Empire State Development

**ATLANTIC YARDS CONSTRUCTION UPDATE**
**Weeks of August 29 through September 11**

In an effort to keep the Atlantic Yards Community aware of upcoming construction activities, ESD and Forest City Ratner provide the following outline of anticipated upcoming construction activities. We hope it keeps you informed and helps you plan for any possible inconveniences. Please let us know if there's any way we can improve these updates.

If you have any questions please feel free to contact ESD's Project Director at 212-803-3766 or AtlanticYards@empire.state.ny.us

*Please note: the scope and nature of activities are subject to change based upon field conditions. In addition, during the utility work water shut-offs may be required; these shut downs are done under the oversight of DEP and property owners will be given advance notice. All work has been approved by appropriate City and State agencies where required.*

**Construction at the Arena Site Progresses as Scheduled**

Deliveries & Site Access

- Hunt has demobilized the access ramp at Dean Street and Flatbush Avenue. This gate will no longer accept primary deliveries. The main gate and delivery ramp is now and will remain for the future at Pacific Street and 6th Avenue. The access route to the Pacific gate remains posted at the site and is the same as it has been throughout the project. Access is also available via the Atlantic Avenue gates at the Fort Greene intersection, midway between the Ft. Greene and 6th Avenue intersection and at the 6th Avenue intersection.

- Steel deliveries and steel erection will continue throughout this reporting period.

- The erection / installation of a material hoist near the intersection of Ft. Greene & Atlantic Avenue is complete. The hoist is operable. A material hoist only is also operable from the Main Concourse to the Event Level in the future practice court area.

- Preparation for the erection/installation of a material hoist at the intersection of 6th Avenue and Pacific Street has been revised and is now projected to commence sometime in September.

Rodent Control Measures Taken

- Hunt and FCRC continue to review and implement actions to supplement the site and adjacent neighborhood's rodent protection activities. Hunt has more than 225 rodent bait stations within the arena work site and Block 1129 that are being monitored and maintained.

Environmental Remediation

- The final groundwater injection performance monitoring sample round has been completed at Block 1127 Lot 1. All work was completed under jurisdiction of the DEC.

Excavation

- Excavation for the footings will continue within the footprint of the arena during this reporting period.

Foundation & Perimeter Walls

- SOE removal along Atlantic is complete. SOE removal upon Flatbush Avenue (whaler elements and bracing no longer required due to backfill placement) will continue during this reporting period.

- Installation of footings and knee walls continues in the Area "C", southeast quadrant of the site.

Steel Erection

- The maintenance of the site to accommodate steel erection will continue during this period. Steel erection will continue near the intersection of Dean Street & Flatbush Avenue as well as along the 6th Avenue and Dean Street elevations throughout this reporting period.

- Primary roof steel erection will continue during this reporting period.

- The façade erector will continue the installation of erection clips on the Atlantic Avenue and Flatbush Avenue elevations during this reporting period.

Façade Installation

- The installation of façade panels at the street level and at the Upper Concourse levels on Atlantic Avenue will continue this reporting period.

Waterproofing & Fireproofing

- Waterproofing and backfilling along the outside of the arena Atlantic Avenue foundation wall is complete. Backfill on the 6th Avenue elevation from 6th Avenue and Atlantic will continue during this reporting period.

- Backfill outside the Arena footprint on the Flatbush Avenue elevation will continue through this reporting period.

- The application of waterproofing to the foundation walls from 6th Avenue at Pacific Street starting north and south will continue during this reporting period, as weather allows. Backfilling at these locations will follow the waterproofing and is expected to continue during this reporting period.

- The spray fireproofing will continue throughout this reporting period. The contractor performing this work will use temporary electric to power their equipment.

Mechanical, Electrical, & Plumbing

- Layout/installation related to the underground plumbing will continue within the arena footprint. Underground plumbing will continue within the arena footprint including in controlled access zones beneath the structural steel erection as needed this period.

- Underground electrical installation will continue as needed during this reporting period. This work is taking place within the entire arena footprint where the concrete foundations and footings are being poured and beneath the structural steel erection within controlled access zones.

- The piping for the storm/sanitary/and water services to the arena at 6th & Pacific as well as Dean & Flatbush is expected to continue during this and the next reporting period. The tie-ins for this piping will require work in the street, which has not yet commenced. A second and/or third shift is being considered to execute this work.

