

SECOND AVENUE SUBWAY PROJECT

COMMUNITY BOARD EIGHT  
PROJECT UPDATE

February 15, 2011

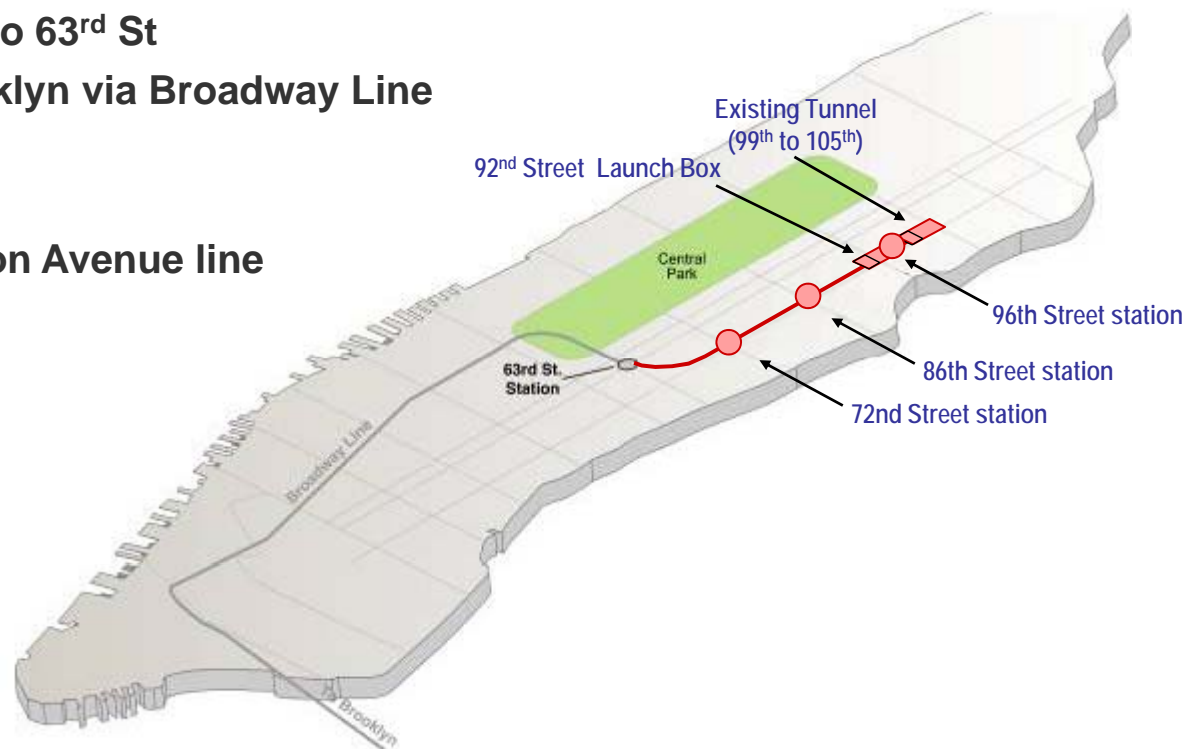
# SECOND AVENUE SUBWAY - PHASE 1

## Scope:

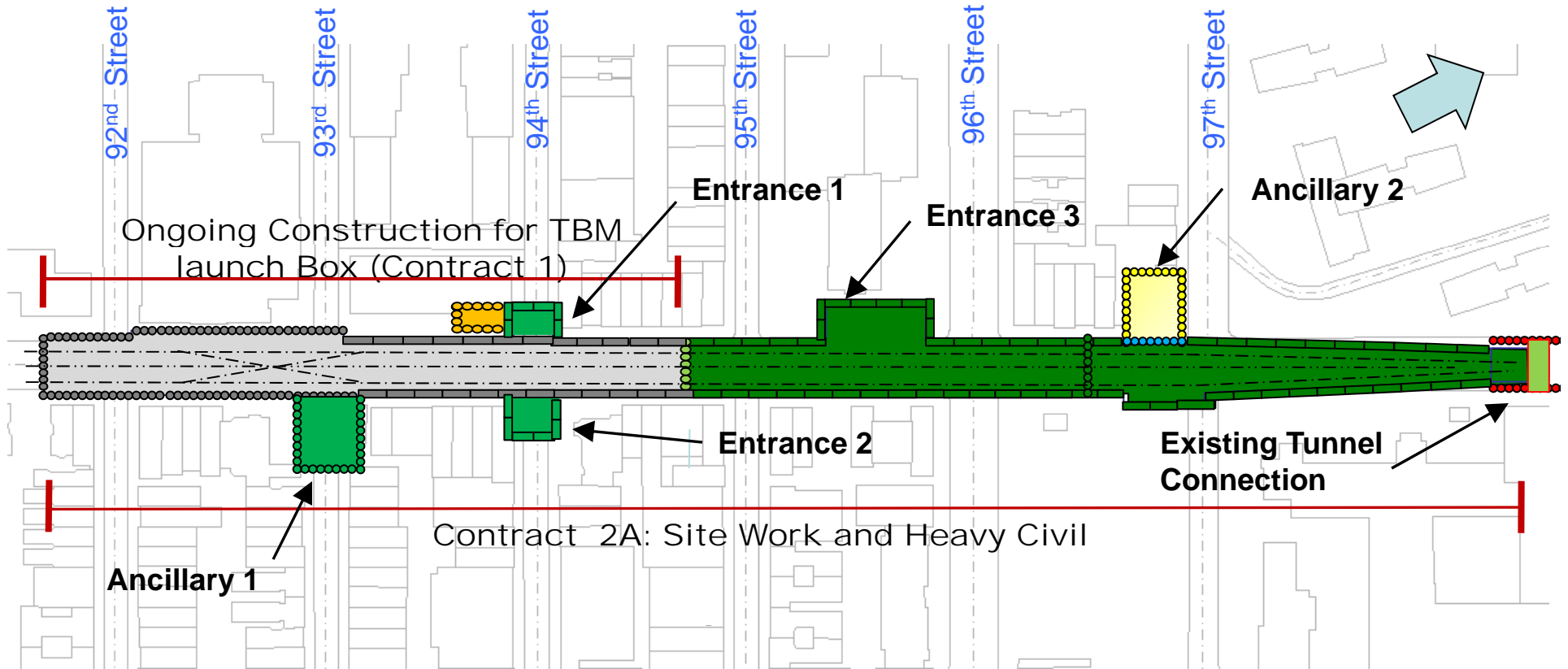
- Tunnels from 92<sup>nd</sup> St to 63<sup>rd</sup> St
- Stations at 96<sup>th</sup> St, 86<sup>th</sup> St, 72<sup>nd</sup> St and 63<sup>rd</sup> St
- 63<sup>rd</sup> St Subway Connection
- Track & Systems from 105<sup>th</sup> St to 63<sup>rd</sup> St
- Service between 96<sup>th</sup> St & Brooklyn via Broadway Line

## Benefits:

- Relieves Overcrowded Lexington Avenue line  
*(86<sup>th</sup> St to Grand Central)*
- Connects to existing system  
*(Storage and Maintenance)*
- Early use of Tunnel Section built in 1970's



# 96th Street Work Zone: Construction Plan



Contract 2A: 96th Street Station - Site Work & Heavy Civil

CONSTRUCTION PROGRESS – Snow cleared Sidewalk Looking South at 99th St.





# CONSTRUCTION PROGRESS – Guide wall construction for the secant piles at 97th St.





# CONSTRUCTION PROGRESS – Secant Pile Operation





# CONSTRUCTION PROGRESS – Restriping of Cross Walk along 97th St.



## CONSTRUCTION LOOK AHEAD FOR 96<sup>TH</sup> STREET STATION AREA – for next 3 months

### Major Operations in the next three months:

- Continue secant piles at Ancillary 2 (97th St)
- Begin work at Ancillary 1 (93rd St)
- Begin slurry wall
- Relocate bus stop from 99th to 97th St
- Daytime closure of 95th St west of 2nd Ave (sewer construction)

