Phase 1 Overview

- **Scope:**
  - Q train service
  - Tunnels from 92nd St to 63rd St
  - New Stations at 96th St, 86th St, and 72nd St
  - 63rd St Station Connection
  - Track & Systems from 105th St to 63rd St
  - Service between 96th St & Brooklyn via Broadway Line

**Phase 1 Overview**

- **63rd Street / Lexington Ave Station**
  - 4 New Entrances
- **96th Street Station**
  - (Cut-and-Cover)
  - 3 Entrances
- **86th Street Station**
  - 2 Entrances
- **72nd Street Station**
  - 3 Entrances

**Phase 1:** Target Cost-$4.451B---Ridership 200,000---Target Completion Date-December 2016
The Second Avenue Subway Project is on time and on budget for a December 2016 completion.

Overall Construction Progress is 86.35% complete as of September 1\textsuperscript{st}.

All 10 SAS Contracts have been awarded for Phase 1

5 Construction Contracts Completed:
- Tunnel Boring Machine Tunneling
- 86\textsuperscript{th} St Excavation, Utility Relocation, and Road Decking
- 96\textsuperscript{th} St Site Work and Heavy Civil
- 72nd St Cavern Mining, Tunnels and Heavy Civil
- 86\textsuperscript{th} St Cavern Mining & Heavy Civil
# 5 Active Contracts

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<thead>
<tr>
<th>Station</th>
<th>Work Description</th>
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<td>96th St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
<td>76%</td>
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<td>86th St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
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<td>72nd St.</td>
<td>Station Finishes, Systems, Ancillary Buildings and Entrances</td>
<td>70.15%</td>
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<td>63rd St.</td>
<td>Station Upgrade</td>
<td>92.13%</td>
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<td><strong>All Stations</strong></td>
<td>Track, Power, Signals &amp; Communications Systems</td>
<td>63.32%</td>
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Rehabilitation of Existing 63rd Street Station

Station Upgrade Contract
Percent Complete: 92.13%
Contract Value incl. AWOs: $190.8 M
Award Date: January 13, 2011
Forecast Completion: Winter 2015/2016
Milestones

- Escalator installation at new Entrance 1 (southeast corner of 63rd Street and 3rd Avenue) is underway.

- Construction for Entrance 3 (northeast corner of 63rd Street and Third Avenue) and Entrance 4 (southwest corner of 63rd and 3rd Avenue) continuing below sidewalk level. Entrance canopies have been installed.
Current Work Zones
(SE corner of 63rd Street & Third Avenue)

Escalator installation at Entrance 1
Current Work Zones
(NW corner of 63rd Street & Third Avenue)

Entrance 2 Elevator Kiosk
Current Progress

Granite flooring at lower level elevator lobby
Current Progress

Installation of artwork at 63rd Street station area
Three-Month Look Ahead

STATION

• Installation of service carrier, ductwork and electrical conduit at the upper platform level
• Installation of platform finishes, including ceilings, track wall tile framing, column covers, platform paving, and lighting fixtures
• Masonry wall, ceiling panel, and door installation throughout station
• Mechanical, electrical and plumbing systems installation in new station area
Three-Month Look Ahead

**ENTRANCE 1**
(200 East 63rd Street)
- Escalator installation
- Installation of finishes and tiles

**ANCILLARY 2**
(Northwest corner of 63\textsuperscript{rd} Street and Third Avenue)
- Construction of elevator shaft within plaza work zone area
- Receive materials via sidewalk access hatch on the north side of 63\textsuperscript{rd} Street west of the existing work zone

MTA Capital Construction
Three-Month Look Ahead

OTHER SURFACE WORK

• Installation of interior finishes at Entrance 4 (southwest corner of 63rd Street and Third Avenue).