- Mechanical, electrical, plumbing and fire protection rough-in work will continue through this reporting period at the Event, Main, Concourse, Lower and Upper Suite Levels.

Interior Build-out

- The masonry contractor will continue working at all levels during this reporting period.

- Precast concrete stadia erection will continue during this reporting period.

- The placement of concrete on metal deck (SOD) will continue during this reporting period. Lathing (rebar placement) work will continue on the superstructure decks prior to concrete placement in this period.

- The drywall framing & construction subcontractor (GWB) will continue layout of walls during this reporting period and has started placement of the top wall track at the suite levels. Steel stud placement for partition walls will continue during this reporting period.

- The placement of slab on grade (SOG) concrete will continue within the arena site at the event level during this reporting period.

**New Subway Entrance Moves Forward**

Vibration Monitoring

- Vibration and Tilt sensors have been installed and are being monitored per NYCT requirements.

Demolition

- Work has now progressed at the tip and the demolition phase has now been substantially completed.

Rodent Control Plan

- Civetta has had a rodent control plan in place since September 2010 which includes above and below ground baiting.

Work outside the Fence

- Permits have been secured for the portions of the street immediately adjacent to the "Tip" of the project area. Concrete plank/decking in the roadway (at the corner of Flatbush and Atlantic) is now complete. This work is being done to allow the Fare Control Area excavation, demolition and roof steel installation to continue below the street. Traffic will be restored every morning according to DOT stipulations. Barricades have now been installed at the southern end of the IRT platforms as approved by NYCT.

- Work at the southern vent shafts along Flatbush Avenue is substantially complete and mobilization into the northern vent work area has commenced.

Concrete

- The new roof has now been poured. Form work is being removed in this area. Construction of the staircase is underway. Concrete formwork will commence once the steel at the IRT ramps is completed below grade.

Steel Erection

- Steel installation at the lower levels of the BMT mezzanine continues. Steel erection continues in this area as well as over the new entrance to the BMT connection. Foundation walls are now in progress and the roof construction will take place upon completion of the walls at the tip of the site. Due to site logistics, portions of this work may take place at night behind approved MPT and traffic will be restored every morning according to DOT stipulations.

Waterproofing

Waterproofing behind the foundation walls is now substantially complete.

Erection of Interior Walls

- Walls to tie to the existing structure will then follow at the tip as the construction progresses.

Mechanical, Electrical & Plumbing

- Minor mechanical, electrical and plumbing work within the subway station below ground is underway to accommodate new station configuration.

Track Outages (General Orders)

- IRT and BMT Tunnel inspections have taken place and repair work will be implemented during scheduled NYCT track outages during evenings and weekends. An IRT evening GO, which will be performed under flagging, is scheduled for September 6, 7, and 8th in the evenings to perform steel repair work at the northern vents. The next BMT GO's will take place during the weekends of September 24th, October 15th and November 26th. Minor repair and cleanup work will occur on selective evenings under scheduled NYCT flagging protection.

- control plan in place since September 2010 which includes above and below ground baiting.

**What's Happening in the Rail Yard**

Deliveries

- Posillico/Tully will continue to receive deliveries of material for lagging, tie back and mini-pile pipe for the car shop during this reporting period.

Rodent Control Measures Taken

- McKissack has implemented an ongoing rodent control plan that will be monitored weekly. There are over 166 bait stations laid in this area and on Block 1129.

Excavation & Soil Characterization

General Excavation and soil removal work will continue during the reporting period and for several more months.

Drilling – Support of Excavation, & Tiebacks,

- Drilling of tiebacks will continue in various areas of the yard (BL1120 and BL1121). These tiebacks are drilled by small rigs, and are required at several elevations as excavation and lagging continue to the final depth of the yard sub-grade. Tieback drilling and placement of the attendant wood lagging will continue for several months, as they go together with excavation. Posillico/Tully has completed the preparatory work for the drilling of the car shop mini piles. Drilling of the test pile has been completed. The pile has been tested and passed. Production drilling has started in the car shop and with the low head room drill rig and will continue for the next several weeks. Due to the need to expedite this work for structural support and stability this work item is being progressed on a double shift. The second shift will run from 3 PM to 11 PM weekdays.

- Posillico/Tully will start to excavate, sheet and shore the area on the west end of Block 1120 for the installation of the site drainage pumping chamber.