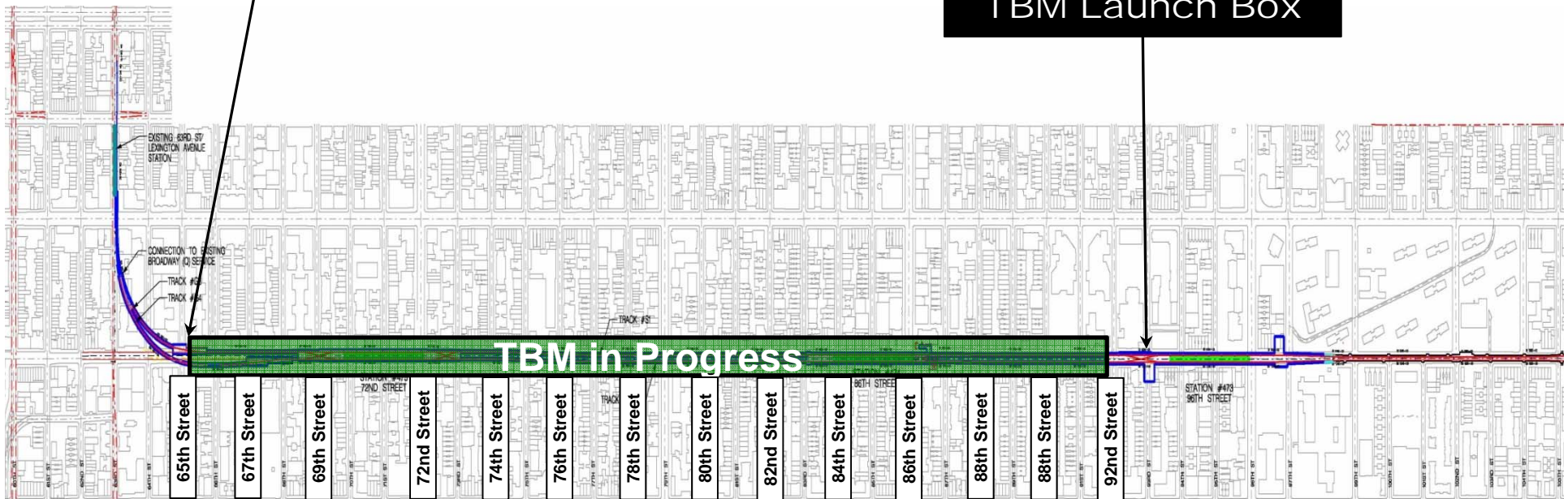


# TBM Tunneling and Launch Box (Contract 1 Scope)



TBM West Bore Completed  
As of February 5, 2011

TBM Launch Box



The West TBM ended its run just south of 65th St at 2nd Ave.  
The first TBM run (West) does not connect to the existing 63rd St station. That will be accomplished by East TBM run which will start later this spring.



# CONSTRUCTION PROGRESS – CONVEYOR SYSTEM FOR MUCK REMOVAL (92nd – 93rd St.)





CONSTRUCTION PROGRESS – West Tunnel Entrance





CONSTRUCTION PROGRESS – Ground Freezing Operation (92nd -91st St)