THIRD AVENUE STORAGE/WORK ZONE
(Third Avenue between 63rd and 64th Streets)

• Work zone will remain until Summer 2016 for materials storage and small office trailer for systems contractor.
Rendering of 63rd Street Plaza
SW corner of 63rd Street and Third Avenue
Rendering of 63rd Street Station Art Installation, Mezzanine Level (Area 5)
Artist – Jean Shin, MTA Arts and Design commissioned work
72nd Street Station

Finishes, MEP Systems, Ancillary Buildings and Entrances Contract

Percent Complete: 70.15%

Contract Value incl. AWOs: $283.7 M

Award Date: February 14, 2013

Forecast Completion: October 2016
Milestones

• Exterior and interior excavation is complete at Entrance 1 (northeast corner of 69th Street and Second Avenue)

• Structural work is complete at Ancillary 2 (northwest corner of 72nd Street and Second Avenue)

• Entrance 3 (southeast corner of 72nd Street and Second Avenue) structural work is at street level

• Ancillary 1 (northwest corner of 69th Street and Second Avenue) structural work has reached the third floor level

• Systems contractor has begun installation of communications and signaling equipment
Main Cavern Service Carrier Steel Framing Installation
Current Progress

Main Cavern (platform level) – Track wall tile installation near completion
Current Progress

Ancillary#2 NW corner 72nd Street
Current Progress

Ancillary#1 NW corner 69th Street
Current Progress

Entrance 3 (southeast corner of 72nd Street and Second Avenue) at street level
Three-Month Look Ahead

Main Station Cavern:

- Installation of wall tiles, ceiling panels, conduits and duct work at the mezzanine level
- Mechanical, electrical and plumbing systems installation at mezzanine level
- Installation of service carrier and ceiling panels at the platform level
- Cable pulling through finished conduits
- Resumption of track work in station area in September
Three-Month Look Ahead

Entrance 1:
• Installation of the underground incline lining
• Concrete pours continuing
• Street work hours: 7 a.m. – 10 p.m.

Ancillary 1, Ancillary 2, Entrance 3
• Installation of waterproofing and construction of Ancillary 1 and Entrance 3 structures
• Concrete pumping at Ancillary 1 and Entrance 3
• Equipment delivery and installation at Ancillary 1, Ancillary 2 and Entrance 3
• Façade Installation at Ancillary 2
• Installation of elevator steel at Entrance 3 shaft
Three-Month Look Ahead

Miscellaneous

- Concrete truck staging as needed between 74th and 75th Streets
- Use of access hatch at Ancillary 1 and Ancillary 2 to deliver materials to the station
- Upcoming Verizon work on 72nd Street from 1st to 3rd Avenues
- Upcoming Con Edison Work at 69th Street and 2nd Avenue for permanent power to the station
- Removal of water treatment plant between 73-74 Street
- Plans to start street restoration between 65-68 Streets and 74-75 Street
86th Street Station

Finishes, Entrances, Ancillaries, and MEP Systems Contract

Percent Complete: 51.9%

Contract Value: $223,000,000

Award Date: June 12, 2013

Forecast Completion: October 2016
86th Street Station Milestones

- Three of the four escalators at Entrance 2 (E. 86th Street) have been installed.

- Traffic has been switched to the east side of Second Avenue, between 82nd – 85th Streets, so that work can begin on the west side there.
Installation of wall panels and support brackets for wall tile.
Installation of escalators from the mezzanine level to the platform level
Three Month Look Ahead
86th Street Station Area

E. 78th to E. 79th Streets – (Center of Second Avenue)
Maintain center work zone on Second Avenue between 78th and 79th Streets for concrete placement for track work in the underground tunnels.

E. 82nd to E. 85th Streets
Construction of the Ancillary 1 building on the northwest corner of 83rd Street will reach street level in September.

E. 86th Street to E. 87th Streets
Construction of the Ancillary 2 building on the northwest corner of 86th Street will reach street level in October.
Crane will be removed from the work zone on the east side and utility relocation will begin.
Three Months Construction Look Ahead

E. 86th Street between 1st and 2nd Avenues

Work will begin at the elevator shaft late-September. Traffic lanes will be reduced to two eastbound lanes and one westbound lane.
Three Month Look Ahead
86th Street Station Area

Underground Construction

• Installation of concrete masonry walls at the platform, mezzanine, and upper mezzanine levels.

• Installation of HVAC ductwork and insulation at the mezzanine and upper mezzanine levels.

