

ATLANTIC YARDS CONSTRUCTION UPDATE
Weeks of October 24th and October 31st

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 be required to accept steel deliveries, façade panel deliveries and deliveries the weeks of October 24th and 31st. 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 limited access for concrete trucks on Flatbush Avenue across from 5th Avenue 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.
- 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 during the month of November. It will be located just south of the existing construction ramp into the project.

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 on a weekly basis.

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 in Area “C” during this reporting period.

Foundation & Perimeter Walls

- Backfill placement along the 6th Avenue elevation will continue during this reporting period.
- Installation of footings and knee walls continues in the Area “C”, southeast quadrant of the site.

Steel Erection and Stadia Installation

- No second shift work by the steel erector/stadia installer is expected in the next two weeks. This will be re-evaluated after this period. Some weekday overtime may be needed and work on Saturdays will continue.
- The maintenance of the site to accommodate steel erection and stadia installation will continue during this period. Steel and stadia will continue to be brought into through the gate at Pacific Street and 6th Avenue throughout this reporting period.
- Primary roof steel erection will continue during this reporting period.

Façade Installation

- The façade erector will continue the installation of erection clips on the Flatbush Avenue elevations during this reporting period. The façade erector will continue with installation of erection clips along the 6th Avenue elevation this reporting period. Installation of the erection clips may be started on the Dean Street elevation during this reporting period.
- The installation of façade panels at the street level and at the Upper Concourse levels on Atlantic Avenue has been completed. Contractor will return to install the façade panels at the uppermost elevation and in area of material hoist at a later date.
- The installation of curtain wall and curtain wall/lattice panels will continue on the Flatbush Avenue elevation during this reporting period. A portion of this installation is expected to continue on a third shift this reporting period starting on or around October 31 where the crane will occupy part of northbound Flatbush Avenue. The intent is to allow for minimal interference with pedestrian and vehicular traffic on the Flatbush corridor. This permit has been approved by DOT with the DOB crane permit and the MPT was revised the week of October 3rd.

Waterproofing & Fireproofing

- The application of waterproofing to the foundation walls from 6th Avenue at Pacific Street starting north will continue during this reporting period, as weather allows. Backfilling at these locations will follow the waterproofing and will continue during this reporting period.
- The waterproofing of the interior walls of the east storm water retention tank will start this reporting period.
- The spray fireproofing will continue throughout this reporting period. The contractor performing this work will continue to use temporary electric to power their equipment. The spray fire proofer will work a second shift as needed during this reporting period in Quad “C”. The second shift will be continued on an as needed basis beyond this reporting period.

- The installation of temporary weather walls (visqueen & tarps) as well as temporary rubber roofing, to provide protection through the winter months, is expected to begin this reporting period.

Mechanical, Electrical, & Plumbing

- The gas service has been tied into the arena gas meter (Thursday 10/13/11).
- The domestic water service has been tied into the arena (Friday 10/14/11).
- Layout/installation related to the underground plumbing will continue within the arena footprint. Underground plumbing will continue within the arena footprint including Area “C” and in controlled access zones beneath the structural steel erection as needed this period.
- Underground electrical installation will continue in Area “C” and 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 primary switchgear for the Network Protector Room and the ConEd vault was delivered the previous reporting period & will be set this reporting period.
- The piping for the storm/sanitary/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. 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 Suite, Upper Suite and Upper Concourse levels.
- The elevator/escalator subcontractor completed the installation of the Atlantic Avenue elevation escalator equipment during the last reporting period, and will continue with the VIP entry escalator this reporting period. The vertical transportation contractor is expected to work a second shift during this reporting period.

Interior Build-out

- The masonry contractor will continue working at all levels during this reporting period. The masonry contractor will also be working in the network protector room, the elevator shafts and ConEd vault rooms.
- Precast concrete stadia erection will continue during this reporting period at Blocks 10-12 (Dean Street elevation).
- The placement of concrete slab 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 gypsum wallboard aka drywall framing & construction subcontractor (GWB) will continue layout of walls during this reporting period and will begin placement of the top wall track and partition walls at the suite levels. Steel stud placement for partition walls will continue during this reporting period. The wall board installation will continue at the Event Level Nets Campus area this reporting period.

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

New Subway Entrance Moves Forward

Vibration Monitoring

- BMT vibration monitors are no longer required by the NYCT and were removed. IRT monitors will also be removed in areas where they are no longer required.