Carlton Ave Bridge

- New MPT has been put in place for the south abutment soil excavation from Pacific Street, and excavation has begun. This work will continue during this reporting period, and will be followed by forming and pouring the foundation for the South Abutment.

  Posillico/Tully will install a test pile and perform a load test for the north abutment during this reporting period. Once this test pile is installed and passes the load test, Posillico/Tully will start the installation of the mini-piles required to be installed to support the new north abutment.

- EJ Electric will be on site to relocate the existing 2" feeder for the site lighting located in the south yard area. This work is being done to free up the area adjacent to the East portal for excavation work.

**Replacement of Adjacent Water Mains and other Utility Work**

- On behalf of the DEP, FCRC is managing the installation of new water trunk main and associated distribution mains on Flatbush and Atlantic Avenues. The work is divided into three stages.

    - Stage One is the work on the west side of Flatbush, north of the Atlantic intersection, continuing across Flatbush to the edge of the transit improvements on the arena block. This is called Stage One because the design of this section was critical to the remaining two stages. The actual installation will follow Stage Two.
    - Stage Two is the work along the south side of Atlantic Ave from a location just west of the former 5th Avenue bed, running eastward to a location west of the 6th Avenue intersection.
    - Stage Three is the area between Stages One and Two, across Flatbush Avenue and the top of the future new transit station improvements.

  The installation of the new trunk water main in Stage Two on the south side of Atlantic Avenue east of the Fort Green intersection is complete, cleaned, pressurized, inspected and chlorinated.
- Stage one began in early August. The first work will include the installation of a distribution water main along the sidewalk of Flatbush, north of Atlantic. The work will be done at night (10 pm to 6 am) and will require partial closure of the sidewalk and the curb lane of traffic during the work hours. The work will take two to three months in this location and then will move on southward and cross Flatbush. The bus stop at the west side of Flatbush, north of Pacific, will be removed by NYC DOT, per the approval of NYCTA. Work this period will include the excavation of trenches for the water main. Trenches will be plated over every morning and sidewalks and travel lanes will be re-opened. The water main installation may begin at the end of the upcoming two week period or immediately after.

- Over the next several weeks the Contractor will be installing three taps into the waters and sewer mains on Flatbush Avenue and Dean Streets. Work will take approximately 1 to 1 ½ weeks each. Work will take place either behind MPT or at night (10 pm to 6 am) depending on the location of the main. The excavation work at Dean Street requires the temporary removal of approximately 40' to 60' of the 16 foot fence on Dean Street. A temporary 8' tall barrier consisting of plywood on Jersey barrier will be installed to replace the 16' fence and to serve as the construction fence during the work. The contractor will move the barrier out of the way when trenching occurs in the immediate area and will plate over and replace the barrier on a daily basis.

- During the course of utility installation work, the contractor may encounter unforeseen contaminants, underground storage tanks or other structures. In the event that this happens and where appropriate, notification will be given to the DEC, VOC monitoring will be continuously performed, and remediation steps will be implemented.

**Block 1129 (Carlton, Dean, Vanderbilt, Pacific) – Construction Staging**

- FCRC and Hunt have activated a delivery dispatch center here to dispatch all delivery trailers and trucks to the arena site in order to further minimize impacts to the local traffic and pedestrian patterns. This dispatch center will remain in operation during this reporting period.

- Work related to the fit-out of Block 1129 (related to staging) continues. Work entails the installation of water, sewer and electric service to the new location of the LIRR Maintenance of Equipment department trailers. These trailers are located on the east end of this block at Vanderbilt Avenue and Pacific Street.

- The placement of additional geo-textile fabric and stone on Block 1129 to assist with dust control and maintenance of streets will continue as needed during this reporting period. Precast concrete risers, tubs and vomitory wall deliveries to the lay down area east of 752 Pacific Street will continue this period. Façade panel delivery and staging is being added to the materials temporarily stored in Block 1129 this reporting period.

- Occupancy/Use of the lay down area due south of the 752 Pacific Street office will continue during this period. Excavation materials from the Dean Street ramp are being temporarily stored in this lot and are expected to remain for the duration of this reporting period. The only remaining material within the area is concrete debris, to be disposed of during this reporting period.

