months

**E31113(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
UPGRADE EQUIPMENT FOR 7 BUS WASHERS
\$5M - \$10M**

This project will upgrade equipment for seven bus washers at three bus depots. Three bus washers will be upgraded at the Kingsbridge Depot, located in the borough of Manhattan, two bus washers will be upgraded at the Gun Hill Depot in the borough of the Bronx, and two bus washers will be upgraded at the Casey Stengel Depot in the borough of Queens. Work will include the removal of existing equipment and related items, site preparation, civil, structural and electrical work as required, and installation of new equipment and related items. Major work elements include the following:

- Remove and dispose of the selected existing bus washer components at all three locations including brushes, motors, skid plates, pumps, and other miscellaneous items as indicated.
- Provide splash wall as required for all locations.
- Provide new bus washer components as required.
- Paint all exposed surfaces.
- Repair damaged walls and floor to match adjacent surfaces.
- Provide instrumentation and controls for the new components.

Duration of Contract 21 Months

**S32749*
MODERNIZE SIGNAL SYSTEM: ROOSEVELT INTERLOCKING
OVER \$50M**

This contract consists of rehabilitating and modernizing the signal system and constructing new enclosures at the existing interlocking at the Roosevelt Avenue Station, located on the IND Queens Boulevard Line in the borough of Queens. The Roosevelt Avenue Interlocking shall be replaced with a new modern relay-based interlocking and shall be made CBTC ready (capable for interfacing with the future CBTC signal system). This contract will also furnish and install a new relay room to house all necessary equipment for the new interlocking. The Roosevelt Avenue interlocking will be controlled from the new relay room as well as from the new 71st Avenue Master Signal Tower (being built under a separate contract).

Duration of Contract 47 Months

**Capital Construction
Brief Description of Work
DEC 2011**

**C-26010*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
96TH STREET STATION
Over \$100M**

This contract is for the construction of an underground station including entrances, ancillaries, finishes and MEP systems. This contract follows C-26005, which included the construction of exterior station slurry walls, utility relocation, excavation and installation of road decking. The scope of work on this contract includes, but not limited to the following:

- Construct reinforced concrete invert slabs from 87th to 99th Street
- Rehabilitate the existing 99th to 105th Street tunnel
- Supply and install mechanical systems including HVAC work in the station and tunnel ventilation systems in the adjacent tunnels
- Supply and install electrical medium voltage and 120V systems, uninterruptable power systems, lighting and emergency lighting in the station & adjacent tunnels.
- Supply and install plumbing systems, fire suppression system, elevators, escalators and track drainage
- Perform permanent utility and surface restoration work from 92nd to 99th Street

Duration of Contract 39 Months

C26512

CONSTRUCTION OF STATION ENTRANCE AT SITE P

\$50M - \$100M

This Contract is for the construction of the an underground station entrance structure including foundation walls, overbuild shear walls, slabs, columns, footings, finishes and systems and two (2) steel and glass canopies over the station entrances. The scope of work includes, but is not limited to:

- Excavation of soil and rock overburden
- Mining, and excavation of an incline tunnel for escalators and stairs
- Provide interim temporary mechanical ventilation, electrical power, groundwater dewatering
- Obtaining all regulatory permits
- Maintenance and protection of pedestrian and vehicular traffic
- Geotechnical instrumentation and monitoring

Duration of Contract 43 Months

C-52101*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)

ATLANTIC TERMINAL, ATLANTIC AVENUE AND PACIFIC ST. STATION COMPLEX PERIMETER PROTECTION

\$1M - \$5M

This Contract is structural perimeter protection of the LIRR's Atlantic Terminal and NYCT's Atlantic Avenue and Pacific Street Station Complex. The work shall include but is not limited to:

- Removal of existing concrete structures
- Installation of security bollards
- Sidewalk, concrete and granite work
- Waterproofing

Duration of Contract 15 Months

VS086*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)

PROCURE TUNNEL SIGNAL EQUIPMENT - SYSTEMS PACKAGE 3

\$10M - \$50M

This Contract shall complete the final design, fabricate, furnish and deliver the signal central instrument room and wayside signal equipment for the ESA Tunnels. All equipment shall be installed by the CS284 contractor. The basic equipment includes; LED Signals, Power Supplies, Power Distribution Panels, Breakers, Busses, Junction Boxes, Conduit, Transfer Switches, Control Panels, Terminals, Tags, Pre-Wired Racks — Track, Vital, Ground Detect, Maintainer's Diagnostic System, Test Rack System, Maintainer's Workstations, Cab Signal Code Relays, Local Area Network (LAN) linking CIRs, Event Recorders, Impedance Bonds and Microprocessor-based Equipment

- Central Instrument Room equipment
- Signal Cases
- Wayside equipment

Duration of Contract 20 Months

**Capital Construction
Brief Description of Work
JAN 2012**

CS284*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)

SYSTEMS PACKAGE 2

Over \$100M

This Contract is for furnishing and installing multiple tunnel systems for the entire length of the ESA Project. The work shall include, but is not limited to, the following:

- Installation of track (furnished by owner), special work, switch machines, third rail, finish track and invert slabs, drainage and embedded conduits and tunnel corrosion control system.
- Fabricate, install, test and commission all traction power substations and wayside equipment to support the traction power system in the ESA Tunnels and GCT.
- Install, test and commission the signaling system from the GCT Tail Tracks to Harold interlocking

Duration of Contract 48 Months

**Capital Construction
Brief Description of Work
MAR 2012**

CH057*
HAROLD STRUCTURES – PART 3,
Over \$100M

This Contract shall be responsible for earth and site work, utility relocations, track realignment, drainage, and construction of new heavy civil structures within the LIRR Harold Interlocking located in Queens. The scope of work shall include but is not limited to:

- A new underground by-pass tunnel, approach structures for new tunnels and the extension of exiting bridges and underpass structures.
- New retaining walls, catenary and utility tower foundations and poles, access roads.
- The new track structures shall include the installation of direct fixation track, traction power, lighting, stand pipe and fire protection systems.
- Installation of monitoring devices for existing structures and ground conditions.
- Perform all required incidental abatement (ballast, soils, asbestos, lead paint).

Duration of Contract 30 Months

T0901*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
FABRICATE AND FURNISH TWO LOW EMISSION DIESEL LOCOMOTIVES
\$1M - \$5M

This work scope shall be responsible for the design, development, fabrication, testing and delivery of two (2) low emissions, engine-generator locomotives to support in-service testing, commissioning and operations for the Long Island Rail Road East Side Access Service to Grand Central Terminal Station.

Duration of Contract 24 Months

Capital Construction
Brief Description of Work
APR 2012

CM014B*(NOTE: FULL FUNDING NOT IN PLACE FOR THIS PROJECT)
CONSTRUCTION OF GCT CONCOURSE AND FACILITIES FIT-OUT
Over \$100M

This Contract is for the construction of the new LIRR Grand Central Terminal (GCT) Concourse facility which includes foundation, underground utilities, CMU walls, structural steel framing, mechanical, electrical, plumbing, fire protection, and architectural finishes. This contract also provides the construction for the fit-out of 44th Street Ventilation and 50th Street Ventilation Facilities. The scope of work includes, but is not limited to:

- Construction of new LIRR GCT Concourse
- Intermodal Connections and Interfaces with MNR's GCT including dining concourse, 45th street cross passageway, 47th street cross passageway.
- Installation of elevators and escalators using the designated Contract VM014 contractor.
- Perform the local station testing of GCT concourse and caverns.

Duration of Contract 35 Months

* Partially funded by Federal Grant(s)