• Installation of electrical conduit at the platform and mezzanine levels and Entrance 1 and 2.

• Delivery of equipment and systems throughout the station will continue, including equipment to power station, escalators, and elevators.
Elevator entrance at E. 86th Street
86th Street Entrance 1 Rendering

83rd Street and Second Avenue
Rendering of 86th Street Station Art Installation

Artist – Chuck Close, MTA Arts and Design commissioned work
Portraits in mosaic and tile representing NYC cultural figures & family
96th Street Station

Finishes, MEP Systems, Ancillary Buildings and Entrances Contract

Percent Complete: 76%
Contract Value: $324,600,000
Award Date: June 22, 2012
Forecast Completion: October 2016
Construction Update
96th Street Station

• Roadway decking & decking support removal continues along west side of 2nd Avenue.
• Utility work continues on the west side of 2nd Avenue. Expected to be completed in December 2015.
• Installation of communication conduits continue in Ancillary 1 (northeast corner 93rd Street & 2nd Avenue) and Ancillary 2 (southwest corner of 97th Street & 2nd Avenue)
• Completed installation of facility power equipment and wires. Started testing of facility power equipment.
Construction Update continued
96th Street Station

- Installation of escalators at Entrance 1 (southwest corner of 94th Street & 2nd Avenue) and Entrance 2 (northeast corner 94th Street & 2nd Avenue)
- Tunnel ventilation fans are being installed at Ancillary 1 (northeast corner of 93rd Street & 2nd Avenue.)
- Entrance 3 concrete pours complete (southwest corner of 96th Street & 2nd Avenue.)
Installing Sound Attenuators for Fans at Ancillary 2 97th Street and 2nd Avenue
Pouring Concrete Cradle for the 48” Sewer main at Entrance 3 96th Street and 2nd Avenue
Construction Progress

Backfill on the west side of Second Avenue between 92\textsuperscript{nd} and 93\textsuperscript{rd} Street
Construction Progress

Entrance 3 pour complete
Southwest corner of 96th Street and 2nd Avenue

9/25/2015
Construction Progress

Service booth Installation at Entrance 3
96th Street and 2nd Avenue
Three Month Look Ahead
96th Street Station Area

• Deck beam & roadway decking removal on west side of Second Avenue.
• Continuing surface utility work on west side of Second Avenue between 91st Street and 99th Streets.
• Sidewalk restoration to begin in northern (104th Street) and southern (90th Street) ends of the station area.
• Installation of HVAC ducts, masonry walls, and electrical conduit throughout the station.
96th Street Ancillary 2 Rendering
SW corner 97th Street and Second Avenue
96th Street Entrance 3 Rendering
NW corner 96th Street and Second Avenue
Rendering of 96th Street Station Proposed Art Installation

Artist – Sarah Sze, MTA Arts For Transit commissioned work
Systems Installation

- Low Vibration Track (LVT) System Being Installed
  - Track to be installed: 22,000 ft.
  - Track installed to date: 12,500 ft.
    (11,180 ft. concreted)
  - Aluminum 3\textsuperscript{rd} rail installed: 8,500 ft.
  - Track delivered to site: 22,000 ft.
  - 96\textsuperscript{th} St. Station interlocking (Special Work Portion) scheduled for concrete placement before the end of September.

Installation of Special Work Portion at 96\textsuperscript{th} St.
Systems Installation

- Traction Power work ongoing for three substations and four circuit breaker houses
  - Traction Power Substation equipment has been delivered to all stations.
- Signal equipment being installed in relay rooms, central instrumentation room and along the wayside.

Central instrumentation testing underway at 63rd Street.
Systems Installation

- Contractor completed approximately 90% of the copper cable and 95% of the fiber optic cable installations at 63rd street station.
- Installation of all CCTV cabinets at 63rd, 72nd and 96th street stations.
- Installation of inter-station communication cables completed between 86th Street and 105th Street.

Track, Power, Signals and Communications Systems Contract
Percent Complete: 63.32%
Contract Value incl. AWOs: $282.8 M
Award Date: January 18, 2012
Forecast Completion: October 2016
Questions