Demolition

Demolition of 603 Dean has been completed and debris is being sorted for recycling; the demolition fence that took up part of the Dean Street site has been pulled back. Work has been completed at 754 Pacific, a one-story addition on the east side of 752 Pacific. The remainder of this structure will be removed with the lower floors of 768 Pacific. 768 Pacific is under hand demolition. Mechanical demolition will commence once the top levels and front section have been removed to an extent that will permit machines to remove the remainder. The extent of the hand and mechanical demolition has been approved by the DOB and BEST.

**Environmental Remediation**

- Soil that has been classified as clean, contaminated or hazardous will be removed from the site as part of the excavation activities and brought to appropriate disposal locations.

- Excavation, cleaning and final removal of four gasoline Underground Storage Tanks (USTs) and associated piping at Block 1121 Lot 42 has been completed. These USTs were previously temporarily closed in place in accordance with New York City Fire Department and DEC requirements. All removal and disposal operations were completed in accordance with FDNY and DEC regulations.

- Where excavation and soil moving activities occur in areas of known Volatile Organic Compounds (VOC's) (BL 1119, lot 1 & 64, BL 1118, lot 1 and BL 1127, lot 1) VOC monitoring will be performed as required in the Community Air Monitoring Plan ("CAMP") and VOC Best Monitoring Practices documents.

- CAMP monitoring is continuing on all areas of soil disturbance per the project plan, including excavation, grading and demolition.

- VOC monitoring as required by the CAMP continues.

- During the course of the excavation work, the contractor may encounter unforeseen contaminants, underground storage tanks or other structures. In the event that this happens and where appropriate,

notification will be given to DEC, VOC monitoring will be continuously performed while excavating these materials and remediation steps will be implemented.

- Former fuel oil above ground storage tanks (ASTs) located at 752 Pacific may be removed during this reporting period pending demolition of the one story building. These ASTs are empty and have been cleaned in accordance with FDNY and DEC regulations. The ASTs will be removed and disposed in accordance with applicable FDNY and DEC regulations under direction and oversight of a licensed tank removal contractor.

**Maintenance & Protection of Traffic (MPTs) For Your Safety**

- An MPT continues to be in place along the southern side of Atlantic Avenue between Flatbush & 6th Avenue, and along the eastern side of Flatbush from Atlantic to Dean Street.

- MPT is in place on the southern side of Atlantic between Carlton & Vanderbilt Avenues. Posillico/ Tully have started the drilling of the car shop piles in the rail yard. Openings have been core-drilled in the sidewalk. This work will take approximately 2 months. All DOT permits are in place.

- New MPT has been put in place for the Carlton Avenue Bridge south abutment soil excavation from Pacific Street. The exact location is in the intersection of Carlton Avenue & Pacific Street. This is not having an impact on the traffic flow at this intersection.

**Traffic Mitigation Site Work**

The FEIS requires the construction of certain roadway, sidewalk and traffic signal improvements prior to arena opening to mitigate traffic projected in the area. Work will be divided into two seasons – summer/fall 2011 and spring/summer 2012. The details of the work have been reviewed with City agencies, Community Boards and the general public.

The first element of the 2011 work includes the installation of curb extensions at the Pacific/4th Avenue, Dean/Flatbush and Pacific/Flatbush intersections and the reversal of traffic from westbound to eastbound on Pacific between 4th and Flatbush Avenues. Permits for this work have been secured and work has commenced.

- The northbound lanes of 4th Avenue were closed at Atlantic Avenue on July 31, 2011 with temporary MPT (see details below). During the next two-week period curb extensions, lights, signals, signs and pavement striping will be installed to achieve the closure of the northbound traffic on 4th Avenue, north of Atlantic Avenue. This phase of the work is expected to take approximately 4 to 6 weeks. The MPT will be modified several times during the course of the work to maintain safe pedestrian passage across the intersection. The details of the MPT have been reviewed by the DOT. The work was put on hold for two weeks while the engineer and DEP developed a modification to the water valve and hydrant. That design has been approved and work will resume during this reporting period.

- At the Pacific and Flatbush curb extension, concrete paving was installed as far as possible outside the sidewalk bridge in front of 604 Pacific Street. The final sidewalk paving under the sidewalk bridge cannot be completed until the private owner makes repairs to his building and remove the protection. This phase of work is expected to be completed by the end of August.

- The curb extension on Dean Street, west of Flatbush is expected to be constructed before the end of August. The contractor may choose to perform this work during the daytime work hours behind MPT which has been approved by the DOT.