# CONSTRUCTION PROGRESS – Ground Freezing Plant (92nd St.)



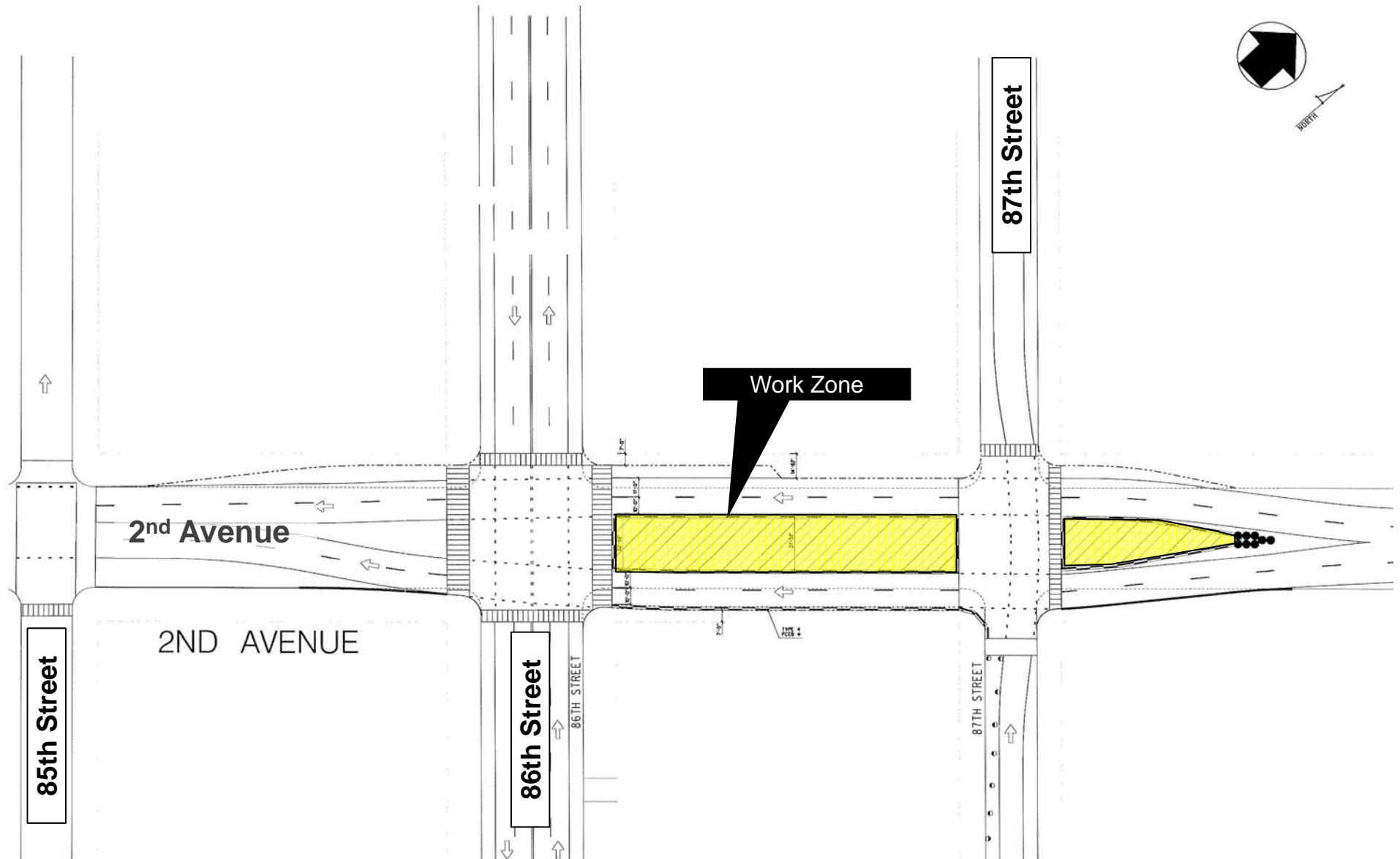


## CONSTRUCTION LOOK AHEAD FOR TUNNEL AREA – for next 3 months

### **Major Operations in the next three months:**

- **No Change in surface operations**
- **Disassemble TBM**
- **Move TBM back to Launch Box**
- **Reassemble TBM and move to East side**
- **Start East TBM early Spring**

# 86th St. Station Utilities Relocation & Access Shaft Work (Contract 5A)



CONSTRUCTION PROGRESS – Center Work Zone between 88th-87th St.





CONSTRUCTION PROGRESS – Utility relocation work between 84th St-83rd St.



## CONSTRUCTION LOOK AHEAD FOR 86<sup>TH</sup> STREET STATION AREA – for next 3 months

### Major Operations in the next three months:

- **82nd to 84th St West side work zone to excavate the shaft**
- **86th to 88th St West side work zone for electrical & gas work**
- **Switch 86th to 88th St to East side work zone for shaft excavation**