Demolition

- Work has now progressed at the tip and the demolition phase has now been substantially completed. Interior demolition of the new southbound local IRT stair has commenced and will progress for the next several weeks below grade.

Rodent Control Plan

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

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. The southern eastbound lane of Atlantic Avenue has now been taken behind an expanded MPT in order to facilitate the removal of the planking/decking to be removed and the installation of temporary roadway restoration. This work is anticipated to occur over the next two weeks. This will then permit the next phase of the water main installation to take place which is scheduled for the fall/winter. This expanded MPT has been approved by DOT.

- Work at the southern vent shafts along Flatbush Avenue is substantially complete and northern vent work is continuing behind the construction fence.

Concrete

- The new roof over the new fare array area has been poured. Construction of the reinforced concrete staircase structure is substantially complete with steel treads and tiled risers to follow. Concrete formwork for the foundation walls is substantially complete and construction of the station roof near the tip, at Flatbush and Atlantic Avenues, is now substantially complete. The two new escalator trusses from the fare array area to the new plaza have been set and final assembly continues. The new elevator enclosure has also been erected and elevator rail installation has commenced.

Steel Erection

- Steel erection of the above ground entrance canopy is also nearing completion and the deck installation will now commence.

Waterproofing

- Waterproofing behind the foundation walls is now substantially complete. Waterproofing of the new roof will follow in the next two months.

Erection of Interior Walls

- Interior masonry walls have commenced in the fare array area and in the new utility rooms under the main staircase.

Mechanical, Electrical & Plumbing

- Mechanical, electrical and plumbing work within the subway station below ground is underway to accommodate new station configuration. Work has also now commenced in the new utility rooms under the main staircase.

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. The next BMT general order (GO's) will take place during the weekend of November 26th. Minor repair and cleanup work will occur on selective evenings under scheduled NYCT flagging protection.

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, yard and bridge during this reporting period.

Rodent Control Measures Taken

- McKissack has implemented an ongoing rodent control plan which is being 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 the next several months.

Drilling – Support of Excavation, & Tiebacks,

- Drilling of tiebacks will continue in the eastern end of the yard (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 the next one to two months, as they go together with excavation. Structural bracing of the car shop roof should be completed within this reporting period. Due to the need to expedite this work for structural support and stability this work item will also be progressed on Saturdays and possibly Sundays.
- Posillico/Tully is working from west to east to install deep drainage piping in the yard. They will also continue excavation for the associated storm water manholes. This work will be ongoing for the next 3 months.

Carlton Ave Bridge

- New MPT has been in place at Carlton Ave. and Pacific Street for work on the new south abutment. Excavation to the subgrade for the south abutment foundation has been completed. During this reporting period, the contractor will be forming, installing rebar and pouring concrete for the foundation of the South Abutment located in Block 1120.

Posillico/Tully will start the installation of the 30 mini-piles required to be installed to support the new North Abutment during the next two weeks.

Vibration Monitors, installed at the time of inception of work in the yard, are being monitored by an independent monitoring company and data is being analyzed by the project engineer. In addition, crack gauges have been installed in certain locations and surveys are being taken as directed by the engineer.

- Posillico/Tully will continue working on the lagging and tieback work at the north east gas station location and continue to lower the grade there. Additional pile-driving will resume in this area below grade during the next two weeks. The excavation and associated support work will be on-going for the next couple of months.

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 Greene intersection is complete and has been 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, has been removed by NYC DOT, per the approval of NYCTA. The trench for the work in the Flatbush sidewalk is completed and plated. The contractor did not work in this zone this period because their forces were needed to complete work on Traffic Mitigation Site Work in other areas to meet a more urgent deadline. The installation of pipe in the trenches will continue during this period. Trenches will be plated over every morning and sidewalks and travel lanes will be re-opened.
- Stage two along Atlantic Avenue between the transit connection work area and 6th avenue was completed in August.
- Stage three, which is over a portion the transit area will begin in January.

- The sanitary sewer and water taps on Dean Street are complete. The contractor has called for a DEP inspection and will pave the area after approval. All of the water and sewer work in this area must be performed at night between 10 PM and 6 AM per DOT stipulations.
- Storm water discharge into the sewers is still in progress. The discharge at Flatbush Avenue is complete but has not yet been inspected. The discharge at 6th and Pacific Streets will be made during later October/November. Work in this area will be performed during night time hours, 10 PM to 6 AM, to coordinate with arena work scheduled and DOT stipulations.
- 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.
- Occupancy/Use of the lay down area due south of the 752 Pacific Street office will continue during this period.