- At the Pacific Street & 4th Avenue intersection, test pits revealed numerous private utility interferences including Con Ed and NYCTA cable. The engineer recommended a modification to the curb profile. DEP has approved the modification. It is currently being reviewed by DOT; work will resume once DOT approval is received.

- Details of the Fourth Avenue lane closures:

  - Fourth Avenue (between Atlantic & Flatbush Avenues only) has been converted to one-way southbound to improve traffic flow at the Flatbush Avenue/Atlantic Avenue/Fourth Avenue intersection.

  - Fourth Avenue northbound traffic, including all commercial vehicles, can use Third Avenue via Atlantic Avenue to access Flatbush Avenue. Pacific Street will offer secondary access to Flatbush Avenue. No through truck traffic will be permitted on Pacific Street.

  - Project traffic consultants and the NYCDOT have been closely monitoring traffic flows and making improvements to signal timings when necessary.

Work being performed as part of the Traffic Mitigation site work (including Times Plaza at the intersection of 4th/Flatbush/Atlantic, the Pacific/Flatbush intersection and the Dean /Flatbush intersection) is being conducted at night until such time that approved long-term MPT barriers have been set up. All nighttime work will be concluded by 6 AM so that related temporary MPT can be removed for the morning rush hour. All long-term MPT will have DOT approval and permits and will be removed when work in the area is completed.

**Please Be Advised of Anticipated Nighttime & Weekend Work**

During this reporting period the following work will be performed either at night or during the weekend as noted. All work will be done pursuant to approved permits:

- Long Island Rail Road/Vanderbilt Yard/ Carlton Avenue Bridge:
  - As of May 2nd, yard construction hours are 6am – 4:30pm.

  - In addition, as of Saturday May 7, 2011, construction work will take place on Saturdays during the hours of 7am – 5:30pm for a period of at least three months. Saturday work is expected to continue for this reporting period.

- Arena Site:
  - Arena weekend work will be scheduled no later than close of business on the preceding Thursday, where make-up work due to weather or other delays makes it necessary. Saturday work is expected to continue for this reporting period.

  - Subject to receipt of permits, a second shift may be continued throughout this reporting period, from 3 – 11 PM, Monday-Friday only. Also subject to receipt of permits, a third shift may be instituted during this reporting period, from 11 PM – 7 AM, Monday –Friday only.

- Hunt has requested a permit to allow for deliveries from 6 AM to 7 AM to the Arena site from the dispatch center. This work allows for an additional hour of deliveries to take place outside the neighborhood peak traffic patterns and reduce congestion and interference with the local traffic. The permit response is expected to be received this period. If granted, the intention is to continue to permit deliveries during this timeframe through to completion of the Arena.

- The Developer has been requested to advise ESDC and STV of what contractors will be working over the weekend and what they will be working on.

- NYC Transit Improvements:
  - Temporary concrete road decking is substantially complete, however, in the event there is a need to do any related work, such work will be performed at night per DOT regulations. Traffic will be restored every morning according to DOT stipulations.

  - Work related to of the BMT structure and below grade concrete, steel and MEP work may be conducted on Saturdays, September 3rd and September 10$^{Th}$, during this reporting period. This will be in conjunction with the IRT Flagging GO scheduled for September 6, 7, 8 and 9th steel repair work at the northern vents. All such work will take place within the site and subway tunnel.

- Demolition:
  - 603 Dean Street has been demolished and debris is being sorted for recycling
  - 754 Pacific – one story addition – the roof is demo$^{li}$shed. The remainder of the building will be removed along with the lower floors of 768 Pacific.
  - 768 Pacific is under hand demolition. Mechanical demolition will commence once the top levels and front section have been removed to an extent that will permit machines to remove the remainder. The extent of the hand and mechanical demolition has been approved by the DOB and BEST.