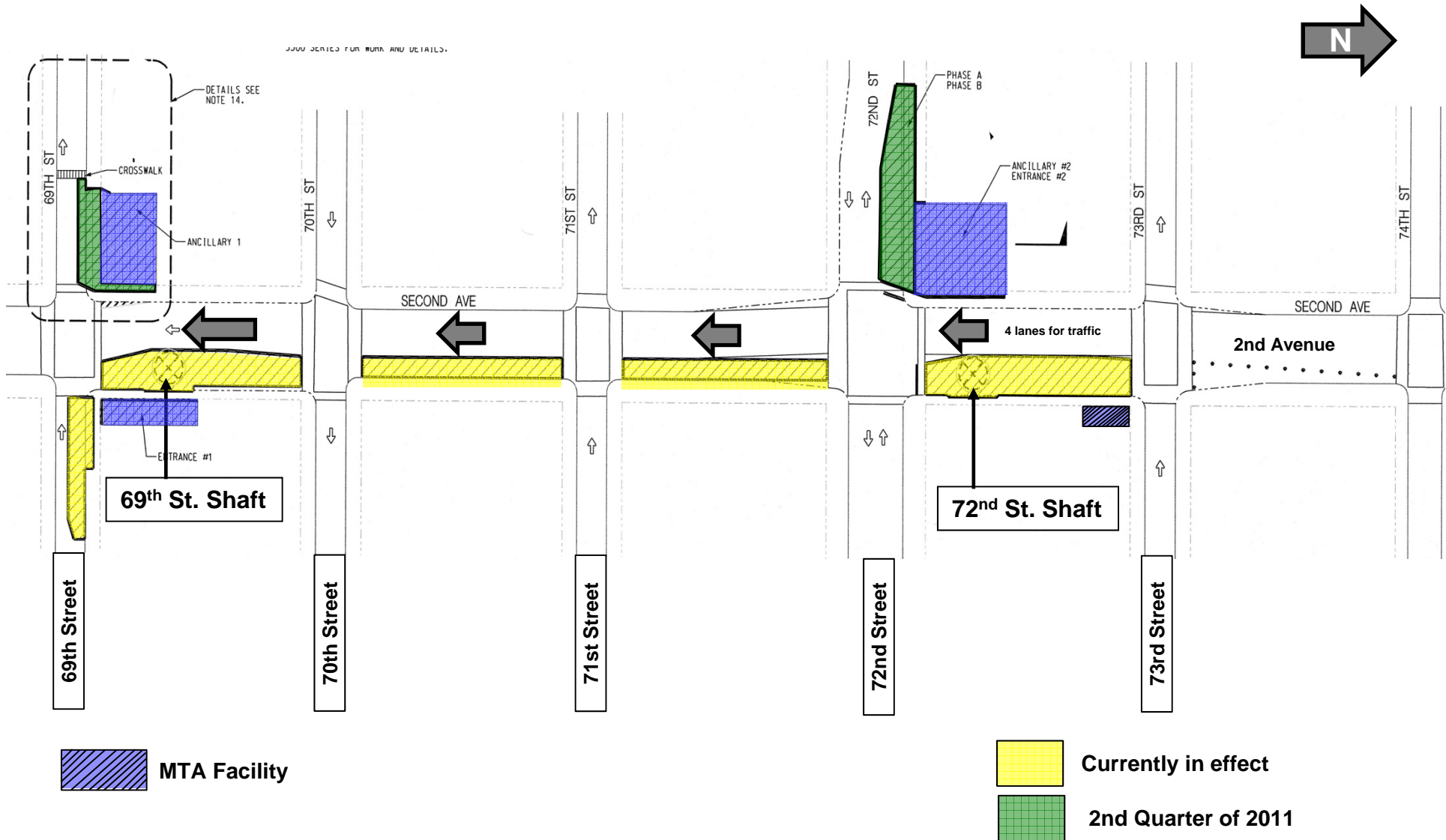


# 86TH STREET STATION EXCAVATION AND SUPPORT



- ***Bid Opened on February 4th, 2011***
- ***Award: Currently Scheduled for Late March/Early April 2011***