Demolition

- Demolition of 768 Pacific and 603 Dean were sign off by DOB on October 12.

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 has been 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). Curbing is complete, and the manholes and other facilities have been raised to the new grade level. The work remaining includes the installation of permanent traffic poles at the 4th/Flatbush and 4th/Atlantic corners. Trenching for new conduit to supply the new poles is still in progress. Trenching work is anticipated to be completed within this two week period. DOT will place temporary asphalt paving in the Times Plaza triangle during the week of Oct 21st. Our contractor will place permanent concrete pavement in the area next summer after the MTA completes its new bollard installation project. The MPT was

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. Because some of the work is at the edge of the island, a travel lane adjacent to the island must be taken out of service while the work is underway. Therefore all work must be performed at night between 10 PM and 6 AM per DOT stipulations.

- We have been advised that Verizon may retain MFM Contracting to install new conduit in the Times Plaza area. This work is independent of and unrelated to the Traffic Mitigation work and is not under the control of AYDC.
- 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 removes the protection.
- The curb extension on Dean Street, west of Flatbush will continue during the next two week period. Work is scheduled to be complete within 2 weeks. This work will be performed during night time hours from 10 PM to 6 AM per DOT stipulations.
- At the Pacific Street & 4th Avenue intersection, curbs, a hydrant and paving were installed.
- 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.

The traffic mitigation work required the use of jack hammers due to the requirement to install new conduits for new traffic signals being installed at the 4th, Flatbush and Atlantic intersections and the existence of thicker than normal road bed in many locations around Times Plaza. This second condition was due to the proximity and thickness of IRT and LIRR tunnel roofs, causing the inability to use larger more efficient equipment (i.e.: excavators and hoe rams) which would have reduced the duration of the noise substantially. After the pavement was saw-cut down to approximately 18”, jack hammers were required to be used to do remaining work removing pavement.

Arena Site Work

The revised Flatbush Avenue MPT is allowing work to continue on the installation of the Flatbush Avenue façade and the installation of bollards along this same stretch. The MPT revisions are now complete. Part of the overall site work for the arena block, bollard installation, commenced at the intersection of Dean and Flatbush in the area of the southern vents and will continue north along Flatbush, eventually continuing around the entire block. Other work that will be done as part of the site work includes sidewalks, installation of pavers, street furniture, street trees, light and signal poles, way finding signage, hydrants and the canopy to the new subway entrance. Additional detail on the work will be provided as the contractor progresses.

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 two Underground Storage Tanks (UST) in Block 1129 was completed. The UST's were removed in accordance with applicable FDNY and DEC regulations.
- Where excavation and soil removing 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.

Maintenance & Protection of Traffic (MPTs) For Your Safety

- MPT continues to be in place along the southern side of Atlantic Avenue between Flatbush & 6th Avenue. The current configuration of this MPT may be adjusted to accommodate the Stage Three work described in "Replacement of Adjacent Water Mains and other Utility Work". This adjustment will result in the expansion of the MPT into the southern eastbound lane of Atlantic Avenue. This expanded MPT is in accordance with previously approved MPT.
- MPT remains in place on the southern side of Atlantic between Carlton & Vanderbilt Avenues. Posillico/Tully has installed car shop roof support columns through openings that were core-drilled in the sidewalk and work continues underneath in the car shop while the roof is temporarily supported

from a column-based roof bracing system. This work will take several months. All DOT permits remain in place.

- MPT continues to be 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.
- MPT currently installed along Flatbush Avenue between Atlantic Avenue and Dean Street is being reconfigured to allow the construction of site work on the Arena Block. MPT will be adjusted during the times outlined below resulting in the following travel lane configuration along Flatbush Avenue:
 - 6 AM TO 10 AM there will be three (3) northbound travel lanes and two (2) southbound lanes;
 - 10 PM to 6 AM there will be four (4) travel lanes, two (2) northbound and two (2) southbound;
 - All other times of the day, there will be three (3) southbound travel lanes and two (2) northbound.

During overnight work hours (10 PM to 6 AM) the 8' construction fence will be removed and temporary timber barrier will be shifted out into the curbside travel lane to permit site work. The barrier will be removed and the travel lane restored daily in time for morning rush hour. A pedestrian pathway will be maintained along the east side of Flatbush Avenue. However, during night time work hours, 10 PM to 6 AM, the portion of the pathway between 5th Avenue and Dean Streets will be closed and pedestrian will be directed by a flagger (provided by the contractor) to the west side of Flatbush.