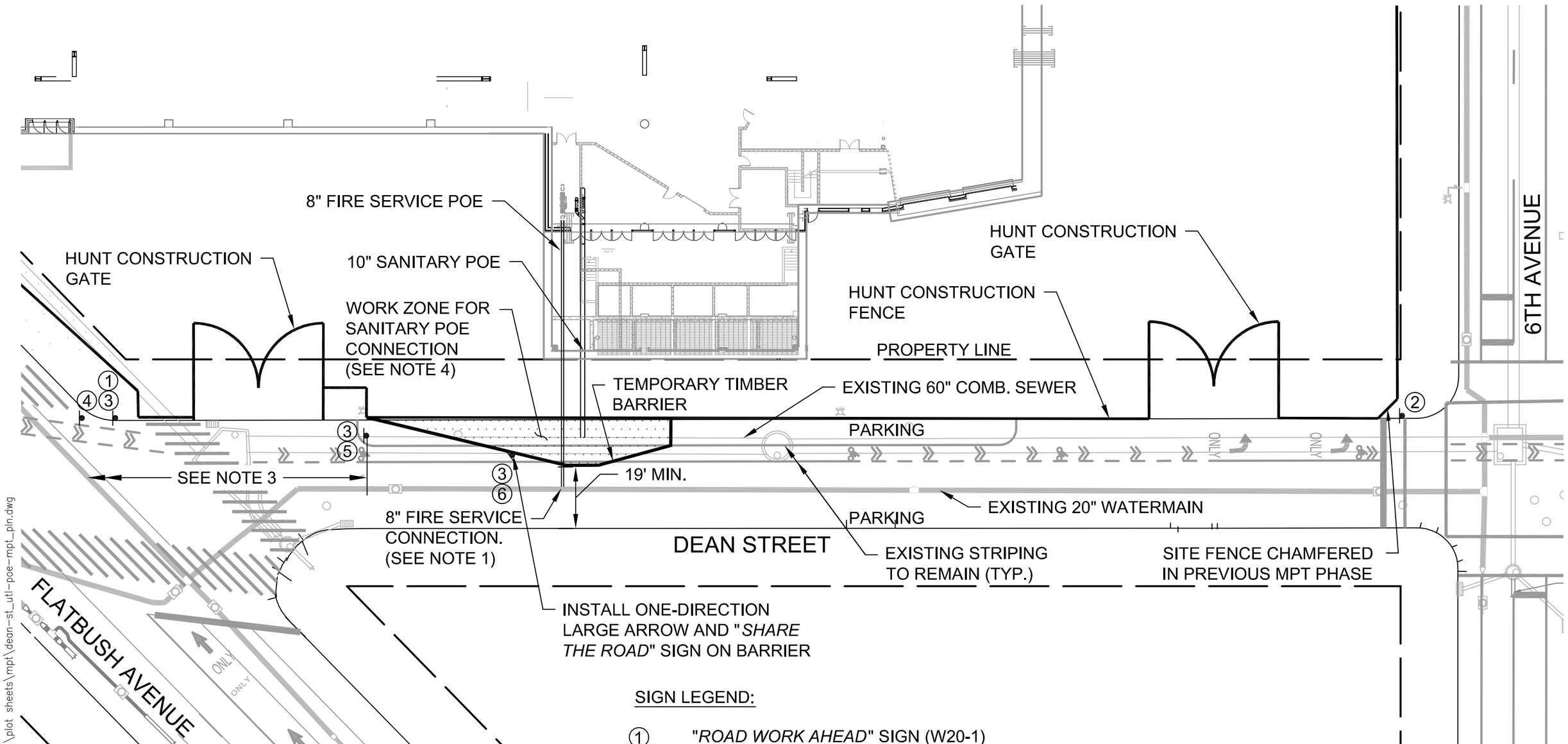
- Block 1129 – staging area:
  - Contractors conducting night work may have cause to enter and exit this area as it serves as a staging and material/equipment storage area.

- Off-Site Mitigation work:
  - Work taking place at Pacific/Flatbush and 4th/Pacific will be done during the overnight pursuant to DOT permits. Work will be concluded by 6 AM so that related MPT is removed for the morning rush hour

During the course of work, conditions may be encountered at the site which may warrant the need for night and/or weekend work. Work will be done pursuant to approved permits.

**How to Reach Our Community Liaison Office (CLO)**

Persons seeking access should do so from Carlton Avenue. Both the CLO phone line (866-923-5315) and email (communityliaison@atlanticyards.com) are operational and community residents are encouraged to use both when making inquiries about the project.