# 72ND STREET WORK ZONE: CONSTRUCTION PLAN





# CONSTRUCTION PROGRESS – 72nd St. Shaft Work Zone





# CONSTRUCTION PROGRESS – 70th St. Work Zone

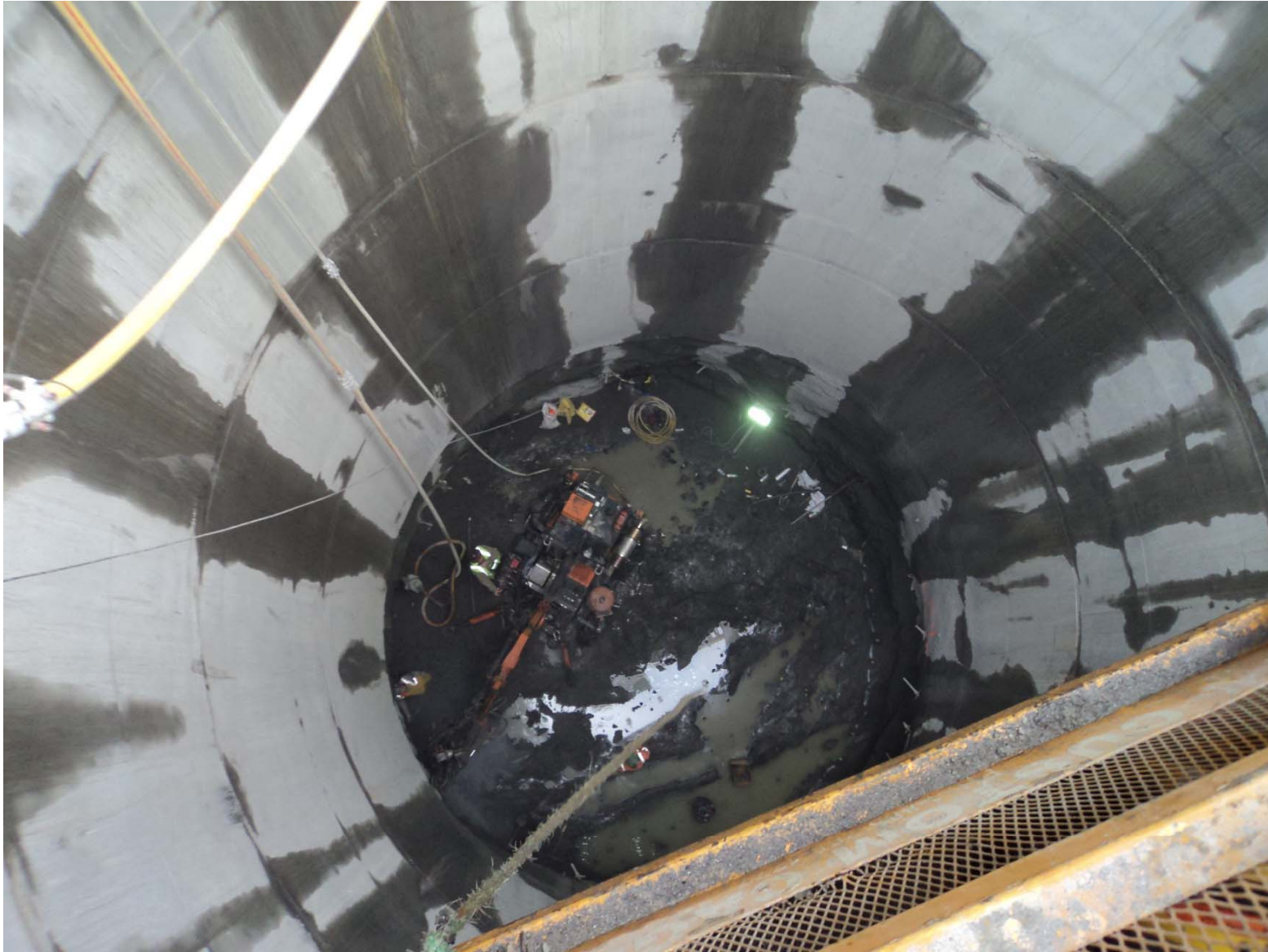




# CONSTRUCTION PROGRESS – 69th St. Shaft



# CONSTRUCTION PROGRESS - 69th St. Shaft





## Controlled Rock Blasting and Removal

- **The safety of the public and our workers is the MTA's top priority.**
- **Controlled Blasting Plans have been designed by a Specialty Blasting Consulting Expert.**
- **The Blasting Plans have been approved by FDNY Explosives Unit.**
- **All blasting work is being monitored by FDNY Explosives Unit.**

## Controlled Rock Blasting and Removal

- **Buildings adjacent to the blasting area are being inspected before this work begins by an independent engineer and specialty consultant with experience in old brick masonry.**
- **Blasting Vibration Monitoring Equipment has been installed in buildings within the blasting area.**
- **The allowable vibrations caused by controlled blasting have been set at levels that are lower than the standard for similar building types.**



## CONSTRUCTION LOOK AHEAD FOR 72<sup>ND</sup> STREET STATION AREA – for next 3 months

### Major Operations in the next three months:

- **Ancillary 2 (72nd St) demolition**
- **Continue blasting at 69th St & 72nd St shafts**
- **Begin installation of Rock Removal System**

Rehabilitation of Existing Lexington Ave/63rd St. Station (Contract 3)