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:
 - Construction hours are 6am – 4:30pm.
 - 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.
 - Construction work may take place on Sundays during the hours of 8:00 AM – 4:30PM for a period of at least three months. The work being performed will be confined to two areas:
 - The LIRR car shop for the installation of the roof structural support system, demolition of existing yard-side wall, excavation and construction of new deeper footings.
 - The area of the former Northeast Gas Station (Block 1121, lot 42) for installation of lagging and tiebacks for the support of excavation.

- **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 shall be continued throughout this reporting period, from 3 – 11 PM, Monday-Friday only. Also subject to receipt of permits, a third shift shall be instituted during this reporting period, from 11 PM – 7 AM, Monday –Friday only.
 - Hunt has been granted 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 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. The second shift arena contractors are noted within the arena summary above.

- **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.

As noted above, work will be performed to repair steel within the BMT Tunnel and will be conducted under a BMT GO during the weekend of October 15th as approved by the NYCT. Additionally, work related to of the BMT structure and below grade concrete, steel and MEP work may be conducted on Saturday October 22nd during this reporting period.

- **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

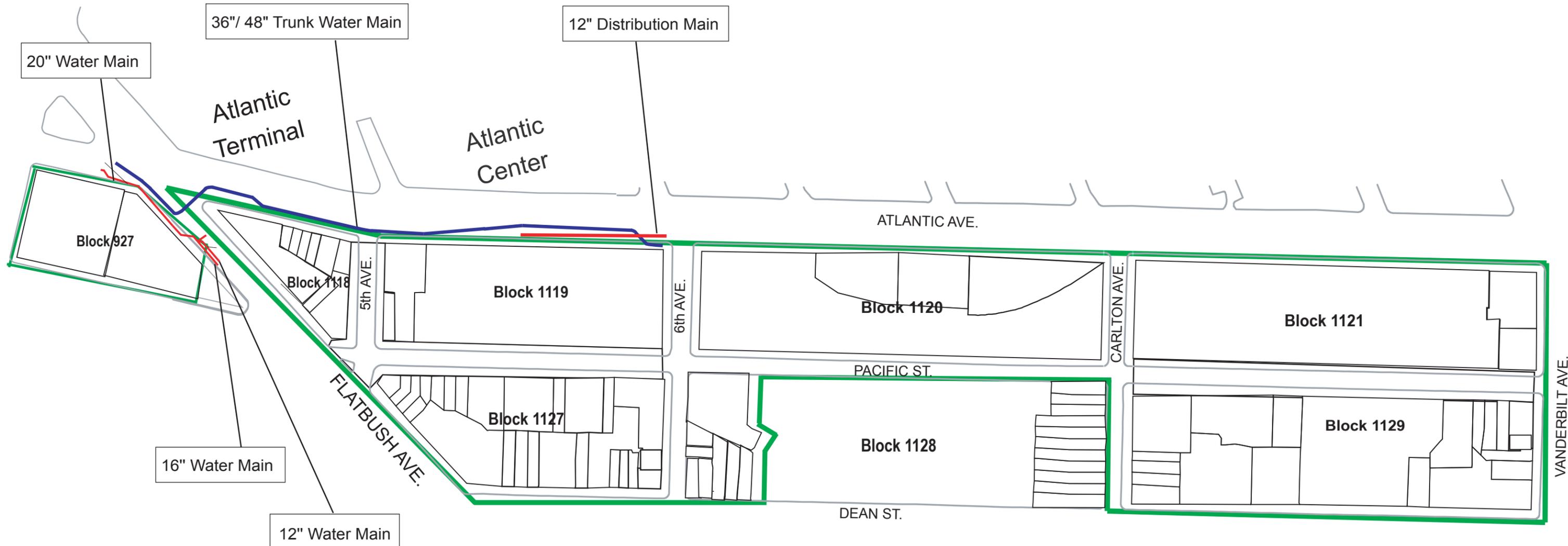
During the course of work, conditions may be encountered at the site which may warrant the need for night and/or weekend work. Work will be done pursuant to approved permits.

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.

Trunk & Water Main

July 2010



-  36"/ 48" Trunk Water Main
-  12", 16", & 20" Water Main & 12" Distribution Main