SIGN LEGEND:

1. "*ROAD WORK AHEAD*" SIGN (W20-1)
2. "*END ROAD WORK*" SIGN (G20-2)
3. ONE-DIRECTION LARGE ARROW SIGN (W1-6R)
4. "*CONSTRUCTION IN BIKE LANE AHEAD PROCEED WITH CAUTION*" SIGN (SC-85)
5. "*CONSTRUCTION IN BIKE LANE PROCEED WITH CAUTION*" SIGN (SC-84)
6. "*SHARE THE ROAD*" SIGN (SW-675)

NOTES:

1. 8" FIRE SERVICE CONNECTION SHALL BE INSTALLED AT NIGHT. PLATE UTILITY TRENCH DURING DAYTIME HOURS UNTIL COMPLETION.
2. TEMPORY TRAFFIC CONTROL SIGNS TO BE BLACK ON ORAGE SIGN COLOR
3. INSTALL "*CONSTRUCTION IN BIKE LANE AHEAD PROCEED WITH CAUTION*" SIGNS 350' AND 200' PRIOR TO WORK ZONE ON DEAN STREET SIDEWALK BETWEEN 5TH AND FLATBUSH AVE.
4. CONTRACTOR TO RE-STRIPE BIKE LANE AND PARKING LANE AS REQUIRED FROM WORK ZONE DISTURBANCE.

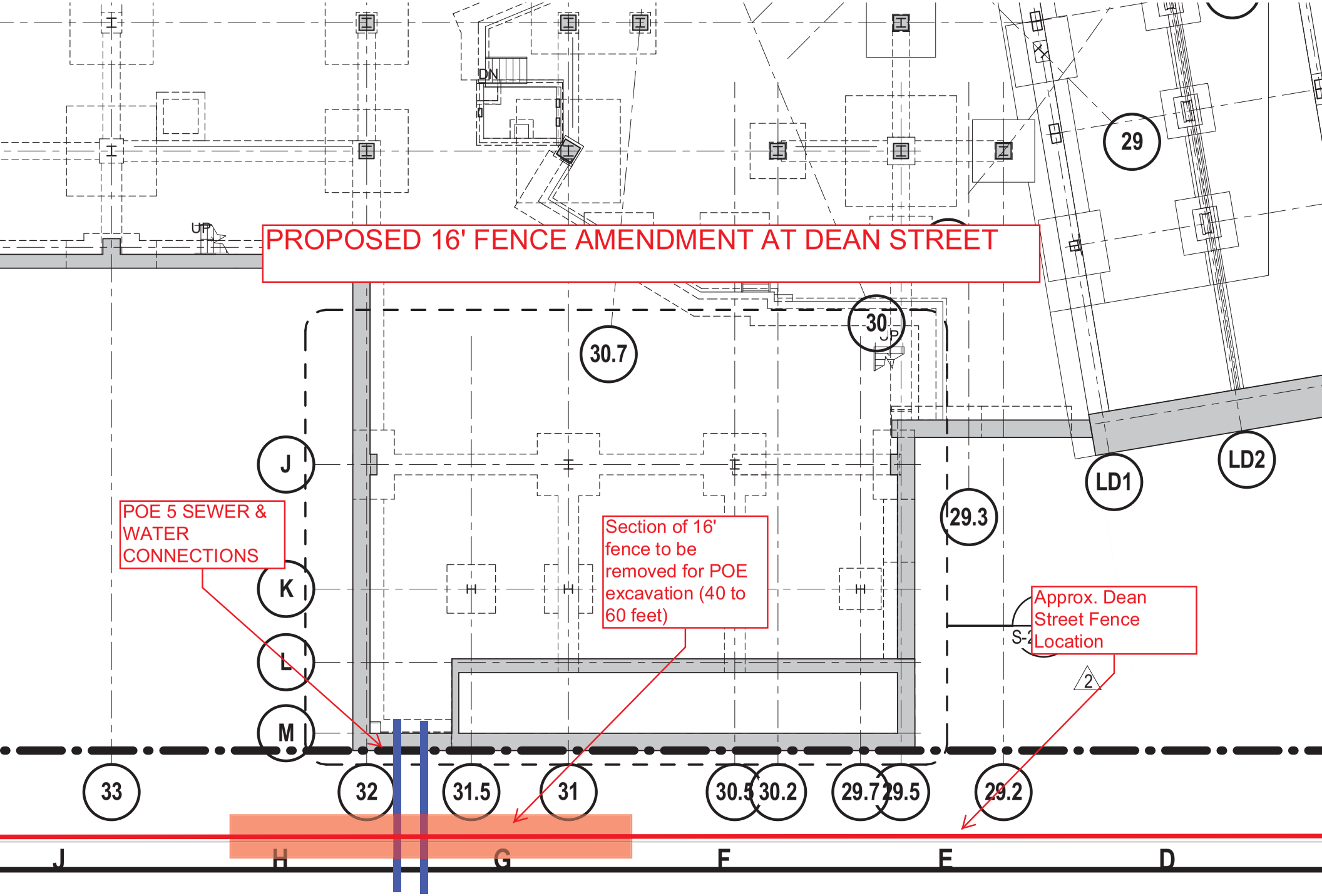
# DEAN STREET POE CONNECTION MPT PLAN

SCALE: 1"=10'