*Contractor Name: JUDLAU CONTRACTING, INC*



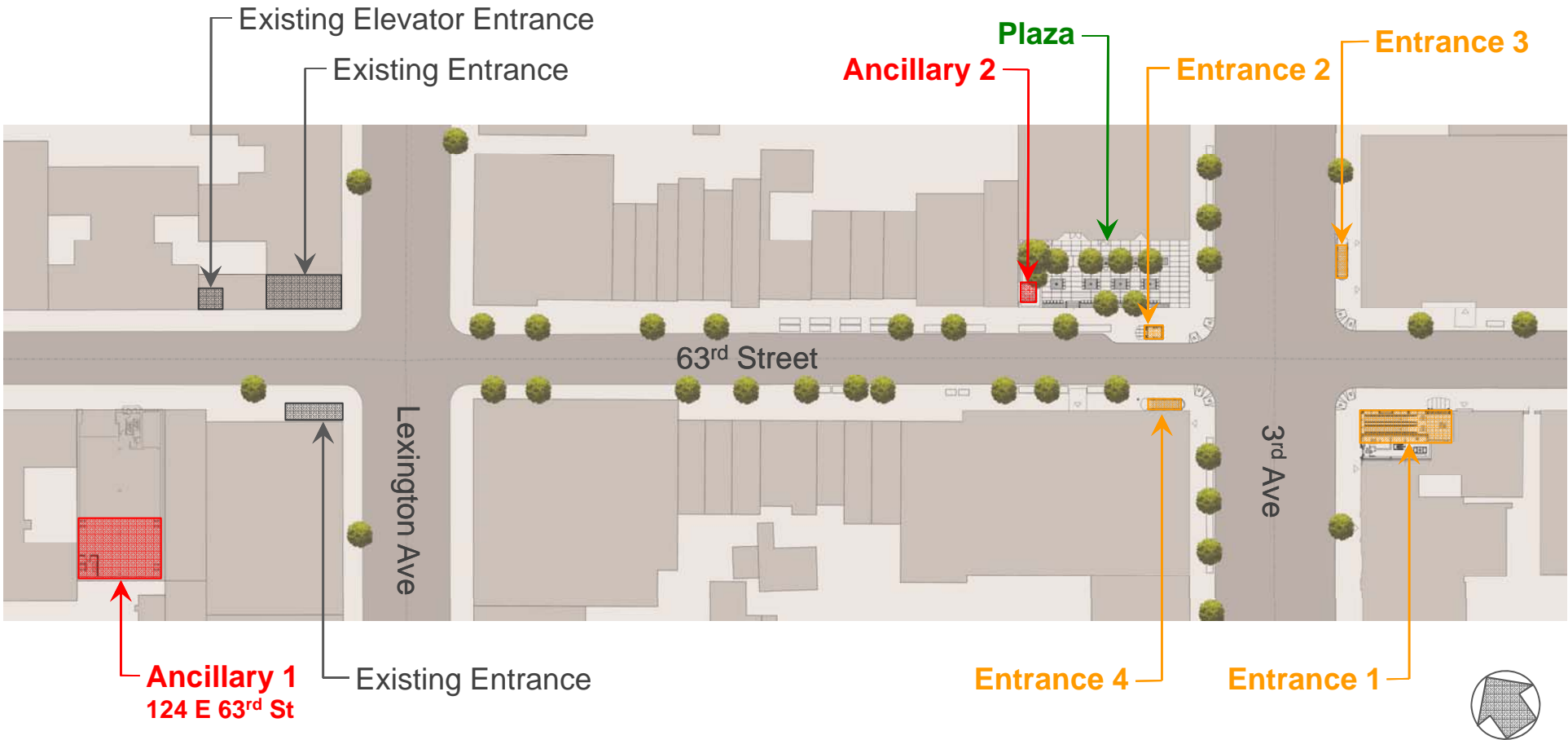
*Contract Value: \$176,450,000*

*Award Date: January 13, 2011*

*Contract Duration: 40 Months*



# Rehabilitation of Existing Lexington Ave/63rd St. Station (Contract 3)

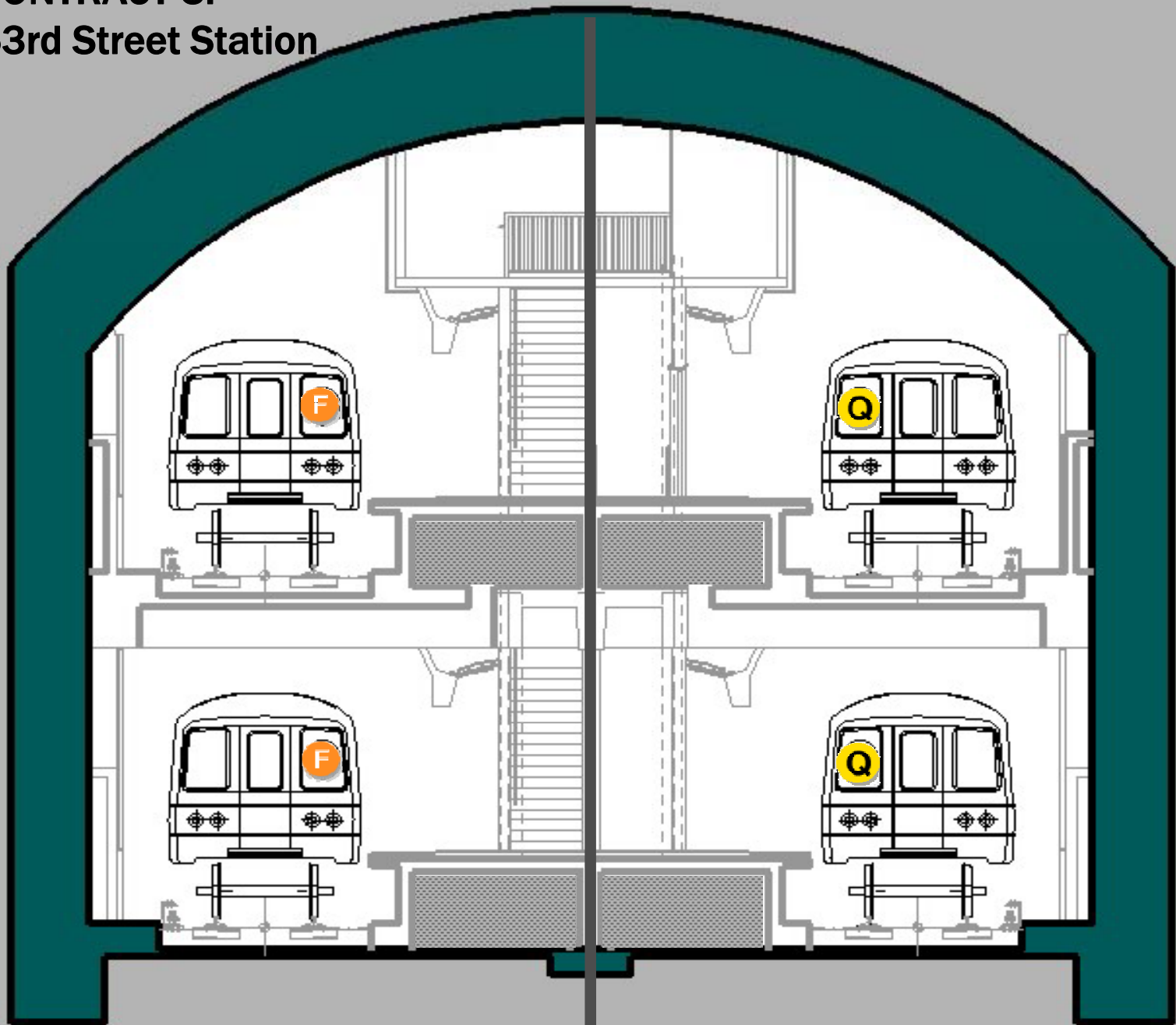


# Lexington Avenue 63rd Street Station – Scope of Work





**CONTRACT 3:  
63rd Street Station**



## CONSTRUCTION LOOK AHEAD 63<sup>RD</sup> STREET STATION AREA – for next 3 months

### Major Operations in the next three months:

- **Install geotechnical instrumentation**
- **Pre-construction survey**
- **Staging area setup at Plaza**
- **Set up of Maintenance and Protection of Traffic (MPT)**