DATE: 07-25-2011

Stantec
50 WEST 23RD STREET
NEW YORK, NY 10010-5205
TEL. 212-366-5600
FAX 212-366-5629

FILE NAME = N:\2009 ARENA REVIVAL\cadd\plot sheets\mpt\dean-st_util-poe-mpt_pln.dwg
DATE/TIME = Jul 25, 2011 - 11:42am


PROPOSED 16' FENCE AMENDMENT AT DEAN STREET
POE 5 SEWER & WATER CONNECTIONS
Section of 16' fence to be removed for POE excavation (40 to 60 feet)
Approx. Dean Street Fence Location
DN
UP
JP
29
30
30.7
29.3
LD1
LD2
J
K
L
M
33
32
31.5
31
30.5
30.2
29.7
29.5
29.2
J
H
G
F
E
D

# Atlantic Yards Abatement & Demolition Status

vacant lot

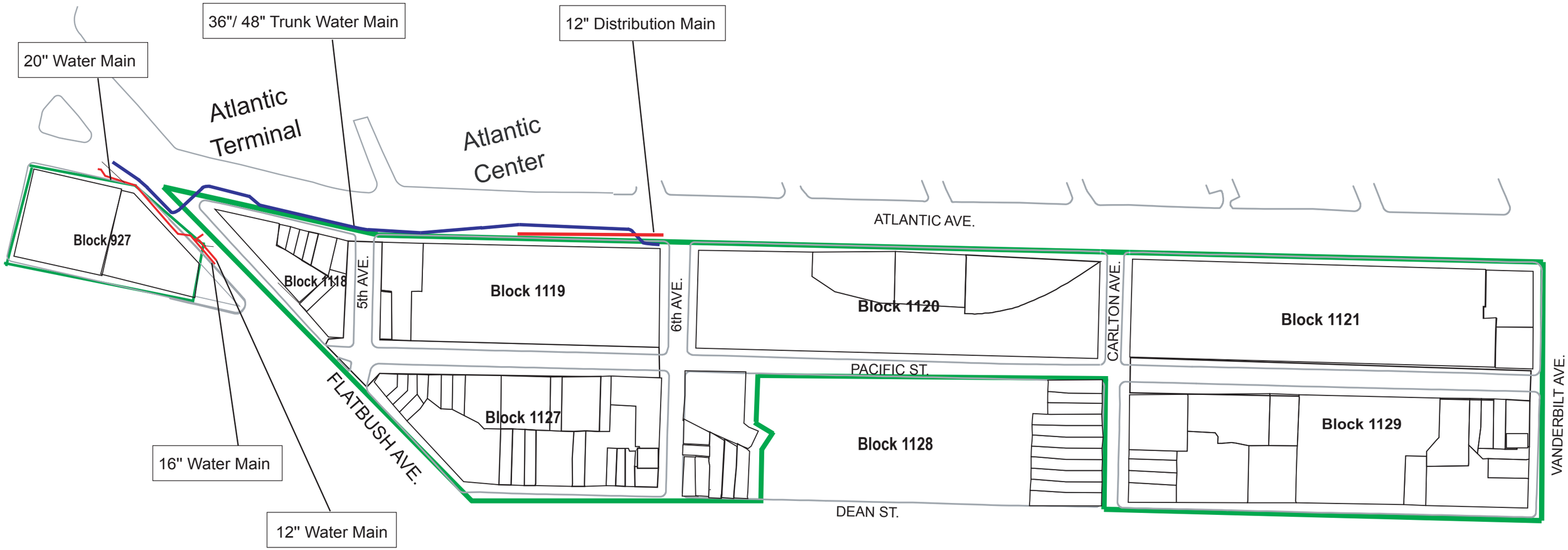
demolition underway

LIRR Yard

as of August 1, 2011

# Trunk & Water Main

July 2010




36"/ 48" Trunk Water Main

12", 16", & 20" Water Main & 12" Distribution Main