## Site Improvements

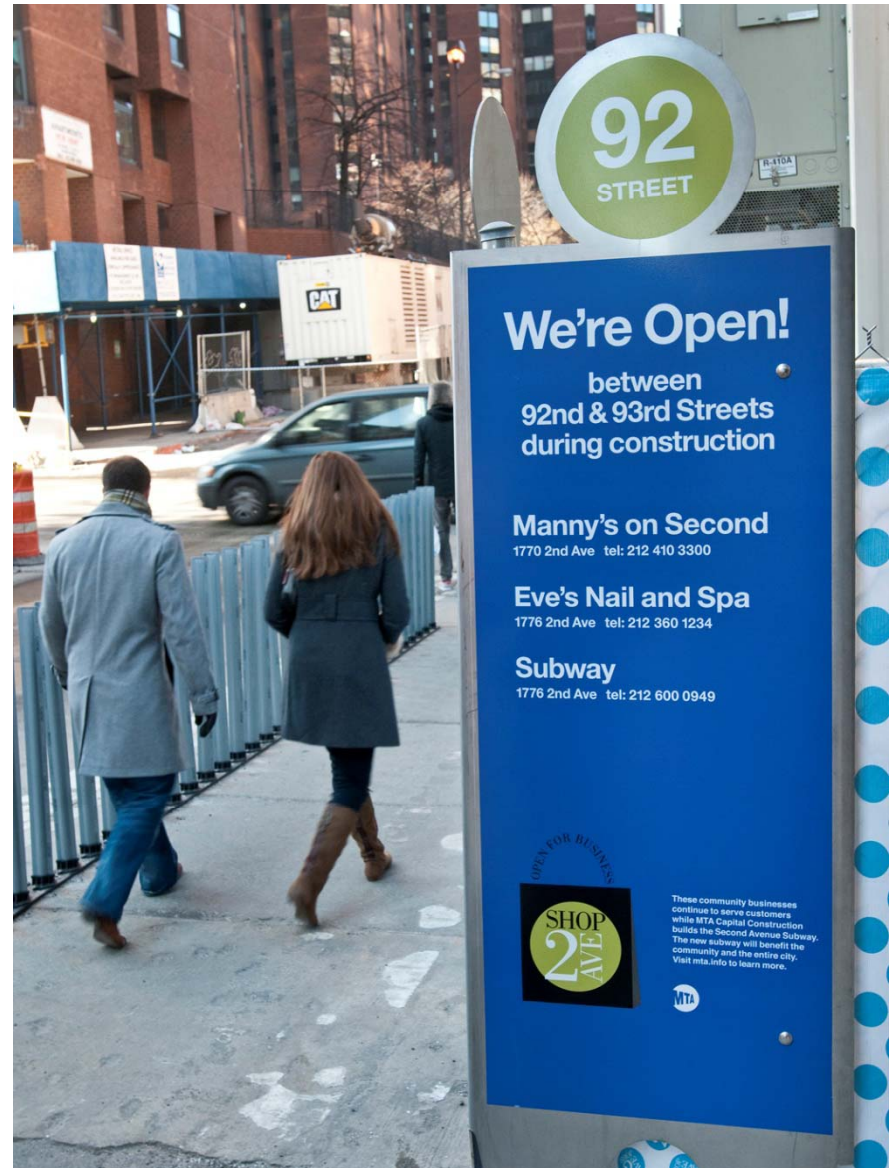
To improve the pedestrian experience and conditions for local businesses, we are implementing the following enhancements:

- ***Way finding signage for stores***
- ***Replacement of bent/worn fencing***
- ***Signage that advertises small businesses on the street side barriers***
- ***Improved crosswalks***

First block to receive these treatments:

- ***Second Avenue between 92nd and 93rd Streets***

# Site Improvements





## 72nd St. Ancillary Façade Color

Number of façade color comments received: 27 Comments



16

7

4

- PRIVACY SCREENS: Few comments received, none in favor of their use.